



Independent Statistics & Analysis
**U.S. Energy Information
Administration**

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Burden:

Form EIA-871A – 50 minutes

Form EIA-871I – 22 minutes

Form EIA-871J – 36 minutes

Commercial Buildings Energy Consumption Survey (CBECS)

[Form EIA-871A \(Building Questionnaire\)](#)

[Form EIA-871I \(Mall Building Questionnaire\)](#)

[Form EIA-871J \(Mall Establishment Questionnaire\)](#)

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How to Use This Questionnaire

The 2018 Commercial Buildings Energy Consumption Survey (CBECS) is programmed and conducted in computer-assisted interview software called Blaise.

The 2018 CBECS is offered in two different modes: interviewer-administered and web. For the interviewer-assisted mode, a professional interviewer administers the questionnaire in-person with a respondent at the building using a Surface Pro tablet computer. For the web version, the respondent is provided with a URL and a PIN and completes the questionnaire on their own.

The purpose of this paper representation of the questionnaire is to document the question text, fills, and skip patterns within the 2018 CBECS questionnaire. *PLEASE NOTE:* All the question fills and skip patterns are handled automatically by the software and are transparent to the interviewer, so this document appears much more complex than the actual CBECS instrument.

Here is an example question to show the general question format of this document:

A11	Cool roof materials {CoolRoof}			RFCOOL				
ASK	IF Building or Mall interview							
QUESTION TEXT - interviewer-administered								
Show Card	SHOW CARD A4							
Question Text	Please look at Show Card A4. Some roofs are designed to reflect more sunlight or absorb less heat than a standard roof. Which special qualities, if any, describe the roof of this building?							
Interviewer Instructions	Enter all that apply							
QUESTION TEXT - web								
Question Text	Some roofs are designed to reflect more sunlight or absorb less heat than a standard roof. Which special qualities, if any, describe the roof of this building?							
Respondent Instructions	Please select all that apply.							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. White or highly reflective coating or paint			CPCLRF					
2. White or highly reflective tiles or shingles			TSCLRF					
3. Aluminum coating			ALCLRF					
4. Ballasted roof system			BLCLRF					
5. Vegetated roof			VGCLRF					
6. Other			OTCLRF					
7. None								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Other selected → A12 [Other cool roof] OTHERWISE → A13 [Roof tilt]							

In the first row, the black box (**A1** here) contains the question number, followed by the **Question name** (**Cool roof materials** here), the internal **Blaise programming variable** in brackets ({CoolRoof} here) and the **SAS variable** (if applicable) in the same row. If the SAS variable area says “see below,” the variables are found within the RESPONSE OPTIONS box.

The **ASK** line describes the conditions that need to be true for a question to be on path for the interview.

As shown in the next example below, sometimes there is a **FILL** line that describes any question fills and the conditions under which each appears.

The **QUESTION TEXT - interviewer-administered** box provides information about the question in interviewer-assisted mode. The **Show Card** box shows which Show Card, if any, is applicable for the question, and if so, text reading SHOW CARD A4 (e.g.) will display above the question on the screen. Show Cards allow respondents completing the interviewer-administered questionnaire to see the full list of response options (as well as definitions, examples, or images, where applicable) that are displayed on screen for web respondents. The **Question text** box shows the question to be displayed and the **Interviewer Instructions** box shows the text that will be displayed below the question in italics (or N/A if there are no instructions for the particular question).

The **QUESTION TEXT - web** box provides information about the question in web mode. There are no Show Cards for the web, so that box is not there. The **Question text** box shows the question to be displayed if it's different from the interviewer-assisted mode (or “No changes required” if it is the same). The **Respondent Instructions** show the text that will be displayed below the question in italics.

The **ITEM TYPE** box shows an **X** for whether the question is Enumerated, Numeric, String Text, or a Date. Each of these types then provides different information, as follows:

RESPONSE OPTIONS: **Enumerated** shows the response set for the question, the associated **Image** to be shown on the screen, if applicable (not many questions have images), and the **SAS Name**, if applicable.

RESPONSE OPTIONS: **Numeric** shows the response set for the question, the **Watermark** shows the text that will be displayed within the data entry box before the interviewer or respondent begins typing, the **Label** that will be displayed directly to the right of the data entry box, and the allowable **Range** of data.

RESPONSE OPTIONS: **String Text** are mostly used for “other specify” responses. The **Watermark** shows the text that will be displayed within the data entry box before the interviewer or respondent begins typing.

RESPONSE OPTIONS
String Text
Watermark
Briefly describe the other activity associated with this gas station

RESPONSE OPTIONS: **Date** all show a **Watermark** of mm/dd/yyyy.

The **NONRESPONSE** box shows how the interviewer or respondent will proceed if they do not know the answer to the question. **Explicit DK** and **Explicit RF** mean that there will be a radio button or check box directly on the screen that says “I don’t know” or “I’d rather not answer.” **Missing Item Prompt Box** means that if the interviewer or respondent leaves the question blank, a message will appear that says “Did you mean to leave this question blank? If not, please provide an answer and select the “Next” button. Otherwise, select “Next” to skip the question.” **Allow Blank** means that a question can be left blank without the missing item prompt box appearing.

The **NEXT** line details the routing for the next question. Follow these instructions in order. Once a true statement is reached, go to the question indicated by the arrow (➡).

Example of **Numeric** response option:

A18	Floor-to-ceiling height {FloorToCeiling}	FLCEILHT		
ASK	IF Building or Mall interview			
FILL	{Floors} IF A16 [Number of floors] = 1 = "in this building" OTHERWISE = "of the majority of floors in this building"			
QUESTION TEXT - interviewer-administered				
Show Card	N/A			
Question Text	What is the typical floor-to-ceiling height {Floors}, measured in feet?			
Interviewer Instructions	N/A			
QUESTION TEXT - web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	feet	7 to 500		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ A19 [Attic]			

Section R: Respondent Questions

RRT	Respondent Question Routing
NOTE: If more than one contact is necessary to complete the interview, the questions in this section should be asked each time the case is re-started.	
IF interviewer-administered ➔ R1 [Consent]	
IF web THEN:	
IF First time case started ➔ R2 [Respondent function]	
IF Re-started case ➔ R4 [Same respondent]	

R1	Consent {Consent}			<i>R1CARI – RXCARI</i>
ASK	IF interviewer-administered			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Some parts of this interview will be recorded for quality control purposes. I'd like to continue now unless you have any questions.			
Interviewer Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated	<input type="checkbox"/> Numeric	<input type="checkbox"/> String Text	<input type="checkbox"/> Date
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Gives consent to record interview				
2. Does <u>not</u> give consent to record interview				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF First time case started ➔ R2 [Respondent function] IF Re-started case ➔ R4 [Same respondent]			

R2	Respondent function {Respondent}			R1JOB				
ASK	IF First time case started							
QUESTION TEXT – interviewer-administered								
Show Card	SHOW CARD 1 Take out the Show Cards or make sure the respondent has access to them.							
Question Text	Please turn to Show Card 1. Which of these categories best describes your job function?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	Which of the following categories best describes your job function?							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Operations, maintenance, or engineering								
2. Property management								
3. Store management								
4. Mall management								
5. Administration or company management								
6. Energy or environmental management								
7. Building owner								
8. Business owner								
9. Accounting, finances, or payroll								
10. Executive official								
11. School official								
12. Religious official								
13. Support staff								
14. Other								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Other ➔ R3 [Other job function] OTHERWISE ➔ R7 [Building boundaries]							

R3	Other job function {RespSpecify}			<i>R1JOBX</i>				
ASK	IF Other IN R2 [Respondent function]							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	N/A – other specify box – see watermark							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>String Text</i>								
<i>Watermark</i>								
Briefly describe your job function								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank							
NEXT	➔ R7 [Building boundaries]							

R4	Same respondent {SameRespondent}	R2SAME - RXSAME
ASK	IF Re-started case	
FILL	{StructDesc} = address from listing (including campus name, if applicable)	
QUESTION TEXT – interviewer-administered		
Show Card	N/A	
Question Text	N/A	
Interviewer Instructions	It appears the survey for {StructDesc} has been partially answered. Are you continuing the survey with the same respondent?	
QUESTION TEXT – web		
Question Text	It appears the survey for {StructDesc} has been partially answered. Are you the person who answered the first portion of this survey?	
Respondent Instructions	N/A	
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date	
RESPONSE OPTIONS		
<i>Enumerated</i>		
Response options	Image	SAS Name
1. Yes		
2. No		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank	
NEXT	IF Yes ➔ Next applicable question that has not been answered IF No OR Missing ➔ R5 [Respondent function]	

R5	Respondent function {NextResp}			R2JOB – RXJOB				
ASK	IF R4 [Same respondent] = No OR Missing							
QUESTION TEXT – interviewer-administered								
Show Card	SHOW CARD 1 Take out the Show Cards or make sure the respondent has access to them.							
Question Text	Please turn to Show Card 1. Which of these categories best describes your job function?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	Which of the following categories best describes your job function?							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Operations, maintenance, or engineering								
2. Property management								
3. Store management								
4. Mall management								
5. Administration or company management								
6. Energy or environmental management								
7. Building owner								
8. Business owner								
9. Accounting, finances, or payroll								
10. Executive official								
11. School official								
12. Religious official								
13. Support staff								
14. Other								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Other ➔ R6 [Other job function] OTHERWISE ➔ R7 [Building boundaries]							

R6	Other job function {NextRespSpecify}			<i>R2JOBX – RXJOBX</i>				
ASK	IF Other IN R5 [Respondent function]							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	N/A – other specify box – see watermark							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>String Text</i>								
<i>Watermark</i>								
Briefly describe your job function								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank							
NEXT	➔ R7 [Building boundaries]							

R7	Building boundaries {BuildingBounds}
ASK	All structure types
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment" {StructDesc} = address from listing (including campus name, if applicable)
QUESTION TEXT – interviewer-administered	
Show Card	N/A
Question Text	The {Structure} that we're going to be talking about today is {StructDesc}.
Interviewer Instructions	If this is correct, please select the "Next" button to continue.
QUESTION TEXT – web	
Question Text	When completing this survey, please consider only {StructDesc}.
Respondent Instructions	If this is correct, please select the "Next" button to continue. If this is incorrect or you are unsure, call your interviewer or the CBECS Help Line.
ITEM TYPE	No space for answer, just Next button.
NONRESPONSE	N/A
NEXT	IF First time case started ➔ A1 [Building name] IF Re-started case ➔ Next applicable question that has not been answered

Section A: Size, Structural Characteristics, and Age

A1	Building name {BuildingName}	<i>BLDGNAME</i>		
ASK	All structure types			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Mall = "shopping center" IF Interview = Establishment = "establishment"			
QUESTION TEXT - interviewer-administered				
Show Card	N/A			
Question Text	By what name is this {Structure} most commonly referred?			
Interviewer Instructions	N/A			
QUESTION TEXT - web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
String Text				
Watermark				
None				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Building or Mall interview → A2 [Street address] IF Establishment interview → A6 [Square footage]			

A2	Street address {StreetAddress}	ADDRESS
ASK	IF Building or Mall interview	
DISPLAY	A2-A5 are all on one screen	
QUESTION TEXT - interviewer-administered		
Show Card	N/A	
Question Text	Please tell me the address of the building, beginning with the street address. Street address:	
Interviewer Instructions	N/A	
QUESTION TEXT - web		
Question Text	What is the address of the building? Street address:	
Respondent Instructions	N/A	
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date	
RESPONSE OPTIONS		
String Text		
Watermark		
None		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank	
NEXT	→ A3 [City]	

A3	City {City}	CITY		
ASK	IF Building or Mall interview			
DISPLAY	A2-A5 are all on one screen			
QUESTION TEXT - interviewer-administered				
Show Card	N/A			
Question Text	City:			
Interviewer Instructions	N/A			
QUESTION TEXT - web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>String Text</i>				
<i>Watermark</i>				
None				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	➔ A2 [State]			

A4	State {State}	STATE
ASK	IF Building or Mall interview	
DISPLAY	A2-A5 are all on one screen	
QUESTION TEXT - interviewer-administered		
Show Card	N/A	
Question Text	State:	
Interviewer Instructions	N/A	
QUESTION TEXT - web		
Question Text	No changes required	
Respondent Instructions	N/A	
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date	
RESPONSE OPTIONS		
<i>Enumerated</i>		
Response options		Image
State list drop-down with "Select a state" as watermark. Alphabetic order by state name, beginning with state abbreviation. Example : AL - ALABAMA		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank	
NEXT	→ A5 [ZIP code]	

A5	ZIP code {ZIPcode}			ZIP				
ASK	IF Building or Mall interview							
DISPLAY	A2-A5 are all on one screen							
QUESTION TEXT - interviewer-administered								
Show Card	N/A							
Question Text	ZIP code:							
Interviewer Instructions	N/A							
QUESTION TEXT - web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Numeric</i>								
Watermark	Label	Range						
None	None	00000 to 99999						
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank							
NEXT	→ A6 [Square footage]							

A6	Square footage {SqFt}	SQFT		
ASK	All structure types			
FILL	<p>{Structure} IF Interview = Building or Mall = "building" IF Interview = Establishment = "establishment"</p> <p>{ElevatorParking} IF Interview = Building or Mall = "elevator shafts, and indoor parking levels?" IF Interview = Establishment = "and elevator shafts?"</p>			
QUESTION TEXT - interviewer-administered				
Show Card	N/A			
Question Text	What is the gross or total square footage of all the space in this {Structure}, both finished and unfinished, including basements, hallways, lobbies, stairways, {ElevatorParking}			
Interviewer Instructions	N/A			
QUESTION TEXT - web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	square feet	1 to 999,999,999		
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	IF DK/Missing → A7 [Square footage category] IF Establishment interview → B56 [Establishment activity] IF 1,000 square feet or less → A8 [End of interview] OTHERWISE → A9 [Wall construction material]			

A7	Square footage category {SqFtRange}	SQFTC
ASK	IF A6 [Square footage] = DK/Missing	
FILL	{Structure} IF Interview = Building or Mall = "building" IF Interview = Establishment = "establishment"	
QUESTION TEXT - interviewer-administered		
Show Card	SHOW CARD A1	
Question Text	I understand that it may be difficult to give an exact figure for square footage. Please look at Show Card A1 and tell me which category best describes the total gross square footage of this {Structure}.	
Interviewer Instructions	N/A	
QUESTION TEXT - web		
Question Text	Which category best describes the total gross square footage of this {Structure}?	
Respondent Instructions	N/A	
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date	
RESPONSE OPTIONS		
Enumerated		
Response options	Image	SAS Name
1. 1,000 square feet or less <i>(1,000 square feet is approximately 2 times the size of a two car garage)</i>		
2. 1,001 to 5,000 square feet <i>(Example: fast food restaurant)</i>		
3. 5,001 to 10,000 square feet <i>(Example: sit-down style chain restaurant)</i>		
4. 10,001 to 25,000 square feet <i>(Example: high school gym)</i>		
5. 25,001 to 50,000 square feet <i>(Example: supermarket)</i>		
6. 50,001 to 100,000 square feet <i>(Example: large discount or home improvement store)</i>		
7. 100,001 to 200,000 square feet <i>(Example: 3-level department store)</i>		
8. 200,001 to 500,000 square feet <i>(Example: professional basketball arena)</i>		
9. 500,001 to 1 million square feet <i>(Example: convention center)</i>		
10. Over 1 million square feet <i>(Example: skyscraper)</i>		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank	
NEXT	IF Establishment interview → B56 [Establishment activity] IF 1,000 square feet or less → A8 [End of interview] OTHERWISE → A9 [Wall construction material]	

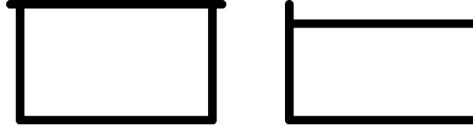
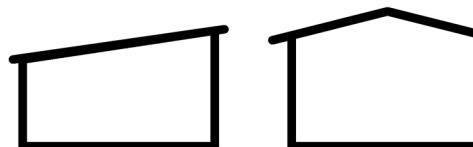
A8	End of interview {TerminateSize}
ASK	IF Building or Mall interview & (A6 [Square footage] ≤ 1,000 OR A7 [Square footage category] = 1,000 or less)
QUESTION TEXT - interviewer-administered	
Show Card	N/A
Question Text	Thank you for your time and help. This completes your interview since this study only includes buildings that are larger than one thousand square feet.
Interviewer Instructions	If this is incorrect, and the building is larger than one thousand square feet, please select the “Back” button to change the previous answer. Otherwise, please select the “Next” button to finish the interview.
QUESTION TEXT - web	
Question Text	No changes required
Respondent Instructions	No changes required
ITEM TYPE	No space for answer, just Next button
NONRESPONSE	N/A
NEXT	TERMINATE

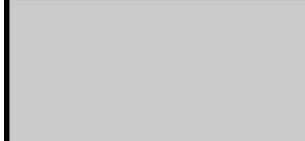
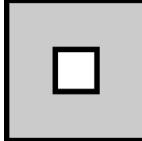
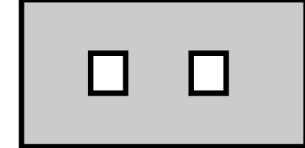
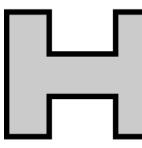
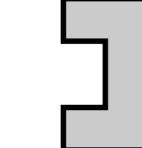
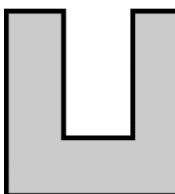
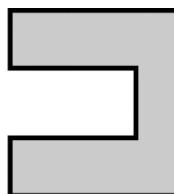
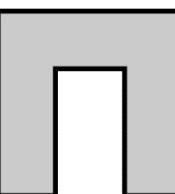
A9	Wall construction material {WallCons}			WLCNS
ASK	IF Building or Mall interview			
QUESTION TEXT - interviewer-administered				
Show Card	SHOW CARD A2			
Question Text	Please look at Show Card A2 for a list of different types of construction materials. Which one of these categories best describes the predominant exterior wall construction material used on this building?			
Interviewer Instructions	N/A			
QUESTION TEXT - web				
Question Text	Which one of these categories best describes the predominant exterior wall construction material used on this building?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Brick, stone, or stucco				
2. Pre-cast concrete panels				
3. Concrete block or poured concrete (above grade)				
4. Aluminum, asbestos, plastic, or wood materials (siding, shingles, tiles, or shakes)				
5. Sheet metal panels				
6. Window or vision glass (glass that <u>can</u> be seen through)				
7. Decorative or construction glass (glass that <u>cannot</u> be seen through)				
8. Other				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ A10 [Roof construction material]			

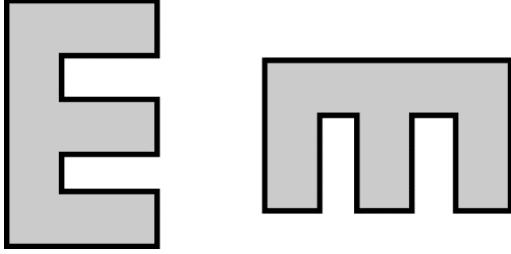
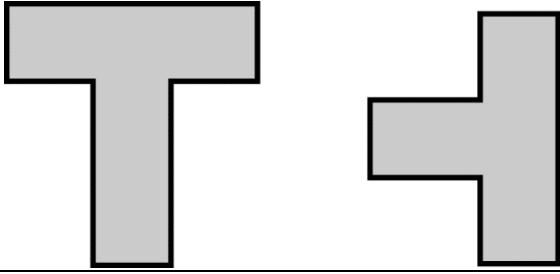
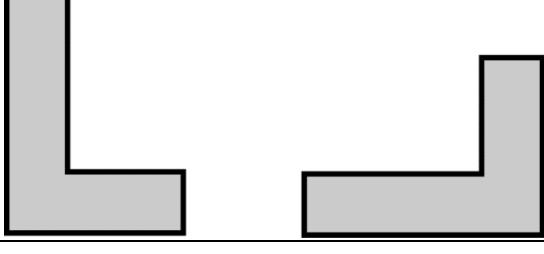
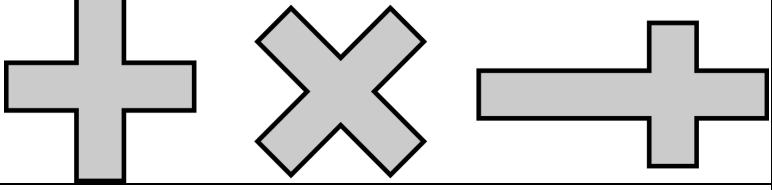
A10	Roof construction material {RoofCons}			RFCNS
ASK	IF Building or Mall interview			
QUESTION TEXT - interviewer-administered				
Show Card	SHOW CARD A3			
Question Text	Please look at Show Card A3 for a list of different types of roofing materials. Which one of these categories best describes the building's predominant exterior roof surface?			
Interviewer Instructions	N/A			
QUESTION TEXT - web				
Question Text	Which one of these categories best describes the building's predominant exterior roof surface?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options		Image	SAS Name	
1. Built-up (tar, felts, or fiberglass and a ballast, such as stone)				
2. Slate or tile shingles				
3. Wood shingles, shakes, or other wooden materials				
4. Asphalt, fiberglass, or other shingles				
5. Metal surfacing				
6. Plastic, rubber, or synthetic sheeting (single or multi ply)				
7. Concrete				
8. Other				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	→ A11 [Cool roof materials]			

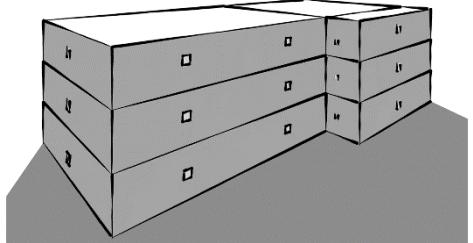
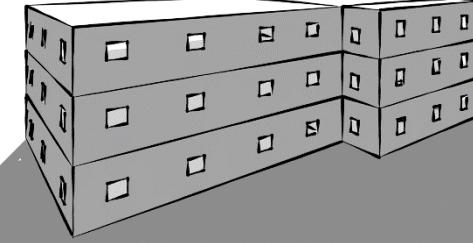
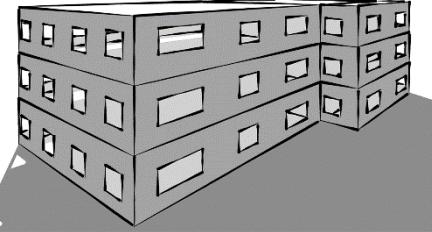
A11	Cool roof materials {CoolRoof}			RFCOOL
ASK	IF Building or Mall interview			
QUESTION TEXT - interviewer-administered				
Show Card	SHOW CARD A4			
Question Text	Please look at Show Card A4. Some roofs are designed to reflect more sunlight or absorb less heat than a standard roof. Which special qualities, if any, describe the roof of this building?			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT - web				
Question Text	Some roofs are designed to reflect more sunlight or absorb less heat than a standard roof. Which special qualities, if any, describe the roof of this building?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. White or highly reflective coating or paint		CPCLRF		
2. White or highly reflective tiles or shingles		TSCLRF		
3. Aluminum coating		ALCLRF		
4. Ballasted roof system		BLCLRF		
5. Vegetated roof		VGCLRF		
6. Other		OTCLRF		
7. None				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other selected → A12 [Other cool roof] OTHERWISE → A13 [Roof tilt]			

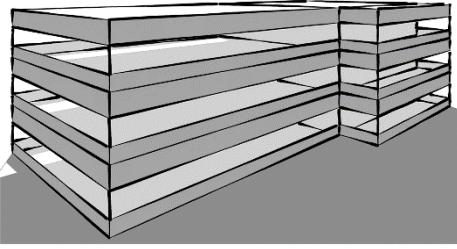
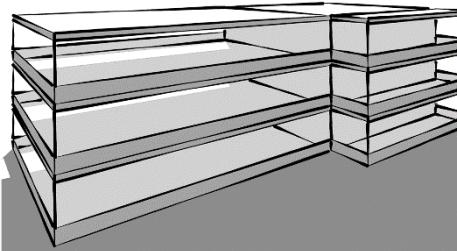
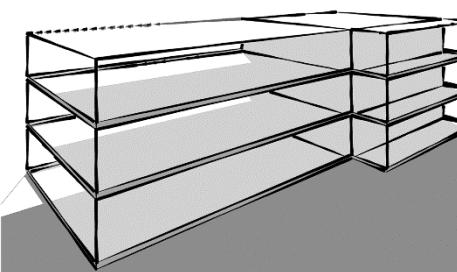
A12	Other cool roof {OtherCoofRoof}			OTCLRFX				
ASK	IF A11 [Cool roof materials] = Other							
QUESTION TEXT - interviewer-administered								
Show Card	N/A							
Question Text	N/A – other specify box – see watermark							
Interviewer Instructions	N/A							
QUESTION TEXT - web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>String Text</i>								
<i>Watermark</i>								
Briefly describe the other quality of the roof								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank							
NEXT	➔ A13 [Roof tilt]							

A13	Roof tilt {RoofTilt}			RFTILT
ASK	IF Building or Mall interview			
QUESTION TEXT - interviewer-administered				
Show Card	SHOW CARD A5			
Question Text	Looking at Show Card A5, please tell me which one of these images best represents the tilt or pitch of the roof of this building.			
Interviewer Instructions	N/A			
QUESTION TEXT - web				
Question Text	Which one of these images best represents the tilt or pitch of the roof of this building?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Flat				
2. Shallow pitch				
3. Steeper pitch				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ A14 [Building shape]			

A14	Building shape {BldgShape}	BLDSHP		
ASK	IF Building or Mall interview			
QUESTION TEXT - interviewer-administered				
Show Card	SHOW CARD A6			
Question Text	Looking at Show Card A6, which one of these shapes best resembles the floorplan of this building at ground level? This is sometimes called the "footprint" of the building.			
Interviewer Instructions	N/A			
QUESTION TEXT - web				
Question Text	Which one of these shapes best resembles the floorplan of this building at ground level? This is sometimes called the "footprint" of the building.			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Square				
2. Wide rectangle				
3. Narrow rectangle				
4. Rectangle or square with an interior courtyard	 			
5. "H" shaped	 			
6. "U" shaped	  			

7. "E" shaped			
8. "T" shaped			
9. "L" shaped			
10. "+" or cross shaped			
11. Other shape			
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank		
NEXT	➔ A15 [Percent exterior glass]		

A15	Percent exterior glass {GlassPct}	GLSSPC		
ASK	IF Building or Mall interview			
QUESTION TEXT - interviewer-administered				
Show Card	SHOW CARD A7			
Question Text	Which of the ranges on Show Card A7 best describes the percentage of the exterior wall surface of this building that is covered with window glass or glass doors?			
Interviewer Instructions	N/A			
QUESTION TEXT - web				
Question Text	Which of these ranges best describes the percentage of the exterior wall surface of this building that is covered with window glass or glass doors?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. 1% or less				
2. 2 to 10%				
3. 11 to 25%				

4. 26 to 50%		
5. 51 to 75%		
6. 76 to 100%		
NONRESPONSE		<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF X Missing Item Prompt Box <input type="checkbox"/> Allow Blank
NEXT ➔ A16 [Number of floors]		

A16	Number of floors {Floors}	NFLOOR		
ASK	IF Building or Mall interview			
QUESTION TEXT - interviewer-administered				
Show Card	N/A			
Question Text	How many floors are in the tallest section of the building? <u>Include</u> basements, parking levels, or any other floors below ground level. <u>Exclude</u> attics, half-floors, mezzanines, balconies, and lofts. If you're not sure, please provide your best estimate.			
Interviewer Instructions	N/A			
QUESTION TEXT - web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	floors	1 to 999		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Mall interview OR Only one floor OR Missing ➔ A18 [Floor to ceiling height] OTHERWISE ➔ A17 [Number of underground floors]			

A17	Number of underground floors {Basement}		BASEMNT			
ASK	IF Building interview & A16 [Number of floors] > 1					
QUESTION TEXT - interviewer-administered						
Show Card	N/A					
Question Text	How many of these floors are completely or partly below ground? If you're not sure, please provide your best estimate.					
Interviewer Instructions	N/A					
QUESTION TEXT - web						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
Enter a number	underground floors	0 to 999				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	➔ A18 [Floor-to-ceiling height]					

A18	Floor-to-ceiling height {FloorToCeiling}		<i>FLCEILHT</i>			
ASK	IF Building or Mall interview					
FILL	{Floors} IF A16 [Number of floors] = 1 = "in this building" OTHERWISE = "of the majority of floors in this building"					
QUESTION TEXT - interviewer-administered						
Show Card	N/A					
Question Text	What is the typical floor-to-ceiling height {Floors}, measured in feet?					
Interviewer Instructions	N/A					
QUESTION TEXT - web						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
Enter a number	feet	7 to 500				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	➔ A19 [Attic]					

A19	Attic {Attic}			ATTIC				
ASK	IF Building or Mall interview							
QUESTION TEXT - interviewer-administered								
Show Card	N/A							
Question Text	Does this building have an attic? An attic is a space in a building that is directly below the roof, not permanently occupied, and not directly heated or cooled.							
Interviewer Instructions	N/A							
QUESTION TEXT - web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF A16 [Number of floors] = 1 ➔ A24 [Year of construction] OTHERWISE ➔ A20 [Elevators]							

A20	Elevators {Elevators}			ELEVTR				
ASK	IF A16 [Number of floors] ≠ 1							
QUESTION TEXT - interviewer-administered								
Show Card	N/A							
Question Text	Are there any elevators in this building?							
Interviewer Instructions	N/A							
QUESTION TEXT - web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Yes → A21 [Number of elevators] OTHERWISE → A22 [Escalators]							

A21	Number of elevators {NumElevator}			<i>NELVTR</i>
ASK	IF A20 [Elevators] = Yes			
QUESTION TEXT - interviewer-administered				
Show Card	N/A			
Question Text	How many elevators are there? If you're not sure, please provide your best estimate.			
Interviewer Instructions	N/A			
QUESTION TEXT - web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	elevators	1 to 999		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ A22 [Escalators]			

A22	Escalators {Escalators}			ESCLTR				
ASK	IF A16 [Number of floors] ≠ 1							
QUESTION TEXT - interviewer-administered								
Show Card	N/A							
Question Text	Are there any escalators in this building?							
Interviewer Instructions	N/A							
QUESTION TEXT - web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Yes → A23 [Number of escalators] OTHERWISE → A24 [Year of construction]							

A23	Number of escalators {NumEscalator}		<i>NESLTR</i>			
ASK	IF A22 [Escalators] = Yes					
QUESTION TEXT - interviewer-administered						
Show Card	N/A					
Question Text	How many escalators are there? Count <u>each</u> escalator. For example, a pair of up and down escalators should be counted as two. "Moving sidewalks" should be counted as escalators. If you're not sure, please provide your best estimate.					
Interviewer Instructions	N/A					
QUESTION TEXT - web						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
Enter a number	escalators	1 to 99				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	→ A24 [Year of construction]					

A24	Year of construction {Year}			YRCON				
ASK	IF Building or Mall interview							
QUESTION TEXT - interviewer-administered								
Show Card	N/A							
Question Text	What year was this building constructed? If there have been major additions, give the year the <u>largest</u> portion of the building was completed.							
Interviewer Instructions	N/A							
QUESTION TEXT - web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Numeric</i>								
Watermark	Label	Range						
Enter a year	None	1600 to 2019						
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank							
NEXT	IF DK/Missing → A25 [Year of construction category] IF 2018 → A27 [Month ready for occupancy] IF 2019 → A26 [End of interview] IF 2012 or earlier → A28 [Renovations] IF 2013 to 2017 & Building interview → B1 [Primary activity] IF 2013 to 2017 & Mall interview → B42 [On a multibuilding complex]							

A25	Year of construction category {YearRange}	YRCONC		
ASK	IF A24 [Year of construction] = DK/Missing			
QUESTION TEXT - interviewer-administered				
Show Card	SHOW CARD A8			
Question Text	Please look at Show Card A8 and tell me which range best describes when this building was constructed.			
Interviewer Instructions	N/A			
QUESTION TEXT - web				
Question Text	Which range best describes when this building was constructed?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Before 1920				
2. 1920 to 1945				
3. 1946 to 1959				
4. 1960 to 1969				
5. 1970 to 1979				
6. 1980 to 1989				
7. 1990 to 1999				
8. 2000 to 2009				
9. 2010 to 2012				
10. 2013 to 2018				
11. 2019				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF 2019 → A26 [End of interview] IF Any category (OR DK/Missing) except 2013 to 2018 → A28 [Renovations] IF 2013 to 2018 & Building interview → B1 [Primary activity] IF 2013 to 2018 & Mall interview → B42 [On a multibuilding complex]			

A26	End of interview {Terminate2019}
ASK	IF A24 [Year of construction] OR A25 [Year of construction category] = 2019
QUESTION TEXT - interviewer-administered	
Show Card	N/A
Question Text	Thank you for your time and help. This completes your interview since this study only includes buildings that were ready for occupancy before January 1, 2019.
Interviewer Instructions	If this is incorrect, and the building was occupied before January 1, 2019, please select the "Back" button to change the previous answer. Otherwise, please select the "Next" button to finish the interview.
QUESTION TEXT - web	
Question Text	No changes required
Respondent Instructions	No changes required
ITEM TYPE	No space for answer, just Next button.
NONRESPONSE	N/A
NEXT	TERMINATE

A27	Month ready for occupancy {Month}			MONCON
ASK	IF A24 [Year of construction] = 2018			
QUESTION TEXT - interviewer-administered				
Show Card	N/A			
Question Text	In what month of 2018 was this building first ready for occupancy?			
Interviewer Instructions	N/A			
QUESTION TEXT - web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. January				
2. February				
3. March				
4. April				
5. May				
6. June				
7. July				
8. August				
9. September				
10. October				
11. November				
12. December				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Building interview → B1 [Primary activity] IF Mall interview → B42 [On a multibuilding complex]			

A28	Renovations {Renovations}	RENOV		
ASK	IF A24 [Year of construction] = 2012 or earlier OR A25 [Year of construction category] = Any category (OR DK/Missing) except 2013 to 2018			
FILL	{Since2000orConstructed} IF A24 [Year of construction] = 2000 or later OR A25 [Year of construction category] = 2000 to 2009 OR 2010 to 2012 = "since it was constructed" OTHERWISE = "since the year 2000"			
QUESTION TEXT - interviewer-administered				
Show Card	N/A			
Question Text	Has any part of this building undergone renovations {Since2000orConstructed}?			
Interviewer Instructions	N/A			
QUESTION TEXT - web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	<input type="checkbox"/>	Image	SAS Name	
1. Yes				
2. No				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Yes → A29 [What renovations] OTHERWISE: IF Building interview → B1 [Primary activity] IF Mall interview → B42 [On a multibuilding complex]			

A29	What renovations {WhatRenovated}	see below		
ASK	IF A28 [Renovations] = Yes			
FILL	<p>{Since2000orConstructed} IF A24 [Year of construction] = 2000 or later OR A25 [Year of construction category] = 2000 to 2009 OR 2010 to 2012 = "since it was constructed" OTHERWISE = "since the year 2000"</p>			
QUESTION TEXT - interviewer-administered				
Show Card	SHOW CARD A9			
Question Text	Please look at Show Card A9 and tell me which types of renovations have been done {Since2000orConstructed}.			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT - web				
Question Text	Which types of renovations have been done {Since2000orConstructed}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Cosmetic improvements (interior or exterior) <i>(Examples: new paint, siding, furniture, wallpaper, carpeting)</i>		RENCOS		
2. Addition or annex		RENADD		
3. Reduction of enclosed floorspace <i>(Example: demolition of unused wing of building)</i>		RENRDC		
4. Interior wall re-configuration <i>(Example: individual offices turned into area for cubicles)</i>		RENINT		
5. Roof replacement		RENRFF		
6. Window replacement		RENWIN		
7. HVAC (heating, ventilation, or air conditioning) equipment upgrade		RENHVC		
8. Lighting upgrade		RENLGT		
9. Plumbing system upgrade (includes hot water heaters)		RENPLB		
10. Electrical upgrade		RENELC		
11. Insulation upgrade		RENINS		
12. Fire, safety, or security upgrade		RENSAF		
13. Structural upgrade <i>(Examples: foundation upgrade, seismic upgrade)</i>		RENSTR		
14. Other		RENOOTH		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other selected → A30 [Other renovation] OTHERWISE: IF Building interview → B1 [Primary activity] IF Mall interview → B42 [On a multibuilding complex]			

A30	Other renovation {OtherRenovation}			RENOTHX
ASK	IF A29 [What renovations] = Other			
QUESTION TEXT - interviewer-administered				
Show Card	N/A			
Question Text	N/A – other specify box – see watermark			
Interviewer Instructions	N/A			
QUESTION TEXT - web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>String Text</i>				
<i>Watermark</i>				
Briefly describe the other type of renovation				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	IF Building interview → B1 [Primary activity] IF Mall interview → B42 [On a multibuilding complex]			

Section B: Building or Establishment Activity

B1	Primary activity {Activity}	ACT, ACT1		
ASK	IF Building interview			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD B1			
Question Text	Please look at Show Card B1. Which one of the activities on the list accounts for the <u>majority</u> of the floorspace in this building?			
Interviewer Instructions	If there are equal shares of floorspace for more than one activity, select any one of those activities here.			
QUESTION TEXT – web				
Question Text	Which one of these activities accounts for the <u>majority</u> of the floorspace in this building?			
Respondent Instructions	No changes required			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Tooltip text			
11. Office/Professional	Examples: administration; bank; brokerage/securities firm; consulting; government; insurance; law; mixed professional; non-profit; real estate; research and development; sales or leasing.			
12. Data center	A data center is a group of networked computer servers that are housed in one location, usually a secure area. The servers perform functions such as data storage and processing. There are usually many servers stacked in rows of racks and they operate continuously, day and night. Data centers are generally kept very cool and require a dedicated uninterruptible power supply.			
13. Warehouse/Storage	Includes non-refrigerated and refrigerated warehouses, distribution or shipping centers, other storage buildings, and public rental storage units.			
14. Food sales or service	Examples: grocery store/supermarket; convenience store; restaurant; fast food; cafeteria; caterer; bar; enclosed farmer's market; fruit/vegetable market; meat/seafood store; specialty food store; sandwich shop; coffee shop.			
15. Enclosed mall	An enclosed shopping mall contains multiple stores and other establishments, often anchored by one or more department stores, with interior walkways and common areas.			
16. Retail (other than mall)	Examples: big-box chain store; department store; wholesale club; clothing store; home improvement/gardening/building supplies; automobile dealer/showroom; hardware store; drugstore; furniture/appliances; car rental; equipment rental; alcoholic beverage store; antique shop; pawn shop; bookstore.			
17. Education	Buildings for academic or technical <u>classroom</u> instruction. Other activities that occur on school campuses (e.g., gyms, dormitories, libraries) should be reported in their respective categories. Examples of <u>classroom education</u> : preschool/daycare, elementary school, middle/junior high school, high school, college/university classroom, vocational school/career training, religious education.			
18. Religious worship	Examples: chapel; church; mosque; synagogue; temple.			

19. Public assembly	Buildings where people gather for entertainment, cultural, recreational, or social activities. Examples: art gallery; exhibit hall; library; museum; casino; concert hall; night club; observatory/planetarium; stadium/arena/coliseum; theater/cinema; amusement arcade; bowling alley; community center; gymnasium/health club; indoor racquet sports; recreation center; indoor swimming pool; skating rink; assembly hall/auditorium; convention center; funeral home; lecture hall; lodge hall; meeting hall; student union; senior center; town hall; armory; airport terminal; train/bus station.
20. Health care	Includes both inpatient (services involving overnight care) and outpatient services. Examples: medical care hospital; psychiatric hospital; substance abuse rehabilitation center; veterinary facilities; physical therapy center; dental clinic/office; medical clinic/office; mental health/psychiatric clinic; urgent care clinic; women's health clinic.
21. Service	Examples: motor vehicle repair or service; other repair or maintenance shop; dry cleaner; laundry; car wash; gas station; barber shop; salon/spa; animal shelter; kennel; doggie daycare; copy center/printing; post office/shipping center/mailbox facility.
22. Lodging	Examples: hotel; motel; inn/bed and breakfast; dormitory/sorority/fraternity; retirement home; nursing home; shelter/group home/children's home; halfway house; convent/monastery.
23. Public order and safety	Examples: fire station; police station; courthouse/probation office; jail/penitentiary/prison; reformatory; sheriff's office.
24. Residential	Living quarters for one or more households with individual kitchen facilities. Examples: apartment building; single family detached home; duplex; townhouse; row house; mobile home.
25. Industrial/Manufacturing	Buildings that involve the processing or procurement of goods, merchandise, raw materials or food. Examples: assembly factory; construction or natural resource procurement; food processing; manufacturing plant; mill; paper, chemical, rubber or petroleum processing; utility or sanitary service.
26. Agricultural	Buildings that involve the production, processing, sale, storage or housing of agricultural products, including livestock. Examples: greenhouse; livestock housing; nursery; grain storage.
27. Vacant	Buildings that were vacant during 2018, but were previously used for commercial purposes.
28. Other	Examples: laboratory; airplane hangar; public restroom/locker room/changing area; crematorium; enclosed parking garage; telephone switching facilities; broadcasting studio.
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank
NEXT	IF Missing ➔ B42 [On a multibuilding complex] OTHERWISE ➔ B2 [One activity in building]

B2	One activity in building {OneAct}	ONEACT
ASK	IF B1 [Primary activity] ≠ Missing	
FILL	<p>{Activity}</p> <p>IF B1 [Primary activity] = Office/Professional = "used as office space" IF B1 [Primary activity] = Data center = "used as a data center" IF B1 [Primary activity] = Warehouse/Storage = "used as warehouse or storage space" IF B1 [Primary activity] = Food sales or service = "used for food sales or service" IF B1 [Primary activity] = Enclosed mall = "an enclosed mall" IF B1 [Primary activity] = Retail = "used for retail" IF B1 [Primary activity] = Education = "used for education" IF B1 [Primary activity] = Religious worship = "used for religious worship" IF B1 [Primary activity] = Public assembly = "used for public assembly" IF B1 [Primary activity] = Health care = "used for health care" IF B1 [Primary activity] = Service = "used for service" IF B1 [Primary activity] = Lodging = "used for lodging" IF B1 [Primary activity] = Public order and safety = "used for public order and safety" IF B1 [Primary activity] = Residential = "residential" IF B1 [Primary activity] = Industrial/Manufacturing = "industrial or manufacturing" IF B1 [Primary activity] = Agricultural = "agricultural" IF B1 [Primary activity] = Vacant = "vacant" IF B1 [Primary activity] = Other = "used for this activity"</p>	
QUESTION TEXT – interviewer-administered		
Show Card	N/A	
Question Text	Is 75 percent or more of the floorspace in this building {Activity}?	
Interviewer Instructions	N/A	
QUESTION TEXT – web		
Question Text	No changes required	
Respondent Instructions	N/A	
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date	
RESPONSE OPTIONS		
<i>Enumerated</i>		
Response options	Image	SAS Name
1. Yes		
2. No		

NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank
NEXT	<p>IF Yes OR Missing THEN:</p> <p>IF B1 [Primary activity] = Office/Professional → B5 [Office type] IF B1 [Primary activity] = Data center → B6 [Verify data center] IF B1 [Primary activity] = Warehouse/Storage → B9 [Warehouse type] IF B1 [Primary activity] = Food sales or service → B10 [Food sales or service type] IF B1 [Primary activity] = Enclosed mall → B32 [Assign CBECS Activity = Enclosed mall] IF B1 [Primary activity] = Retail → B11 [Retail type] IF B1 [Primary activity] = Education → B12 [Education type] IF B1 [Primary activity] = Religious worship → B32 [Assign CBECS Activity = Religious worship] IF B1 [Primary activity] = Public assembly → B13 [Assembly type] IF B1 [Primary activity] = Health care → B14 [Health care type] IF B1 [Primary activity] = Service → B15 [Service type] IF B1 [Primary activity] = Lodging → B19 [Lodging type] IF B1 [Primary activity] = Public order and safety → B20 [Public order type] IF B1 [Primary activity] = Residential → B21 [Residential type] IF B1 [Primary activity] = Industrial/Manufacturing → B8 [Used as warehouse] IF B1 [Primary activity] = Agricultural → B23 [Space for retail sales] IF B1 [Primary activity] = Vacant → B24 [Vacant for noncommercial] IF B1 [Primary activity] = Other → B26 [Other type] OTHERWISE → B3 [Activities in building] </p>

B3	Activities in building {MultiUse}	ACT2, ACT3
ASK	IF B2 [One activity in building] = No	
FILL	{Activity} IF B1 [Primary activity] = Office/Professional = "office" IF B1 [Primary activity] = Data center = "data center" IF B1 [Primary activity] = Warehouse/Storage = "warehouse or storage" IF B1 [Primary activity] = Food sales or service = "food sales or service" IF B1 [Primary activity] = Enclosed mall = "enclosed mall" IF B1 [Primary activity] = Retail = "retail" IF B1 [Primary activity] = Education = "education" IF B1 [Primary activity] = Religious worship = "religious worship" IF B1 [Primary activity] = Public assembly = "public assembly" IF B1 [Primary activity] = Health care = "health care" IF B1 [Primary activity] = Service = "service" IF B1 [Primary activity] = Lodging = "lodging" IF B1 [Primary activity] = Public order and safety = "public order and safety" IF B1 [Primary activity] = Residential = "residential" IF B1 [Primary activity] = Industrial/Manufacturing = "industrial or manufacturing" IF B1 [Primary activity] = Agricultural = "agricultural" IF B1 [Primary activity] = Vacant = "vacant" IF B1 [Primary activity] = Other = "the main activity"	
QUESTION TEXT – interviewer-administered		
Show Card	SHOW CARD B1	
Question Text	Looking again at Show Card B1, which one or two activities account for the next largest amount of space in this building, after {Activity}? There may be other activities in the building, but just report up to two more.	
Interviewer Instructions	N/A	
QUESTION TEXT – web		
Question Text	Which one or two activities account for the next largest amount of space in this building, after {Activity}? There may be other activities in the building, but just report up to two more.	
Respondent Instructions	N/A	
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date	

RESPONSE OPTIONS	
<i>Enumerated</i>	
Response options	Tooltip text
11. Office/Professional	See B1 [Primary activity]
12. Data center	
13. Warehouse/Storage	
14. Food sales or service	
15. Enclosed mall	
16. Retail (other than mall)	
17. Education	
18. Religious worship	
19. Public assembly	
20. Health care	
21. Service	
22. Lodging	
23. Public order and safety	
24. Residential	
25. Industrial/Manufacturing	
26. Agricultural	
27. Vacant	
28. Other	
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank
NEXT	IF Answered → B4 [Percents for activities] IF Missing → IF B1 [Primary activity] = Office/Professional → B5 [Office type] IF B1 [Primary activity] = Data center → B6 [Verify data center] IF B1 [Primary activity] = Warehouse/Storage → B9 [Warehouse type] IF B1 [Primary activity] = Food sales or service → B10 [Food sales or service type] IF B1 [Primary activity] = Enclosed mall → B32 [Assign CBECS Activity = Enclosed mall] IF B1 [Primary activity] = Retail → B11 [Retail type] IF B1 [Primary activity] = Education → B12 [Education type] IF B1 [Primary activity] = Religious worship → B32 [Assign CBECS Activity = Religious worship] IF B1 [Primary activity] = Public assembly → B13 [Assembly type] IF B1 [Primary activity] = Health care → B14 [Health care type] IF B1 [Primary activity] = Service → B15 [Service type] IF B1 [Primary activity] = Lodging → B19 [Lodging type] IF B1 [Primary activity] = Public order and safety → B20 [Public order type] IF B1 [Primary activity] = Residential → B21 [Residential type] IF B1 [Primary activity] = Industrial/Manufacturing → B8 [Used as warehouse] IF B1 [Primary activity] = Agricultural → B23 [Space for retail sales] IF B1 [Primary activity] = Vacant → B24 [Vacant for noncommercial] IF B1 [Primary activity] = Other → B26 [Other type]

B4	Percents for activities {ActPcts}	ACT1PCT, ACT2PCT, ACT3PCT		
ASK	IF B2 [One activity in building] = No; Ask for ACT1, ACT2, and ACT3			
FILL	{ActivityLabel} IF Office/Professional = "Office" IF Data center = "Data center" IF Warehouse/Storage = "Warehouse" IF Food sales or service = "Food sales or service" IF Enclosed mall = "Enclosed mall" IF Retail = "Retail" IF Education = "Education" IF Religious worship = "Religious worship" IF Public assembly = "Public assembly" IF Health care = "Health care" IF Service = "Service" IF Lodging = "Lodging" IF Public order and safety = "Public order and safety" IF Residential = "Residential" IF Industrial/Manufacturing = "Industrial or manufacturing" IF Agricultural = "Agricultural" IF Vacant = "Vacant" IF Other = "The other activity"			
DISPLAY	ACT1PCT, ACT2PCT, and ACT3PCT are all on the same screen			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	About what percentage of the total space is... {ActivityLabel}? (For ACT1) {ActivityLabel}? (For ACT2) {ActivityLabel}? (For ACT3)			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
1 to 100	%	1 to 100		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			

ERROR MESSAGE	IF The percents add to more than 100, error box is displayed: "The percents you entered add up to more than 100. Please revise one or more of the percents so they sum to 100 or less."
NEXT	<p>IF There is an activity with a maximum percent, assign that as the primary activity</p> <p>IF There are equal maximum percents (e.g. 50% and 50%), or if they are all missing, assign the primary activity as the most energy-intensive one (based on 2012 CBECS data, in this order:</p> <p><i>Data center, Food sales or service, Health care, Other, Lodging, Public order and safety, Public assembly, Office/Professional, Education, Enclosed mall, Retail, Service, Religious worship, Warehouse/Storage, Vacant).</i></p> <p>THEN, follow here based on the assigned primary activity:</p> <p>IF Office/Professional → B5 [Office type] IF Data center → B6 [Verify data center] IF Warehouse/Storage → B9 [Warehouse type] IF Food sales or service → B10 [Food sales or service type] IF Enclosed mall → B32 [Assign CBECS Activity = Enclosed mall] IF Retail → B11 [Retail type] IF Education → B12 [Education type] IF Religious worship → B32 [Assign CBECS Activity = Religious worship] IF Public assembly → B13 [Assembly type] IF Health care → B14 [Health care type] IF Service → B15 [Service type] IF Lodging → B19 [Lodging type] IF Public order and safety → B20 [Public order type] IF Residential → B21 [Residential type] IF Industrial/Manufacturing → B8 [Used as warehouse] IF Agricultural → B23 [Space for retail sales] IF Vacant → B24 [Vacant for noncommercial] IF Other → B26 [Other type]</p>

B5	Office type {OfficeSpec}	OFFCSP		
ASK	IF B1 [Primary activity] OR B4 [Percents for activities] assigned activity = Office/Professional			
FILL	{ActivityExplanation} IF (B2 [One activity in building] ≠ Yes) = "For the purposes of this survey, this building will be included in the general category of office." OTHERWISE = BLANK			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD B2			
Question Text	{ActivityExplanation} Looking at the list on Show Card B2, what type of office is this?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	{Activity Explanation} What type of office is this?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
Enumerated				
Response options	Image	SAS Name		
1. Administrative or professional office building (Examples: consulting, insurance, law, utility/telephone company, publishing, or college administration)				
2. Government office				
3. Mixed-use office				
4. Bank or other financial institution				
5. Doctor's or dentist's office				
6. Sales or leasing office (Examples: vehicles or real estate)				
7. Contractor's office (Examples: construction, plumbing, or HVAC)				
8. Non-profit or social services office				
9. Research and development office				
10. City hall or city center				
11. Religious office				
12. Call center				
13. Courthouse or probation office				
14. Veterinarian's office				
15. Vacant				
16. Other type of office				

NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank
NEXT	<p>IF Administrative or professional office building; Government office; Mixed-use office; Bank or other financial institution; Doctor's or dentist's office; Sales office; Contractor's office; Non-profit or social services office; Research and development office; City hall or city center; Religious office; Call center; OR Missing → B32 [Assign CBECS Activity = Office]</p> <p>IF Courthouse or probation office → B32 [Assign CBECS Activity = Public order and safety]</p> <p>IF Veterinarian's office → B32 [Assign CBECS Activity = Outpatient health]</p> <p>IF Vacant:</p> <p> IF More than one activity → B32 [Assign CBECS Activity = Vacant]</p> <p> IF Only one activity → B25 [Completely vacant]</p> <p> IF Other type of office → B27 [Specify other activity]</p>

B6	Verify data center {DataSpec}	VERDAT		
ASK	IF B1 [Primary activity] OR B4 [Percents for activities] assigned activity = Data center			
FILL	{ActivityExplanation} IF (B2 [One activity in building] ≠ Yes) = "For the purposes of this survey, this building will be included in the general category of data center." OTHERWISE = BLANK			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	{ActivityExplanation} A data center is a group of networked computer servers that are housed in one location, usually a secure area. The servers perform functions such as data storage and processing. There are usually many servers stacked in rows of racks and they operate continuously, day and night. Data centers are generally kept very cool and require a dedicated uninterruptible power supply. Does this accurately describe this building?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Yes				
2. No				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Yes ➔ B32 [Assign CBECS Activity = Data center] IF No OR Missing ➔ B7 [Classify as office]			

B7	Classify as office {DataSpecRecode}	<i>NODCTR</i>
ASK	IF B6 [Verify data center] = No OR Missing	
DISPLAY	Shown on same screen as B6	
QUESTION TEXT – interviewer-administered		
Show Card	N/A	
Question Text	Then, for the purposes of this study, this building will be classified as an office.	
Interviewer Instructions	Enter “Next” to continue.	
QUESTION TEXT – web		
Question Text	No changes required	
Respondent Instructions	No changes required	
ITEM TYPE	No space for answer, just Next button.	
NONRESPONSE	N/A	
NEXT	→ B32 [Assign CBECS Activity = Office]	

B8	Used as warehouse {Warecheck}			WARECHK				
ASK	IF B1 [Primary activity] OR B4 [Percents for activities] assigned activity = Industrial/Manufacturing							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Is this building used primarily as a warehouse or distribution center?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Yes → B9 [Warehouse type] OTHERWISE → B22 [Space for retail sales]							

B9	Warehouse type {WareSpec}	WARESP		
ASK	IF B1 [Primary activity] OR B4 [Percents for activities] assigned activity = Warehouse/Storage			
FILL	{ActivityExplanation} IF (B2 [One activity in building] ≠ Yes) = "For the purposes of this survey, this building will be included in the general category of warehouse." OTHERWISE = BLANK			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD B3			
Question Text	{ActivityExplanation} Looking at the list on Show Card B3, what type of warehouse is this?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	{Activity Explanation} What type of warehouse is this?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
Enumerated				
Response options	Image	SAS Name		
1. Non-refrigerated warehouse				
2. Refrigerated warehouse				
3. Distribution or shipping center				
4. Public rental storage units				
5. Vehicle storage and/or maintenance (car barn)				
6. Other storage building				
7. Airplane hangar				
8. Vacant				
9. Other type of warehouse				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Non-refrigerated warehouse; Distribution or shipping center; Public rental storage units; Other storage building; OR Missing → B32 [Assign CBECS Activity = Nonrefrigerated warehouse] IF Refrigerated warehouse → B32 [Assign CBECS Activity = Refrigerated warehouse] IF Vehicle storage and/or maintenance → B32 [Assign CBECS Activity = Service] IF Airplane hangar → B32 [Assign CBECS Activity = Other] IF Vacant: IF More than one activity → B32 [Assign CBECS Activity = Vacant] IF Only one activity → B25 [Completely vacant] IF Other type of warehouse → B27 [Specify other activity]			

B10	Food sales or service type {FoodSpec}	FOODSP		
ASK	IF B1 [Primary activity] OR B4 [Percents for activities] assigned activity = Food sales or service			
FILL	{ActivityExplanation} IF (B2 [One activity in building] ≠ Yes) = "For the purposes of this survey, this building will be included in the general category of food sales or service." OTHERWISE = BLANK			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD B4			
Question Text	{ActivityExplanation} Looking at the list on Show Card B4, what type of food sales or service building is this?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	{Activity Explanation} What type of food sales or service building is this?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Restaurant or cafeteria				
2. Fast food				
3. Bar, pub, or lounge				
4. Grocery store, supermarket, or specialty food market				
5. Gas station with a convenience store				
6. Convenience store				
7. Beer, wine, or liquor store				
8. Reception hall				
9. Catering service				
10. Coffee, doughnut, or bagel shop				
11. Ice cream or frozen yogurt shop				
12. Bakery				
13. Vacant				
14. Other type of food sales or service				

NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank
NEXT	<p>IF Restaurant or cafeteria; Fast food; Bar, pub, or lounge; Reception hall; Catering service; Coffee, doughnut, or bagel shop; OR Ice cream or frozen yogurt shop → B32 [Assign CBECS Activity = Food service]</p> <p>IF Grocery store, supermarket, or specialty food market; Gas station with a convenience store; Convenience store; Bakery; OR Missing → B32 [Assign CBECS Activity = Food sales]</p> <p>IF Beer, wine, or liquor store → B32 [Assign CBECS Activity = Retail]</p> <p>IF Vacant:</p> <p> IF More than one activity → B32 [Assign CBECS Activity = Vacant]</p> <p> IF Only one activity → B25 [Completely vacant]</p> <p>IF Other type of food sales or service → B27 [Specify other activity]</p>

B11	Retail type {RetailSpec}	RETLSP		
ASK	IF B1 [Primary activity] OR B4 [Percents for activities] assigned activity = Retail			
FILL	{ActivityExplanation} IF (B2 [One activity in building] ≠ Yes) = "For the purposes of this survey, this building will be included in the general category of retail." OTHERWISE = BLANK			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD B5			
Question Text	{ActivityExplanation} Looking at the list on Show Card B5, what type of retail building is this?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	{Activity Explanation} What type of retail building is this?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Retail store (Examples: big-box chain store, department store, furniture, clothing, hardware, drugstore, bookstore, building supplies, auto parts, lumber, home improvement, farm equipment, lawn and garden, floral, crafts, gifts, antiques, pawn shop, or wholesale club)				
2. Bank or other financial institution				
3. Convenience store				
4. Beer, wine, or liquor store				
5. Rental center (Examples: equipment, furnishings, or movies)				
6. Dealership or showroom for vehicles or boats				
7. Auto service or auto repair shop				
8. Studio or gallery				
9. Grocery store, supermarket, or specialty food market				
10. Salon, spa, or barber shop				
11. Copy center or printing shop				
12. Distribution or shipping center				
13. Gas station with a convenience store				
14. Gas station				
15. Post office, postal center, or mail sorting				
16. Recreation (Examples: gymnasium, health club, bowling alley, ice rink, field house, or indoor racquet sports)				

17. Repair shop		
18. Vacant		
19. Other type of retail		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF X Missing Item Prompt Box <input type="checkbox"/> Allow Blank	
NEXT	<p>IF Gas station → B17 [Gas station building use]</p> <p>IF Retail store; Beer, wine, or liquor store; Rental center; Dealership or showroom; Studio or gallery; OR Missing → B32 [Assign CBECS Activity = Retail]</p> <p>IF Bank or other financial institution → B32 [Assign CBECS Activity = Office]</p> <p>IF Convenience store; Grocery store, supermarket, or specialty food market; OR Gas station with a convenience store → B32 [Assign CBECS Activity = Food sales]</p> <p>IF Auto service or auto repair shop; Salon, spa, or barber shop; Copy center or printing shop; Post office, postal center, or mail sorting; OR Repair shop → B32 [Assign CBECS Activity = Service]</p> <p>IF Distribution or shipping center → B32 [Assign CBECS Activity = Nonrefrigerated warehouse]</p> <p>IF Recreation → B32 [Assign CBECS Activity = Public assembly]</p> <p>IF Vacant:</p> <ul style="list-style-type: none"> IF More than one activity → B32 [Assign CBECS Activity = Vacant] IF Only one activity → B25 [Completely vacant] IF Other type of retail → B27 [Specify other activity] 	

B12	Education type {EducSp}	<i>EDUCSP</i>		
ASK	IF B1 [Primary activity] OR B4 [Percents for activities] assigned activity = Education			
FILL	{ActivityExplanation} IF (B2 [One activity in building] ≠ Yes) = "For the purposes of this survey, this building will be included in the general category of education." OTHERWISE = BLANK			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD B6			
Question Text	{ActivityExplanation} Looking at the list on Show Card B6, what type of education building is this?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	{Activity Explanation} What type of education building is this?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
Enumerated				
Response options	Image	SAS Name		
1. Elementary school				
2. Middle or junior high school				
3. High school				
4. Other multi-grade primary or secondary school (any combination pre-K through 12)				
5. College or university				
6. Preschool or daycare				
7. Adult education				
8. Career or vocational training				
9. Religious education				
10. Library				
11. Recreation (Examples: gymnasium, health club, bowling alley, ice rink, field house, or indoor racquet sports)				
12. Entertainment or culture (Examples: museum, theater, cinema, sports arena, stadium, casino, or night club)				
13. Laboratory				
14. Vacant				
15. Other type of classroom education				

NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank
NEXT	<p>IF Elementary school; Middle or junior high school; High school; Other multi-grade primary or secondary school; College or university; Preschool or daycare; Adult education; Career or vocational training; Religious education; OR Missing → B32 [Assign CBECS Activity = Education]</p> <p>IF Library; Recreation; OR Entertainment or culture → B32 [Assign CBECS Activity = Public assembly]</p> <p>IF Laboratory → B32 [Assign CBECS Activity = Laboratory]</p> <p>IF Vacant:</p> <p>IF More than one activity → B32 [Assign CBECS Activity = Vacant]</p> <p>IF Only one activity → B25 [Completely vacant]</p> <p>IF Other type of classroom education → B27 [Specify other activity]</p>

B13	Assembly type {AssemblySpec}	ASSMSP		
ASK	IF B1 [Primary activity] OR B4 [Percents for activities] assigned activity = Public assembly			
FILL	{ActivityExplanation} IF (B2 [One activity in building] ≠ Yes) = "For the purposes of this survey, this building will be included in the general category of public assembly." OTHERWISE = BLANK			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD B7			
Question Text	{ActivityExplanation} Looking at the list on Show Card B7, what type of public assembly building is this?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	{Activity Explanation} What type of public assembly building is this?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
Enumerated				
Response options	Image	SAS Name		
1. Social or meeting (Examples: community center, lodge, meeting hall, convention center, event space, or senior center)				
2. Recreation (Examples: gymnasium, health club, bowling alley, ice rink, field house, or indoor racquet sports)				
3. Entertainment or culture (Examples: museum, theater, cinema, sports arena, stadium, casino, or night club)				
4. Library				
5. Religious worship				
6. Funeral home				
7. Student activities center				
8. Armory				
9. Exhibition hall				
10. Transportation terminal (Examples: airport terminal, bus station, or train station)				
11. Bar, pub, or lounge				
12. Vacant				
13. Other type of public assembly				

NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank
NEXT	IF Social or meeting; Recreation; Entertainment or culture; Library; Funeral home; Student activities center; Armory; Exhibition hall; Transportation terminal; OR Missing → B32 [Assign CBECS Activity = Public assembly] IF Religious worship → B32 [Assign CBECS Activity = Religious worship] IF Bar, pub, or lounge → B32 [Assign CBECS Activity = Food service] IF Vacant: IF More than one activity → B32 [Assign CBECS Activity = Vacant] IF Only one activity → B25 [Completely vacant] IF Other type of public assembly → B27 [Specify other activity]

B14	Health care type {HealthSpec}	<i>HLTHSP</i>		
ASK	IF B1 [Primary activity] OR B4 [Percents for activities] assigned activity = Health care			
FILL	{ActivityExplanation} IF (B2 [One activity in building] ≠ Yes) = "For the purposes of this survey, this building will be included in the general category of health care." OTHERWISE = BLANK			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD B8			
Question Text	{ActivityExplanation} Looking at the list on Show Card B8, what type of health care building is this?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	{Activity Explanation} What type of health care building is this?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
Enumerated				
Response options	Image	SAS Name		
1. Doctor's or dentist's office				
2. Clinic or other outpatient health care building				
3. Hospital (inpatient)				
4. Outpatient rehabilitation center				
5. Inpatient rehabilitation center				
6. Nursing home, assisted living center, or other residential care building				
7. Retirement home				
8. Veterinarian's office				
9. Laboratory				
10. Vacant				
11. Other type of health care				

NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank
NEXT	<p>IF Clinic or other outpatient health care building; Outpatient rehabilitation center; Veterinarian's office; OR Missing ➔ B32 [Assign CBECS Activity = Outpatient health care]</p> <p>IF Hospital (inpatient); OR Inpatient rehabilitation ➔ B32 [Assign CBECS Activity = Inpatient health care]</p> <p>IF Doctor's or dentist's office ➔ B32 [Assign CBECS Activity = Office]</p> <p>IF Nursing home, assisted living center, or other residential care building ➔ B32 [Assign CBECS Activity = Nursing]</p> <p>IF Retirement home ➔ B32 [Assign CBECS Activity = Lodging]</p> <p>IF Laboratory ➔ B32 [Assign CBECS Activity = Laboratory]</p> <p>IF Vacant:</p> <ul style="list-style-type: none"> IF More than one activity ➔ B32 [Assign CBECS Activity = Vacant] IF Only one activity ➔ B25 [Completely vacant] IF Other type of health care ➔ B27 [Specify other activity]

B15	Service type {ServiceSpec}	SERVSP
ASK	IF B1 [Primary activity] OR B4 [Percents for activities] assigned activity = Service	
FILL	{ActivityExplanation} IF (B2 [One activity in building] ≠ Yes) = "For the purposes of this survey, this building will be included in the general category of service." OTHERWISE = BLANK	
QUESTION TEXT – interviewer-administered		
Show Card	SHOW CARD B9	
Question Text	{ActivityExplanation} Looking at the list on Show Card B9, what type of service building is this?	
Interviewer Instructions	N/A	
QUESTION TEXT – web		
Question Text	{Activity Explanation} What type of service building is this?	
Respondent Instructions	N/A	
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date	
RESPONSE OPTIONS		
Enumerated		
Response options	Image	SAS Name
1. Auto service or auto repair shop		
2. Vehicle storage and/or maintenance (car barn)		
3. Airplane hangar		
4. Car wash		
5. Gas station with a convenience store		
6. Gas station		
7. Building and grounds maintenance shop		
8. Contractor's office (Examples: construction, plumbing, or HVAC)		
9. Kennel		
10. Repair shop		
11. Dry cleaner or laundromat		
12. Copy center or printing shop		
13. Post office, postal center, or mail sorting		
14. Distribution or shipping center		
15. Bank or other financial institution		
16. Salon, spa, or barber shop		
17. Bar, pub, or lounge		
18. Transportation terminal (Examples: airport terminal, bus station, or train station)		

19. Recreation <i>(Examples: gymnasium, health club, bowling alley, ice rink, field house, or indoor racquet sports)</i>		
20. Social or meeting <i>(Examples: community center, lodge, meeting hall, convention center, event space, or senior center)</i>		
21. Student activities center		
22. Library		
23. Non-profit or social services office		
24. Funeral home		
25. Rental center <i>(Examples: equipment, furnishings, or movies)</i>		
26. Vacant		
27. Other type of service		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank	
NEXT	IF Dry cleaner or laundromat → B16 [Dry cleaning onsite] IF Gas station → B17 [Gas station building use] IF Auto service or auto repair shop; Building and grounds maintenance shop; Vehicle storage and/or maintenance; Repair shop; Post office, postal center, or mail sorting; Car wash; Spa, salon, or barber shop; Copy center or printing shop; Kennel; OR Missing → B32 [Assign CBECS Activity = Service] IF Contractor's office; Bank or other financial institution; OR Non-profit or social services office → B32 [Assign CBECS Activity = Office] IF Bar, pub, or lounge → B32 [Assign CBECS Activity = Food service] IF Gas station with a convenience store → B32 [Assign CBECS Activity = Food sales] IF Airplane hangar → B32 [Assign CBECS Activity = Other] IF Distribution or shipping center → B32 [Assign CBECS Activity = Nonrefrigerated warehouse] IF Funeral home; Library; Recreation; Social or meeting; Student activities center; OR Transportation terminal → B32 [Assign CBECS Activity = Public assembly] IF Rental center → B32 [Assign CBECS Activity = Retail] IF Vacant: IF More than one activity → B32 [Assign CBECS Activity = Vacant] IF Only one activity → B25 [Completely vacant] IF Other type of service → B27 [Specify other activity]	

B16	Dry cleaning onsite {DryCleaningOnsite}			<i>DRYCL</i>			
ASK	IF B15 [Service type] = Dry cleaner or laundromat						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	Is the dry cleaning or laundry done in this building, or is it done off-site?						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options		Image	SAS Name				
1. In this building							
2. Off-site							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	→ B32 [Assign CBECS Activity = Service]						

B17	Gas station building use {GasBldg}	GASBLDG		
ASK	IF B11 [Retail type] = Gas station OR B15 [Service type] = Gas station			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Which activity accounts for most of the space in the <u>building</u> that is associated with this gas station: convenience store, auto service, car wash, or something else?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	Which activity accounts for most of the space in the <u>building</u> that is associated with this gas station?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Convenience store				
2. Auto service				
3. Car wash				
4. Something else				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Something else ➔ B18 [Other gas station bldg use] IF Convenience store ➔ B32 [Assign CBECS Activity = Food sales] OTHERWISE ➔ B32 [Assign CBECS Activity = Service]			

B18	Other gas station bldg use {OtGasBldg}			OTGASBLDX			
ASK	IF B17 [Gas station building use] = Something else						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	N/A – other specify box – see watermark						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>String Text</i>							
<i>Watermark</i>							
Briefly describe the other activity associated with this gas station							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank						
NEXT	→ B32 [Assign CBECS Activity = Service]						

B19	Lodging type {LodgeSpec}	<i>LODGSP</i>		
ASK	IF B1 [Primary activity] OR B4 [Percents for activities] assigned activity = Lodging			
FILL	{ActivityExplanation} IF (B2 [One activity in building] ≠ Yes) = "For the purposes of this survey, this building will be included in the general category of lodging." OTHERWISE = BLANK			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD B10			
Question Text	{ActivityExplanation} Looking at the list on Show Card B10, what type of lodging building is this?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	{Activity Explanation} What type of lodging building is this?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Hotel or resort				
2. Motel, inn, or bed and breakfast				
3. Dormitory, fraternity, or sorority				
4. Retirement home				
5. Nursing home, assisted living center, or other residential care building				
6. Convent or monastery				
7. Shelter, group home, or children's home				
8. Halfway house				
9. Jail, reformatory, or penitentiary				
10. Vacant				
11. Other type of lodging				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Hotel or resort; Motel, inn, or bed and breakfast; Dormitory, fraternity, or sorority; Retirement home; Convent or monastery; Shelter, group home, or children's home; Halfway house; OR Missing → B32 [Assign CBECS Activity = Lodging] IF Nursing home, assisted living center, or other residential care building → B32 [Assign CBECS Activity = Nursing] IF Jail, reformatory, or penitentiary → B32 [Assign CBECS Activity = Public order and safety] IF Vacant: IF More than one activity → B32 [Assign CBECS Activity = Vacant] IF Only one activity → B25 [Completely vacant] IF Other type of lodging → B27 [Specify other activity]			

B20	Public order type {OrderSpec}	ORDRSP		
ASK	IF B1 [Primary activity] OR B4 [Percents for activities] assigned activity = Public order and safety			
FILL	{ActivityExplanation} IF (B2 [One activity in building] ≠ Yes) = "For the purposes of this survey, this building will be included in the general category of public order and safety." OTHERWISE = BLANK			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD B11			
Question Text	{ActivityExplanation} Looking at the list on Show Card B11, what type of public order and safety building is this?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	{Activity Explanation} What type of public order and safety building is this?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
Enumerated				
Response options	Image	SAS Name		
1. Police station				
2. Fire station				
3. Combination police and fire station				
4. Jail, reformatory, or penitentiary				
5. Courthouse or probation office				
6. Halfway house				
7. Armory				
8. City hall or city center				
9. Vacant				
10. Other type of public order and safety				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Police station; Fire station; Combination police and fire station; Jail, reformatory, or penitentiary; Courthouse or probation office; OR Missing → B32 [Assign CBECS Activity = Public order and safety] IF Halfway house → B32 [Assign CBECS Activity = Lodging] IF Armory → B32 [Assign CBECS Activity = Public assembly] IF City hall or city center → B32 [Assign CBECS Activity = Office] IF Vacant: IF More than one activity → B32 [Assign CBECS Activity = Vacant] IF Only one activity → B25 [Completely vacant] IF Other type of public order and safety → B27 [Specify other activity]			

B21	Residential type {ResidSpec}	<i>RESDSP</i>		
ASK	IF B1 [Primary activity] OR B4 [Percents for activities] assigned activity = Residential			
FILL	{ActivityExplanation} IF (B2 [One activity in building] ≠ Yes) = "For the purposes of this survey, this building will be included in the general category of residential." OTHERWISE = BLANK			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD B12			
Question Text	{ActivityExplanation} Looking at the list on Show Card B12, what type of residential building is this?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	{Activity Explanation} What type of residential building is this?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Hotel or resort				
2. Motel, inn, or bed and breakfast				
3. Dormitory, fraternity, or sorority				
4. Retirement home				
5. Nursing home, assisted living center, or other residential care building				
6. Convent or monastery				
7. Shelter, group home, or children's home				
8. Halfway house				
9. Jail, reformatory, or penitentiary				
10. Other type of residential				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Hotel or resort; Motel, inn, or bed and breakfast; Dormitory, fraternity, or sorority; Retirement home; Convent or monastery; Shelter, group home, or children's home; Halfway house; OR Missing → B32 [Assign CBECS Activity = Lodging] IF Nursing home, assisted living center, or other residential care building → B32 [Assign CBECS Activity = Nursing] IF Jail, reformatory, or penitentiary → B32 [Assign CBECS Activity = Public order and safety] IF Other type of residential → B28 [End of interview]			

B22	Space for retail sales {IndusCheck}	<i>INDRET</i>		
ASK	IF (B1 [Primary activity] OR B4 [Percents for activities] assigned activity = Industrial/Manufacturing) & B8 [Used as warehouse] = No OR Missing			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Is any of the space in this building used for retail sales of the products that are made here?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Yes				
2. No				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Yes → B32 [Assign CBECS Activity = Other] IF No OR Missing → B29 [End of interview]			

B23	Space for retail sales {AgricCheck}			AGRRET			
ASK	IF B1 [Primary activity] OR B4 [Percents for activities] assigned activity = Agricultural						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	Is any of the space in this building used for retail sales of the products that are grown here?						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options		Image	SAS Name				
1. Yes							
2. No							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	IF Yes → B32 [Assign CBECS Activity = Other] IF No OR Missing → B29 [End of interview]						

B24	Vacant for noncommercial {VacantUse}			VACUSE				
ASK	IF B1 [Primary activity] OR B4 [Percents for activities] assigned activity = Vacant							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Was the vacant space used for or intended to be used for either agricultural, industrial, manufacturing, or residential purposes or as a parking garage?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Yes → B31 [End of interview] IF No OR Missing: IF B2 [One activity in building] ≠ Yes → B32 [Assign CBECS Activity = Vacant] OTHERWISE → B25 [Completely vacant]							

B25	Completely vacant {AllVacant}			VACANT				
ASK	IF B2 [One activity in building] = Yes & B1 [Primary activity] = Vacant							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Is this building <u>completely</u> vacant?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	→ B32 [Assign CBECS Activity = Vacant]							

B26	Other type {OtherSpec}	OTHRSP		
ASK	IF B1 [Primary activity] OR B4 [Percents for activities] assigned activity = Other			
FILL	{ActivityExplanation} IF (B2 [One activity in building] ≠ Yes) = "For the purposes of this survey, this building will be included in the general category of other types of buildings." OTHERWISE = BLANK			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD B13			
Question Text	{ActivityExplanation} Looking at the list on Show Card B13, which of these activities best describes this building?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	{Activity Explanation} Which of these activities best describes this building?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Laboratory				
2. Airplane hangar				
3. Broadcasting studio				
4. Telephone switching facilities				
5. Funeral home				
6. Crematorium				
7. Vehicle storage and/or maintenance (car barn)				
8. Public restroom, locker room, or changing area				
9. Indoor parking garage				
10. Dry cleaner or laundromat				
11. Library				
12. Post office, postal center, or mail sorting				
13. Distribution or shipping center				
14. Social or meeting <i>(Examples: community center, lodge, meeting hall, convention center, event space, or senior center)</i>				
15. Entertainment or culture <i>(Examples: museum, theater, cinema, sports arena, stadium, casino, or night club)</i>				
16. Recreation <i>(Examples: gymnasium, health club, bowling alley, ice rink, field house, or indoor racquet sports)</i>				
17. Transportation terminal <i>(Examples: airport terminal, bus station, or train station)</i>				
18. Veterinarian's office				

19. Vacant		
20. Agricultural building with some retail space		
21. Manufacturing or industrial building with some retail space		
22. Some other activity		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank	
NEXT	IF Laboratory ➔ B32 [Assign CBECS Activity = Laboratory] IF Airplane hangar; Broadcasting studio; Telephone switching facilities; Crematorium; Public restroom, locker room, or changing area; Agricultural building with some retail space; Manufacturing or industrial building with some retail space; OR Missing ➔ B32 [Assign CBECS Activity = Other] IF Funeral home; Library; Social or meeting; Entertainment or culture; Recreation; OR Transportation terminal ➔ B32 [Assign CBECS Activity = Public assembly] IF Vehicle storage and/or maintenance; OR Post office, postal center, or mail sorting ➔ B32 [Assign CBECS Activity = Service] IF Indoor parking garage: IF B2 [One activity in building] = Yes ➔ B30 [End of interview] IF B2 [One activity in building] ≠ Yes ➔ B32 [Assign CBECS Activity = Other] IF Dry cleaner or laundromat ➔ B16 [Dry cleaning onsite] IF Distribution or shipping center ➔ B32 [Assign CBECS Activity = Nonrefrigerated warehouse] IF Veterinarian's office ➔ B32 [Assign CBECS Activity = Outpatient health care] IF Vacant: IF More than one activity ➔ B32 [Assign CBECS Activity = Vacant] IF Only one activity ➔ B25 [Completely vacant] IF Other type of building ➔ B27 [Specify other activity]	

B27	Specify other activity {ActSpecify}	PBASPX		
ASK	IF B5 [Office type] = Other type of office OR IF B9 [Warehouse type] = Other type of warehouse OR IF B10 [Food sales or service type] = Other type of food sales or service OR IF B11 [Retail type] = Other type of retail OR IF B12 [Education type] = Other type of classroom education OR IF B13 [Assembly type] = Other type of public assembly OR IF B14 [Health care type] = Other type of health care OR IF B15 [Service type] = Other type of service OR IF B19 [Lodging type] = Other type of lodging OR IF B20 [Public order type] = Other type of public order and safety OR IF B26 [Other type] = Other type of building			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Please describe this other type of activity.			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>String Text</i>				
<i>Watermark</i>				
None				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Previous question was: B5 [Office type] → B32 [Assign CBECS Activity = Office] B9 [Warehouse type] → B32 [Assign CBECS Activity = Nonrefrigerated warehouse] B10 [Food sales or service type] → B32 [Assign CBECS Activity = Food service] B11 [Retail type] → B32 [Assign CBECS Activity = Retail] B12 [Education type] → B32 [Assign CBECS Activity = Education] B13 [Assembly type] → B32 [Assign CBECS Activity = Public assembly] B14 [Health care type] → B32 [Assign CBECS Activity = Outpatient health care] B15 [Service type] → B32 [Assign CBECS Activity = Service] B19 [Lodging type] → B32 [Assign CBECS Activity = Lodging] B20 [Public order type] → B32 [Assign CBECS Activity = Public order and safety] B26 [Other type] → B32 [Assign CBECS Activity = Other]			

B28	End of interview {TerminateResid}
ASK	IF B21 [Residential type] = Other type of residential
QUESTION TEXT – interviewer-administered	
Show Card	N/A
Question Text	Thank you for your time and help. This completes your interview since this study does not include buildings that are primarily residential.
Interviewer Instructions	If this is incorrect, and the primary activity of the building is something else, please select the “Back” button to change the previous answer. Otherwise, please select the “Next” button to finish the interview.
QUESTION TEXT – web	
Question Text	No changes required
Respondent Instructions	No changes required
ITEM TYPE	No space for answer, just Next button.
NONRESPONSE	N/A
NEXT	TERMINATE

B29	End of interview {TerminateAgrInd}
ASK	IF B22 [Space for retail sales] = No OR Missing OR B23 [Space for retail sales] = No OR Missing
QUESTION TEXT – interviewer-administered	
Show Card	N/A
Question Text	Thank you for your time and help. This completes your interview since this study does not include buildings that are primarily industrial or agricultural.
Interviewer Instructions	If this is incorrect, and the primary activity of the building is something else, please select the “Back” button to change the previous answer. Otherwise, please select the “Next” button to finish the interview.
QUESTION TEXT – web	
Question Text	No changes required
Respondent Instructions	No changes required
ITEM TYPE	No space for answer, just Next button.
NONRESPONSE	N/A
NEXT	TERMINATE

B30	End of interview {TerminateParking}
ASK	IF B26 [Other type] = Indoor parking garage
QUESTION TEXT – interviewer-administered	
Show Card	N/A
Question Text	Thank you for your time and help. This completes your interview since this study does not include parking garages.
Interviewer Instructions	If this is incorrect, and the primary activity of the building is something else, please select the “Back” button to change the previous answer. Otherwise, please select the “Next” button to finish the interview.
QUESTION TEXT – web	
Question Text	No changes required
Respondent Instructions	No changes required
ITEM TYPE	No space for answer, just Next button.
NONRESPONSE	N/A
NEXT	TERMINATE

B31	End of interview {TerminateVacUse}
ASK	IF B24 [Vacant for noncommercial] = Yes
QUESTION TEXT – interviewer-administered	
Show Card	N/A
Question Text	Thank you for your time and help. This completes your interview since this study only includes buildings intended for commercial use.
Interviewer Instructions	Please select the “Next” button to finish the interview.
QUESTION TEXT – web	
Question Text	No changes required
Respondent Instructions	No changes required
ITEM TYPE	No space for answer, just Next button.
NONRESPONSE	N/A
NEXT	TERMINATE

B32	Assign CBECS Activity {CBECS_Act}		PBA
ASK	IF Building interview		
QUESTION TEXT – interviewer-administered			
Show Card	N/A		
Question Text	N/A – this item assigns CBECS building activity only, no question text for respondents		
Interviewer Instructions	N/A		
QUESTION TEXT – web			
Question Text	N/A		
Respondent Instructions	N/A		
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date		
NONRESPONSE	N/A		
NEXT	1 Vacant → B42 [On a multibuilding complex] 2 Office → B42 [On a multibuilding complex] 3 Data center → B42 [On a multibuilding complex] 4 Laboratory → B42 [On a multibuilding complex] 5 Nonrefrigerated warehouse → B42 [On a multibuilding complex] 6 Food sales → B42 [On a multibuilding complex] 7 Public order and safety → B42 [On a multibuilding complex] 8 Outpatient health care → B42 [On a multibuilding complex] 11 Refrigerated warehouse → B42 [On a multibuilding complex] 12 Religious worship → B33 [Religious worship seating capacity] 13 Public assembly → B34 [Assembly seating capacity] 14 Education → B35 [Number of classroom seats] 15 Food service → B36 [Food service seating capacity] 16 Inpatient health care → B38 [Licensed bed capacity] 17 Nursing → B39 [Licensed bed capacity] 18 Lodging → B40 [Number of guest rooms] 24 Enclosed mall → B41 [Food court] 25 Retail → B42 [On a multibuilding complex] 26 Service → B42 [On a multibuilding complex] 91 Other → B42 [On a multibuilding complex]		

B33	Religious worship seating capacity {ReligSeat}			RWSEAT			
ASK	IF CBECS Activity = Religious worship						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	What is the total seating capacity of the religious worship areas in this building? If you're not sure, please provide your best estimate.						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Numeric</i>							
Watermark	Label	Range					
Enter a number	seats	0 to 99,999					
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	➔ B42 [On a multibuilding complex]						

B34	Assembly seating capacity {AssemSeat}		<i>PBSEAT</i>			
ASK	IF CBECS Activity = Public assembly					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	What is the fixed seating capacity of the public assembly areas in this building? If you're not sure, please provide your best estimate.					
Interviewer Instructions	N/A					
QUESTION TEXT – web						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
Enter a number	seats	0 to 99,999				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	➔ B42 [On a multibuilding complex]					

B35	Number of classroom seats {EducSeat}		<i>EDSEAT</i>			
ASK	IF CBECS Activity = Education					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	How many students can be seated in all of the classrooms in this building at one time? If you're not sure, please provide your best estimate.					
Interviewer Instructions	N/A					
QUESTION TEXT – web						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
Enter a number	classroom seats	0 to 99,999				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	➔ B42 [On a multibuilding complex]					

B36	Food service seating capacity {FoodSeat}			FDSEAT			
ASK	IF CBECS Activity = Food service						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	What is the total seating capacity of the food service areas in this building? If you're not sure, please provide your best estimate.						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Numeric</i>							
Watermark	Label	Range					
Enter a number	seats	0 to 99,999					
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	IF B10 [Food sales or service type = Restaurant, Fast food, Coffee, doughnut, or bagel shop, OR Ice cream or frozen yogurt shop} ➔ B37 [Drive thru] ELSE ➔ B42 [On a multibuilding complex]						

B37	Drive thru {DriveThru}			<i>DRVTHRU</i>				
ASK	IF B10 [Food sales or service type] = Restaurant, Fast food, Coffee, doughnut, or bagel shop, OR Ice cream or frozen yogurt shop							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Does this building have any drive-thru windows?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ B42 [On a multibuilding complex]							

B38	Licensed bed capacity {HospBed}			<i>HCBED</i>			
ASK	IF CBECS Activity = Inpatient health care						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	What is the inpatient licensed bed capacity in this building? If you're not sure, please provide your best estimate.						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Numeric</i>							
Watermark	Label	Range					
Enter a number	beds	0 to 99,999					
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	➔ B42 [On a multibuilding complex]						

B39	Licensed bed capacity {NurseBed}			NRSBED				
ASK	IF CBECS Activity = Nursing							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	What is the skilled or residential care licensed bed capacity in this building? If you're not sure, please provide your best estimate.							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Numeric</i>								
Watermark	Label	Range						
Enter a number	beds	0 to 99,999						
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ B42 [On a multibuilding complex]							

B40	Number of guest rooms {LodgeRoom}			<i>LODGRM</i>			
ASK	IF CBECS Activity = Lodging						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	How many guest rooms or occupant rooms are there in this building? If you're not sure, please provide your best estimate.						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Numeric</i>							
Watermark	Label	Range					
Enter a number	rooms	0 to 99,999					
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	➔ B42 [On a multibuilding complex]						

B41	Food court {FoodCourt}	COURT
ASK	IF CBECS Activity = Enclosed mall	
QUESTION TEXT – interviewer-administered		
Show Card	N/A	
Question Text	Is there a food court in this mall?	
Interviewer Instructions	N/A	
QUESTION TEXT – web		
Question Text	No changes required	
Respondent Instructions	N/A	
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date	
RESPONSE OPTIONS		
<i>Enumerated</i>		
Response options	Image	SAS Name
1. Yes		
2. No		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank	
NEXT	→ B42 [On a multibuilding complex]	

B42	On a multibuilding complex {Facility}			<i>FACIL</i>				
ASK	IF Building or Mall interview							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Is this building part of a multibuilding campus or complex? A campus or complex is a group of two or more buildings on the same site that are owned or operated by a single organization or individual.							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Yes → B43 [Number of buildings on complex] OTHERWISE: IF Building interview → C1 [Government owned] IF Mall interview → C3 [Owner]							

B43	Number of buildings on complex {NumFacBldgs}		FACBLDGs			
ASK	IF B42 [On a multibuilding complex] = Yes					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	How many buildings are part of this multibuilding campus or complex? If you're not sure, please provide your best estimate.					
Interviewer Instructions	N/A					
QUESTION TEXT – web						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
Enter a number	buildings	2 to 500				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	➔ B44 [Multibuilding complex name]					

B44	Multibuilding complex name {FacilityName}			<i>FACNAME</i>				
ASK	IF B42 [On a multibuilding complex] = Yes							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	By what name is this multibuilding campus or complex most commonly referred?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>String Text</i>								
<i>Watermark</i>								
None								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Building interview → B45 [Federal complex] IF Mall interview → B46 [Type of complex]							

B45	Federal complex {FedFacil}			<i>FEDFAC</i>			
ASK	IF Building interview & B42 [On a multibuilding complex] = Yes						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	Is this <u>campus or complex</u> owned by the Federal government?						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options		Image	SAS Name				
1. Yes							
2. No							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	→ B46 [Type of complex]						

B46	Type of complex {FacAct}	FACACT		
ASK	IF B42 [On a multibuilding complex] = Yes			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD B14			
Question Text	Looking at the list on Show Card B14, what is the primary business or function of this group of buildings as a whole?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	What is the primary business or function of this group of buildings as a whole?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. College, university, or junior college				
2. Primary or secondary school [grades K-12]				
3. Other type of school				
4. Office complex				
5. Retail complex				
6. Storage or distribution complex				
7. Religious campus or complex				
8. Hospital or other health care complex				
9. Lodging or resort complex				
10. Post office complex				
11. Prison or correctional facility				
12. Other type of government complex				
13. Industrial complex				
14. Transportation complex such as terminal, depot, or airport				
15. Other type of campus or complex				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Industrial complex → B47 [Manufacturing industrial] IF Mall interview → C3 [Owner] OTHERWISE → B50 [Central physical plant]			

B47	Manufacturing industrial {ManInd}	MANIND		
ASK	IF B46 [Type of complex] = Industrial complex			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Is it a <u>manufacturing</u> industrial complex? Manufacturing industrial complexes involve the production or processing of goods, merchandise, raw materials, or food.			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Yes				
2. No				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Yes → B48 [Same owner as manufacturing] IF Mail interview → C3 [Owner] OTHERWISE → B50 [Central physical plant]			

B48	Same owner as manufacturing {SameOwn}	MANFAC		
ASK	IF B47 [Manufacturing industrial] = Yes			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Does this building have the same owner and operator as the manufacturing campus or complex?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Yes				
2. No				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Yes → B49 [End of interview] IF Mail interview → C3 [Owner] OTHERWISE → B50 [Central physical plant]			

B49	End of interview {TerminateMan}
ASK	IF B48 [Same owner as manufacturing] = Yes
QUESTION TEXT – interviewer-administered	
Show Card	N/A
Question Text	Thank you for your time and help. This completes your interview since this study does not include buildings on manufacturing facilities.
Interviewer Instructions	Please select the “Next” button to finish the interview.
QUESTION TEXT – web	
Question Text	No changes required
Respondent Instructions	No changes required
ITEM TYPE	No space for answer, just Next button.
NONRESPONSE	N/A
NEXT	TERMINATE

B50	Central physical plant {Plant}	<i>PLANT</i>		
ASK	IF Building interview & B42 [On a multibuilding complex] = Yes & NOT B48 [Same owner as manufacturing] = Yes			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Does this campus or complex have a central physical plant that produces and distributes district hot water, district steam, district chilled water, or electricity to more than one building?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Yes				
2. No				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Yes → B51 [Plant produces district steam] OTHERWISE → C1 [Government owned]			

B51	Plant produces district steam {PlantSteam}			FACDST			
ASK	IF B50 [Central physical plant] = Yes						
DISPLAY	B51-B54 are all on the same screen						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	Does the central plant produce... District steam?						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options		Image	SAS Name				
1. Yes							
2. No							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank						
NEXT	→ B52 [Plant produces district hot water]						

B52	Plant produces district hot water {PlantHW}			<i>FACDHW</i>				
ASK	IF B50 [Central physical plant] = Yes							
DISPLAY	B51-B54 are all on the same screen							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	District hot water?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank							
NEXT	➔ B53 [Plant produces district chilled water]							

B53	Plant produces district chilled water {PlantCW}			<i>FACDCW</i>				
ASK	IF B50 [Central physical plant] = Yes							
DISPLAY	B51-B54 are all on the same screen							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	District chilled water?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank							
NEXT	→ B54 [Plant produces electricity]							

B54	Plant produces electricity {PlantElec}			<i>FACELC</i>				
ASK	IF B50 [Central physical plant] = Yes							
DISPLAY	B51-B54 are all on the same screen							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Electricity?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank							
NEXT	→ B55 [Central plant in building]							

B55	Central plant in building {PlantInBldg}			<i>BLDPLT</i>				
ASK	IF B50 [Central physical plant] = Yes							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Is the central physical plant for this campus or complex located in this building or is it in another building?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. In this building								
2. In another building								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ C1 [Government owned]							

B56	Establishment activity {EstabAct}			PEA
ASK	IF Establishment interview			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD B15			
Question Text	Please look at the list of activities on Show Card B15. Which one of these activities accounts for the majority of the floorspace in this establishment?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	Which one of these activities accounts for the majority of the floorspace in this establishment?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
Enumerated				
Response options		Image	SAS Name	
1. Retail store				
2. Food sales <i>(Examples: grocery store, supermarket, convenience store, butcher shop, seafood market, produce market)</i>				
3. Food service/Bar/Night club <i>(Examples: restaurant, fast food, sandwich shop, pizzeria, coffee shop, doughnut or bagel shop, ice cream parlor, bakery, bar, night club)</i>				
4. Dry cleaner/Laundromat				
5. Office/Financial <i>(Examples: bank, credit union, insurance, tax assistance, loans, check cashing, real estate, lawyer, accountant, recruiting)</i>				
6. Medical/Dental				
7. Education/Child care <i>(Examples: tutoring, adult education, art school, preschool, daycare)</i>				
8. Movie theater/Cinema				
9. Salon/Spa/Barber shop				
10. Fitness center/Dance studio <i>(Includes martial arts)</i>				
11. Vacant				
12. Other				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other → B57 [Specify other activity] IF Dry cleaner/Laundromat → B58 [Dry cleaning onsite] OTHERWISE → C21 [Occupied/vacant all 2018]			

B57	Specify other activity {EtabActSpecify}			<i>PEASPX</i>				
ASK	IF B56 [Establishment activity] = Other							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	N/A – other specify box – see watermark							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>String Text</i>								
<i>Watermark</i>								
Briefly describe the other type of activity								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank							
NEXT	➔ C21 [Occupied/vacant all 2018]							

B58	Dry cleaning onsite {EtabDryCleaningOnsite}			<i>DRYCLESTB</i>			
ASK	IF B56 [Establishment activity] = Dry cleaner/Laundromat						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	Is the dry cleaning or laundry done in this establishment, or is it done off-site?						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options		Image	SAS Name				
1. In this establishment							
2. Off-site							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	→ C21 [Occupied/vacant all 2018]						

Section C: Ownership/Occupancy, Operating Hours, and Employment

C1	Government owned {GovOwn}	GOVOWN		
ASK	IF Building interview			
FILL	<p>{BldgIntro} IF B42 [On a multibuilding complex] = Yes = "For the rest of this survey, I will be asking you only about this <u>building</u>, not the entire campus or complex." OTHERWISE = BLANK</p> <p>{SchoolExample} IF B12 [Education type] = Elementary OR Middle or junior high school OR High School OR Other multi-grade primary or secondary school = "such as a local school district" OTHERWISE = BLANK</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	<p>{BldgIntro}</p> <p>Is this building owned by a government agency {SchoolExample}?</p>			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Yes				
2. No				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Yes → C2 [Type of government] IF No OR Missing → C3 [Owner]			

C2	Type of government {GovType}	GOVTYP		
ASK	IF C1 [Government owned] = Yes			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Is it owned by the Federal government, a State government, or a local government?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Federal				
2. State				
3. Local				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF B25 [Completely vacant] = Yes → C10 [Owner operates] OTHERWISE → C5 [Number of businesses]			

C3	Owner {Owner}	OWNER		
ASK	IF Building or Mall interview & NOT C1 [Government owned] = Yes			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD C1			
Question Text	Looking at Show Card C1, please tell me which category best describes the owner of this building.			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	Which category best describes the owner of this building?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Real estate investment trust (REIT)				
2. Other public or private corporation, partnership, LLC, or LLP				
3. Individual owner(s)				
4. Religious organization				
5. Non-profit organization (other than religious or government)				
6. Private academic institution				
7. Other				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other → C4 [Other owner] OTHERWISE: IF NOT B25 [Completely vacant] = Yes → C5 [Number of businesses] IF B25 [Completely vacant] = Yes: IF Owner known → C10 [Owner operates] IF Missing → C18 [Months in use]			

C4	Other owner {OtherOwner}	OTHOWNX
ASK	IF C3 [Owner] = Other	
QUESTION TEXT – interviewer-administered		
Show Card	N/A	
Question Text	N/A – other specify box – see watermark	
Interviewer Instructions	N/A	
QUESTION TEXT – web		
Question Text	No changes required	
Respondent Instructions	N/A	
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date	
RESPONSE OPTIONS		
<i>String Text</i>		
<i>Watermark</i>		
Briefly describe the other owner		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank	
NEXT	IF NOT B25 [Completely vacant] = Yes → C5 [Number of businesses] IF B25 [Completely vacant] = Yes: IF Owner known → C10 [Owner operates] IF Missing → C18 [Months in use]	

C5	Number of businesses {NumOcc}	NOCC
ASK	IF Building or Mall interview & NOT B25 [Completely vacant] = Yes	
FILL	<p>{BldgMall}</p> <p>IF Building interview = "How many different businesses or organizations use space full-time in this building?"</p> <p>IF Mall interview =</p> <p>"How many tenant spaces are there in this building, including vacant spaces?"</p> <p>{ActExplain}</p> <p>IF Residential selected IN B3 [Activities in building] =</p> <p>"Include any residential units in this number."</p> <p>IF B12 [Education type] = Elementary OR Middle or junior high school OR High School OR Other multi-grade primary or secondary school OR</p> <p>CBECS Activity = Religious worship =</p> <p>"Do not include clubs or organizations that use space part-time."</p> <p>IF B9 [Warehouse type] = Public rental storage units =</p> <p>"Do not count each storage unit separately."</p> <p>IF CBECS Activity = Data center = "Do not include businesses that only use server or storage space in the building without having any employees present."</p> <p>OTHERWISE = BLANK</p>	
QUESTION TEXT – interviewer-administered		
Show Card	N/A	
Question Text	{BldgMall} {ActExplain}	
Interviewer Instructions	N/A	
QUESTION TEXT – web		
Question Text	No changes required	
Respondent Instructions	N/A	
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date	
RESPONSE OPTIONS		
<i>Numeric</i>		
Watermark	Label	Range
Enter a number	None	0 to 9,999
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box	
NEXT	<p>IF DK/Missing → C6 [Number of businesses category]</p> <p>IF >1 → C8 [Multi-occupant owner occupies]</p> <p>IF 1 → C7 [Single occupant owner occupies]</p> <p>IF 0 & NOT (C1 [Government owned] = Missing & C3 [Owner] = Missing) → C10 [Owner operates]</p> <p>IF 0 & (C1 [Government owned] = Missing & C3 [Owner] = Missing) → C18 [Months in use]</p>	

C6	Number of businesses category {OccupantsCategory}	NOCCAT		
ASK	IF C5 [Number of businesses] = DK/Missing			
FILL	{BusTen} IF Building interview = "businesses or organizations that use space full-time" IF Mall interview = "tenant spaces" {Zero} IF Building interview = "Zero" IF Mall interview = BLANK			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD C2			
Question Text	Which category on Show Card C2 best describes the number of {BusTen} in this building?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	Which category best describes the number of {BusTen} in this building?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. {Zero}				
2. One				
3. 2 to 5				
4. 6 to 10				
5. 11 to 20				
6. 21 to 50				
7. 51 to 100				
8. More than 100				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Any category except Zero or One → C8 [Multi-occupant owner occupies] IF One → C7 [Single occupant owner occupies] IF Zero OR Missing & NOT (C1 [Government owned] = Missing & C3 [Owner] = Missing) → C10 [Owner operates] IF Zero OR Missing & (C1 [Government owned] = Missing & C3 [Owner] = Missing) → C18 [Months in use]			

C7	Single occupant owner occupies {SingleOccOwnOcc}	SOWNOCC		
ASK	IF C5 [Number of businesses] = 1 OR C6 [Number of businesses category] = One			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Does the owner occupy the building or is it leased to a tenant?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Owner occupies				
2. Leased to tenant				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF C1 [Government owned] = Missing & C3 [Owner] = Missing → C18 [Months in use] OTHERWISE → C10 [Owner operates]			

C8	Multi-occupant owner occupies {MultOccOwnOcc}	MOWNOCC		
ASK	IF C5 [Number of businesses] > 1 OR C6 [Number of businesses category] NOT Zero, One, Missing			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Does the owner occupy any space in this building?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Yes				
2. No				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Building interview → C9 [Number of tenants] IF Mall interview: IF C3 [Owner] = Missing → C18 [Months in use] OTHERWISE → C10 [Owner operates]			

C9	Number of tenants {NumTenants}	NTENANT		
ASK	IF Building interview & (C5 [Number of businesses] > 1 OR C6 [Number of businesses category] NOT Zero, One, Missing)			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	How many tenants lease space in this building? If you're not sure, please provide your best estimate.			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	tenants	0 to 9,999		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF C1 [Government owned] = Missing & C3 [Owner] = Missing → C18 [Months in use] OTHERWISE → C10 [Owner operates]			

C10	Owner operates {OwnerOperates}			OWNOPR				
ASK	IF (Building interview & NOT (C1 [Government owned] = Missing & C3 [Owner] = Missing)) OR (Mail interview & NOT C3 [Owner] = Missing)							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Is the building owner responsible for the operation of the energy systems?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Yes → C11 [Owner has purchasing power] IF No → C14 [Nonowner operator] IF Missing → C18 [Months in use]							

C11	Owner has purchasing power {OwnerPurchasePower}	OWNPPR		
ASK	IF C10 [Owner operates] = Yes			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Does the building owner also have direct input on decisions regarding purchases of energy-related equipment?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Yes				
2. No				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Yes OR Missing → C18 [Months in use] IF No → C12 [Nonowner with purchasing power]			

C12	Nonowner with purchasing power {NonOwnerPurchPower}	NWNPPR		
ASK	IF C11 [Owner has purchasing power] = No			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD C3			
Question Text	Looking at Show Card C3, please tell me who <u>does</u> have direct input on decisions regarding purchases of energy-related equipment.			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	Who has direct input on decisions regarding purchases of energy-related equipment?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Property management company or leasing agent				
2. Business owner or tenant				
3. Facilities personnel employed directly by the building owner				
4. Facilities or energy management consultant				
5. Volunteer member of the organization				
6. Manager with general supervisory duties				
7. Other				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other ➔ C13 [Other nonowner purchasing power] OTHERWISE ➔ C18 [Months in use]			

C13	Other nonowner purchasing power {OtherNonOwnPurchPower} OTNWNPPRX							
ASK	IF C12 [Nonowner with purchasing power] = Other							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	N/A – other specify box – see watermark							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>String Text</i>								
<i>Watermark</i>								
Briefly describe who has the most direct input regarding purchases of energy-related equipment								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank							
NEXT	➔ C18 [Months in use]							

C14	Nonowner operator {NonOwnerOperator}	<i>NWNOPR</i>		
ASK	IF C10 [Owner operates] = No			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD C3			
Question Text	Looking at Show Card C3, please tell me who <u>is</u> responsible for the operation of the energy systems.			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	Who is responsible for the operation of the energy systems?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Property management company or leasing agent				
2. Business owner or tenant				
3. Facilities personnel employed directly by the building owner				
4. Facilities or energy management consultant				
5. Volunteer member of the organization				
6. Manager with general supervisory duties				
7. Other				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other → C15 [Other operator] OTHERWISE → C16 [Who has purchasing power]			

C15	Other operator {OtherOperator}			OTNWNOOPRX				
ASK	IF C14 [Nonowner operator] = Other							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	N/A – other specify box – see watermark							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>String Text</i>								
<i>Watermark</i>								
Briefly describe who is responsible for the operation of energy systems								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank							
NEXT	➔ C16 [Who has purchasing power]							

C16	Who has purchasing power {PurchPowerOwnOpr}	<i>WHOPPR</i>		
ASK	IF C10 [Owner operates] = No			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Who has the most direct input on decisions regarding purchases of energy-related equipment – the building owner or the party who is responsible for operation of the energy systems?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Building owner				
2. Party responsible for operation of energy systems				
3. Both (either they have equal input, or are the same person)				
4. Other				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other ➔ C17 [Other with purchasing power] OTHERWISE ➔ C18 [Months in use]			

C17	Other with purchasing power {OtherPurchPower}			OTPPRX			
ASK	IF C16 [Who has purchasing power] = Other						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	N/A – other specify box – see watermark						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>String Text</i>							
<i>Watermark</i>							
Briefly describe who has the most direct input regarding purchases of energy-related equipment							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank						
NEXT	→C18 [Months in use]						

C18	Months in use {MonUse}	MONUSE
ASK	IF Building or Mall interview	
FILL	<p>{DiffActivity}</p> <p>IF CBECS Activity = Education = "The next question is about the number of months that the building was in use. If there were months when the building was only entered by a limited number of staff, do not count those months.</p> <p>How many months was this building in use during calendar year 2018?"</p> <p>IF CBECS Activity = Nonrefrigerated warehouse OR Refrigerated warehouse = "The next question is about the number of months that the building was in use. If there were goods being stored, even if there was not much activity in the building, it should count as being "in use."</p> <p>How many months was this building in use during calendar year 2018?"</p> <p>OTHERWISE = "Thinking of calendar year 2018, for how many months was this building in use?"</p>	
QUESTION TEXT – interviewer-administered		
Show Card	N/A	
Question Text	{DiffActivity}	
Interviewer Instructions	N/A	
QUESTION TEXT – web		
Question Text	No changes required	
Respondent Instructions	N/A	
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date	
RESPONSE OPTIONS		
<i>Numeric</i>		
Watermark	Label	Range
0 to 12	months	0 to 12
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank	
NEXT	<p>IF 0 THEN:</p> <p>IF B25 [Completely vacant] = Yes → D1 [Heating]</p> <p>OTHERWISE → C19 [Zero months in use check]</p> <p>OTHERWISE:</p> <p>IF B25 [Completely vacant] = Yes → C20 [Previous use]</p> <p>IF CBECS Activity = Office OR Enclosed Mall OR Outpatient health care OR Mall interview → C26 [Percent occupancy]</p> <p>IF B19 [Lodging type] = Hotel or resort OR Motel, inn, or bed and breakfast OR Retirement home OR B21 [Residential type] = Hotel or resort OR Motel, inn, or bed and breakfast OR Retirement home OR B14 [Health care type] = Retirement home → C27 [Lodging room percent occupancy]</p> <p>OTHERWISE → C28 [Open 24 hours a day]</p>	

C19	Zero months in use check {MonUseCheck}
ASK	IF C18 [Months in use] = 0 & NOT B25 [Completely vacant] = Yes
FILL	{Warehouse} IF CBECS Activity = Nonrefrigerated warehouse OR Refrigerated warehouse = "If goods are stored in the building, then it should be considered "in use" by CBECS definition." OTHERWISE = BLANK
QUESTION TEXT – interviewer-administered	
Show Card	N/A
Question Text	Your previous answers did <u>not</u> indicate that this building was completely vacant in 2018. Unless the building was completely vacant and unused, there should be at least one month in use. {Warehouse}
Interviewer Instructions	Please select the "Back" button to change the months in use, or the "Next" button to keep your current answer.
QUESTION TEXT – web	
Question Text	No changes required
Respondent Instructions	No changes required
ITEM TYPE	No space for answer, just Next button.
NONRESPONSE	N/A
NEXT	➔ D1 [Heating]

C20	Previous use {PreviousUse}	<i>PREVUSE</i>		
ASK	IF B25 [Completely vacant] = Yes & NOT C18 [Months in use] = 0			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	<p>Since this building was not completely vacant for all of 2018, please think about the equipment and the energy that was used during the time that the building <u>was</u> in use when answering this questionnaire.</p> <p>What was the building used for during the months that it <u>was</u> used in 2018?</p>			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>String Text</i>				
Watermark				
None				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ D1 [Heating]			

C21	Occupied/vacant all 2018 {EtabSameSpace}			ESTOCC			
ASK	IF Establishment interview						
FILL	{VacOcc} IF Establishment Activity = Vacant = "Was this establishment vacant" IF Establishment Activity ≠ Vacant = "Did this establishment occupy this same space"						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	{VacOcc} for all of calendar year 2018?						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options		Image	SAS Name				
1. Yes							
2. No							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	IF Yes OR Missing: IF Establishment Activity = Vacant ➔ D1 [Heating] IF Establishment Activity ≠ Vacant ➔ C28 [Open 24 hours a day] IF No ➔ C22 [Month occupied/vacant]						

C22	Month occupied/vacant {MonthEstab}	MONOCC		
ASK	IF C21 [Occupied/vacant all 2018] = No			
FILL	{VacOcc} IF Establishment Activity = Vacant = "become vacant" OTHERWISE = "begin occupying this space"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	In what month of 2018 did this establishment {VacOcc}?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. January				
2. February				
3. March				
4. April				
5. May				
6. June				
7. July				
8. August				
9. September				
10. October				
11. November				
12. December				
13. Establishment did not {VacOcc} until 2019				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Establishment did not begin occupying space until 2019 THEN: IF Establishment Activity ≠ Vacant ➔ C23 [Vacant in 2018] IF Establishment Activity = Vacant ➔ C24 [Prior establishment activity] OTHERWISE: IF Establishment Activity = Vacant ➔ D1 [Heating] OTHERWISE ➔ C28 [Open 24 hours a day]			

C23	Vacant in 2018 {VacantPriorYear}			VACPRIOR			
ASK	IF C22 [Month occupied/vacant] = Establishment did not begin occupying space until 2019 & Establishment Activity ≠ Vacant						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	This study is about the use of this space during 2018. Was this space vacant for all of 2018, or did some other establishment occupy this space for all or part of 2018?						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
Enumerated							
Response options		Image		SAS Name			
1. Vacant for all of 2018							
2. Some other establishment occupied the space							
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	IF Some other establishment occupied the space → C24 [Prior establishment activity] OTHERWISE → C25 [End of interview]						

C24	Prior establishment activity {PriorActivity}			ACTPRIOR
ASK	IF (C22 [Month occupied/vacant] = Establishment did not begin occupying space until 2019 & Establishment Activity = Vacant) OR C23 [Vacant in 2018] = Some other establishment occupied the space			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD B15			
Question Text	Looking at the list of activities on Show Card B15, which one best describes the activity of the establishment that occupied this space in 2018?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	Which of the following activities best describes the activity of the establishment that occupied this space in 2018?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated	<input type="checkbox"/> Numeric	<input type="checkbox"/> String Text	<input type="checkbox"/> Date
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Retail store				
2. Food sales <i>(Examples: grocery store, supermarket, convenience store, butcher shop, seafood market, produce market)</i>				
3. Food service/Bar/Night club <i>(Examples: restaurant, fast food, sandwich shop, pizzeria, coffee shop, doughnut or bagel shop, ice cream parlor, bakery, bar, night club)</i>				
4. Dry cleaner/Laundromat				
5. Office/Financial <i>(Examples: bank, credit union, insurance, tax assistance, loans, check cashing, real estate, lawyer, accountant, recruiting)</i>				
6. Medical/Dental				
7. Education/Child care <i>(Examples: tutoring, adult education, art school, preschool, daycare)</i>				
8. Movie theater/Cinema				
9. Salon/Spa/Barber shop				
10. Fitness center/Dance studio <i>(Includes martial arts)</i>				
11. Vacant				
12. Other				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ C25 [End of interview]			

C25	End of interview {Terminate2019}
ASK	IF C22 [Month occupied/vacant] = Establishment did not begin occupying space until 2019
QUESTION TEXT – interviewer-administered	
Show Card	N/A
Question Text	Thank you for your time and help. This completes your interview since this study only includes establishments that were occupying this space in 2018.
Interviewer Instructions	Please select the “Next” button to finish the interview.
QUESTION TEXT – web	
Question Text	No changes required
Respondent Instructions	No changes required
ITEM TYPE	No space for answer, just Next button.
NONRESPONSE	N/A
NEXT	TERMINATE

C26	Percent occupancy {OccupancyPct}	OCCUPYP		
ASK	IF (CBECS Activity = Office OR Enclosed Mall OR Outpatient health care) OR Mall interview) & NOT C18 [Months in use] = 0			
FILL	{MonthsInUse} IF C18 [Months in use] < 12 = "Thinking about the months that this building was in use in 2018, about " OTHERWISE = "In 2018, about "			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	{MonthsInUse} what percentage of the total floorspace of this building was <u>occupied</u> ? If occupancy varied, please provide the average.			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
0 to 100	%	0 to 100		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Building interview → C28 [Open 24 hours a day] IF Mall interview → D1 [Heating]			

C27	Lodging room percent occupancy {LodgeRoomOccupiedPct} <i>LODOCCP</i>			
ASK	IF (B19 [Lodging type] = Hotel or resort OR Motel, inn, or bed and breakfast OR Retirement home OR B21 [Residential type] = Hotel or resort OR Motel, inn, or bed and breakfast OR Retirement home OR B14 [Health care type] = Retirement home) & NOT C18 [Months in use] = 0			
FILL	{LodgeRooms} IF B40 [Number of guest rooms] known = "B40 [Number of guest rooms]" IF B40 [Number of guest rooms] = Missing = BLANK			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	In 2018, on average, what percentage of the {LodgeRooms} guest or occupant rooms in this building were occupied per night?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
0 to 100	%	0 to 100		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ C28 [Open 24 hours a day]			

C28	Open 24 hours a day {Open24Hrs}	OPEN24		
ASK	IF (Building interview & NOT B25 [Completely vacant] = Yes & NOT C18 [Months in use] = 0) OR (Establishment interview & Establishment Activity ≠ Vacant)			
FILL	<p>{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"</p> <p>{Occur} IF C18 [Months in use] = 12 OR C21 [Occupied/vacant all 2018] = Yes OR Missing = "occur" OTHERWISE = "occurred during the months when the {Structure} was in use"</p> <p>{HoursInstruct} IF C18 [Months in use] = 12 OR C21 [Occupied/vacant all 2018] = Yes OR Missing = "If the hours of operation varied throughout the year, report the most typical hours." OTHERWISE = "If the hours of operation varied throughout this time, consider the hours for the most typical months."</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	<p>The next questions are about the hours that this {Structure} is normally open.</p> <p>"Normally open" means the hours when the usual activities {Occur}. Do not consider the {Structure} to be open if <u>only</u> maintenance, housekeeping, or security personnel are present. {HoursInstruct}</p> <p>Is this {Structure} normally open 24 hours a day, seven days a week?</p>			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	<input type="checkbox"/>	Image		
1. Yes				
2. No				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Yes → C34 [Number of employees] IF No OR Missing → C29 [Open during week]			

C29	Open during week {OpenMonFri}	OPNMF		
ASK	IF C28 [Open 24 hours a day] = No OR Missing			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Thinking of Monday through Friday, is this {Structure} open all five days, open some of these days, or is it not open at all Monday through Friday?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
Enumerated				
Response options	Image	SAS Name		
1. All five days				
2. Some of these days				
3. Not open at all Monday through Friday				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ C30 [Open on weekend]			

C30	Open on weekend {OpenWeekend}			OPNWE				
ASK	IF C28 [Open 24 hours a day] = No OR Missing							
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Is this {Structure} normally open at all on the weekend? If it is only open one day of the weekend, consider it to be open.							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF No & C29 [Open during week] = Not open at all Monday through Friday → C31 [No operating hours] OTHERWISE → C32 [Total hours open per week]							

C31	No operating hours {NoHours}			NOHRS			
ASK	IF C29 [Open during week] = Not open at all Monday through Friday & C30 [Open on weekend] = No						
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	Based on your previous answers, it appears this {Structure} does not have any normal operating hours. Is that correct?						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options		Image	SAS Name				
1. Correct, no operating hours							
2. Incorrect, there are some operating hours							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	IF Correct, no operating hours → → D1 [Heating] IF Incorrect, there are some operating hours OR Missing → C32 [Total hours open per week]						

C32	Total hours open per week {WeeklyHrs}	WKHRS		
ASK	IF C29 [Open during week] = All five days OR Some of these days OR Missing OR C30 [Open on weekend] = Yes OR Missing OR C31 [No operating hours] = Incorrect, there are some operating hours OR Missing			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment" {BldgExplain} IF Interview = Building = "If the hours vary for different parts of the building, report the hours for most of the building, based on square footage." IF Interview = Establishment = BLANK			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	How many total hours per week is the {Structure} normally open? "Normally open" means the hours when the usual activities occur. {BldgExplain}			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated	<input checked="" type="checkbox"/> Numeric	<input type="checkbox"/> String Text	<input type="checkbox"/> Date
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
0 to 168	hours	0 to 168		
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box			
NEXT	X Allow Blank IF DK/Missing → C33 [Weekly hours category] OTHERWISE → C34 [Number of employees]			

C33	Weekly hours category {WeeklyHrsCat}	WKRSC		
ASK	IF C32 [Total hours open per week] = DK/Missing			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD C4			
Question Text	Please look at Show Card C4. Which category best describes the total hours per week that the {Structure} is normally open?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	Which category best describes the total hours per week that the {Structure} is normally open?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. 1 to 39 <i>(For example, open only a few hours per day, or only on weekends)</i>				
2. 40 to 48 <i>(For example, open 8 or 9 hours a day, Monday through Friday)</i>				
3. 49 to 60 <i>(For example, open 10 to 12 hours a day, Monday through Friday, or 7 or 8 hours a day, every day)</i>				
4. 61 to 84 <i>(For example, open 9 to 12 hours a day, every day)</i>				
5. 85 to 167 <i>(Open most of the time)</i>				
6. 168 <i>(Open 24 hours a day)</i>				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ C34 [Number of employees]			

C34	Number of employees {Workers}	NWKER		
ASK	IF ((Building interview & NOT B25 [Completely vacant] = Yes & NOT C18 [Months in use] = 0) OR (Establishment interview & Establishment Activity ≠ Vacant)) & NOT C31 [No operating hours] = Correct, no operating hours			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	How many employees work in the {Structure} during the main shift, that is, when most employees are present? Please note that this is not a total count of workers, but rather a count of workers who are present at the same time. Include any volunteer workers. Do <u>not</u> include employees who always work outside the building, such as drivers with delivery routes.			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	workers (main shift)	0 to 99,999		
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box			
NEXT	IF DK/Missing → C35 [Number of employees category] IF Number given → D1 [Heating]			

C35	Number of employees category {WorkersCat}	NWKERC		
ASK	IF C34 [Number of employees] = DK/Missing			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD C5			
Question Text	Please look at Show Card C5. Which category best describes how many employees work <u>in the {Structure}</u> during the main shift?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	Which category best describes how many employees work <u>in the {Structure}</u> during the main shift?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options		Image		
1. None				
2. 1 to 4				
3. 5 to 9				
4. 10 to 19				
5. 20 to 49				
6. 50 to 99				
7. 100 to 249				
8. 250 to 499				
9. 500 to 999				
10. 1,000 to 2,499				
11. 2,500 to 4,999				
12. 5,000 or More				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ D1 [Heating]			

Section D: Energy Sources, Uses, and Equipment

D1	Heating {Heating}	HT1		
ASK	All structure types			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	<p>The next section is about energy sources, uses, and equipment.</p> <p>For the next five questions, please tell me whether or not energy was used in this {Structure} for any of these purposes during calendar year 2018.</p> <p>Was any energy used for heating the {Structure}?</p>			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	<p>The next section is about energy sources, uses, and equipment.</p> <p>For the next five questions, please report whether or not energy was used in this {Structure} for any of these purposes during calendar year 2018.</p> <p>Was any energy used for heating the {Structure}?</p>			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Yes				
2. No				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF No & NOT CBECS Activity = Vacant, Refrigerated warehouse, Nonrefrigerated warehouse, OR Service & NOT Establishment Activity = Vacant ➔ D2 [Why no heating] OTHERWISE ➔ D4 [Cooling]			

D2	Why no heating {WhyNoHeating}			NOHEAT			
ASK	IF D1 [Heating] = No & NOT CBECS Activity = Vacant, Refrigerated warehouse, Nonrefrigerated warehouse, OR Service & NOT Establishment Activity = Vacant						
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	Please briefly tell me why this {Structure} wasn't heated during 2018.						
Interviewer Instructions	Select option that best matches respondent's answer						
QUESTION TEXT – web							
Question Text	Which of the following reasons best explains why this {Structure} wasn't heated during 2018?						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options		Image	SAS Name				
1. Previous answer incorrect, {Structure} <u>does</u> have heating							
2. Climate doesn't require heating							
3. {Structure} wasn't used during the 2018 heating season							
4. Waste heat from other equipment is sufficient							
5. Heating equipment was broken during 2018							
6. Some other reason							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	IF Some other reason → D3 [Other no heating specify] OTHERWISE → D4 [Cooling]						

D3	Other no heating specify {OtherNoHeatReason}			NOHEATX			
ASK	IF D2 [Why no heating] = Some other reason						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	N/A – other specify box – see watermark						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>String Text</i>							
Watermark							
Briefly describe the reason there was no heating							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank						
NEXT	➔ D4 [Cooling]						

D51	Cooling {Cooling}			COOL				
ASK	All structure types							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	(Was any energy used...) For air conditioning?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	Was any energy used for air conditioning?							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF No & NOT CBECS Activity = Vacant, Refrigerated warehouse, Nonrefrigerated warehouse, OR Service & NOT (A24 [Year of construction = 2018] & A27 [Month ready for occupancy] = September, October, November, OR December) & NOT Establishment Activity = Vacant & NOT C22 [Month occupied/vacant] = September, October, November, OR December] ➔ D5 [Why no cooling] OTHERWISE ➔ D7 [Water heating]							

D5	Why no cooling {WhyNoCooling}	NOCOOL		
ASK	IF D4 [Cooling] = No & NOT CBECS Activity = Vacant, Refrigerated warehouse, Nonrefrigerated warehouse, OR Service & NOT (A24 [Year of construction = 2018] & A27 [Month ready for occupancy] = September, October, November, OR December) & NOT Establishment Activity = Vacant & NOT C22 [Month occupied/vacant] = September, October, November, OR December]			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Please briefly tell me why this {Structure} wasn't air conditioned during 2018.			
Interviewer Instructions	Select option that best matches respondent's answer			
QUESTION TEXT – web				
Question Text	Which of the following reasons best explains why this {Structure} wasn't air conditioned during 2018?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options		Image		
1. Previous answer incorrect, {Structure} <u>does</u> have air conditioning				
2. Climate doesn't require air conditioning				
3. {Structure} wasn't used during the 2018 cooling season				
4. {Structure} is used for storage				
5. Air conditioning equipment was broken during 2018				
6. Can not afford air conditioning				
7. Some other reason				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Some other reason → D6 [Other no heating specify] OTHERWISE → D7 [Water heating]			

D6	Other no cooling specify {OtherNoCoolReason}			<i>NOCOOLX</i>			
ASK	IF D5 [Why no cooling] = Some other reason						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	N/A – other specify box – see watermark						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>String Text</i>							
<i>Watermark</i>							
Briefly describe the reason there was no air conditioning							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank						
NEXT	➔ D7 [Water heating]						

D7	Water heating {WaterHeat}			WATR				
ASK	All structure types							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	(Was any energy used...) For heating water for purposes such as washing hands, dishes, or clothes?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	Was any energy used for heating water for purposes such as washing hands, dishes, or clothes?							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF No & NOT (D1 [Heating] = No & D4 [Cooling] = No) & NOT CBECS Activity = Vacant, Refrigerated warehouse, Nonrefrigerated warehouse, OR Service & NOT Establishment Activity = Vacant ➔ D8 [Why no water heating] OTHERWISE ➔ D10 [Cooking]							

D8	Why no water heating {WhyNoWaterHeating}	NOWATR
ASK	IF D7 [Water heating] = No & NOT (D1 [Heating] = No & D4 [Cooling] = No) & NOT CBECS Activity = Vacant, Refrigerated warehouse, Nonrefrigerated warehouse, OR Service & NOT Establishment Activity = Vacant	
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"	
QUESTION TEXT – interviewer-administered		
Show Card	N/A	
Question Text	Please briefly tell me why there was no water heating in this {Structure} during 2018.	
Interviewer Instructions	Select option that best matches respondent's answer	
QUESTION TEXT – web		
Question Text	Which of the following reasons best explains why there was no water heating in this {Structure} during 2018?	
Respondent Instructions	N/A	
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date	
RESPONSE OPTIONS		
<i>Enumerated</i>		
Response options	Image	SAS Name
1. Previous answer incorrect, {Structure} <u>does</u> have water heating		
2. No plumbing in {Structure}		
3. Cold water only		
4. Water heating was broken during 2018		
5. Some other reason		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank	
NEXT	IF Some other reason → D9 [Other no water heating specify] OTHERWISE → D10 [Cooking]	

D9	Other no water heating specify {OtherNoWatrReason}			<i>NOWATRX</i>			
ASK	IF D8 [Why no water heating] = Some other reason						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	N/A – other specify box – see watermark						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>String Text</i>							
<i>Watermark</i>							
Briefly describe the reason there was no water heating							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank						
NEXT	➔ D10 [Cooking]						

D10	Cooking {Cooking}			COOK				
ASK	All structure types							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	(Was any energy used...) For cooking?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	Was any energy used for cooking?							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ D11 [Manufacturing]							

D11	Manufacturing {Manufacturing}			MANU				
ASK	All structure types							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	(Was any energy used...) For manufacturing?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	Was any energy used for manufacturing?							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF (No OR Missing) & (D1 [Heating] = No OR Missing) & (D4 [Cooling] = No OR Missing) & (D7 [Water heating] = No OR Missing) & (D10 [Cooking] = No OR Missing) ➔ D12 [Any energy used] OTHERWISE ➔ D13 [Energy sources used]							

D12	Any energy used {AnyEnergy}			ANYEGY				
ASK	IF (D1 [Heating] = No OR Missing) & (D4 [Cooling] = No OR Missing) & (D7 [Water heating] = No OR Missing) & (D10 [Cooking] = No OR Missing) & (D11 [Manufacturing] = No OR Missing)							
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Based on your previous answers, it appears there are no major uses of energy in this {Structure}. Did this {Structure} use <u>any</u> energy in 2018 for other purposes, such as lighting or appliances?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options			Image	SAS Name				
1. Yes, some energy was used in 2018								
2. No, no energy was used								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Yes, some energy was used OR Missing ➔ D13 [Energy sources used] IF No, no energy was used ➔ E83 [Window glass type]							

D13	Energy sources used {Sources}	<i>see below</i>		
ASK	IF NOT D12 [Any energy used] = No, no energy was used			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D1			
Question Text	Looking at this list of energy sources on Show Card D1, please tell me which ones were used <u>in this {Structure}</u> for any purpose in 2018.			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	Which energy sources were used <u>in this {Structure}</u> for any purpose in 2018?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Electricity		<i>ELUSED</i>		
2. Natural gas		<i>NGUSED</i>		
3. Fuel oil, diesel, or kerosene		<i>FKUSED</i>		
4. Propane, also known as bottled gas or LPG		<i>PRUSED</i>		
5. District steam piped in from a separate building or utility		<i>STUSED</i>		
6. District hot water piped in from a separate building or utility		<i>HWUSED</i>		
7. District chilled water piped in from a separate building or utility		<i>CWUSED</i>		
8. Wood		<i>WOUSED</i>		
9. Coal		<i>COUSED</i>		
10. Solar		<i>SOUSED</i>		
11. Other source		<i>OTUSED</i>		

NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank
NEXT	<p>IF Other source selected ➔ D14 [Other energy source]</p> <p>IF Answered & NOT Electricity selected ➔ D15 [Verify no electricity]</p> <p>IF Fuel, oil, diesel, or kerosene selected ➔ D16 [Fuel oil, diesel, or kerosene]</p> <p>IF Solar selected ➔ D17 [Type of solar]</p> <p>IF District steam OR District hot water selected & B50 [Central physical plant] = Yes & B55 [Central plant in building] = In another building ➔ D18 [From central plant]</p> <p>OTHERWISE:</p> <p>IF Building OR Mall interview & D1 [Heating] = Yes ➔ D20 [Percent heated]</p> <p>IF Establishment interview & D1 [Heating] = Yes ➔ D22 [Source for main heating]</p> <p>IF Building OR Mall interview & D4 [Cooling] = Yes ➔ D90 [Percent cooled]</p> <p>IF Establishment interview & D4 [Cooling] = Yes & NOT District chilled water used ➔ D91 [Electricity only for cooling]</p> <p>IF Establishment interview & D4 [Cooling] = Yes & District chilled water used ➔ D94 [EL or CW for cooling]</p> <p>IF D7 [Water heating] = Yes ➔ D131 [Sources for water heating]</p> <p>IF D10 [Cooking] = Yes ➔ D135 [Sources for cooking]</p> <p>IF D11 [Manufacturing] = Yes ➔ D137 [Sources for manufacturing]</p> <p>OTHERWISE ➔ D139 [Electricity generation capability]</p>

D14	Other energy source {OthSourceSp1}			OTUSDX				
ASK	IF Other source IN D13 [Energy sources used]							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	N/A – other specify box – see watermark							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>String Text</i>								
<i>Watermark</i>								
Briefly describe the other energy source used								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank							
NEXT	IF NOT Electricity IN D13 [Energy sources used] ➔ D15 [Verify no electricity] IF Fuel, oil, diesel, or kerosene IN D13 [Energy sources used] ➔ D16 [Fuel oil, diesel, or kerosene] IF Solar IN D13 [Energy sources used] ➔ D17 [Type of solar] IF District steam OR District hot water IN D13 [Energy sources used] & B50 [Central physical plant] = Yes & B55 [Central plant in building] = In another building ➔ D18 [From central plant] IF Building OR Mall interview & D1 [Heating] = Yes ➔ D20 [Percent heated] IF Establishment interview & D1 [Heating] = Yes ➔ D22 [Source for main heating] IF Building OR Mall interview & D4 [Cooling] = Yes ➔ D90 [Percent cooled] IF Establishment interview & D4 [Cooling] = Yes & NOT District chilled water used ➔ D91 [Electricity only for cooling] IF Establishment interview & D4 [Cooling] = Yes & NOT Electricity used & NOT District chilled water used ➔ D92 [Sources for cooling] IF Establishment interview & D4 [Cooling] = Yes & District chilled water used ➔ D94 [EL or CW for cooling] IF D7 [Water heating] = Yes ➔ D131 [Sources for water heating] IF D10 [Cooking] = Yes ➔ D135 [Sources for cooking] IF D11 [Manufacturing] = Yes ➔ D137 [Sources for manufacturing] OTHERWISE ➔ D139 [Electricity generation capability]							

D15	Verify no electricity {NoELCheck}
ASK	IF D13 [Energy sources used] given & NOT Electricity used
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"
QUESTION TEXT – interviewer-administered	
Show Card	N/A
Question Text	You did not indicate that electricity was used in this {Structure} in 2018. This is unusual.
Interviewer Instructions	Please select the "Back" button to add electricity, or the "Next" button to keep your current answer.
QUESTION TEXT – web	
Question Text	No changes required
Respondent Instructions	No changes required
ITEM TYPE	No space for answer, just Next button.
NONRESPONSE	N/A
NEXT	IF Fuel, oil, diesel, or kerosene IN D13 [Energy sources used] ➔ D16 [Fuel oil, diesel, or kerosene] IF Solar IN D13 [Energy sources used] ➔ D17 [Type of solar] IF District steam OR District hot water IN D13 [Energy sources used] & B50 [Central physical plant] = Yes & B55 [Central plant in building] = In another building ➔ D18 [From central plant] IF Building OR Mall interview & D1 [Heating] = Yes ➔ D20 [Percent heated] IF Establishment interview & D1 [Heating] = Yes ➔ D22 [Source for main heating] IF Building OR Mall interview & D4 [Cooling] = Yes ➔ D90 [Percent cooled] IF Establishment interview & D4 [Cooling] = Yes & NOT District chilled water used ➔ D91 [Electricity only for cooling] IF Establishment interview & D4 [Cooling] = Yes & District chilled water used ➔ D94 [EL or CW for cooling] IF D7 [Water heating] = Yes ➔ D131 [Sources for water heating] IF D10 [Cooking] = Yes ➔ D135 [Sources for cooking] IF D11 [Manufacturing] = Yes ➔ D137 [Sources for manufacturing] OTHERWISE ➔ D139 [Electricity generation capability]

D16	Fuel oil, diesel, or kerosene {TypeFuelOil}	FKTYPE		
ASK	IF Fuel, oil, diesel, or kerosene IN D13 [Energy sources used]			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	Verify if volunteered in previous question			
Question Text	You mentioned fuel oil, diesel, or kerosene. Which of these were used (in this {Structure} in 2018)?			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	You reported fuel oil, diesel, or kerosene. Which of these were used in this {Structure} in 2018?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Fuel oil				
2. Diesel				
3. Kerosene				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Solar IN D13 [Energy sources used] ➔ D17 [Type of solar] IF District steam OR District hot water IN D13 [Energy sources used] & B50 [Central physical plant] = Yes & B55 [Central plant in building] = In another building ➔ D18 [From central plant] IF Building OR Mall interview & D1 [Heating] = Yes ➔ D20 [Percent heated] IF Establishment interview & D1 [Heating] = Yes ➔ D22 [Source for main heating] IF Building OR Mall interview & D4 [Cooling] = Yes ➔ D90 [Percent cooled] IF Establishment interview & D4 [Cooling] = Yes & NOT District chilled water used ➔ D91 [Electricity only for cooling] IF Establishment interview & D4 [Cooling] = Yes & NOT Electricity used & NOT District chilled water used ➔ D92 [Sources for cooling] IF Establishment interview & D4 [Cooling] = Yes & District chilled water used ➔ D94 [EL or CW for cooling] IF D7 [Water heating] = Yes ➔ D131 [Sources for water heating] IF D10 [Cooking] = Yes ➔ D135 [Sources for cooking] IF D11 [Manufacturing] = Yes ➔ D137 [Sources for manufacturing] OTHERWISE ➔ D139 [Electricity generation capability]			

D17	Type of solar {TypeSolar}	see below		
ASK	IF Solar IN D13 [Energy sources used]			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Which type of solar was used: solar panels to generate electricity or solar thermal energy, which is the direct use of solar energy <u>without</u> generating electricity?			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Solar panels used to generate electricity		SOPANEL		
2. Solar thermal energy (use of solar energy <u>without</u> generating electricity)		SOTHERM		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF District steam OR District hot water IN D13 [Energy sources used] & B50 [Central physical plant] = Yes & B55 [Central plant in building] = In another building ➔ D18 [From central plant] IF Building OR Mall interview & D1 [Heating] = Yes ➔ D20 [Percent heated] IF Establishment interview & D1 [Heating] = Yes ➔ D22 [Source for main heating] IF Building OR Mall interview & D4 [Cooling] = Yes ➔ D90 [Percent cooled] IF Establishment interview & D4 [Cooling] = Yes & NOT District chilled water used ➔ D91 [Electricity only for cooling] IF Establishment interview & D4 [Cooling] = Yes & NOT Electricity used & NOT District chilled water used ➔ D92 [Sources for cooling] IF Establishment interview & D4 [Cooling] = Yes & District chilled water used ➔ D94 [EL or CW for cooling] IF D7 [Water heating] = Yes ➔ D131 [Sources for water heating] IF D10 [Cooking] = Yes ➔ D135 [Sources for cooking] IF D11 [Manufacturing] = Yes ➔ D137 [Sources for manufacturing] IF Solar panels used to generate electricity ➔ D142 [Generation technologies other than solar] OTHERWISE ➔ D139 [Electricity generation capability]			

D18	From central plant {DistFromPlant}			<i>DHFRPL</i>				
ASK	IF District steam OR District hot water IN D13 [Energy sources used] & B50 [Central physical plant] = Yes & B55 [Central plant in building] = In another building							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Is the district steam or hot water piped in from a central plant that is part of the same campus or complex as this building?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF No OR Missing ➔ D19 [Purchase from offsite] IF Yes: IF D1 [Heating] = Yes ➔ D20 [Percent heated] IF D4 [Cooling] = Yes ➔ D90 [Percent cooled] IF D7 [Water heating] = Yes ➔ D131 [Sources for water heating] IF D10 [Cooking] = Yes ➔ D135 [Sources for cooking] IF D11 [Manufacturing] = Yes ➔ D137 [Sources for manufacturing] IF D17 [Type of solar] = Solar panels ➔ D142 [Generation technologies other than solar] OTHERWISE ➔ D139 [Electricity generation capability]							

D19	Purchase from offsite {DistFromOffsite}			DHOFF				
ASK	IF D18 [From central plant] = No OR Missing							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Is the district steam or hot water purchased from somewhere off-site, such as a commercial or municipal plant?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF D1 [Heating] = Yes ➔ D20 [Percent heated] IF D4 [Cooling] = Yes ➔ D90 [Percent cooled] IF D7 [Water heating] = Yes ➔ D131 [Sources for water heating] IF D10 [Cooking] = Yes ➔ D135 [Sources for cooking] IF D11 [Manufacturing] = Yes ➔ D137 [Sources for manufacturing] IF D17 [Type of solar] = Solar panels ➔ D142 [Generation technologies other than solar] OTHERWISE ➔ D139 [Electricity generation capability]							

D20	Percent heated {HeatPct}		<i>HEATP</i>			
ASK	IF Building OR Mall interview & D1 [Heating] = Yes					
FILL	{SqFt} IF A6 [Square footage] known = "A6 [Square footage] square feet" IF A6 [Square footage] = DK/Missing = "floorspace"					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	<p>These next questions are about heating in this building.</p> <p>What percentage of the {SqFt} in this building was heated to at least 50 degrees Fahrenheit during 2018, including basements and indoor parking levels if they were heated to at least 50 degrees? If you're not sure, please provide your best estimate.</p>					
Interviewer Instructions	N/A					
QUESTION TEXT – web						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
0 to 100	%	0 to 100				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	IF 0 ➔ D21 [Heated to less than 50 degrees] OTHERWISE ➔ D22 [Source for main heating]					

D21	Heated to less than 50 degrees {HeatLess50}			HTLS50				
ASK	IF D20 [Percent heated] = 0							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Was any of this building heated to less than 50 degrees Fahrenheit? Areas may be heated to less than 50 degrees to prevent pipes from freezing.							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Yes OR Missing ➔ D22 [Source for main heating] IF No: IF D4 [Cooling] = Yes ➔ D90 [Percent cooled] IF D7 [Water heating] = Yes ➔ D131 [Sources for water heating] IF D10 [Cooking] = Yes ➔ D135 [Sources for cooking] IF D11 [Manufacturing] = Yes ➔ D137 [Sources for manufacturing] IF D17 [Type of solar] = Solar panels ➔ D142 [Generation technologies other than solar] OTHERWISE ➔ D139 [Electricity generation capability]							

D22	Source for main heating {HeatSource}		see below			
ASK	IF D1 [Heating] = Yes & NOT ([D20 [Percent heated] = 0 & D21 [Heated to less than 50 degrees] = No)					
FILL	<p>{Intro} IF Interview = Establishment = "These next questions are about heating in this establishment." IF Interview = Building OR Mall = BLANK {Ht1SourcesList} = List of all energy sources used {Electricity} – {Other} = If a source is used, it appears. If D13 [Energy sources used] = Missing, Electricity will be the only one of these displayed. {FuelOilType} = Type or types specified in D16 [Fuel oil, diesel, or kerosene] {Other} = Source specified in D14 [Other energy source]</p>					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	<p>{Intro} What was the <u>main</u> energy source for heating? (Was it {Ht1SourcesList}?)</p>					
Interviewer Instructions	N/A					
QUESTION TEXT – web						
Question Text	<p>{Intro} What was the <u>main</u> energy source for heating?</p>					
Respondent Instructions	N/A					
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Enumerated</i>						
Response options			Image			
1. {Electricity}			<i>ELHT1</i>			
2. {Natural gas}			<i>NGHT1</i>			
3. {FuelOilType}			<i>FKHT1</i>			
4. {Propane}			<i>PRHT1</i>			
5. {District steam}			<i>STHT1</i>			
6. {District hot water}			<i>HWHT1</i>			
7. {Wood}			<i>WOHT1</i>			
8. {Coal}			<i>COHT1</i>			
9. {Solar thermal}			<i>SOHT1</i>			
10. {Other}			<i>OTHT1</i>			
11. Some other energy source						
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	IF Some other energy source ➔ D23 [Other source for main heating] IF Missing ➔ D31 [Heating equipment for unknown source] OTHERWISE: IF More than one energy source used ➔ D24 [Which other sources for heating] IF Only one energy source used ➔ D25 [Any other sources for heating]					

D23	Other source for main heating {OtHt1Source}			<i>see below</i>				
ASK	IF D22 [Source for main heating] = Some other energy source							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	What was the other energy source used for <u>main</u> space heating?							
Interviewer Instructions	Read choices if necessary							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Electricity			<i>ELHT1</i>					
2. Natural gas			<i>NGHT1</i>					
3. Fuel Oil/Diesel/Kerosene			<i>FKHT1</i>					
4. Propane			<i>PRHT1</i>					
5. District steam			<i>STHT1</i>					
6. District hot water			<i>HWHT1</i>					
7. Wood			<i>WOHT1</i>					
8. Coal			<i>COHT1</i>					
9. Solar thermal			<i>SOHT1</i>					
10. Some other energy source			<i>OTHT1</i>					
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ D24 [Which other sources for heating]							

D24	Which other sources for heating {SecHtSource}	HT2 & see below		
ASK	IF D1 [Heating] = Yes & More than one energy source used & NOT D22 [Source for main heating] = Missing			
FILL	<p>{Ht2SourcesList} = List of all energy sources used, other than the one used for main heating</p> <p>{Electricity} – {Other} = If a source is used (other than for main space heating), it appears. If D13 [Energy sources used] = Missing, Electricity will be the only one of these displayed.</p> <p>{FuelOilType} = Type or types specified in D16 [Fuel oil, diesel, or kerosene]</p> <p>{Other} = Source specified in D14 [Other energy source]</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Which other energy sources, if any, were used for heating? Do not include electricity if it is used only to run fan motors. ({Ht2SourcesList})			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	Which other energy sources, if any, were used for heating? Do not include electricity if it is used only to run fan motors.			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated			
	<input type="checkbox"/> Numeric			
	<input type="checkbox"/> String Text			
	<input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. {Electricity}		ELHT2		
2. {Natural gas}		NGHT2		
3. {FuelOilType}		FKHT2		
4. {Propane}		PRHT2		
5. {District steam}		STHT2		
6. {District hot water}		HWHT2		
7. {Wood}		WOHT2		
8. {Coal}		COHT2		
9. {Solar thermal}		SOHT2		
10. {Other}		OTHT2		
11. Some other energy source				
12. No other sources for heating				
NONRESPONSE	<input type="checkbox"/> Explicit DK			
	<input type="checkbox"/> Explicit RF			
	<input checked="" type="checkbox"/> Missing Item Prompt Box			
	<input type="checkbox"/> Allow Blank			
NEXT	IF Some other energy source ➔ D26 [Other source for heating] OTHERWISE ➔ DRT [Main heating routing]			

D25	Any other sources for heating {SecOthSource}			HT2				
ASK	IF D1 [Heating] = Yes & Only one energy source used & NOT D22 [Source for main heating] = Missing							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Where there any other energy sources used for heating?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Yes ➔ D26 [Other source for heating] OTHERWISE ➔ DRT [Main heating routing]							

D26	Other source for heating {OtHt2Source}			<i>see below</i>				
ASK	IF D24 [Which other sources for heating] = Some other energy source OR D25 [Any other sources for heating] = Yes							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	What was the other energy source used for secondary space heating?							
Interviewer Instructions	Read choices if necessary							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Electricity		<i>ELHT2</i>						
2. Natural gas		<i>NGHT2</i>						
3. Fuel Oil/Diesel/Kerosene		<i>FKHT2</i>						
4. Propane		<i>PRHT2</i>						
5. District steam		<i>STHT2</i>						
6. District hot water		<i>HWHT2</i>						
7. Wood		<i>WOHT2</i>						
8. Coal		<i>COHT2</i>						
9. Solar thermal		<i>SOHT2</i>						
10. Some other energy source		<i>OTHT2</i>						
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ DRT [Main heating routing]							

NOTE ON ENERGY SOURCES:

Throughout the rest of this questionnaire, there will be references such as “Electricity used” or “Natural gas used.” In addition to the energy sources that were given in D13 [Energy sources used], if sources are added along the way, such as in D23 [Other source for main heating] OR D26 [Other source for heating], those sources are then also considered to be used.

DRT	Main heating routing
NEXT	<p>IF D22 [Source for main heating] = District steam & NOT D18 [From central plant] = Yes & NOT D19 [Purchase from offsite] = Yes ➔ D27 [Where does steam come from]</p> <p>IF D22 [Source for main heating] = District hot water & NOT D18 [From central plant] = Yes & NOT D19 [Purchase from offsite] = Yes ➔ D29 [Where does hot water come from]</p> <p>IF D22 [Source for main heating] OR D23 [Other source for main heating] = Electricity ➔ D33 [Elec main heating equipment]</p> <p>IF D22 [Source for main heating] OR D23 [Other source for main heating] = Natural gas ➔ D35 [Nat gas main heating equipment]</p> <p>IF D22 [Source for main heating] OR D23 [Other source for main heating] = Fuel oil/Diesel/Kerosene ➔ D37 [Fuel oil main heating equipment]</p> <p>IF D22 [Source for main heating] OR D23 [Other source for main heating] = Propane ➔ D39 [Propane main heating equipment]</p> <p>IF D22 [Source for main heating] OR D23 [Other source for main heating] = District steam ➔ D41 [District steam distribution]</p> <p>IF D22 [Source for main heating] OR D23 [Other source for main heating] = District hot water ➔ D42 [District hot water distribution]</p> <p>IF D22 [Source for main heating] OR D23 [Other source for main heating] = Wood ➔ D43 [Wood main heating equipment]</p> <p>IF D22 [Source for main heating] OR D23 [Other source for main heating] = Coal ➔ D45 [Coal main heating equipment]</p> <p>IF D22 [Source for main heating] OR D23 [Other source for main heating] = Solar thermal ➔ D47 [Solar thermal heating equipment]</p> <p>IF D22 [Source for main heating] = {Other} OR D23 [Other source for main heating] = Some other energy source ➔ D48 [Other source main heating equipment]</p>

D27	Where does steam come from {WhereSteam}	STLOCTN		
ASK	IF D22 [Source for main heating] = District steam & NOT D18 [From central plant] = Yes & NOT D19 [Purchase from offsite] = Yes			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Does the steam come from a boiler in another building, from a utility, or from a boiler <u>inside</u> this building?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
Enumerated				
Response options	Image	SAS Name		
1. From a boiler in another building				
2. From a district steam utility				
3. From a boiler <u>inside</u> this building				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF From a boiler inside this building ➔ D28 [Steam boiler fuel] OTHERWISE ➔ D41 [District steam distribution]			

D28	Steam boiler fuel {SteamFuel}			STBLFL
ASK	IF D27 [Where does steam come from] = From a boiler inside the building			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	What energy source does the boiler use to make the district steam: natural gas, fuel oil, propane, coal, electricity, or some other energy source?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	What energy source does the boiler use to make the district steam?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Natural gas				
2. Fuel oil				
3. Propane				
4. Coal				
5. Electricity				
6. Other energy source				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Answered ➔ D51 [Boiler heat distribution] IF Missing ➔ D41 [District steam distribution]			

D29	Where does hot water come from {WhereDistHW}	HWLOCTN		
ASK	IF D22 [Source for main heating] = District hot water & NOT D18 [From central plant] = Yes & NOT D19 [Purchase from offsite] = Yes			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Does the district hot water come from a boiler in another building, from a utility, or from a boiler <u>inside</u> this building?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
Enumerated				
Response options	Image	SAS Name		
1. From a boiler in another building				
2. From a district hot water utility				
3. From a boiler <u>inside</u> this building				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF From a boiler inside this building ➔ D30 [Hot water boiler fuel] OTHERWISE ➔ D42 [District hot water distribution]			

D30	Hot water boiler fuel {DistHWFuel}	<i>HWBLFL</i>	
ASK	IF D29 [Where does hot water come from] = From a boiler inside the building		
QUESTION TEXT – interviewer-administered			
Show Card	N/A		
Question Text	What energy source does the boiler use to make the district hot water: natural gas, fuel oil, propane, coal, electricity, or some other energy source?		
Interviewer Instructions	N/A		
QUESTION TEXT – web			
Question Text	What energy source does the boiler use to make the district hot water?		
Respondent Instructions	N/A		
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date		
RESPONSE OPTIONS			
<i>Enumerated</i>			
Response options		Image	SAS Name
1. Natural gas			
2. Fuel oil			
3. Propane			
4. Coal			
5. Electricity			
6. Other energy source			
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank		
NEXT	IF Answered ➔ D51 [Boiler heat distribution] IF Missing ➔ D42 [District hot water distribution]		

D31	Heating equipment for unknown source {HeatEquip_DK_Source} see below	
ASK	IF D22 [Source for main heating] = Missing	
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"	
QUESTION TEXT – interviewer-administered		
Show Card	SHOW CARD D2	
Question Text	Even though you aren't sure of the energy source used for heating this {Structure}, you may still be familiar with the equipment. Looking at the list of heating equipment and distribution types on Show Card D2, please tell me which one (or ones) are used in this {Structure}.	
Interviewer Instructions	Enter all that apply	
QUESTION TEXT – web		
Question Text	Even though you aren't sure of the energy source used for heating this {Structure}, you may still be familiar with the equipment. Which of these heating equipment and distribution types are used in this {Structure}?	
Respondent Instructions	Please select all that apply.	
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date	
RESPONSE OPTIONS		
<i>Enumerated</i>		
Response options	Image	SAS Name
1. Packaged central units (such as rooftop units, or RTUs) <i>(Packaged units contain all of their components in a single outdoor enclosure that sits on either the roof or to the side of a building. Some packaged heating units will contain air conditioning equipment. Packaged heating units may also be known as self-contained units.)</i>		PKGHT_DK
2. Boilers that produce steam or hot water for space heating		BOILER_DK
3. Heat pumps (other than components of a packaged central unit) <i>(These types of heat pumps may also be referred to as split system heat pumps.)</i>		HTPMPH_DK
4. Residential-type furnaces <i>(Furnaces heat air directly and circulate the warm air through ducts and vents.)</i>		FURNAC_DK
5. Individual space heaters <i>(Individual space heaters directly heat only the room or area where they are located. Examples include electric baseboards, electric radiant or quartz heaters, heating panels, infrared radiant heaters, gas- or kerosene-fired unit heaters, wood stoves, heating elements in Packaged Terminal Air Conditioners (PTACs), and Packaged Terminal Heat Pumps (PTHPs).)</i>		SLFCON_DK
6. Fireplaces		FIREPLC_DK
7. Central air handlers		AIRHAND_DK
8. Fan coil or induction units <i>(Fan coil units, including unit ventilators, contain a heating coil and fan to circulate air within a room. Induction units are typically connected directly to the air duct system and use nozzles to induce airflow across the heating coil and circulate the air within a room.)</i>		FANCOIL_DK

9. Duct reheat <i>(Heating coils located within ducts)</i>		<i>REHEAT_DK</i>
10. Radiators <i>(Radiators heat by circulating hot water or steam, using convection and radiation without fans; typically located along baseboards)</i>		<i>RADIATR_DK</i>
11. R radiant floor/ceiling panels		<i>RADFLR_DK</i>
12. Other heating equipment		<i>OTHTEQ_DK</i>
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank	
NEXT	IF Other heating equipment selected ➔ D32 [Unknown source heat equip specify] IF Boilers selected & Building interview ➔ D50 [Where is the boiler located] OTHERWISE ➔ ART [Heating follow-up routing] STEP 10	

D32	Unknown source heat equip specify {OthHeatSpecify_DK_Source} OTHTEQX_DK
ASK	IF D31 [Heating equipment for unknown source] = Other heating equipment
QUESTION TEXT – interviewer-administered	
Show Card	N/A
Question Text	N/A – other specify box – see watermark
Interviewer Instructions	N/A
QUESTION TEXT – web	
Question Text	No changes required
Respondent Instructions	N/A
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric X String Text <input type="checkbox"/> Date
RESPONSE OPTIONS	
String Text	
Watermark	
Briefly describe the other type of heating equipment	
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box X Allow Blank
NEXT	IF Building interview & Boilers IN D31 [Heating equipment for unknown source] ➔ D50 [Where is the boiler located] OTHERWISE ➔ ART [Heating follow-up routing] STEP 10

D33	Elec main heating equipment {HeatEquip_ELHT1}	see below		
ASK	IF D22 [Source for main heating] OR D23 [Other source for main heating] = Electricity			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D3			
Question Text	Looking at the list of heating equipment types on Show Card D3, please tell me which one (or ones) are powered by <u>electricity</u> in this {Structure}.			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	Which of these heating equipment types are powered by <u>electricity</u> in this {Structure}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Packaged central units (such as rooftop units, or RTUs) <i>(Packaged units contain all of their components in a single outdoor enclosure that sits on either the roof or to the side of a building. Some packaged heating units will contain air conditioning equipment. Packaged heating units may also be known as self-contained units.)</i>		PKGHT_EL		
2. Boilers that produce steam or hot water for space heating		BOILER_EL		
3. Heat pumps (other than components of a packaged central unit) <i>(These types of heat pumps may also be referred to as split system heat pumps.)</i>		HTPMHP_EL		
4. Residential-type furnaces <i>(Furnaces heat air directly and circulate the warm air through ducts and vents.)</i>		FURNAC_EL		
5. Individual space heaters <i>(Individual space heaters directly heat only the room or area where they are located. They can be freestanding or self-contained units mounted along baseboards or in walls, ceilings, or windows. Examples include electric baseboards, electric radiant or quartz heaters, heating panels, infrared radiant heaters, heating elements in Packaged Terminal Air Conditioners (PTACs), and Packaged Terminal Heat Pumps (PTHPs).)</i>		SLFCON_EL		
6. Fireplaces		FIREPLC_EL		
7. Duct reheat <i>(Heating coils located within ducts)</i>		REHEAT_EL		
8. Other heating equipment		OTHTEQ_EL		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other heating equipment selected ➔ D34 [Elec other main heat equip specify] IF Boilers selected THEN: IF Building interview ➔ D50 [Where is the boiler located] IF Mall OR Establishment interview ➔ D51 [Boiler heat distribution] OTHERWISE ➔ SRT [Secondary heating routing]			

D34	Elec other main heat equip specify {OthHeatSpecify_ELHT1} OTHT1X_EL			
ASK	IF D33 [Elec main heating equipment] = Other heating equipment			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	N/A – other specify box – see watermark			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated	<input type="checkbox"/> Numeric	<input checked="" type="checkbox"/> String Text	<input type="checkbox"/> Date
RESPONSE OPTIONS				
<i>String Text</i>				
<i>Watermark</i>				
Briefly describe the other type of heating equipment				
NONRESPONSE	<input type="checkbox"/> Explicit DK	<input type="checkbox"/> Explicit RF	<input type="checkbox"/> Missing Item Prompt Box	<input checked="" type="checkbox"/> Allow Blank
NEXT	IF Boilers IN D33 [Elec main heating equipment] THEN: IF Building interview ➔ D50 [Where is the boiler located] IF Mall OR Establishment interview ➔ D51 [Boiler heat distribution] OTHERWISE ➔ SRT [Secondary heating routing]			

D35	Nat gas main heating equipment {HeatEquip_NGHT1} see below					
ASK	IF D22 [Source for main heating] OR D23 [Other source for main heating] = Natural gas					
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"					
QUESTION TEXT – interviewer-administered						
Show Card	SHOW CARD D4					
Question Text	Looking at the list of heating equipment types on Show Card D4, please tell me which one (or ones) are fueled by <u>natural gas</u> in this {Structure}.					
Interviewer Instructions	Enter all that apply					
QUESTION TEXT – web						
Question Text	Which of these heating equipment types are fueled by <u>natural gas</u> in this {Structure}?					
Respondent Instructions	Please select all that apply.					
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Enumerated</i>						
Response options		Image	SAS Name			
1. Packaged central units (such as rooftop units, or RTUs) <i>(Packaged units contain all of their components in a single outdoor enclosure that sits on either the roof or to the side of a building. Some packaged heating units will contain air conditioning equipment. Packaged heating units may also be known as self-contained units.)</i>			PKGHT_NG			
2. Boilers that produce steam or hot water for space heating			BOILER_NG			
3. Heat pumps (other than components of a packaged central unit) <i>(These types of heat pumps may also be referred to as split system heat pumps.)</i>			HTPMPH_NG			
4. Residential-type furnaces <i>(Furnaces heat air directly and circulate the warm air through ducts and vents.)</i>			FURNAC_NG			
5. Individual space heaters <i>(Individual space heaters directly heat only the room or area where they are located. Individual space heaters are not connected to external sources of heat via pipes or air ducts. Examples include gas- or kerosene-fired unit heaters, wood stoves, and infrared radiant heaters.)</i>			SLFCON_NG			
6. Fireplaces			FIREPLC_NG			
7. Other heating equipment			OTHTEQ_NG			
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	IF Other heating equipment selected → D36 [Nat gas other main heat equip specify] IF Boilers selected THEN: IF Building interview → D50 [Where is the boiler located] IF Mall OR Establishment interview → D51 [Boiler heat distribution] OTHERWISE → SRT [Secondary heating routing]					

D36	Nat gas other main heat equip specify {OthHeatSpecify_NGHT1} OTHT1X_NG							
ASK	IF D35 [Nat gas main heating equipment] = Other heating equipment							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	N/A – other specify box – see watermark							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>String Text</i>								
<i>Watermark</i>								
Briefly describe the other type of heating equipment								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank							
NEXT	IF Boilers IN D35 [Nat gas main heating equipment] THEN: IF Building interview ➔ D50 [Where is the boiler located] IF Mall OR Establishment interview ➔ D51 [Boiler heat distribution] OTHERWISE ➔ SRT [Secondary heating routing]							

D37	Fuel oil main heating equipment {HeatEquip_FKHT1}	see below		
ASK	IF D22 [Source for main heating] OR D23 [Other source for main heating] = Fuel Oil/Diesel/Kerosene			
FILL	{FuelOilType} = Type or types specified in D16 [Fuel oil, diesel, or kerosene] {Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D5			
Question Text	Looking at the list of heating equipment types on Show Card D5, please tell me which one (or ones) are fueled by {FuelOilType} in this {Structure}.			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	Which of these heating equipment types are fueled by {FuelOilType} in this {Structure}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options		Image	SAS Name	
1. Boilers that produce steam or hot water for space heating			BOILER_FK	
2. Residential-type furnaces (<i>Furnaces heat air directly and circulate the warm air through ducts and vents.</i>)			FURNAC_FK	
3. Individual space heaters (<i>Individual space heaters directly heat only the room or area where they are located. Individual space heaters are not connected to external sources of heat via pipes or air ducts. Examples include gas- or kerosene-fired unit heaters, wood stoves, and infrared radiant heaters.</i>)			SLFCON_FK	
4. Other heating equipment			OTHTEQ_FK	
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other heating equipment selected ➔ D38 [Fuel oil other main heat equip specify] IF Boilers selected THEN: IF Building interview ➔ D50 [Where is the boiler located] IF Mall OR Establishment interview ➔ D51 [Boiler heat distribution] OTHERWISE ➔ SRT [Secondary heating routing]			

D38	Fuel oil other main heat equip specify {OthHeatSpecify_FKHT1} OTHT1X_FK
ASK	IF D37 [Fuel oil main heating equipment] = Other heating equipment
QUESTION TEXT – interviewer-administered	
Show Card	N/A
Question Text	N/A – other specify box – see watermark
Interviewer Instructions	N/A
QUESTION TEXT – web	
Question Text	No changes required
Respondent Instructions	N/A
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date
RESPONSE OPTIONS	
<i>String Text</i>	
<i>Watermark</i>	
Briefly describe the other type of heating equipment	
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank
NEXT	IF Boilers IN D37 [Fuel oil main heating equipment] THEN: IF Building interview ➔ D50 [Where is the boiler located] IF Mall OR Establishment interview & ➔ D51 [Boiler heat distribution] OTHERWISE ➔ SRT [Secondary heating routing]

D39	Propane main heating equipment {HeatEquip_PRHT1}	see below		
ASK	IF D22 [Source for main heating] OR D23 [Other source for main heating] = Propane			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D4			
Question Text	Looking at the list of heating equipment types on Show Card D4, please tell me which one (or ones) are fueled by <u>propane</u> in this {Structure}.			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	Which of these heating equipment types are fueled by <u>propane</u> in this {Structure}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
Enumerated				
Response options		Image		
1. Packaged central units (such as rooftop units, or RTUs) <i>(Packaged units contain all of their components in a single outdoor enclosure that sits on either the roof or to the side of a building. Some packaged heating units will contain air conditioning equipment. Packaged heating units may also be known as self-contained units.)</i>		PKGHT_PR		
2. Boilers that produce steam or hot water for space heating		BOILER_PR		
3. Heat pumps (other than components of a packaged central unit) <i>(These types of heat pumps may also be referred to as split system heat pumps.)</i>		HTPMPH_PR		
4. Residential-type furnaces <i>(Furnaces heat air directly and circulate the warm air through ducts and vents.)</i>		FURNAC_PR		
5. Individual space heaters <i>(Individual space heaters directly heat only the room or area where they are located. Individual space heaters are not connected to external sources of heat via pipes or air ducts. Examples include gas- or kerosene-fired unit heaters, wood stoves, and infrared radiant heaters.)</i>		SLFCON_PR		
6. Fireplaces		FIREPLC_PR		
7. Other heating equipment		OTHTEQ_PR		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other heating equipment selected ➔ D40 [Propane other main heat equip specify] IF Boilers selected THEN: IF Building interview ➔ D50 [Where is the boiler located] IF Mall OR Establishment interview ➔ D51 [Boiler heat distribution] OTHERWISE ➔ SRT [Secondary heating routing]			

D40	Propane other main heat equip specify {OthHeatSpecify_PRHT1} <i>OTHT1X_PR</i>
ASK	IF D39 [Propane main heating equipment] = Other heating equipment
QUESTION TEXT – interviewer-administered	
Show Card	N/A
Question Text	N/A – other specify box – see watermark
Interviewer Instructions	N/A
QUESTION TEXT – web	
Question Text	No changes required
Respondent Instructions	N/A
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric X String Text <input type="checkbox"/> Date
RESPONSE OPTIONS	
String Text	
Watermark	
Briefly describe the other type of heating equipment	
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box X Allow Blank
NEXT	IF Boilers IN D39 [Propane main heating equipment] THEN: IF Building interview ➔ D50 [Where is the boiler located] IF Mall OR Establishment interview ➔ D51 [Boiler heat distribution] OTHERWISE ➔ SRT [Secondary heating routing]

D41	District steam distribution {HeatEquip_STHT1}			<i>see below</i>				
ASK	IF D22 [Source for main heating] OR D23 [Other source for main heating] = District steam							
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"							
QUESTION TEXT – interviewer-administered								
Show Card	SHOW CARD D6							
Question Text	Looking at the list of heating distribution types on Show Card D6, please tell me which one (or ones) are used with the <u>district steam</u> in this {Structure}.							
Interviewer Instructions	Enter all that apply							
QUESTION TEXT – web								
Question Text	Which of these heating distribution types are used with the <u>district steam</u> in this {Structure}?							
Respondent Instructions	Please select all that apply.							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Central air handlers			<i>AIRHAND_ST</i>					
2. Fan coil or induction units <i>(Fan coil units, including unit ventilators, contain a heating coil and fan to circulate air within a room. Induction units are typically connected directly to the air duct system and use nozzles to induce airflow across the heating coil and circulate the air within a room.)</i>			<i>FANCOIL_ST</i>					
3. Duct reheat <i>(Heating coils located within ducts)</i>			<i>REHEAT_ST</i>					
4. Radiators <i>(Radiators heat by circulating hot water or steam, using convection and radiation without fans; typically located along baseboards)</i>			<i>RADIATR_ST</i>					
5. Radiant floor/ceiling panels			<i>RADFLR_ST</i>					
6. Water loop heat pumps			<i>WTLOOP_ST</i>					
7. Other distribution equipment			<i>OTDIST_ST</i>					
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ SRT [Secondary heating routing]							

D42	District hot water distribution {HeatEquip_HWHT1} <i>see below</i>					
ASK	IF D22 [Source for main heating] OR D23 [Other source for main heating] = District hot water					
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"					
QUESTION TEXT – interviewer-administered						
Show Card	SHOW CARD D6					
Question Text	Looking at the list of heating distribution types on Show Card D6, please tell me which one (or ones) are used with the <u>district hot water</u> in this {Structure}.					
Interviewer Instructions	Enter all that apply					
QUESTION TEXT – web						
Question Text	Which of these heating distribution types are used with the <u>district hot water</u> in this {Structure}?					
Respondent Instructions	Please select all that apply.					
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Enumerated</i>						
Response options		Image	SAS Name			
1. Central air handlers			AIRHAND_HW			
2. Fan coil or induction units <i>(Fan coil units, including unit ventilators, contain a heating coil and fan to circulate air within a room. Induction units are typically connected directly to the air duct system and use nozzles to induce airflow across the heating coil and circulate the air within a room.)</i>			FANCOIL_HW			
3. Duct reheat <i>(Heating coils located within ducts)</i>			REHEAT_HW			
4. Radiators <i>(Radiators heat by circulating hot water or steam, using convection and radiation without fans; typically located along baseboards)</i>			RADIATOR_HW			
5. Radiant floor/ceiling panels			RADFLR_HW			
6. Water loop heat pumps			WTLOOP_HW			
7. Other distribution equipment			OTDIST_HW			
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	➔ SRT [Secondary heating routing]					

D43	Wood main heating equipment {HeatEquip_WOHT1}	see below		
ASK	IF D22 [Source for main heating] OR D23 [Other source for main heating] = Wood			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D7			
Question Text	Looking at the list of heating equipment types on Show Card D7, please tell me which one (or ones) are fueled by <u>wood</u> in this {Structure}.			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	Which of these heating equipment types are fueled by <u>wood</u> in this {Structure}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Residential-type furnaces <i>(Furnaces heat air directly and circulate the warm air through ducts and vents.)</i>		FURNAC_WO		
2. Individual space heaters <i>(Individual space heaters directly heat only the room or area where they are located. Individual space heaters are not connected to external sources of heat via pipes or air ducts. Examples include gas- or kerosene-fired unit heaters, wood stoves, and infrared radiant heaters.)</i>		SLFCON_WO		
3. Fireplaces		FIREPLC_WO		
4. Other heating equipment		OTHTEQ_WO		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other heating equipment selected ➔ D44 [Wood other main heat equip specify] OTHERWISE ➔ SRT [Secondary heating routing]			

D44	Wood other main heat equip specify {OthHeatSpecify_WOHT1} OTHT1X_WO							
ASK	IF D43 [Wood main heating equipment] = Other heating equipment							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	N/A – other specify box – see watermark							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>String Text</i>								
<i>Watermark</i>								
Briefly describe the other type of heating equipment								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank							
NEXT	OTHERWISE ➔ SRT [Secondary heating routing]							

D45	Coal main heating equipment {HeatEquip_COHT1}	<i>see below</i>		
ASK	IF D22 [Source for main heating] OR D23 [Other source for main heating] = Coal			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D8			
Question Text	Looking at the list of heating equipment types on Show Card D8, please tell me which one (or ones) are fueled by <u>coal</u> in this {Structure}.			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	Which of these heating equipment types are fueled by <u>coal</u> in this {Structure}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
Enumerated				
Response options	Image	SAS Name		
1. Boilers that produce steam or hot water for space heating		<i>BOILER_CO</i>		
2. Residential-type furnaces <i>(Furnaces heat air directly and circulate the warm air through ducts and vents.)</i>		<i>FURNAC_CO</i>		
3. Other heating equipment		<i>OTHTEQ_CO</i>		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other heating equipment selected ➔ D46 [Coal other main heat equip specify] IF Boilers selected THEN: IF Building interview ➔ D50 [Where is the boiler located] IF Mall OR Establishment interview ➔ D51 [Boiler heat distribution] OTHERWISE ➔ SRT [Secondary heating routing]			

D46	Coal other main heat equip specify {OthHeatSpecify_COHT1} OTHT1X_CO
ASK	IF D45 [Coal main heating equipment] = Other heating equipment
QUESTION TEXT – interviewer-administered	
Show Card	N/A
Question Text	N/A – other specify box – see watermark
Interviewer Instructions	N/A
QUESTION TEXT – web	
Question Text	No changes required
Respondent Instructions	N/A
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date
RESPONSE OPTIONS	
<i>String Text</i>	
<i>Watermark</i>	
Briefly describe the other type of heating equipment	
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank
NEXT	IF Boilers IN D45 [Coal main heating equipment] THEN: IF Building interview ➔ D50 [Where is the boiler located] IF Mall OR Establishment interview ➔ D51 [Boiler heat distribution] OTHERWISE ➔ SRT [Secondary heating routing]

D47	Solar thermal heating equipment {HeatEquip_SOTHERMHT1} SOHT_HT1X							
ASK	IF D22 [Source for main heating] OR D23 [Other source for main heating] = Solar thermal							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Please describe the solar thermal heating system.							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
String Text								
Watermark								
None								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank							
NEXT	➔ SRT [Secondary heating routing]							

D48	Other source main heating equipment {HeatEquip_OTHT1}	<i>see below</i>		
ASK	IF D22 [Source for main heating] = {Other} OR D23 [Other source for main heating] = Some other energy source			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D9			
Question Text	Looking at the list of heating equipment types on Show Card D9, please tell me which one (or ones) are fueled by <u>the other energy source</u> in this {Structure}.			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	Which of these heating equipment types are fueled by <u>the other energy source</u> in this {Structure}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Packaged central units (such as rooftop units, or RTUs) <i>(Packaged units contain all of their components in a single outdoor enclosure that sits on either the roof or to the side of a building. Some packaged heating units will contain air conditioning equipment. Packaged heating units may also be known as self-contained units.)</i>		<i>PKGHT_OT</i>		
2. Boilers that produce steam or hot water for space heating		<i>BOILER_OT</i>		
3. Residential-type furnaces <i>(Furnaces heat air directly and circulate the warm air through ducts and vents.)</i>		<i>FURNAC_OT</i>		
4. Individual space heaters <i>(Individual space heaters directly heat only the room or area where they are located. Individual space heaters are not connected to external sources of heat via pipes or air ducts. Examples include gas- or kerosene-fired unit heaters, wood stoves, and infrared radiant heaters.)</i>		<i>SLFCON_OT</i>		
5. Other heating equipment		<i>OTHTEQ_OT</i>		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other heating equipment selected → D49 [Other source other main heat specify] IF Boilers selected THEN: IF Building interview → D50 [Where is the boiler located] IF Mall OR Establishment interview → D51 [Boiler heat distribution] OTHERWISE → SRT [Secondary heating routing]			

D49	Other source other main heat specify {OthHeatSpecify_OTHT1} OTHT1X_OT							
ASK	IF D48 [Other source main heating equipment] = Other heating equipment							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	N/A – other specify box – see watermark							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>String Text</i>								
<i>Watermark</i>								
Briefly describe the other type of heating equipment								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank							
NEXT	IF Boilers IN D48 [Other source main heating equipment] THEN: IF Building interview ➔ D50 [Where is the boiler located] IF Mall OR Establishment interview ➔ D51 [Boiler heat distribution] OTHERWISE ➔ SRT [Secondary heating routing]							

D50	Where is the boiler located {WhereBoiler}			<i>BLLOCTN</i>				
ASK	IF Building interview & (Boilers IN D31 [Heating equipment for unknown source] OR D33 [Elec main heating equipment] OR D35 [Nat gas main heating equipment] OR D37 [Fuel oil main heating equipment] OR D39 [Propane main heating equipment] OR D45 [Coal main heating equipment] OR D48 [Other source main heating equipment])							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Is the boiler located in this building or in another building?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. In this building								
2. In another building								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF D22 [Source for main heating] = DK/Missing → ART [Heating follow-up routing] STEP 10 OTHERWISE → D51 [Boiler heat distribution]							

D51	Boiler heat distribution {BoilerDistrib}			see below				
ASK	IF Boilers for any main heating equipment OR D28 [Steam boiler fuel] answered OR D30 [Hot water boiler fuel] answered							
QUESTION TEXT – interviewer-administered								
Show Card	SHOW CARD D6							
Question Text	Looking at the list of heating distribution types on Show Card D6, please tell me which one (or ones) are used with the <u>boiler</u> .							
Interviewer Instructions	Enter all that apply							
QUESTION TEXT – web								
Question Text	Which of these heating distribution types are used with the <u>boiler</u> ?							
Respondent Instructions	Please select all that apply.							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Central air handlers			<i>BLRAIR_HT1</i>					
2. Fan coil or induction units <i>(Fan coil units, including unit ventilators, contain a heating coil and fan to circulate air within a room. Induction units are typically connected directly to the air duct system and use nozzles to induce airflow across the heating coil and circulate the air within a room.)</i>			<i>BLRFNCL_HT1</i>					
3. Duct reheat <i>(Heating coils located within ducts)</i>			<i>BLRDUCT_HT1</i>					
4. Radiators <i>(Radiators heat by circulating hot water or steam, using convection and radiation without fans; typically located along baseboards)</i>			<i>BLRRRAD_HT1</i>					
5. Radiant floor/ceiling panels			<i>BLRRDFL_HT1</i>					
6. Water loop heat pumps			<i>BLRWTLT_PHT1</i>					
7. Other distribution equipment			<i>BLROTD_HT1</i>					
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ SRT [Secondary heating routing]							

SRT	Secondary heating routing	
NEXT	STEP 1	IF Electricity IN D24 [Which other sources for heating] OR D26 [Other source for heating] ➔ D52 [Elec secondary heating equipment]
	STEP 2	IF Natural gas IN D24 [Which other sources for heating] OR D26 [Other source for heating] ➔ D55 [Nat gas secondary heating equipment]
	STEP 3	IF Fuel Oil/Diesel/Kerosene IN D24 [Which other sources for heating] OR D26 [Other source for heating] ➔ D58 [Fuel oil secondary heating equipment]
	STEP 4	IF Propane IN D24 [Which other sources for heating] OR D26 [Other source for heating] ➔ D61 [Propane secondary heating equipment]
	STEP 5	IF District steam IN D24 [Which other sources for heating] OR D26 [Other source for heating] THEN: IF NOT D18 [From central plant] = Yes & NOT D19 [Purchase from offsite] = Yes ➔ D64 [Where does steam come from] OTHERWISE ➔ D66 [District steam distribution]
	STEP 6	IF District hot water IN D24 [Which other sources for heating] OR D26 [Other source for heating] THEN: IF NOT D18 [From central plant] = Yes & NOT D19 [Purchase from offsite] = Yes ➔ D67 [Where does hot water come from] OTHERWISE ➔ D69 [District hot water distribution]
	STEP 7	IF Wood IN D24 [Which other sources for heating] OR D26 [Other source for heating] ➔ D70 [Wood secondary heating equipment]
	STEP 8	IF Coal IN D24 [Which other sources for heating] OR D26 [Other source for heating] ➔ D72 [Coal secondary heating equipment]
	STEP 9	IF Solar thermal IN D24 [Which other sources for heating] OR D26 [Other source for heating] ➔ D75 [Solar thermal secondary heating equipment]
	STEP 10	IF {Other} IN D24 [Which other sources for heating] OR D26 [Other source for heating] = Some other energy source ➔ D76 [Other source secondary heating equipment]
	STEP 11	➔ ART [Heating follow-up routing]

D52	Elec secondary heating equipment {HeatEquip_ELHT2}	see below		
ASK	IF Electricity IN D24 [Which other sources for heating] OR D26 [Other source for heating]			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D3			
Question Text	You mentioned that electricity was also used for heating. Looking at the list of heating equipment types on Show Card D3, please tell me which one (or ones) are powered by <u>electricity</u> in this {Structure}.			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	You reported that electricity was also used for heating. Which of these heating equipment types are powered by <u>electricity</u> in this {Structure}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Packaged central units (such as rooftop units, or RTUs) <i>(Packaged units contain all of their components in a single outdoor enclosure that sits on either the roof or to the side of a building. Some packaged heating units will contain air conditioning equipment. Packaged heating units may also be known as self-contained units.)</i>		PKGHT_EL		
2. Boilers that produce steam or hot water for space heating		BOILER_EL		
3. Heat pumps (other than components of a packaged central unit) <i>(These types of heat pumps may also be referred to as split system heat pumps.)</i>		HTPMHP_EL		
4. Residential-type furnaces <i>(Furnaces heat air directly and circulate the warm air through ducts and vents.)</i>		FURNAC_EL		
5. Individual space heaters <i>(Individual space heaters directly heat only the room or area where they are located. They can be freestanding or self-contained units mounted along baseboards or in walls, ceilings, or windows. Examples include electric baseboards, electric radiant or quartz heaters, heating panels, infrared radiant heaters, heating elements in Packaged Terminal Air Conditioners (PTACs), and Packaged Terminal Heat Pumps (PTHPs).)</i>		SLFCON_EL		
6. Fireplaces		FIREPLC_EL		
7. Duct reheat <i>(Heating coils located within ducts)</i>		REHEAT_EL		
8. Other heating equipment		OTHTEQ_EL		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other heating equipment selected ➔ D53 [Elec other secondary heat equip] IF Boilers selected ➔ D54 [Elec boiler heat distribution] OTHERWISE ➔ SRT [Secondary heating routing] STEP 2			

D53	Elec other secondary heat equip {OthHeatSpecify_ELHT2} <i>OTHT2X_EL</i>		
ASK	IF D52 [Elec secondary heating equipment] = Other heating equipment		
QUESTION TEXT – interviewer-administered			
Show Card	N/A		
Question Text	N/A – other specify box – see watermark		
Interviewer Instructions	N/A		
QUESTION TEXT – web			
Question Text	No changes required		
Respondent Instructions	N/A		
ITEM TYPE	<input type="checkbox"/> Enumerated	<input type="checkbox"/> Numeric	<input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date
RESPONSE OPTIONS			
<i>String Text</i>			
<i>Watermark</i>			
Briefly describe the other type of heating equipment			
NONRESPONSE	<input type="checkbox"/> Explicit DK	<input type="checkbox"/> Explicit RF	<input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank
NEXT	IF Boilers IN D52 [Elec secondary heating equipment] → D54 [Elec boiler heat distribution] OTHERWISE → SRT [Secondary heating routing] STEP 2		

D54	Elec boiler heat distribution {BoilerDistrib_ELHT2}	see below		
ASK	IF Boilers IN D52 [Elec secondary heating equipment]			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D6			
Question Text	Looking at the list of heating distribution types on Show Card D6, please tell me which one (or ones) are used with the <u>electric boiler</u> in this {Structure}.			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	Which of these heating distribution types are used with the <u>electric boiler</u> in this {Structure}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Central air handlers		BLRAIR_EL2		
2. Fan coil or induction units <i>(Fan coil units, including unit ventilators, contain a heating coil and fan to circulate air within a room. Induction units are typically connected directly to the air duct system and use nozzles to induce airflow across the heating coil and circulate the air within a room.)</i>		BLRFNCL_EL2		
3. Duct reheat <i>(Heating coils located within ducts)</i>		BLRDUCT_EL2		
4. Radiators <i>(Radiators heat by circulating hot water or steam, using convection and radiation without fans; typically located along baseboards)</i>		BLRRRAD_EL2		
5. Radiant floor/ceiling panels		BLRRDFL_EL2		
6. Water loop heat pumps		BLRWTLT_EL2		
7. Other distribution equipment		BLROTD_EL2		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ SRT [Secondary heating routing] STEP 2			

D55	Nat gas secondary heating equipment {HeatEquip_NGHT2}	see below		
ASK	IF Natural gas IN D24 [Which other sources for heating] OR D26 [Other source for heating]			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D4			
Question Text	You mentioned that natural gas was also used for heating. Looking at the list of heating equipment types on Show Card D4, please tell me which one (or ones) are fueled by <u>natural gas</u> in this {Structure}.			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	You reported that natural gas was also used for heating. Which of these heating equipment types are fueled by <u>natural gas</u> in this {Structure}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Packaged central units (such as rooftop units, or RTUs) <i>(Packaged units contain all of their components in a single outdoor enclosure that sits on either the roof or to the side of a building. Some packaged heating units will contain air conditioning equipment. Packaged heating units may also be known as self-contained units.)</i>		PKGHT_NG		
2. Boilers that produce steam or hot water for space heating		BOILER_NG		
3. Heat pumps (other than components of a packaged central unit) <i>(These types of heat pumps may also be referred to as split system heat pumps.)</i>		HTPMPH_NG		
4. Residential-type furnaces <i>(Furnaces heat air directly and circulate the warm air through ducts and vents.)</i>		FURNAC_NG		
5. Individual space heaters <i>(Individual space heaters directly heat only the room or area where they are located. Individual space heaters are not connected to external sources of heat via pipes or air ducts. Examples include gas- or kerosene-fired unit heaters, wood stoves, and infrared radiant heaters.)</i>		SLFCON_NG		
6. Fireplaces		FIREPLC_NG		
7. Other heating equipment		OTHTEQ_NG		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other heating equipment selected → D56 [Nat gas other secondary heat equip] IF Boilers selected → D57 [Nat gas boiler heat distribution] OTHERWISE → SRT [Secondary heating routing] STEP 3			

D56	Nat gas other secondary heat equip {OthHeatSpecify_NGHT2} OTHT2X_NG							
ASK	IF D55 [Nat gas secondary heating equipment] = Other heating equipment							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	N/A – other specify box – see watermark							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>String Text</i>								
<i>Watermark</i>								
Briefly describe the other type of heating equipment								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank							
NEXT	IF Boilers IN D55 [Nat gas secondary heating equipment] ➔ D57 [Nat gas boiler heat distribution] OTHERWISE ➔ SRT [Secondary heating routing] STEP 3							

D57	Nat gas boiler heat distribution {BoilerDistrib_NGHT2} see below					
ASK	IF Boilers IN D55 [Nat gas secondary heating equipment]					
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"					
QUESTION TEXT – interviewer-administered						
Show Card	SHOW CARD D6					
Question Text	Looking at the list of heating distribution types on Show Card D6, please tell me which one (or ones) are used with the <u>natural gas boiler</u> in this {Structure}.					
Interviewer Instructions	Enter all that apply					
QUESTION TEXT – web						
Question Text	Which of these heating distribution types are used with the <u>natural gas boiler</u> in this {Structure}?					
Respondent Instructions	Please select all that apply.					
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Enumerated</i>						
Response options		Image	SAS Name			
1. Central air handlers			BLRAIR_NG2			
2. Fan coil or induction units <i>(Fan coil units, including unit ventilators, contain a heating coil and fan to circulate air within a room. Induction units are typically connected directly to the air duct system and use nozzles to induce airflow across the heating coil and circulate the air within a room.)</i>			BLRFNCL_NG2			
3. Duct reheat <i>(Heating coils located within ducts)</i>			BLRDUCT_NG2			
4. Radiators <i>(Radiators heat by circulating hot water or steam, using convection and radiation without fans; typically located along baseboards)</i>			BLRRRAD_NG2			
5. Radiant floor/ceiling panels			BLRRDFL_NG2			
6. Water loop heat pumps			BLRWTL_P_NG2			
7. Other distribution equipment			BLROTD_NG2			
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	➔ SRT [Secondary heating routing] STEP 3					

D58	Fuel oil secondary heating equipment {HeatEquip_FKHT2}	<i>see below</i>		
ASK	IF Fuel Oil/Diesel/Kerosene IN D24 [Which other sources for heating] OR D26 [Other source for heating]			
FILL	{FuelOilType} = Type or types specified in D16 [Fuel oil, diesel, or kerosene] {Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D5			
Question Text	You mentioned that {FuelOilType} was also used for heating. Looking at the list of heating equipment types on Show Card D5, please tell me which one (or ones) are fueled by {FuelOilType} in this {Structure}.			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	You reported that {FuelOilType} was also used for heating. Which of these heating equipment types are fueled by {FuelOilType} in this {Structure}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Boilers that produce steam or hot water for space heating		<i>BOILER_FK</i>		
2. Residential-type furnaces (<i>Furnaces heat air directly and circulate the warm air through ducts and vents.</i>)		<i>FURNAC_FK</i>		
3. Individual space heaters (<i>Individual space heaters directly heat only the room or area where they are located. Individual space heaters are not connected to external sources of heat via pipes or air ducts. Examples include gas- or kerosene-fired unit heaters, wood stoves, and infrared radiant heaters.</i>)		<i>SLFCON_FK</i>		
4. Other heating equipment		<i>OTHTEQ_FK</i>		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other heating equipment selected ➔ D59 [Fuel oil other secondary heat equip] IF Boilers selected ➔ D60 [Fuel oil boiler heat distribution] OTHERWISE ➔ SRT [Secondary heating routing] STEP 4			

D59	Fuel oil other secondary heat equip {OthHeatSpecify_FKHT2} OTHT2X_FK
ASK	IF D58 [Fuel oil secondary heating equipment] = Other heating equipment
QUESTION TEXT – interviewer-administered	
Show Card	N/A
Question Text	N/A – other specify box – see watermark
Interviewer Instructions	N/A
QUESTION TEXT – web	
Question Text	No changes required
Respondent Instructions	N/A
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric X String Text <input type="checkbox"/> Date
RESPONSE OPTIONS	
<i>String Text</i>	
<i>Watermark</i>	
Briefly describe the other type of heating equipment	
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box X Allow Blank
NEXT	IF Boilers IN D58 [Fuel oil secondary heating equipment] ➔ D60 [Fuel oil boiler heat distribution] OTHERWISE ➔ SRT [Secondary heating routing] STEP 4

D60	Fuel oil boiler heat distribution {BoilerDistrib_FKHT2}			<i>see below</i>				
ASK	IF Boilers IN D58 [Fuel oil secondary heating equipment]							
FILL	<p>{FuelOilType} = Type or types specified in D16 [Fuel oil, diesel, or kerosene] {Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"</p>							
QUESTION TEXT – interviewer-administered								
Show Card	SHOW CARD D6							
Question Text	Looking at the list of heating distribution types on Show Card D6, please tell me which one (or ones) are used with the {FuelOilType} boiler in this {Structure}.							
Interviewer Instructions	Enter all that apply							
QUESTION TEXT – web								
Question Text	Which of these heating distribution types are used with the {FuelOilType} boiler in this {Structure}?							
Respondent Instructions	Please select all that apply.							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Central air handlers			<i>BLRAIR_FK2</i>					
2. Fan coil or induction units <i>(Fan coil units, including unit ventilators, contain a heating coil and fan to circulate air within a room. Induction units are typically connected directly to the air duct system and use nozzles to induce airflow across the heating coil and circulate the air within a room.)</i>			<i>BLRFNCL_FK2</i>					
3. Duct reheat <i>(Heating coils located within ducts)</i>			<i>BLRDUCT_FK2</i>					
4. Radiators <i>(Radiators heat by circulating hot water or steam, using convection and radiation without fans; typically located along baseboards)</i>			<i>BLRRRAD_FK2</i>					
5. Radiant floor/ceiling panels			<i>BLRRDFL_FK2</i>					
6. Water loop heat pumps			<i>BLRWTLT_FK2</i>					
7. Other distribution equipment			<i>BLROTD_FK2</i>					
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ SRT [Secondary heating routing] STEP 4							

D61	Propane secondary heating equipment {HeatEquip_PRHT2}	see below		
ASK	IF Propane IN D24 [Which other sources for heating] OR D26 [Other source for heating]			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D4			
Question Text	You mentioned that propane was also used for heating. Looking at the list of heating equipment types on Show Card D4, please tell me which one (or ones) are fueled by <u>propane</u> in this {Structure}.			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	You reported that propane was also used for heating. Which of these heating equipment types are fueled by <u>propane</u> in this {Structure}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Packaged central units (such as rooftop units, or RTUs) <i>(Packaged units contain all of their components in a single outdoor enclosure that sits on either the roof or to the side of a building. Some packaged heating units will contain air conditioning equipment. Packaged heating units may also be known as self-contained units.)</i>		PKGHT_PR		
2. Boilers that produce steam or hot water for space heating		BOILER_PR		
3. Heat pumps (other than components of a packaged central unit) <i>(These types of heat pumps may also be referred to as split system heat pumps.)</i>		HTPMPH_PR		
4. Residential-type furnaces <i>(Furnaces heat air directly and circulate the warm air through ducts and vents.)</i>		FURNAC_PR		
5. Individual space heaters <i>(Individual space heaters directly heat only the room or area where they are located. Individual space heaters are not connected to external sources of heat via pipes or air ducts. Examples include gas- or kerosene-fired unit heaters, wood stoves, and infrared radiant heaters.)</i>		SLFCON_PR		
6. Fireplaces		FIREPLC_PR		
7. Other heating equipment		OTHTEQ_PR		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other heating equipment selected → D62 [Propane other secondary heat equip] IF Boilers selected → D63 [Propane boiler heat distribution] OTHERWISE → SRT [Secondary heating routing] STEP 5			

D62	Propane other secondary heat equip {OthHeatSpecify_PRHT2} OTHT2X_PR							
ASK	IF D61 [Propane secondary heating equipment] = Other heating equipment							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	N/A – other specify box – see watermark							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>String Text</i>								
<i>Watermark</i>								
Briefly describe the other type of heating equipment								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank							
NEXT	IF Boilers IN D61 [Propane secondary heating equipment] ➔ D63 [Propane boiler heat distribution] OTHERWISE ➔ SRT [Secondary heating routing] STEP 5							

D63	Propane boiler heat distribution {BoilerDistrib_PRHT2}	see below		
ASK	IF Boilers IN D61 [Propane secondary heating equipment]			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D6			
Question Text	Looking at the list of heating distribution types on Show Card D6, please tell me which one (or ones) are used with the <u>propane boiler</u> in this {Structure}.			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	Which of these heating distribution types are used with the <u>propane boiler</u> in this {Structure}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Central air handlers		BLRAIR_PR2		
2. Fan coil or induction units <i>(Fan coil units, including unit ventilators, contain a heating coil and fan to circulate air within a room. Induction units are typically connected directly to the air duct system and use nozzles to induce airflow across the heating coil and circulate the air within a room.)</i>		BLRFNCL_PR2		
3. Duct reheat <i>(Heating coils located within ducts)</i>		BLRDUCT_PR2		
4. Radiators <i>(Radiators heat by circulating hot water or steam, using convection and radiation without fans; typically located along baseboards)</i>		BLRRRAD_PR2		
5. Radiant floor/ceiling panels		BLRRDFL_PR2		
6. Water loop heat pumps		BLRWTLT_PR2		
7. Other distribution equipment		BLROTD_PR2		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ SRT [Secondary heating routing] STEP 5			

D64	Where does steam come from {WhereSteam_HT2}	ST2LOCTN		
ASK	IF (District steam IN D24 [Which other sources for heating] OR D26 [Other source for heating]) & NOT D18 [From central plant] = Yes & NOT D19 [Purchase from offsite] = Yes			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	You mentioned that district steam was also used for heating. Does the steam come from a boiler in another building, from a utility, or from a boiler <u>inside</u> this building?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	You reported that district steam was also used for heating. Does the steam come from a boiler in another building, from a utility, or from a boiler <u>inside</u> this building?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. From a boiler in another building				
2. From a district steam utility				
3. From a boiler <u>inside</u> this building				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF From a boiler inside this building ➔ D65 [Steam boiler fuel] OTHERWISE ➔ D66 [District steam distribution]			

D65	Steam boiler fuel {SteamFuel_HT2}			<i>ST2BLFL</i>
ASK	IF D64 [Where does steam come from] = From a boiler inside the building			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	What energy source does the boiler use to make the district steam: natural gas, fuel oil, propane, coal, electricity, or some other energy source?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	What energy source does the boiler use to make the district steam?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options		Image	SAS Name	
1. Natural gas				
2. Fuel oil				
3. Propane				
4. Coal				
5. Electricity				
6. Other energy source				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ D66 [District steam distribution]			

D66	District steam distribution {HeatEquip_STHT2}			<i>see below</i>				
ASK	IF District steam IN D24 [Which other sources for heating] OR D26 [Other source for heating]							
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"							
QUESTION TEXT – interviewer-administered								
Show Card	SHOW CARD D6							
Question Text	Looking at the list of heating distribution types on Show Card D6, please tell me which one (or ones) are used with the <u>district steam</u> in this {Structure}.							
Interviewer Instructions	Enter all that apply							
QUESTION TEXT – web								
Question Text	Which of these heating distribution types are used with the <u>district steam</u> in this {Structure}?							
Respondent Instructions	Please select all that apply.							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Central air handlers			<i>AIRHAND_ST</i>					
2. Fan coil or induction units <i>(Fan coil units, including unit ventilators, contain a heating coil and fan to circulate air within a room. Induction units are typically connected directly to the air duct system and use nozzles to induce airflow across the heating coil and circulate the air within a room.)</i>			<i>FANCOIL_ST</i>					
3. Duct reheat <i>(Heating coils located within ducts)</i>			<i>REHEAT_ST</i>					
4. Radiators <i>(Radiators heat by circulating hot water or steam, using convection and radiation without fans; typically located along baseboards)</i>			<i>RADIATR_ST</i>					
5. Radiant floor/ceiling panels			<i>RADFLR_ST</i>					
6. Water loop heat pumps			<i>WTLOOP_ST</i>					
7. Other distribution equipment			<i>OTDIST_ST</i>					
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ SRT [Secondary heating routing] STEP 6							

D67	Where does hot water come from {WhereDistHW_HT2}	HW2LOCTN		
ASK	IF (District hot water IN D24 [Which other sources for heating] OR D26 [Other source for heating]) & NOT D18 [From central plant] = Yes & NOT D19 [Purchase from offsite] = Yes			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	You mentioned that district hot water was also used for heating. Does the district hot water come from a boiler in another building, from a utility, or from a boiler <u>inside</u> this building?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	You reported that district hot water was also used for heating. Does the district hot water come from a boiler in another building, from a utility, or from a boiler <u>inside</u> this building?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
Enumerated				
Response options	Image	SAS Name		
1. From a boiler in another building				
2. From a district hot water utility				
3. From a boiler <u>inside</u> this building				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF From a boiler inside this building ➔ D68 [Hot water boiler fuel] OTHERWISE ➔ D69 [District hot water distribution]			

D68	Hot water boiler fuel {DistHWFuel_HT2}			<i>HW2BLFL</i>			
ASK	IF D67 [Where does hot water come from] = From a boiler inside the building						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	What energy source does the boiler use to make the district hot water: natural gas, fuel oil, propane, coal, electricity, or some other energy source?						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	What energy source does the boiler use to make the district hot water?						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options		Image	SAS Name				
1. Natural gas							
2. Fuel oil							
3. Propane							
4. Coal							
5. Electricity							
6. Other energy source							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	➔ D69 [District hot water distribution]						

D69	District hot water distribution {HeatEquip_HWHT2} <i>see below</i>					
ASK	IF District hot water IN D24 [Which other sources for heating] OR D26 [Other source for heating]					
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"					
QUESTION TEXT – interviewer-administered						
Show Card	SHOW CARD D6					
Question Text	Looking at the list of heating distribution types on Show Card D6, please tell me which one (or ones) are used with the <u>district hot water</u> in this {Structure}.					
Interviewer Instructions	Enter all that apply					
QUESTION TEXT – web						
Question Text	Which of these heating distribution types are used with the <u>district hot water</u> in this {Structure}?					
Respondent Instructions	Please select all that apply.					
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Enumerated</i>						
Response options		Image	SAS Name			
1. Central air handlers			AIRHAND_HW			
2. Fan coil or induction units <i>(Fan coil units, including unit ventilators, contain a heating coil and fan to circulate air within a room. Induction units are typically connected directly to the air duct system and use nozzles to induce airflow across the heating coil and circulate the air within a room.)</i>			FANCOIL_HW			
3. Duct reheat <i>(Heating coils located within ducts)</i>			REHEAT_HW			
4. Radiators <i>(Radiators heat by circulating hot water or steam, using convection and radiation without fans; typically located along baseboards)</i>			RADIATOR_HW			
5. Radiant floor/ceiling panels			RADFLR_HW			
6. Water loop heat pumps			WTLOOP_HW			
7. Other distribution equipment			OTDIST_HW			
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	➔ SRT [Secondary heating routing] STEP 7					

D70	Wood secondary heating equipment {HeatEquip_WOHT2}	<i>see below</i>		
ASK	IF Wood IN D24 [Which other sources for heating] OR D26 [Other source for heating]			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D7			
Question Text	You mentioned that wood was also used for heating. Looking at the list of heating equipment types on Show Card D7, please tell me which one (or ones) are fueled by <u>wood</u> in this {Structure}?			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	You reported that wood was also used for heating. Which of these heating equipment types are fueled by <u>wood</u> in this {Structure}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options		Image		
1. Residential-type furnaces (<i>Furnaces heat air directly and circulate the warm air through ducts and vents.</i>)		<i>FURNAC_WO</i>		
2. Individual space heaters (<i>Individual space heaters directly heat only the room or area where they are located. Individual space heaters are not connected to external sources of heat via pipes or air ducts. Examples include gas- or kerosene-fired unit heaters, wood stoves, and infrared radiant heaters.</i>)		<i>SLFCON_WO</i>		
3. Fireplaces		<i>FIREPLC_WO</i>		
4. Other heating equipment		<i>OTHTEQ_WO</i>		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other heating equipment selected ➔ D71 [Wood other secondary heat equip] OTHERWISE ➔ SRT [Secondary heating routing] STEP 8			

D71	Wood other secondary heat equip {OthHeatSpecify_WOHT2} OTHT2X_WO							
ASK	IF D70 [Wood secondary heating equipment] = Other heating equipment							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	N/A – other specify box – see watermark							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>String Text</i>								
<i>Watermark</i>								
Briefly describe the other type of heating equipment								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank							
NEXT	OTHERWISE ➔ SRT [Secondary heating routing] STEP 8							

D72	Coal secondary heating equipment {HeatEquip_COHT2}			<i>see below</i>				
ASK	IF Coal IN D24 [Which other sources for heating] OR D26 [Other source for heating]							
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"							
QUESTION TEXT – interviewer-administered								
Show Card	SHOW CARD D8							
Question Text	You mentioned that coal was also used for heating. Looking at the list of heating equipment types on Show Card D8, please tell me which one (or ones) are fueled by <u>coal</u> in this {Structure}.							
Interviewer Instructions	Enter all that apply							
QUESTION TEXT – web								
Question Text	You reported that coal was also used for heating. Which of these heating equipment types are fueled by <u>coal</u> in this {Structure}?							
Respondent Instructions	Please select all that apply.							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Boilers that produce steam or hot water for space heating			<i>BOILER_CO</i>					
2. Residential-type furnaces (<i>Furnaces heat air directly and circulate the warm air through ducts and vents.</i>)			<i>FURNAC_CO</i>					
3. Other heating equipment			<i>OTHTEQ_CO</i>					
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Other heating equipment selected ➔ D73 [Coal other secondary heat equip] IF Boilers selected ➔ D74 [Coal boiler heat distribution] OTHERWISE ➔ SRT [Secondary heating routing] STEP 9							

D73	Coal other secondary heat equip {OthHeatSpecify_COHT2} OTHT2X_CO		
ASK	IF D72 [Coal secondary heating equipment] = Other heating equipment		
QUESTION TEXT – interviewer-administered			
Show Card	N/A		
Question Text	N/A – other specify box – see watermark		
Interviewer Instructions	N/A		
QUESTION TEXT – web			
Question Text	No changes required		
Respondent Instructions	N/A		
ITEM TYPE	<input type="checkbox"/> Enumerated	<input type="checkbox"/> Numeric	<input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date
RESPONSE OPTIONS			
<i>String Text</i>			
<i>Watermark</i>			
Briefly describe the other type of heating equipment			
NONRESPONSE	<input type="checkbox"/> Explicit DK	<input type="checkbox"/> Explicit RF	<input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank
NEXT	IF Boilers IN D72 [Coal secondary heating equipment] → D74 [Coal boiler heat distribution] OTHERWISE → SRT [Secondary heating routing] STEP 9		

D74	Coal boiler heat distribution {BoilerDistrib_COHT2} see below					
ASK	IF Boilers IN D72 [Coal secondary heating equipment]					
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"					
QUESTION TEXT – interviewer-administered						
Show Card	SHOW CARD D6					
Question Text	Looking at the list of heating distribution types on Show Card D6, please tell me which one (or ones) are used with the <u>coal boiler</u> in this {Structure}.					
Interviewer Instructions	Enter all that apply					
QUESTION TEXT – web						
Question Text	Which of these heating distribution types are used with the <u>coal boiler</u> in this {Structure}?					
Respondent Instructions	Please select all that apply.					
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Enumerated</i>						
Response options		Image	SAS Name			
1. Central air handlers			<i>BLRAIR_CO2</i>			
2. Fan coil or induction units <i>(Fan coil units, including unit ventilators, contain a heating coil and fan to circulate air within a room. Induction units are typically connected directly to the air duct system and use nozzles to induce airflow across the heating coil and circulate the air within a room.)</i>			<i>BLRFNCL_CO2</i>			
3. Duct reheat <i>(Heating coils located within ducts)</i>			<i>BLRDUCT_CO2</i>			
4. Radiators <i>(Radiators heat by circulating hot water or steam, using convection and radiation without fans; typically located along baseboards)</i>			<i>BLRRRAD_CO2</i>			
5. Radiant floor/ceiling panels			<i>BLRRDFL_CO2</i>			
6. Water loop heat pumps			<i>BLRWTLT_CO2</i>			
7. Other distribution equipment			<i>BLROTD_CO2</i>			
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	➔ SRT [Secondary heating routing] STEP 9					

D75	Solar thermal secondary heating equipment {HeatEquip_SOTHERMHT2} SOHT_HT2X
ASK	IF Solar thermal IN D24 [Which other sources for heating] OR D26 [Other source for heating]
QUESTION TEXT – interviewer-administered	
Show Card	N/A
Question Text	You mentioned that solar thermal was also used for heating. Please describe the solar thermal heating system.
Interviewer Instructions	N/A
QUESTION TEXT – web	
Question Text	You reported that solar thermal was also used for heating. Please describe the solar thermal heating system.
Respondent Instructions	N/A
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date
RESPONSE OPTIONS	
<i>String Text</i>	
<i>Watermark</i>	
None	
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank
NEXT	➔ SRT [Secondary heating routing] STEP 10

D76	Other source secondary heating equipment {HeatEquip_OTHT2} see below	
ASK	IF {Other} IN D24 [Which other sources for heating] OR D26 [Other source for heating] = Some other energy source	
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"	
QUESTION TEXT – interviewer-administered		
Show Card	SHOW CARD D9	
Question Text	You mentioned that some other energy source was also used for heating. Looking at the list of heating equipment types on Show Card D9, please tell me which one (or ones) are fueled by the <u>other energy source</u> in this {Structure}.	
Interviewer Instructions	Enter all that apply	
QUESTION TEXT – web		
Question Text	You reported that some other energy source was also used for heating. Which of these heating equipment types are fueled by the <u>other energy source</u> in this {Structure}?	
Respondent Instructions	Please select all that apply.	
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date	
RESPONSE OPTIONS		
<i>Enumerated</i>		
Response options	Image	SAS Name
1. Packaged central units (such as rooftop units, or RTUs) <i>(Packaged units contain all of their components in a single outdoor enclosure that sits on either the roof or to the side of a building. Some packaged heating units will contain air conditioning equipment. Packaged heating units may also be known as self-contained units.)</i>		<i>PKGHT_OT</i>
2. Boilers that produce steam or hot water for space heating		<i>BOILER_OT</i>
3. Residential-type furnaces <i>(Furnaces heat air directly and circulate the warm air through ducts and vents.)</i>		<i>FURNAC_OT</i>
4. Individual space heaters <i>(Individual space heaters directly heat only the room or area where they are located. Individual space heaters are not connected to external sources of heat via pipes or air ducts. Examples include gas- or kerosene-fired unit heaters, wood stoves, and infrared radiant heaters.)</i>		<i>SLFCON_OT</i>
5. Other heating equipment		<i>OTHTEQ_OT</i>
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank	
NEXT	IF Other heating equipment selected → D77 [Other source other secondary heat] IF Boilers selected → D78 [Other source boiler heat distribution] OTHERWISE → ART [Heating follow-up routing]	

D77	Other source other secondary heat equip {OthHeatSpecify_OTHT2} OTHT2X_OT							
ASK	IF D76 [Other source secondary heating equipment] = Other heating equipment							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	N/A – other specify box – see watermark							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>String Text</i>								
Watermark								
Briefly describe the other type of heating equipment								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank							
NEXT	IF Boilers IN D76 [Other source secondary heating equipment] ➔ D78 [Other source boiler heat distribution] OTHERWISE ➔ ART [Heating follow-up routing]							

D78	Other source boiler heat distribution {BoilerDistrib_OTHT2} see below					
ASK	IF Boilers IN D76 [Other source secondary heating equipment]					
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"					
QUESTION TEXT – interviewer-administered						
Show Card	SHOW CARD D6					
Question Text	Looking at the list of heating distribution types on Show Card D6, please tell me which one (or ones) are used with the <u>other energy source boiler</u> in this {Structure}.					
Interviewer Instructions	Enter all that apply					
QUESTION TEXT – web						
Question Text	Which of these heating distribution types are used with the <u>other energy source boiler</u> in this {Structure}?					
Respondent Instructions	Please select all that apply.					
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Enumerated</i>						
Response options	Image	SAS Name				
1. Central air handlers		<i>BLRAIR_OT2</i>				
2. Fan coil or induction units <i>(Fan coil units, including unit ventilators, contain a heating coil and fan to circulate air within a room. Induction units are typically connected directly to the air duct system and use nozzles to induce airflow across the heating coil and circulate the air within a room.)</i>		<i>BLRFNCL_OT2</i>				
3. Duct reheat <i>(Heating coils located within ducts)</i>		<i>BLRDUCT_OT2</i>				
4. Radiators <i>(Radiators heat by circulating hot water or steam, using convection and radiation without fans; typically located along baseboards)</i>		<i>BLRRRAD_OT2</i>				
5. Radiant floor/ceiling panels		<i>BLRRDFL_OT2</i>				
6. Water loop heat pumps		<i>BLRWTLT_OT2</i>				
7. Other distribution equipment		<i>BLROTD_OT2</i>				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	➔ ART [Heating follow-up routing]					

ART	Heating follow-up routing	
NEXT	STEP 1	IF (Furnaces IN D33 [Elec main heating equipment] OR D52 [Elec secondary heating equipment]) & Furnaces for any other source main or secondary heating equipment → D79 [Furnace with >1 source]
	STEP 2	IF Boilers for two or more main or secondary heating equipment → D80 [Boiler with >1 source]
	STEP 3	IF (Packaged IN D33 [Elec main heating equipment] OR D52 [Elec secondary heating equipment]) & NOT Packaged for any other source main or secondary heating equipment → D81 [Heat pump in packaged unit]
	STEP 4	IF (Heat pumps IN D35 [Nat gas main heating equipment] OR D39 [Propane main heating equipment] OR D55 [Nat gas secondary heating equipment] OR D61 [Propane secondary heating equipment]) & NOT (Heat pumps IN D33 [Elec main heating equipment] OR D52 [Elec secondary heating equipment]) → D82 [Heat pump with no elec]
	STEP 5	IF Heat pumps IN D33 [Elec main heating equipment] OR D52 [Elec secondary heating equipment]) OR D82 [Heat pump with no elec] = Heat pumps uses only electricity → D83 [Heat pumps are PTHPs]
	STEP 6	IF (D81 [Heat pump in packaged unit] = Yes & NOT Heat pump for any main or secondary heating equipment) OR D82 [Heat pump with no elec] = Heat pump uses only {GasType}; Heat pump uses both {GasType} and electricity; OR DK/Missing OR D83 [Heat pumps are PTHPs] = No; Heat pumps are both PTHP and split system; OR DK/Missing → D84 [Heat pump heating type]
	STEP 7	IF Individual space heaters IN D33 [Elec main heating equipment] OR D52 [Elec secondary heating equipment] → D86 [Space heaters are PTHPs]
	STEP 8	IF Building OR Mall interview & More than one selected heating source/equipment combination → D87 [Percent heated by type]
	STEP 9	IF Building OR Mall interview & Only one selected heating equipment & NOT District steam or hot water & (A24 [Year of construction] < 2000 OR A25 [Year of construction category] ≠ 2000 to 2009 OR 2010 to 2012 OR 2013 to 2018) → D89 [Main heating replaced]
	STEP 10	IF Building OR Mall interview & D4 [Cooling] = Yes → D90 [Percent cooled] IF Establishment interview & D4 [Cooling] = Yes & NOT District chilled water used → D91 [Electricity only for cooling] IF Establishment interview & D4 [Cooling] = Yes & NOT Electricity used & NOT District chilled water used → D92 [Sources for cooling] IF Establishment interview & D4 [Cooling] = Yes & District chilled water used → D94 [EL or CW for cooling] IF Mall OR Establishment interview → D121 [Who has temperature control] OTHERWISE → D122 [Building automation system]

D79	Furnace with >1 source {FurnaceWith2Sources}	FURN2SRC		
ASK	IF (Furnaces IN D33 [Elec main heating equipment] OR D52 [Elec secondary heating equipment]) & Furnaces for any other source main or secondary heating equipment			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment" {SecondFuel} = The non-electric energy source reported with a furnace			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	You reported that this {Structure} runs a furnace with electricity <u>and</u> {SecondFuel}. Is the electricity for components such as the fans, igniter, or thermostat, or are there two or more furnaces that run on different energy sources?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
Enumerated				
Response options	Image	SAS Name		
1. Electricity is for fans, igniter, thermostat, etc.				
2. Two or more furnaces				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ ART [Heating follow-up routing] STEP 2			

D80	Boiler with >1 source {BoilerWith2Sources}			BOIL2SRC				
ASK	IF Boilers for Two or more main or secondary heating equipment							
FILL	<p>{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment" {BoilerFuels} = Sources reported with boiler {ElectricityBoiler} IF Electricity reported as a boiler fuel = "Is the electricity used to run components such as fans or pumps, is this one boiler that can switch fuels," OTHERWISE = "Is this one boiler that can switch fuels" {ElectricityResponse} IF Electricity reported as a boiler fuel = "Electricity is for fans, pumps, controls, thermostat, etc." OTHERWISE = BLANK</p>							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	You reported that this {Structure} runs a boiler with {BoilerFuels}. {ElectricityBoiler} or is it two or more boilers that run on different energy sources?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options			Image	SAS Name				
1. {ElectricityResponse}								
2. The boiler can switch fuels								
3. Two or more boilers								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ ART [Heating follow-up routing] STEP 3							

D81	Heat pump in packaged unit {HeatPumpInPackagedUnit}			PKGHPH				
ASK	IF (Packaged IN D33 [Elec main heating equipment] OR D52 [Elec secondary heating equipment]) & NOT Packaged for any other source main or secondary heating equipment							
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	You reported that this {Structure} uses a packaged central unit. Does the packaged unit contain a heat pump?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Yes								
2. No								
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ ART [Heating follow-up routing] STEP 4							

D82	Heat pump with no elec {HeatPumpWithNoEL}	HPCHKEL		
ASK	IF (Heat pumps IN D35 [Nat gas main heating equipment] OR D39 [Propane main heating equipment] OR D55 [Nat gas secondary heating equipment] OR D61 [Propane secondary heating equipment]) & NOT (Heat pumps IN D33 [Elec main heating equipment] OR D52 [Elec secondary heating equipment])			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment" {GasType} = "natural gas" or "propane" based on what type of heat pump is reported			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	You reported that this {Structure} runs a heat pump with only {GasType}. This is fairly unusual. Does the heat pump use <u>only</u> {GasType}, is it a dual-fuel/hybrid heat pump that also uses electricity, or does it <u>only</u> use electricity?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
Enumerated				
Response options	Image	SAS Name		
1. Heat pump uses <u>only</u> {GasType}				
2. Heat pump is both {GasType} and electricity (dual-fuel/hybrid)				
3. Heat pump uses <u>only</u> electricity				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ ART [Heating follow-up routing] STEP 5			

D83	Heat pumps are PTHPs {HeatPump_PTHP}			HPHPTHP				
ASK	IF Heat pumps IN D33 [Elec main heating equipment] OR D52 [Elec secondary heating equipment]) OR D82 [Heat pump with no elec] = Heat pumps uses only electricity							
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	You reported that this {Structure} uses heat pumps. Are the heat pumps "Packaged Terminal Heat Pumps"? These are also referred to as PTHPs.							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
3. Heat pumps are both PTHP and split system								
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ ART [Heating follow-up routing] STEP 6							

D84	Heat pump heating type {HeatPumpType}	<i>see below</i>		
ASK	IF (D81 [Heat pump in packaged unit] = Yes & NOT Heat pump for any main or secondary heating equipment) OR D82 [Heat pump with no elec] = Heat pump uses only {GasType}; Heat pump uses both {GasType} and electricity; OR DK/Missing OR D83 [Heat pumps are PTHPs] = No; Heat pumps are both PTHP and split system; OR DK/Missing			
FILL	{HeatPumpType} IF D81 [Heat pump in packaged unit] = Yes = "type of heat pump is in the packaged unit?" OTHERWISE = "types of heat pumps are used in this {Structure}?" {Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D10			
Question Text	Looking at the list on Show Card D10, which {HeatPumpType}			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	Which {HeatPumpType}			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
Enumerated				
Response options	Image	SAS Name		
1. Air source heat pump		<i>HPHAIR</i>		
2. Ground source or ground water heat pump (geothermal)		<i>HPHGRD</i>		
3. Combination air source and geothermal		<i>HPHDUAL</i>		
4. Water loop heat pump		<i>HPHWTR</i>		
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ D85 [VRF system]			

D85	VRF system {VRFSYSTEM}	HPHVRF		
ASK	IF (D81 [Heat pump in packaged unit] = Yes & NOT Heat pump for any main or secondary heating equipment) OR D82 [Heat pump with no elec] = Heat pump uses only {GasType}; Heat pump uses both {GasType} and electricity; OR DK/Missing OR D83 [Heat pumps are PTHPs] = No; Heat pumps are both PTHP and split system; OR DK/Missing			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Is the heat pump system a variable refrigerant flow, or VRF, system?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Yes				
2. No				
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ ART [Heating follow-up routing] STEP 7			

D86	Space heaters are PTHPs {SpaceHeat_PTHP}			SPHTPTHP				
ASK	IF Individual space heaters IN D33 [Elec main heating equipment] OR D52 [Elec secondary heating equipment]							
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	You reported that this {Structure} uses individual space heaters. Are the space heaters "Packaged Terminal Heat Pumps"? These are also referred to as PTHPs.							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Yes								
2. No								
3. Space heaters are both PTHP and other types								
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ ART [Heating follow-up routing] STEP 8							

D87	Percent heated by type {HtEqPct}	various		
ASK	IF Building OR Mall interview & More than one selected heating source/equipment combination			
FILL	<p>{Explanation} IF D20 [Percent heated] ≠ 100 = "This question is only referring to the <u>heated</u> portion of the floorspace, so these percentages must add up to at least 100, but since more than one type of equipment can heat the same area, it is also possible for them to add up to <u>more</u> than 100." IF D20 [Percent heated] = 100 = "These percentages must add up to at least 100, but since more than one type of equipment can heat the same area, it is also possible for them to add up to <u>more</u> than 100."</p> <p>{SourceEquipment} Combination of selected heating source and equipment, for example: "Electric furnace"</p>			
INTRO TEXT	<p>All selected heating source/equipment combinations are one screen, with this introduction:</p> <p>The next questions are about the percentage of floorspace heated by each type of equipment. Please keep in mind: {Explanation}</p> <p>What percentage of the heated area in this building is served by each of the following equipment types? If you're not sure, please provide your best estimate.</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	{SourceEquipment}			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
1 to 100	%	1 to 100		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	<p>IF there are equal maximum percents OR any percents are missing ➔ D88 [Main heating equipment]</p> <p>IF Main heating equipment NOT District steam or hot water & (A24 [Year of construction] < 2000 OR A25 [Year of construction category] ≠ 2000 to 2009 OR 2010 to 2012 OR 2013 to 2018) ➔ D89 [Main heating replaced]</p> <p>OTHERWISE ➔ ART [Heating follow-up routing] STEP 10</p>			

D88	Main heating equipment {MainHeatSelect}	<i>MAINHTX</i>		
ASK	IF D87 [Percent heated by type] has equal maximum percents OR any percents are missing			
FILL	{SourceEquipmentMax} = Each source/equipment combination with an equal maximum percent (or all source/equipment combinations if any percents are missing), for example: "Electric furnace"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Which of these do you consider to be the main heating equipment for this building?			
Interviewer Instructions	Read choices below			
QUESTION TEXT – web				
Question Text	Which of the following equipment types do you consider to be the main heating equipment for this building?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. {SourceEquipmentMax1}				
2. {SourceEquipmentMax2}				
3. {Etc.}				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Main heating equipment known & NOT District steam or hot water & (A24 [Year of construction] < 2000 OR A25 [Year of construction category] ≠ 2000 to 2009 OR 2010 to 2012 OR 2013 to 2018) ➔ D89 [Main heating replaced] OTHERWISE ➔ ART [Heating follow-up routing] STEP 10			

D89	Main heating replaced {ReplaceHtEq}		<i>NWMNHT</i>			
ASK	IF Building OR Mall interview & Main heating equipment known & NOT District steam or hot water & (A24 [Year of construction] < 2000 OR A25 [Year of construction category] ≠ 2000 to 2009 OR 2010 to 2012 OR 2013 to 2018)					
FILL	{MainSourceEquipment} Combination of main heating source and equipment, for example: “electric furnace”					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	Has the {MainSourceEquipment} been replaced or added since the year 2000?					
Interviewer Instructions	N/A					
QUESTION TEXT – web						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Enumerated</i>						
Response options	Image	SAS Name				
1. Yes						
2. No						
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	➔ ART [Heating follow-up routing] STEP 10					

D90	Percent cooled {CoolPct}	COOLP		
ASK	IF Building OR Mall interview & D4 [Cooling] = Yes			
FILL	{SqFt} IF A6 [Square footage] known = "A6 [Square footage] square feet" IF A6 [Square footage] = DK/Missing = "floorspace"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	<p>These next questions are about cooling in this building.</p> <p>What percentage of the {SqFt} in this building was cooled by air conditioning equipment during 2018? If you're not sure, please provide your best estimate.</p>			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
0 to 100	%	0 to 100		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	<p>IF 0 THEN:</p> <p>IF D20 [Percent heated] ≠ 0 & Building interview ➔ D122 [Building automation system]</p> <p>IF D20 [Percent heated] ≠ 0 & Mall interview ➔ D121 [Who has temperature control]</p> <p>IF D7 [Water heating] = Yes ➔ D131 [Sources for water heating]</p> <p>IF D10 [Cooking] = Yes ➔ D135 [Sources for cooking]</p> <p>IF D11 [Manufacturing] = Yes ➔ D137 [Sources for manufacturing]</p> <p>IF D17 [Type of solar] = Solar panels ➔ D142 [Generation technologies other than solar]</p> <p>OTHERWISE ➔ D139 [Electricity generation capability]</p> <p>OTHERWISE:</p> <p>IF Electricity used & NOT District chilled water used ➔ D91 [Electricity only for cooling]</p> <p>IF Establishment interview & D4 [Cooling] = Yes & NOT Electricity used & NOT District chilled water used ➔ D92 [Sources for cooling]</p> <p>IF District chilled water used ➔ D94 [EL or CW for cooling]</p> <p>OTHERWISE ➔ D92 [Sources for cooling]</p>			

D91	Electricity only for cooling {ElecCoolSource} see below					
ASK	IF D4 [Cooling] = Yes & Electricity used & NOT District chilled water used & NOT D90 [Percent cooled] = 0					
FILL	<p>{Intro} IF Interview = Establishment = "These next questions are about cooling in this establishment." IF Interview = Building OR Mall = BLANK</p> <p>{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"</p>					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	<p>{Intro}</p> <p>Was electricity the only energy source used for air conditioning in this {Structure} in 2018?</p>					
Interviewer Instructions	N/A					
QUESTION TEXT – web						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Enumerated</i>						
Response options			Image			
1. Yes, electricity was the only energy source for air conditioning			ELCOOL			
2. No, some other energy source was used in addition to or instead of electricity for air conditioning						
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	<p>IF Yes ➔ CRT [Cooling routing] IF No ➔ D92 [Sources for cooling] IF Missing THEN: IF Mall OR Establishment interview ➔ D121 [Who has temperature control] OTHERWISE ➔ D122 [Building automation system]</p>					

D92	Sources for cooling {OtCoolSourceAll}	<i>see below</i>		
ASK	IF D4 [Cooling] = Yes & (D91 [Electricity only for cooling] = No OR (NOT Electricity used & NOT District chilled water used & NOT D90 [Percent cooled] = 0))			
FILL	{Intro} IF Interview = Establishment & NOT Electricity used & NOT District chilled water used = "These next questions are about cooling in this establishment." OTHERWISE = BLANK			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	{Intro} Which energy source or sources were used for air conditioning?			
Interviewer Instructions	Read choices if necessary Enter all that apply			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Electricity		<i>ELCOOL</i>		
2. Natural gas		<i>NGCOOL</i>		
3. Fuel Oil/Diesel/Kerosene		<i>FKCOOL</i>		
4. Propane		<i>PRCOOL</i>		
5. District steam		<i>STCOOL</i>		
6. District chilled water		<i>CWCOOL</i>		
7. Some other energy source		<i>OTCOOL</i>		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Some other energy source selected ➔ D93 [Other type of cooling source] IF Missing THEN: IF Mall OR Establishment interview ➔ D121 [Who has temperature control] OTHERWISE ➔ D122 [Building automation system] OTHERWISE ➔ CRT [Cooling routing]			

D93	Other type of cooling source {OtCoolSourceAllSp}			OTCOOL1X
ASK	IF Some other energy source IN D92 [Sources for cooling]			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	N/A – other specify box – see watermark			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>String Text</i>				
<i>Watermark</i>				
Briefly describe the other energy source				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	 CRT [Cooling routing]			

D94	EL or CW for cooling {ELCWCoolSource}	see below		
ASK	IF D4 [Cooling] = Yes & District chilled water used & NOT D90 [Percent cooled] = 0			
FILL	{Intro} IF Interview = Establishment = “These next questions are about cooling in this establishment.” OTHERWISE = BLANK {ACSourceList} IF Electricity used = “(...electricity or district chilled water?)” IF NOT Electricity used = “(Was district chilled water used?)” {Electricity} = If electricity is used it appears.			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	{Intro} Which energy sources were used for air conditioning? {ACSourceList}			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	{Intro} Which energy sources were used for air conditioning?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options		Image		
1. {Electricity}		<i>ELCOOL</i>		
2. District chilled water		<i>CWCOOL</i>		
3. Some other energy source		<i>OTCOOL</i>		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Some other energy source selected ➔ D95 [Other source for cooling] IF Missing THEN: IF Mall OR Establishment interview ➔ D121 [Who has temperature control] OTHERWISE ➔ D122 [Building automation system] OTHERWISE ➔ CRT [Cooling routing]			

D95	Other source for cooling {OtCoolSource}			<i>see below</i>				
ASK	IF Some other energy source IN D94 [EL or CW for cooling]							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	What was the other energy source used for air conditioning?							
Interviewer Instructions	Read choices if necessary							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Electricity				<i>ELCOOL</i>				
2. Natural gas				<i>NGCOOL</i>				
3. Fuel Oil/Diesel/Kerosene				<i>FKCOOL</i>				
4. Propane				<i>PRCOOL</i>				
5. District steam				<i>STCOOL</i>				
6. District chilled water				<i>CWCOOL</i>				
7. Some other energy source				<i>OTCOOL</i>				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Some other energy source selected ➔ D96 [Other type of cooling source] IF Missing THEN: IF Mall OR Establishment interview ➔ D121 [Who has temperature control] OTHERWISE ➔ D122 [Building automation system] OTHERWISE ➔ CRT [Cooling routing]							

D96	Other type of cooling source {OtCoolSourceSp}			OTCOOL2X
ASK	IF Some other energy source IN D95 [Other source for cooling]			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	N/A – other specify box – see watermark			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>String Text</i>				
<i>Watermark</i>				
Briefly describe the other energy source				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	 CRT [Cooling routing]			

CRT	Cooling routing	
NEXT	STEP 1	IF D91 [Electricity only for cooling] = Yes OR (Electricity IN D92 [Sources for cooling] OR D94 [EL or CW for cooling] OR D95 [Other source for cooling]) ➔ D97 [Elec cooling equipment]
	STEP 2	IF Natural gas IN D92 [Sources for cooling] OR D95 [Other source for cooling] ➔ D104 [Nat gas cooling equipment]
	STEP 3	IF Fuel oil/Diesel/Kerosene IN D92 [Sources for cooling] OR D95 [Other source for cooling] ➔ D106 [Fuel oil cooling equipment]
	STEP 4	IF Propane IN D92 [Sources for cooling] OR D95 [Other source for cooling] ➔ D108 [Propane cooling equipment]
	STEP 5	IF District steam IN D92 [Sources for cooling] OR D95 [Other source for cooling] ➔ D110 [District steam cooling equipment]
	STEP 6	IF Some other energy source IN D92 [Sources for cooling] OR D95 [Other source for cooling] ➔ D112 [Other source other cool equip specify]
	STEP 7	IF District chilled water IN D92 [Sources for cooling] OR D94 [EL or CW for cooling] OR D95 [Other source for cooling] ➔ D113 [Where does CW come from]
	STEP 8	➔ BRT [Cooling follow-up routing]

D97	Elec cooling equipment {CoolEquip_EL}	<i>see below</i>		
ASK	IF D91 [Electricity only for cooling] = Yes OR (Electricity IN D92 [Sources for cooling] OR D94 [EL or CW for cooling] OR D95 [Other source for cooling])			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D11			
Question Text	Looking at the list of electric air conditioning equipment types on Show Card D11, please tell me which types are used in this {Structure}.			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	Which of these <u>electric</u> air conditioning equipment types are used in this {Structure}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Packaged air conditioning units (such as rooftop units, or RTUs) <i>(Packaged units contain all of their components in a single outdoor enclosure that sits on either the roof or to the side of a building. Packaged air conditioning units may also be known as self-contained units or packaged direct expansion (DX) units.)</i>		<i>PKGCL_EL</i>		
2. Central chillers that chill water for air conditioning		<i>CHILLR_EL</i>		
3. Heat pumps for air conditioning (other than components of a packaged central unit) <i>(These types of heat pumps may also be referred to as split system heat pumps.)</i>		<i>HTPMPC_EL</i>		
4. Residential-type split system air conditioners <i>(Central split system air conditioners cool air directly and use a fan or blower to circulate it through a system of air ducts without using chilled water. These systems consist of an outdoor condensing unit connected by refrigerant lines to an indoor evaporator or cooling coil.)</i>		<i>RCAC_EL</i>		
5. Individual room or portable air conditioners <i>(Room or portable air conditioners directly cool only the room or area where they are located. Room air conditioners are self-contained units installed in or through walls or windows, and include Packaged Terminal Air Conditioners (PTACs), Packaged Terminal Heat Pumps (PTHPs), and window air conditioning units. Portable air conditioners are freestanding with a tube to vent warm air outside.)</i>		<i>ACWNWL_EL</i>		
6. "Swamp" coolers or evaporative coolers <i>(A unit that uses the cooling effect of water evaporation to cool air.)</i>		<i>EVAPCL_EL</i>		
7. Other air conditioning equipment		<i>OTCLEQ_EL</i>		

NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank
NEXT	<p>IF Other air conditioning equipment selected ➔ D98 [Elec other cool equip specify]</p> <p>IF Heat pumps selected & NOT Heat pumps for any main or secondary heating equipment ➔ D100 [Heat pumps are PTHPs]</p> <p>IF Residential-type split system air conditioners selected ➔ D102 [VRF system]</p> <p>IF Individual room or portable air conditioners selected ➔ D103 [Individual AC are PTHPs]</p> <p>OTHERWISE ➔ CRT [Cooling routing] STEP 2</p>

D98	Elec other cool equip specify {OthCoolSpecify_EL}			OTCLEQX_EL			
ASK	IF Other air conditioning equipment IN D97 [Elec cooling equipment]						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	N/A – other specify box – see watermark						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>String Text</i>							
<i>Watermark</i>							
Briefly describe the other type of air conditioning equipment							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank						
NEXT	IF Heat pumps IN D97 [Elec cooling equipment] & NOT Heat pumps for any main or secondary heating equipment ➔ D100 [Heat pumps are PTHPs] IF Residential-type split system air conditioners IN D97 [Elec cooling equipment] ➔ D102 [VRF system] IF Individual room or portable air conditioners IN D97 [Elec cooling equipment] ➔ D103 [Individual AC are PTHPs] OTHERWISE ➔ CRT [Cooling routing] STEP 2						

D100	Heat pumps are PTHPs {CoolPump_PTHP}			HPCPTHP				
ASK	IF Heat pumps IN D97 [Elec cooling equipment] & NOT Heat pumps for any main or secondary heating equipment							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Are the heat pumps “Packaged Terminal Heat Pumps”? These are also referred to as PTHPs.							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
3. Heat pumps are both PTHP and split system								
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF No; Heat pumps are both PTHP and split system; OR DK/Missing ➔ D101 [Heat pump cooling type] OTHERWISE: IF Residential-type split system air conditioners IN D97 [Elec cooling equipment] ➔ D102 [VRF system] IF Individual room or portable air conditioners IN D97 [Elec cooling equipment] ➔ D103 [Individual AC are PTHPs] OTHERWISE ➔ CRT [Cooling routing] STEP 2							

D101	Heat pump cooling type {CoolPumpType}			<i>see below</i>				
ASK	IF D100 [Heat pumps are PTHPs] = No; Heat pumps are both PTHP and split system; OR DK/Missing							
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"							
QUESTION TEXT – interviewer-administered								
Show Card	SHOW CARD D10							
Question Text	Looking at the list on Show Card D10, which types of heat pumps are used in this {Structure}?							
Interviewer Instructions	Enter all that apply							
QUESTION TEXT – web								
Question Text	Which of these types of heat pumps are used in this {Structure}?							
Respondent Instructions	Please select all that apply.							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Air source heat pump				<i>HPCAIR</i>				
2. Ground source or ground water heat pump (geothermal)				<i>HPCGRD</i>				
3. Combination air source and geothermal				<i>HPCDUAL</i>				
4. Water loop heat pump				<i>HPCWTR</i>				
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ D102 [VRF system]							

D102	VRF system {VRFSysCool}			ACVRF				
ASK	IF Residential-type split system air conditioners IN D97 [Elec cooling equipment] OR D100 [Heat pumps are PTHPs] = No; Heat pumps are both PTHP and split system; OR DK/Missing							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Is the air conditioning system a variable refrigerant flow, or VRF, system?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Individual room or portable air conditioners IN D97 [Elec cooling equipment] → D103 [Individual AC are PTHPs] OTHERWISE → CRT [Cooling routing] STEP 2							

D103	Individual AC are PTHPs {RoomAC_PTHP}			<i>RMACPTHP</i>
ASK	IF Individual room or portable air conditioners IN D97 [Elec cooling equipment]			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Are the individual air conditioners "Packaged Terminal Heat Pumps"? These are also referred to as PTHPs.			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options		Image	SAS Name	
1. Yes				
2. No				
3. Individual air conditioners are both PTHP and other types				
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ CRT [Cooling routing] STEP 2			

D104	Nat gas cooling equipment {CoolEquip_NG}	<i>see below</i>		
ASK	IF Natural gas IN D92 [Sources for cooling] OR D95 [Other source for cooling]			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D12			
Question Text	Looking at the list of air conditioning equipment types on Show Card D12, please tell me which types are fueled by <u>natural gas</u> in this {Structure}.			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	Which of these air conditioning equipment types are fueled by <u>natural gas</u> in this {Structure}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Central chillers that chill water for air conditioning		<i>CHILLR_NG</i>		
2. Other air conditioning equipment		<i>OTCLEQ_NG</i>		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other air conditioning equipment selected → D105 [Nat gas other cool equip specify] OTHERWISE → CRT [Cooling routing] STEP 3			

D105	Nat gas other cool equip specify {OthCoolSpecify_NG} OTCLEQX_NG		
ASK	IF Other air conditioning equipment IN D104 [Nat gas cooling equipment]		
QUESTION TEXT – interviewer-administered			
Show Card	N/A		
Question Text	N/A – other specify box – see watermark		
Interviewer Instructions	N/A		
QUESTION TEXT – web			
Question Text	No changes required		
Respondent Instructions	N/A		
ITEM TYPE	<input type="checkbox"/> Enumerated	<input type="checkbox"/> Numeric	<input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date
RESPONSE OPTIONS			
<i>String Text</i>			
<i>Watermark</i>			
Briefly describe the other type of air conditioning equipment			
NONRESPONSE	<input type="checkbox"/> Explicit DK	<input type="checkbox"/> Explicit RF	<input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank
NEXT	➔ CRT [Cooling routing] STEP 3		

D106	Fuel oil cooling equipment {CoolEquip_FK}	<i>see below</i>		
ASK	IF Fuel oil/Diesel/Kerosene IN D92 [Sources for cooling] OR D95 [Other source for cooling]			
FILL	{FuelOilType} = Type or types specified in D16 [Fuel oil, diesel, or kerosene] {Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D12			
Question Text	Looking at the list of air conditioning equipment types on Show Card D12, please tell me which types are fueled by {FuelOilType} in this {Structure}.			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	Which of these air conditioning equipment types are fueled by {FuelOilType} in this {Structure}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Central chillers that chill water for air conditioning		<i>CHILLR_FK</i>		
2. Other air conditioning equipment		<i>OTCLEQ_FK</i>		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other air conditioning equipment selected → D107 [Fuel oil other cool equip specify] OTHERWISE → CRT [Cooling routing] STEP 4			

D107	Fuel oil other cool equip specify {OthCoolSpecify_FK} OTCLEQX_FK		
ASK	IF Other air conditioning equipment IN D106 [Fuel oil cooling equipment]		
QUESTION TEXT – interviewer-administered			
Show Card	N/A		
Question Text	N/A – other specify box – see watermark		
Interviewer Instructions	N/A		
QUESTION TEXT – web			
Question Text	No changes required		
Respondent Instructions	N/A		
ITEM TYPE	<input type="checkbox"/> Enumerated	<input type="checkbox"/> Numeric	<input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date
RESPONSE OPTIONS			
<i>String Text</i>			
<i>Watermark</i>			
Briefly describe the other type of air conditioning equipment			
NONRESPONSE	<input type="checkbox"/> Explicit DK	<input type="checkbox"/> Explicit RF	<input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank
NEXT	➔ CRT [Cooling routing] STEP 4		

D108	Propane cooling equipment {CoolEquip_PR}	<i>see below</i>		
ASK	IF Propane IN D92 [Sources for cooling] OR D95 [Other source for cooling]			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D12			
Question Text	Looking at the list of air conditioning equipment types on Show Card D12, please tell me which types are fueled by <u>propane</u> in this {Structure}.			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	Which of these air conditioning equipment types are fueled by <u>propane</u> in this {Structure}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options		Image		
1. Central chillers that chill water for air conditioning		<i>CHILLR_PR</i>		
2. Other air conditioning equipment		<i>OTCLEQ_PR</i>		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other air conditioning equipment selected → D109 [Propane other cool equip specify] OTHERWISE → CRT [Cooling routing] STEP 5			

D109	Propane other cool equip specify {OthCoolSpecify_PR} OTCLEQX_PR		
ASK	IF Other air conditioning equipment IN D108 [Propane cooling equipment]		
QUESTION TEXT – interviewer-administered			
Show Card	N/A		
Question Text	N/A – other specify box – see watermark		
Interviewer Instructions	N/A		
QUESTION TEXT – web			
Question Text	No changes required		
Respondent Instructions	N/A		
ITEM TYPE	<input type="checkbox"/> Enumerated	<input type="checkbox"/> Numeric	<input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date
RESPONSE OPTIONS			
<i>String Text</i>			
<i>Watermark</i>			
Briefly describe the other type of air conditioning equipment			
NONRESPONSE	<input type="checkbox"/> Explicit DK	<input type="checkbox"/> Explicit RF	<input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank
NEXT	➔ CRT [Cooling routing] STEP 5		

D110	District steam cooling equipment {CoolEquip_ST}	<i>see below</i>		
ASK	IF District steam IN D92 [Sources for cooling] OR D95 [Other source for cooling]			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D12			
Question Text	Looking at the list of air conditioning equipment types on Show Card D12, please tell me which types are fueled by <u>district steam</u> in this {Structure}.			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	Which of these air conditioning equipment types are fueled by <u>district steam</u> in this {Structure}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options		Image	SAS Name	
1. Central chillers that chill water for air conditioning			<i>CHILLR_ST</i>	
2. Other air conditioning equipment			<i>OTCLEQ_ST</i>	
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other air conditioning equipment selected → D111 [Steam other cool equip specify] OTHERWISE → CRT [Cooling routing] STEP 6			

D111	Steam other cool equip specify {OthCoolSpecify_DS}			OTCLEQX_ST
ASK	IF Other air conditioning equipment IN D110 [District steam cooling equipment]			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	N/A – other specify box – see watermark			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>String Text</i>				
<i>Watermark</i>				
Briefly describe the other type of air conditioning equipment				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	➔ CRT [Cooling routing] STEP 6			

D112	Other source other cool equip specify {OthCoolSpecify_OT} OTCLEQX_OT
ASK	IF Some other energy source IN D92 [Sources for cooling] OR D95 [Other source for cooling]
QUESTION TEXT – interviewer-administered	
Show Card	N/A
Question Text	Please describe the air conditioning equipment that is fueled by the <u>other energy source</u> .
Interviewer Instructions	N/A
QUESTION TEXT – web	
Question Text	No changes required
Respondent Instructions	N/A
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric X String Text <input type="checkbox"/> Date
RESPONSE OPTIONS	
String Text	
Watermark	
None	
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box X Allow Blank
NEXT	➔ CRT [Cooling routing] STEP 7

D113	Where does CW come from {WhereCW}	CWLOCTN		
ASK	IF District chilled water IN D92 [Sources for cooling] OR D94 [EL or CW for cooling] OR D95 [Other source for cooling]			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Does the district chilled water come from a chiller in another building, from a utility, or from a chiller <u>inside</u> this building?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. From a chiller in another building				
2. From a district chilled water utility				
3. From a chiller <u>inside</u> this building				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ D114 [Chilled water distribution]			

D114	Chilled water distribution {CoolEquip_CW}	<i>see below</i>		
ASK	IF District chilled water IN D92 [Sources for cooling] OR D94 [EL or CW for cooling] OR D95 [Other source for cooling]			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D13			
Question Text	Looking at the list of cooling distribution types on Show Card D13, please tell me which one (or ones) are used with the <u>district chilled water</u> in this {Structure}.			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	Which of the following cooling distribution types are used with the <u>district chilled water</u> in this {Structure}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Central air handlers		<i>CWAIR</i>		
2. Fan coil or induction units <i>(Fan coil units, including unit ventilators, contain a cooling coil and fan to circulate air within a room. Induction units are typically connected directly to the air duct system and use nozzles to induce airflow across the cooling coil and circulate the air within a room.)</i>		<i>CWFNCL</i>		
3. Chilled beam <i>(A chilled beam has pipes of chilled water that pass through a beam in or near the ceiling.)</i>		<i>CWBEAM</i>		
4. Water loop heat pump		<i>CWWTLP</i>		
5. Other cooling distribution		<i>CWOTD</i>		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ BRT [Cooling follow-up routing]			

BRT	Cooling follow-up routing
NEXT	<p>IF Building interview & Chillers for any cooling equipment ➔ D115 [Where is the chiller located]</p> <p>IF Mall OR Establishment interview & Chillers for any cooling equipment ➔ D116 [Chiller distribution]</p> <p>IF Building OR Mall interview & More than one cooling equipment selected ➔ D118 [Percent cooled by type]</p> <p>IF Building OR Mall interview & Only one selected cooling equipment & NOT District chilled water & (Main cooling equipment NOT Packaged cooling if the Main heating equipment was Packaged heating) & (Main cooling equipment NOT Heat pump if the Main heating equipment was Heat pump) & (A24 [Year of construction] < 2000 OR A25 [Year of construction category] ≠ 2000 to 2009 OR 2010 to 2012 OR 2013 to 2018) ➔ D120 [Main cooling replaced]</p> <p>IF Mall OR Establishment interview ➔ D121 [Who has temperature control] OTHERWISE ➔ D122 [Building automation system]</p>

D115	Where is the chiller located {WhereChiller}	CHLLOCTN		
ASK	IF Building interview & Chillers for any cooling equipment			
FILL	{ChillerNum} IF Chillers reported for only one energy source = "Is the chiller" IF Chillers reported for more than one energy source = "Are the chillers"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	{ChillerNum} located in this building or in another building?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. In this building				
2. In another building				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ D116 [Chiller distribution]			

D116	Chiller distribution {ChillerDistrib}	<i>see below</i>		
ASK	IF Chillers for any cooling equipment			
FILL	<p>{Chillers} IF Chillers reported for only one energy source = "chiller" IF Chillers reported for more than one energy source = "chillers"</p> <p>{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"</p>			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D13			
Question Text	Looking at the list of cooling distribution types on Show Card D13, please tell me which one (or ones) are used in this {Structure} with the {Chillers}.			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	Which of the following cooling distribution types are used in this {Structure} with the {Chillers}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Central air handlers		<i>CHLAIR</i>		
2. Fan coil or induction units <i>(Fan coil units, including unit ventilators, contain a cooling coil and fan to circulate air within a room. Induction units are typically connected directly to the air duct system and use nozzles to induce airflow across the cooling coil and circulate the air within a room.)</i>		<i>CHLFNCL</i>		
3. Chilled beam <i>(A chilled beam has pipes of chilled water that pass through a beam in or near the ceiling.)</i>		<i>CHLBEAM</i>		
4. Water loop heat pump		<i>CHLWTLP</i>		
5. Other cooling distribution		<i>CHLOTD</i>		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF D115 [Where is the chiller located] = In another building THEN: IF More than one cooling equipment selected ➔ D118 [Percent cooled by type] IF Only one selected cooling equipment & NOT District chilled water & (Main cooling equipment NOT Packaged cooling if the Main heating equipment was Packaged heating) & (Main cooling equipment NOT Heat pump if the main heating equipment was Heat pump) & (A24 [Year of construction] < 2000 OR A25 [Year of construction category] ≠ 2000 to 2009 OR 2010 to 2012 OR 2013 to 2018) ➔ D120 [Main cooling replaced] IF Mall OR Establishment interview ➔ D121 [Who has temperature control] OTHERWISE ➔ D122 [Building automation] OTHERWISE ➔ D117 [Type of chiller]			

D117	Type of chiller {TypeChiller}	see below		
ASK	IF Chillers for any cooling equipment & NOT D115 [Where is the chiller located] = In another building			
FILL	<p>{ChillerIs} IF Chillers reported for only one energy source = "chiller is" IF Chillers reported for more than one energy source = "chillers are"</p> <p>{Absorption} IF Chillers reported for only one energy source = "an absorption chiller" IF Chillers reported for more than one energy source = "absorption chillers"</p> <p>{ChillerNum} IF Chillers reported for only one energy source = "Is the chiller" IF Chillers reported for more than one energy source = "Are the chillers"</p>			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D14			
Question Text	Please look at Show Card D14 and tell me whether the {ChillerIs} air-cooled, water-cooled, or {Absorption}?			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	{ChillerNum} air-cooled, water-cooled, or {Absorption}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Air-cooled (Chiller that uses a vapor-compression refrigeration cycle and has an air-cooled condenser.)		CHLAIRCL		
2. Water-cooled (Chiller that uses a vapor-compression refrigeration cycle and has a water-cooled condenser.)		CHLWTRCL		
3. Absorption (Chiller that uses an absorption-refrigeration cycle. Heat is used to drive the refrigeration cycle.)		CHLABSRP		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Building OR Mall interview & More than one cooling equipment selected ➔ D118 [Percent cooled by type] IF Building OR Mall interview & Only one selected cooling equipment & NOT District chilled water & (Main cooling equipment NOT Packaged cooling if the Main heating equipment was Packaged heating) & (Main cooling equipment NOT Heat pump if the main heating equipment was Heat pump) & (A24 [Year of construction] < 2000 OR A25 [Year of construction category] ≠ 2000 to 2009 OR 2010 to 2012 OR 2013 to 2018) ➔ D120 [Main cooling replaced] IF Mall OR Establishment interview ➔ D121 [Who has temperature control] OTHERWISE ➔ D122 [Building automation]			

D118	Percent cooled by type {CIEqPct}	various		
ASK	IF Building OR Mall interview & More than one selected cooling source/equipment combination			
FILL	<p>{Explanation} IF D90 [Percent cooled] ≠ 100 = "This question is only referring to the <u>cooled</u> portion of the floorspace, so these percentages must add up to at least 100, but since more than one type of equipment can cool the same area, it is also possible for them to add up to <u>more</u> than 100." IF D90 [Percent cooled] = 100 = "These percentages must add up to at least 100, but since more than one type of equipment can cool the same area, it is also possible for them to add up to <u>more</u> than 100."</p> <p>{SourceEquipment} Combination of selected cooling source and equipment, for example: "Electric chiller"</p>			
INTRO TEXT	All selected cooling source/equipment combinations are on one screen, with this introduction: The next questions are about the percentage of floorspace cooled by each type of equipment. Please keep in mind: {Explanation} What percentage of the cooled area in this building is served by each of the following equipment types? If you're not sure, please provide your best estimate.			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	{SourceEquipment}			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
1 to 100	%	1 to 100		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	IF there are equal maximum percents OR any percents are missing → D119 [Main cooling equipment] IF Main cooling equipment NOT District chilled water & (Main cooling equipment NOT Packaged cooling if the Main heating equipment was Packaged heating) & (Main cooling equipment NOT Heat pump if the main heating equipment was Heat pump) & (A24 [Year of construction] < 2000 OR A25 [Year of construction category] ≠ 2000 to 2009 OR 2010 to 2012 OR 2013 to 2018) → D120 [Main cooling replaced] IF Mall interview → D121 [Who has temperature control] OTHERWISE → D122 [Building automation system]			

D119	Main cooling equipment {MainCoolSelect}	<i>MAINCLX</i>		
ASK	IF D118 [Percent cooled by type] has equal maximum percents OR any percents are missing			
FILL	{SourceEquipmentMax} = Each source/equipment combination with an equal maximum percent (or all source/equipment combinations if any percents are missing), for example: "Electric chiller"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Which of these do you consider to be the main cooling equipment for this building?			
Interviewer Instructions	Read choices below			
QUESTION TEXT – web				
Question Text	Which of the following equipment types do you consider to be the main cooling equipment for this building?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. {SourceEquipmentMax1}				
2. {SourceEquipmentMax2}				
3. {Etc.}				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Main cooling equipment known & NOT District chilled water & (Main cooling equipment NOT Packaged cooling if the Main heating equipment was Packaged heating) & (Main cooling equipment NOT Heat pump if the main heating equipment was Heat pump) & (A24 [Year of construction] < 2000 OR A25 [Year of construction category] ≠ 2000 to 2009 OR 2010 to 2012 OR 2013 to 2018) ➔ D120 [Main cooling replaced] IF Mall interview ➔ D121 [Who has temperature control] OTHERWISE ➔ D122 [Building automation system]			

D120	Main cooling replaced {ReplaceCIEq}	NWMNCL		
ASK	IF Building OR Mall interview & Main cooling equipment known & NOT District chilled water & (Main cooling equipment NOT Packaged cooling if the Main heating equipment was Packaged heating) & (Main cooling equipment NOT Heat pump if the main heating equipment was Heat pump) & (A24 [Year of construction] < 2000 OR A25 [Year of construction category] ≠ 2000 to 2009 OR 2010 to 2012 OR 2013 to 2018)			
FILL	{MainSourceEquipment} Combination of main cooling source and equipment, for example: “electric chiller”			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Has the {MainSourceEquipment} been replaced or added since the year 2000?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	<input type="checkbox"/>	Image		
1. Yes				
2. No				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Mall interview ➔ D121 [Who has temperature control] OTHERWISE ➔ D122 [Building automation system]			

D121	Who has temperature control {TempControl}			ESTBTEMP				
ASK	IF (D1 [Heating] = Yes OR D4 [Cooling] = Yes) & (Establishment interview OR (Mall interview & NOT (D20 [Percent heated] = 0 & D90 [Percent cooled] = 0))							
FILL	{BusTen} IF Interview = Mall = "Do individual tenants have direct control of the temperature in their space?" IF Interview = Establishment = "Does this business have direct control of the temperature in the space?"							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	{BusTen}							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF (No & Mall interview) OR (Yes & Establishment interview) → D122 [Building automation system] OTHERWISE: IF (NOT D20 [Percent heated] = 0 & Heating equipment known other than Individual space heaters or Fireplaces) OR Cooling equipment known other than Individual room or portable air conditioners → D127 [Airflow control] OTHERWISE → D130 [Regular HVAC maintenance]							

D122	Building automation system {EMCS}	EMCS		
ASK	IF (D1 [Heating] = Yes & OR D4 [Cooling] = Yes) & NOT (D20 [Percent heated] = 0 & D90 [Percent cooled] = 0) & NOT (Mall interview & D121 [Who has temperature control] = Yes OR Missing) & NOT (Establishment interview & D121 [Who has temperature control] = No OR Missing)			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Does this {Structure} have a building automation system, which may also be referred to as BAS, smart building controls, an energy management and control system, or EMCS?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Yes				
2. No				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Yes ➔ D123 [BAS system controls] IF No OR Missing ➔ D124 [Smart thermostats]			

D123	BAS system controls {SystemsBASControls}	see below		
ASK	IF D122 [Building automation system] = Yes			
FILL	<p>{HeatingCooling} IF D1 [Heating] = Yes & NOT D20 [Percent heated] = 0 & D4 [Cooling] = Yes & NOT D90 [Percent cooled] = 0 = "heating, cooling," IF D1 [Heating] = Yes & NOT D20 [Percent heated] = 0 = "heating" IF D4 [Cooling] = Yes & NOT D90 [Percent cooled] = 0 = "cooling" {Heating} IF D1 [Heating] = Yes & NOT D20 [Percent heated] = 0 = "Heating" OTHERWISE = BLANK {Cooling} IF D4 [Cooling] = Yes & NOT D90 [Percent cooled] = 0 = "Cooling" OTHERWISE = BLANK</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Does the building automation system control the {HeatingCooling} and/or lighting?			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. {Heating}		<i>EMCSHT</i>		
2. {Cooling}		<i>EMCSCL</i>		
3. Lighting		<i>EMCSLT</i>		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF (NOT D20 [Percent heated] = 0 & Heating equipment known other than Individual space heaters or Fireplaces) OR Cooling equipment known other than Individual room or portable air conditioners ➔ D127 [Airflow control] OTHERWISE ➔ D130 [Regular HVAC maintenance]			

D124	Smart thermostats {SmartTherm}	SMRTTHRM		
ASK	IF D122 [Building automation system] = No OR Missing			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Does this {Structure} use any "smart" or internet-connected thermostats?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	<input type="checkbox"/>	Image		
1. Yes				
2. No				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF No OR Missing THEN: IF D1 [Heating] = Yes & NOT D20 [Percent heated] = 0 ➔ D125 [How reduce heating] IF D4 [Cooling] = Yes & NOT D90 [Percent cooled] = 0 ➔ D126 [How reduce cooling] IF Yes THEN: IF (NOT D20 [Percent heated] = 0 & Heating equipment known other than Individual space heaters or Fireplaces) OR Cooling equipment known other than Individual room or portable air conditioners ➔ D127 [Airflow control] OTHERWISE ➔ D130 [Regular HVAC maintenance]			

D125	How reduce heating {HowReduceHt}			HWRDHT				
ASK	IF (D124 [Smart thermostats] = No OR Missing) & D1 [Heating] = Yes & NOT D20 [Percent heated] = 0							
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"							
QUESTION TEXT – interviewer-administered								
Show Card	SHOW CARD D15							
Question Text	Please look at Show Card D15. Which one of the methods, if any, is most often used to control the indoor temperature of the {Structure} during the <u>heating</u> season?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	Which one of the following methods, if any, is most often used to control the indoor temperature of the {Structure} during the <u>heating</u> season?							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Setting a programmable thermostat to automatically change the temperature at certain times								
2. Manually adjusting the temperature setting								
3. Turning equipment on or off								
4. None of these methods								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF D4 [Cooling] = Yes & NOT D90 [Percent cooled] = 0 → D126 [How reduce cooling] IF NOT D20 [Percent heated] = 0 & Heating equipment known other than Individual space heaters or Fireplaces → D127 [Airflow control] OTHERWISE → D130 [Regular HVAC maintenance]							

D126	How reduce cooling {ReduceCool}	<i>HWRDCL</i>		
ASK	IF (D124 [Smart thermostats] = No OR Missing) & D4 [Cooling] = Yes & NOT D90 [Percent cooled] = 0			
FILL	<p>{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"</p> <p>{FirstQuest} IF D125 [How reduce heating] asked = "Still looking at Show Card D15, which one" OTHERWISE = "Please look at Show Card D15. Which one"</p>			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D15			
Question Text	{FirstQuest} of the following methods, if any, is most often used to control the indoor temperature of the {Structure} during the <u>cooling</u> season?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	Which one of the following methods, if any, is most often used to control the indoor temperature of the {Structure} during the <u>cooling</u> season?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Setting a programmable thermostat to automatically change the temperature at certain times				
2. Manually adjusting the temperature setting				
3. Turning equipment on or off				
4. None of these methods				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF (NOT D20 [Percent heated] = 0 & Heating equipment known other than Individual space heaters or Fireplaces) OR Cooling equipment known other than Individual room or portable air conditioners ➔ D127 [Airflow control] OTHERWISE ➔ D130 [Regular HVAC maintenance]			

D127	Airflow control {AirflowControl}	<i>see below</i>		
ASK	IF (NOT D20 [Percent heated] = 0 & Heating equipment known other than Individual space heaters or Fireplaces) OR Cooling equipment known other than Individual room or portable air conditioners			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D16			
Question Text	Please look at Show Card D16. Which of these types of systems, if any, are used to control the airflow in this {Structure}?			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	Which of these types of systems, if any, are used to control the airflow in this {Structure}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options		Image		
1. Variable air volume (VAV) system		VAV		
2. Dedicated outside air system (DOAS)		DOAS		
3. Demand controlled ventilation (DCV)		DCV		
4. None of these types				
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Cooling equipment known other than Individual room or portable air conditioners ➔ D128 [Economizer cycle] OTHERWISE ➔ D130 [Regular HVAC maintenance]			

D128	Economizer cycle {EconCyc}			ECN				
ASK	IF Cooling equipment known other than Individual room or portable air conditioners							
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Does this {Structure} have any equipment that uses outside air for cooling, often called an "economizer cycle"?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Yes								
2. No								
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Building OR Mall interview & (Packaged air conditioning units OR Chillers OR Heat pumps IN D97 [Elec cooling equipment]) OR (Chillers IN D104 [Nat gas cooling equipment] OR D106 [Fuel oil cooling equipment] OR D108 [Propane cooling equipment] OR D110 [District steam cooling equipment]) ➔ D129 [Cooling tower] OTHERWISE ➔ D130 [Regular HVAC maintenance]							

D129	Cooling tower {CoolingTower}			CTOWER				
ASK	IF Building OR Mall interview & (Packaged air conditioning units OR Chillers OR Heat pumps IN D97 [Elec cooling equipment]) OR (Chillers IN D104 [Nat gas cooling equipment] OR D106 [Fuel oil cooling equipment] OR D108 [Propane cooling equipment] OR D110 [District steam cooling equipment])							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Does this building have a cooling tower for the cooling equipment?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	→ D130 [Regular HVAC maintenance]							

D130	Regular HVAC maintenance {Maint}			MAINT				
ASK	IF (D1 [Heating] = Yes & NOT D20 [Percent heated] = 0) OR (D4 [Cooling] = Yes & NOT D90 [Percent cooled] = 0)							
FILL	{HeatingCooling} IF D1 [Heating] = Yes & NOT D20 [Percent heated] = 0 & D4 [Cooling] = Yes & NOT D90 [Percent cooled] = 0 = "heating and cooling" IF D1 [Heating] = Yes & NOT D20 [Percent heated] = 0 = "heating" IF D4 [Cooling] = Yes & NOT D90 [Percent cooled] = 0 = "cooling"							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Is there any regularly scheduled maintenance and repair for the {HeatingCooling} system?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF D7 [Water heating] = Yes ➔ D131 [Sources for water heating] IF D10 [Cooking] = Yes ➔ D135 [Sources for cooking] IF D11 [Manufacturing] = Yes ➔ D137 [Sources for manufacturing] IF D17 [Type of solar] = Solar panels ➔ D142 [Generation technologies other than solar] OTHERWISE ➔ D139 [Electricity generation capability]							

D131	Sources for water heating {WaterSource}	<i>see below</i>		
ASK	IF D7 [Water heating] = Yes			
FILL	<p>{WatrSourcesList} = List of all energy sources used</p> <p>{Electricity} – {Other} = If a source is used, it appears. If D13 [Energy sources used] = Missing, Electricity will be the only one of these displayed.</p> <p>{FuelOilType} = Type or types specified in D16 [Fuel oil, diesel, or kerosene]</p> <p>{Other} = Source specified in D14 [Other energy source]</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Which energy sources were used for water heating? ({WatrSourcesList})			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	Which energy sources were used for water heating?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. {Electricity}		<i>ELWATR</i>		
2. {Natural gas}		<i>NGWATR</i>		
3. {FuelOilType}		<i>FKWATR</i>		
4. {Propane}		<i>PRWATR</i>		
5. {District steam}		<i>STWATR</i>		
6. {District hot water}		<i>HWWATR</i>		
7. {Wood}		<i>WOWATR</i>		
8. {Coal}		<i>COWATR</i>		
9. {Solar thermal}		<i>SOWATR</i>		
10. {Other}		<i>OTWATR</i>		
11. Some other energy source				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Some other energy source ➔ D132 [Other water heating source] OTHERWISE ➔ D133 [Water heating equipment]			

D132	Other water heating source {OtWaterSource}			<i>see below</i>				
ASK	IF D131 [Sources for water heating] = Some other energy source							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	What was the other energy source used for water heating?							
Interviewer Instructions	Read choices if necessary							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Electricity			<i>ELWATR</i>					
2. Natural gas			<i>NGWATR</i>					
3. Fuel Oil/Diesel/Kerosene			<i>FKWATR</i>					
4. Propane			<i>PRWATR</i>					
5. District steam			<i>STWATR</i>					
6. District hot water			<i>HWWATR</i>					
7. Wood			<i>WOWATR</i>					
8. Coal			<i>COWATR</i>					
9. Solar thermal			<i>SOWATR</i>					
10. Some other energy source			<i>OTWATR</i>					
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ D133 [Water heating equipment]							

D133	Water heating equipment {WaterEquip}			<i>WTHTEQ</i>			
ASK	IF D7 [Water heating] = Yes						
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	Does this {Structure} have centralized water heaters, "point-of-use" water heaters, or both of these types? Point-of-use water heaters may also be referred to as "tankless" water heaters.						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options		Image	SAS Name				
1. Centralized water heaters							
2. "Point-of-use" water heaters							
3. Both types							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	IF CBECS Activity = Food service OR Inpatient health OR B15 [Service type] = Dry cleaner or Laundromat OR Car wash OR Establishment Activity = Food service OR Dry cleaner/Laundromat ➔ D134 [Booster water heaters] IF D10 [Cooking] = Yes ➔ D135 [Sources for cooking] IF D11 [Manufacturing] = Yes ➔ D137 [Sources for manufacturing] IF D17 [Type of solar] = Solar panels ➔ D142 [Generation technologies other than solar] OTHERWISE ➔ D139 [Electricity generation capability]						

D134	Booster water heaters {BoosterWaterHeater}			BOOSTWT			
ASK	IF D7 [Water heating] = Yes & (CBECS Activity = Food service OR Inpatient health OR B15 [Service type] = Dry cleaner or Laundromat OR Car wash OR Establishment Activity = Food service OR Dry cleaner/Laundromat)						
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	Does this {Structure} have any "booster" water heaters, which are used to increase the water temperature up to 195 degrees, often for the purpose of sanitizing?						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options	Image	SAS Name					
1. Yes							
2. No							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	IF D10 [Cooking] = Yes ➔ D135 [Sources for cooking] IF D11 [Manufacturing] = Yes ➔ D137 [Sources for manufacturing] IF D17 [Type of solar] = Solar panels ➔ D142 [Generation technologies other than solar] OTHERWISE ➔ D139 [Electricity generation capability]						

D135	Sources for cooking {CookSource}	<i>see below</i>		
ASK	IF D10 [Cooking] = Yes			
FILL	<p>{CookSourcesList} = List of all energy sources used</p> <p>{Electricity} – {Other} = If a source is used, it appears. If D13 [Energy sources used] = Missing, Electricity will be the only one of these displayed.</p> <p>{FuelOilType} = Type or types specified in D16 [Fuel oil, diesel, or kerosene]</p> <p>{Other} = Source specified in D14 [Other energy source]</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Which energy sources were used for cooking? ({CookSourcesList})			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	Which energy sources were used for cooking?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. {Electricity}		ELCOOK		
2. {Natural gas}		NGCOOK		
3. {FuelOilType}		FKCOOK		
4. {Propane}		PRCOOK		
5. {District steam}		STCOOK		
6. {District hot water}		HWCOOK		
7. {Wood}		WOCOOK		
8. {Coal}		COCOOK		
9. {Other}		OTCOOK		
10. Some other energy source				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Some other energy source ➔ D136 [Other cooking source] IF D11 [Manufacturing] = Yes ➔ D137 [Sources for manufacturing] IF D17 [Type of solar] = Solar panels ➔ D142 [Generation technologies other than solar] OTHERWISE ➔ D139 [Electricity generation capability]			

D136	Other cooking source {OtCookSource}			<i>see below</i>				
ASK	IF D135 [Sources for cooking] = Some other energy source							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	What was the other energy source used for cooking?							
Interviewer Instructions	Read choices if necessary							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Electricity			<i>ELCOOK</i>					
2. Natural gas			<i>NGCOOK</i>					
3. Fuel Oil/Diesel/Kerosene			<i>FKCOOK</i>					
4. Propane			<i>PRCOOK</i>					
5. District steam			<i>STCOOK</i>					
6. District hot water			<i>HWCOOK</i>					
7. Wood			<i>WOCOOK</i>					
8. Coal			<i>COCOOK</i>					
9. Some other energy source			<i>OTCOOK</i>					
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF D11 [Manufacturing] = Yes ➔ D137 [Sources for manufacturing] IF D17 [Type of solar] = Solar panels ➔ D142 [Generation technologies other than solar] OTHERWISE ➔ D139 [Electricity generation capability]							

D137	Sources for manufacturing {ManuSource}	<i>see below</i>		
ASK	IF D11 [Manufacturing] = Yes			
FILL	<p>{ManuSourcesList} = List of all energy sources used</p> <p>{Electricity} – {Other} = If a source is used, it appears. If D13 [Energy sources used] = Missing, Electricity will be the only one of these displayed.</p> <p>{FuelOilType} = Type or types specified in D16 [Fuel oil, diesel, or kerosene]</p> <p>{Other} = Source specified in D14 [Other energy source]</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Which energy sources were used for manufacturing? ({ManuSourcesList})			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	Which energy sources were used for manufacturing?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. {Electricity}		ELMANU		
2. {Natural gas}		NGMANU		
3. {FuelOilType}		FKMANU		
4. {Propane}		PRMANU		
5. {District steam}		STMANU		
6. {District hot water}		HWMANU		
7. {Wood}		WOMANU		
8. {Coal}		COMANU		
9. {Other}		OTMANU		
10. Some other energy source				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Some other energy source ➔ D138 [Other manufacturing source] IF D17 [Type of solar] = Solar panels ➔ D142 [Generation technologies other than solar] OTHERWISE ➔ D139 [Electricity generation capability]			

D138	Other manufacturing source {OtManuSource}			<i>see below</i>				
ASK	IF D137 [Sources for manufacturing] = Some other energy source							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	What was the other energy source used for manufacturing?							
Interviewer Instructions	Read choices if necessary							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Electricity			<i>ELMANU</i>					
2. Natural gas			<i>NGMANU</i>					
3. Fuel Oil/Diesel/Kerosene			<i>FKMANU</i>					
4. Propane			<i>PRMANU</i>					
5. District steam			<i>STMANU</i>					
6. District hot water			<i>HWMANU</i>					
7. Wood			<i>WOMANU</i>					
8. Coal			<i>COMANU</i>					
9. Some other energy source			<i>OTMANU</i>					
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF D17 [Type of solar] = Solar panels ➔ D142 [Generation technologies other than solar] OTHERWISE ➔ D139 [Electricity generation capability]							

D139	Electricity generation capability {AbleGen}			CAPGEN			
ASK	IF NOT D17 [Type of solar] = Solar panels						
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	Does this {Structure} have the ability to generate electricity on-site, such as from solar panels or a generator? Please include generation equipment even if it is used only for emergency backup purposes.						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options		Image	SAS Name				
1. Yes							
2. No							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	IF Yes ➔ D140 [Generation technologies] OTHERWISE: IF Missing OR No & D12 [Any energy] = Missing & D13 [Energy sources] = Missing ➔ E83 [Window glass type] IF Building OR Mall interview & Electricity used ➔ D149 [EV charging stations] IF (B15 [Service type] = Dry cleaner or laundromat OR Establishment Activity = Dry cleaner/Laundromat) & Natural gas used ➔ D150 [Natural gas dryers] OTHERWISE ➔ D151 [Any other sources]						

D140	Generation technologies {GenerTech}			see below				
ASK	IF D139 [Electricity generation capability] = Yes							
QUESTION TEXT – interviewer-administered								
Show Card	SHOW CARD D17							
Question Text	Looking at Show Card D17, which of the technologies on the list were used on-site for generating electricity?							
Interviewer Instructions	Enter all that apply							
QUESTION TEXT – web								
Question Text	Which of these technologies were used on-site for generating electricity?							
Respondent Instructions	Please select all that apply.							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Solar panels used to generate electricity		PVC						
2. Reciprocating engine generator		ENGINE						
3. Fuel cells		FUELCL						
4. Large turbines		LRGTRB						
5. Microturbines		MCROTB						
6. Wind turbines		WINDTRB						
7. Some other technology		OTGENTECH						
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Some other technology ➔ D141 [Other gener tech specify] IF Missing/DK OR (ONLY Solar panels OR Wind turbines) THEN: IF Building OR Mall interview & Electricity used ➔ D149 [EV charging stations] IF (B15 [Service type] = Dry cleaner or laundromat OR Establishment Activity = Dry cleaner/Laundromat) & Natural gas used ➔ D150 [Natural gas dryers] OTHERWISE ➔ D151 [Any other sources] IF Building OR Mall interview ➔ D144 [Cogeneration system] IF Establishment interview ➔ D145 [Sources for electricity generation]							

D141	Other gener tech specify {OthGenerTech}			OTHGEN1X
ASK	IF Some other technology IN D140 [Generation technologies]			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	N/A – other specify box – see watermark			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated	<input type="checkbox"/> Numeric	<input checked="" type="checkbox"/> String Text	<input type="checkbox"/> Date
RESPONSE OPTIONS				
String Text				
Watermark				
Briefly describe the other technology used to generate electricity on-site				
NONRESPONSE	<input type="checkbox"/> Explicit DK	<input type="checkbox"/> Explicit RF	<input type="checkbox"/> Missing Item Prompt Box	<input checked="" type="checkbox"/> Allow Blank
NEXT	IF Building OR Mall interview ➔ D144 [Cogeneration system] IF Establishment interview ➔ D145 [Sources for electricity generation]			

D142	Generation technologies other than solar {GenerTechMod}			<i>see below</i>				
ASK	IF D17 [Type of solar] = Solar panels							
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"							
QUESTION TEXT – interviewer-administered								
Show Card	SHOW CARD D18							
Question Text	Earlier you mentioned that solar panels were used to generate electricity for this {Structure}. Looking at Show Card D18, were any of the other technologies on the list used on-site for generating electricity?							
Interviewer Instructions	Enter all that apply							
QUESTION TEXT – web								
Question Text	Earlier you reported that solar panels were used to generate electricity for this {Structure}. Were any of these other technologies used on-site for generating electricity?							
Respondent Instructions	Please select all that apply.							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Reciprocating engine generator			<i>ENGINE</i>					
2. Fuel cells			<i>FUELCL</i>					
3. Large turbines			<i>LRGTRB</i>					
4. Microturbines			<i>MCROTB</i>					
5. Wind turbines			<i>WINDTRB</i>					
6. Some other technology			<i>OTGENTECH</i>					
7. No other electricity generation technologies used								
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Some other technology ➔ D143 [Other gener tech specify] IF Missing/DK OR (ONLY Wind turbines OR No other technologies) THEN: IF Building OR Mall interview & Electricity used ➔ D149 [EV charging stations] IF (B15 [Service type] = Dry cleaner or laundromat OR Establishment Activity = Dry cleaner/Laundromat) & Natural gas used ➔ D150 [Natural gas dryers] OTHERWISE ➔ D151 [Any other sources] IF Building OR Mall interview ➔ D144 [Cogeneration system] IF Establishment interview ➔ D145 [Sources for electricity generation]							

D143	Other gener tech specify {OthGenerTechMod}			OTHGEN2X
ASK	IF Some other technology IN D142 [Generation technologies other than solar]			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	N/A – other specify box – see watermark			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>String Text</i>				
<i>Watermark</i>				
Briefly describe the other technology used to generate electricity on-site				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	IF Building OR Mall interview ➔ D144 [Cogeneration system] IF Establishment interview ➔ D145 [Sources for electricity generation]			

D144	Cogeneration system {Cogen}		COGEN			
ASK	IF Building OR Mall interview & (Any technology other than Solar panels OR Wind turbines IN D140 [Generation technologies] OR Any response other than Wind turbines OR No other technologies IN D142 [Generation technologies other than solar])					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	Is the electric power generating system also a cogeneration system? That is, in addition to producing electric power, does the same system simultaneously produce heat that is used in this or another building for space heating, water heating, or industrial processes?					
Interviewer Instructions	N/A					
QUESTION TEXT – web						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Enumerated</i>						
Response options	Image	SAS Name				
1. Yes						
2. No						
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	➔ D145 [Sources for electricity generation]					

D145	Sources for electricity generation {GenerSource}					
ASK	IF Any technology other than Solar panels OR Wind turbines IN D140 [Generation technologies] OR Any response other than Wind turbines OR No other technologies IN D142 [Generation technologies other than solar]					
FILL	{GenrTechList} = List of generation technologies used excluding Solar and Wind {Other} = Source specified in D14 [Other energy source]					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	Which energy sources were used for the {GenrTechList}?					
Interviewer Instructions	Read choices if necessary Enter all that apply					
QUESTION TEXT – web						
Question Text	No changes required					
Respondent Instructions	Please select all that apply.					
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Enumerated</i>						
Response options		Image	SAS Name			
1. Natural gas			NGGENR			
2. Fuel oil/Diesel/Kerosene			FKGENR			
3. Propane			PRGENR			
4. Wood			WOGENR			
5. Coal			COGENR			
6. {Other}			OTGENR			
7. Some other energy source			OTGENR			
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	➔ D146 [Use of generated electricity]					

D146	Use of generated electricity {GenerUse}	GENUSE		
ASK	IF Any technology other than Solar panels OR Wind turbines IN D140 [Generation technologies] OR Any response other than Wind turbines OR No other technologies IN D142 [Generation technologies other than solar]			
FILL	{GenrTechList} = List of generation technologies used excluding Solar and Wind			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	During 2018, was the electricity generated by the {GenrTechList} used: primarily for emergency backup or testing, only during periods of high electricity demand, or whenever electricity was used?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
Enumerated				
Response options	Image	SAS Name		
1. Primarily for emergency backup or testing				
2. During periods of high electricity demand				
3. Whenever electricity was used				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Primarily for emergency backup or testing OR During periods of high electricity demand ➔ D147 [Energy for generation] OTHERWISE: IF A6 [Square footage] > 50,000 OR A7 [Square footage category] = 50,001 to 100,000 square feet; 100,0001 to 200,000 square feet; 200,001 to 500,000 square feet; 500,001 to 1 million square feet; Over 1 million square feet ➔ D148 [1MW generator capacity] IF Building OR Mall interview & Electricity used ➔ D149 [EV charging stations] IF (B15 [Service type] = Dry cleaner or laundromat OR Establishment Activity = Dry cleaner/Laundromat) & Natural gas used ➔ D150 [Natural gas dryers] OTHERWISE ➔ D151 [Any other sources]			

D147	Energy for generation {Gener}			GENTECHEGY			
ASK	IF D146 [Use of generated electricity] = Primarily for emergency backup or testing OR During periods of high electricity demand						
FILL	{GenrTechList} = List of generation technologies used excluding Solar and Wind						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	Was any energy actually <u>used</u> by the {GenrTechList} for generating electricity during 2018, even if just a small amount was used for emergency backup or for testing generators?						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options	Image	SAS Name					
1. Yes							
2. No							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	IF A6 [Square footage] > 50,000 OR A7 [Square footage category] = 50,001 to 100,000 square feet; 100,0001 to 200,000 square feet; 200,001 to 500,000 square feet; 500,001 to 1 million square feet; Over 1 million square feet ➔ D148 [1MW generator capacity] IF Building OR Mall interview & Electricity used ➔ D149 [EV charging stations] IF (B15 [Service type] = Dry cleaner or laundromat OR Establishment Activity = Dry cleaner/Laundromat) & Natural gas used ➔ D150 [Natural gas dryers] OTHERWISE ➔ D151 [Any other sources]						

D148	1MW generator capacity {Gener1MW}		<i>GENT1MW</i>			
ASK	IF (Any technology other than Solar panels OR Wind turbines IN D140 [Generation technologies] OR Any response other than Wind turbines OR No other technologies IN D142 [Generation technologies other than solar]) & (A6 [Square footage] > 50,000 OR A7 [Square footage category] = 50,001 to 100,000 square feet; 100,0001 to 200,000 square feet; 200,001 to 500,000 square feet; 500,001 to 1 million square feet; Over 1 million square feet)					
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	Is the capacity of all of the generators in this {Structure} greater than 1 megawatt?					
Interviewer Instructions	N/A					
QUESTION TEXT – web						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Enumerated</i>						
Response options	Image	SAS Name				
1. Yes						
2. No						
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	IF Building OR Mall interview & Electricity used ➔ D149 [EV charging stations] IF (B15 [Service type] = Dry cleaner or laundromat OR Establishment Activity = Dry cleaner/Laundromat) & Natural gas used ➔ D150 [Natural gas dryers] OTHERWISE ➔ D151 [Any other sources]					

D149	EV charging stations {EVCharging}			EVCHARGE				
ASK	IF Building OR Mall interview & Electricity used							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Are there any electric vehicle charging stations associated with this building, either inside or outside the building?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF B15 [Service type] = Dry cleaner or laundromat & Natural gas used ➔ D150 [Natural gas dryers] OTHERWISE ➔ D151 [Any other sources]							

D150	Natural gas dryers {NatGasDryers}			NGDRY				
ASK	IF (B15 [Service type] = Dry cleaner or laundromat OR Establishment Activity = Dry cleaner/Laundromat) & Natural gas used							
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Are there any clothes dryers that use natural gas in this {Structure}?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ D151 [Any other sources]							

D151	Any other sources {OthSource}		ANYOTSRC			
ASK	IF NOT (D12 [Any energy] = Missing & D13 [Energy sources] = Missing & D139 [Electricity generation capacity] = No OR Missing)					
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment" {SourcesList} = List of all energy sources used					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	As a final check, were there any energy sources used in this {Structure} other than {SourcesList}?					
Interviewer Instructions	N/A					
QUESTION TEXT – web						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Enumerated</i>						
Response options		Image	SAS Name			
1. Yes						
2. No						
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	IF Yes ➔ D152 [Other sources] IF No OR Missing ➔ MRT [Missing sources and uses routing] STEP 2					

MRT	Missing sources and uses routing
STEP 1	IF Electricity IN D152 [Other sources] → D153 [Electricity use] IF Natural gas IN D152 [Other sources] → D154 [Natural gas use] IF Fuel oil/Diesel/Kerosene IN D152 [Other sources] → D155 [Fuel oil use] IF Propane IN D152 [Other sources] → D156 [Propane use] IF District steam IN D152 [Other sources] → D157 [District steam use] IF District hot water IN D152 [Other sources] → D158 [District hot water use] IF Wood IN D152 [Other sources] → D159 [Wood use] IF Coal IN D152 [Other sources] → D160 [Coal use] IF Other IN D152 [Other sources] → D161 [Other source use]
STEP 2	Check that every energy source given in D13 [Energy sources used] (other than electricity) was assigned an end use. THEN: IF Yes THEN: IF Propane used → D172 [Propane amount] IF Wood used → D174 [Amount wood burned] IF Heating OR Cooling → D178 [Energy management plan] OTHERWISE → ERT [Section E Routing] IF No THEN: IF Natural gas not assigned an end use → D162 [Missed natural gas use] IF Fuel oil/kerosene/diesel not assigned an end use → D163 [Missed fuel oil use] IF Propane not assigned an end use → D164 [Missed propane use] IF District steam not assigned an end use → D165 [Missed district steam use] IF District hot water not assigned an end use → D166 [Missed district hot water use] IF District chilled water not assigned an end use → D167 [Missed district chilled water use] IF Wood not assigned an end use → D168 [Missed wood use] IF Coal not assigned an end use → D169 [Missed coal use] IF Solar thermal not assigned an end use → D170 [Missed solar use] IF {Other} not assigned an end use → D171 [Missed other source use]
STEP 3	IF Building interview & Propane used → D172 [Propane amount] IF Building interview & Wood used → D174 [Amount wood burned] IF Heating OR Cooling → D178 [Energy management plan] OTHERWISE → ERT [Section E Routing]

NOTE ON USES OF ENERGY:

In addition to the end uses given in D1 [Heating], D4 [Cooling], D7 [Water heating], D10 [Cooking], and D11 [Manufacturing], end uses can be added in D153 – D171. For the rest of this questionnaire, end uses will just simply be stated, for example: “IF Cooking” would mean: IF D10 [Cooking] = Yes OR Cooking was added as an end use in D153 – D171.

D152	Other sources {WhatSource}	<i>see below</i>		
ASK	IF D151 [Any other sources] =Yes			
FILL	{Electricity} – {Coal} = If a source has NOT been mentioned, it appears in this list; if it has, the line is blank			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	What other sources were used?			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. {Electricity}		<i>ELUSED</i>		
2. {Natural gas}		<i>NGUSED</i>		
3. {Fuel Oil/Diesel/Kerosene}		<i>FKUSED</i>		
4. {Propane}		<i>PRUSED</i>		
5. {District steam}		<i>STUSED</i>		
6. {District hot water}		<i>HWUSED</i>		
7. {District chilled water}		<i>CWUSED</i>		
8. {Wood}		<i>WOUSED</i>		
9. {Coal}		<i>COUSED</i>		
10. Other		<i>OTUSED</i>		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ MRT [Missing sources and uses routing]			

D153	Electricity use {EIUse}					
ASK	IF Electricity IN D152 [Other sources]					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	What was the electricity used for?					
Interviewer Instructions	Enter all that apply					
QUESTION TEXT – web						
Question Text	No changes required					
Respondent Instructions	Please select all that apply.					
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Enumerated</i>						
Response options	Image	SAS Name				
1. Heating		<i>ELHT1/ELHT2</i>				
2. Cooling		<i>ELCOOL</i>				
3. Water heating		<i>ELWATR</i>				
4. Cooking		<i>ELCOOK</i>				
5. Manufacturing		<i>ELMANU</i>				
6. Some other use						
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	➔ MRT [Missing sources and uses routing]					

D154	Natural gas use {NGUse}			<i>see below</i>				
ASK	IF Natural gas IN D152 [Other sources]							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	What was the natural gas used for?							
Interviewer Instructions	Enter all that apply							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	Please select all that apply.							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Heating		<i>NGHT1/NGHT2</i>						
2. Cooling		<i>NGCOOL</i>						
3. Water heating		<i>NGWATR</i>						
4. Cooking		<i>NGCOOK</i>						
5. Manufacturing		<i>NGMANU</i>						
6. Electricity generation		<i>NGGENR</i>						
7. Some other use		<i>NGOTH</i>						
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ MRT [Missing sources and uses routing]							

D155	Fuel oil use {FOUse}			<i>see below</i>				
ASK	IF Fuel oil/Diesel/Kerosene IN D152 [Other sources]							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	What was the fuel oil/diesel/kerosene used for?							
Interviewer Instructions	Enter all that apply							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	Please select all that apply.							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Heating			<i>FKHT1/FKHT2</i>					
2. Cooling			<i>FKCOOL</i>					
3. Water heating			<i>FKWATR</i>					
4. Cooking			<i>FKCOOK</i>					
5. Manufacturing			<i>FKMANU</i>					
6. Electricity generation			<i>FKGENR</i>					
7. Some other use			<i>FKOTH</i>					
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ MRT [Missing sources and uses routing]							

D156	Propane use {BotGasUse}			<i>see below</i>				
ASK	IF Propane IN D152 [Other sources]							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	What was the propane used for?							
Interviewer Instructions	Enter all that apply							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	Please select all that apply.							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Heating			<i>PRHT1/PRHT2</i>					
2. Cooling			<i>PRCOOL</i>					
3. Water heating			<i>PRWATR</i>					
4. Cooking			<i>PRCOOK</i>					
5. Manufacturing			<i>PRMANU</i>					
6. Electricity generation			<i>PRGENR</i>					
7. Some other use			<i>PROTH</i>					
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ MRT [Missing sources and uses routing]							

D157	District steam use {SteamUse}					
ASK	IF District steam IN D152 [Other sources]					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	What was the district steam used for?					
Interviewer Instructions	Enter all that apply					
QUESTION TEXT – web						
Question Text	No changes required					
Respondent Instructions	Please select all that apply.					
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Enumerated</i>						
Response options		Image	SAS Name			
1. Heating			<i>STHT1/STHT2</i>			
2. Cooling			<i>STCOOL</i>			
3. Water heating			<i>STWATR</i>			
4. Cooking			<i>STCOOK</i>			
5. Manufacturing			<i>STMANU</i>			
6. Some other use			<i>STOTH</i>			
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	➔ MRT [Missing sources and uses routing]					

D158	District hot water use {HWUse}			<i>see below</i>				
ASK	IF District hot water IN D152 [Other sources]							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	What was the district hot water used for?							
Interviewer Instructions	Enter all that apply							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	Please select all that apply.							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Heating		<i>HWHT1/HWHT2</i>						
2. Water heating		<i>HWWATR</i>						
3. Cooking		<i>HWCOOK</i>						
4. Manufacturing		<i>HWMANU</i>						
5. Some other use		<i>HWOTH</i>						
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ MRT [Missing sources and uses routing]							

D159	Wood use {WoodUse}			<i>see below</i>				
ASK	IF Wood IN D152 [Other sources]							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	What was the wood used for?							
Interviewer Instructions	Enter all that apply							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	Please select all that apply.							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Heating		WOHT1/WOHT2						
2. Water heating		WOWATR						
3. Cooking		WOCOOK						
4. Manufacturing		WOMANU						
5. Electricity generation		WOGENR						
6. Some other use		WOOTH						
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ MRT [Missing sources and uses routing]							

D160	Coal use {CoalUse}			<i>see below</i>				
ASK	IF Coal IN D152 [Other sources]							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	What was the coal used for?							
Interviewer Instructions	Enter all that apply							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	Please select all that apply.							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Heating			<i>COHT1/COHT2</i>					
2. Water heating			<i>COWATR</i>					
3. Cooking			<i>COCOOK</i>					
4. Manufacturing			<i>COMANU</i>					
5. Electricity generation			<i>COGENR</i>					
6. Some other use			<i>COOTH</i>					
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ MRT [Missing sources and uses routing]							

D161	Other source use {OtUse}			<i>see below</i>				
ASK	IF Other IN D152 [Other sources]							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	What was the other energy source used for?							
Interviewer Instructions	Enter all that apply							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	Please select all that apply.							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Heating		OTHT1/OTHT2						
2. Cooling		OTCOOL						
3. Water heating		OTWATR						
4. Cooking		OTCOOK						
5. Manufacturing		OTMANU						
6. Electricity generation		OTGENR						
7. Some other use		OTOTH						
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ MRT [Missing sources and uses routing]							

D162	Missed natural gas use {WhatNGUse}					
ASK	IF Natural gas not assigned an end use					
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	I recorded that natural gas was used in this {Structure} but not how it was used. What was the natural gas used for?					
Interviewer Instructions	N/A					
QUESTION TEXT – web						
Question Text	You reported that natural gas was used in this {Structure} but not how it was used. What was the natural gas used for?					
Respondent Instructions	N/A					
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Enumerated</i>						
Response options	Image	SAS Name				
1. Heating		<i>NGHT1/NGHT2</i>				
2. Cooling		<i>NGCOOL</i>				
3. Water heating		<i>NGWATR</i>				
4. Cooking		<i>NGCOOK</i>				
5. Manufacturing		<i>NGMANU</i>				
6. Electricity generation		<i>NGGENR</i>				
7. Some other use		<i>NGOTH</i>				
8. Incorrectly recorded—source not used						
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	➔ MRT [Missing sources and uses routing]					

D163	Missed fuel oil use {WhatFOUse}			<i>see below</i>				
ASK	IF Fuel oil/Diesel/Kerosene not assigned an end use							
FILL	<p>{FuelOilType} = Type or types specified in D16 [Fuel oil, diesel, or kerosene] {Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"</p>							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	I recorded that {FuelOilType} was used in this {Structure} but not how it was used. What was the {FuelOilType} used for?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	You reported that {FuelOilType} was used in this {Structure} but not how it was used. What was the {FuelOilType} used for?							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Heating				<i>FKHT1/FKHT2</i>				
2. Cooling				<i>FKCOOL</i>				
3. Water heating				<i>FKWATR</i>				
4. Cooking				<i>FKCOOK</i>				
5. Manufacturing				<i>FKMANU</i>				
6. Electricity generation				<i>FKGENR</i>				
7. Some other use				<i>FKOTH</i>				
8. Incorrectly recorded—source not used								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ MRT [Missing sources and uses routing]							

D164	Missed propane use {WhatBotGasUse}			see below				
ASK	IF Propane not assigned an end use							
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	I recorded that propane was used in this {Structure} but not how it was used. What was the propane used for?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	You reported that propane was used in this {Structure} but not how it was used. What was the propane used for?							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Heating		PRHT1/PRHT2						
2. Cooling		PRCOOL						
3. Water heating		PRWATR						
4. Cooking		PRCOOK						
5. Manufacturing		PRMANU						
6. Electricity generation		PRGENR						
7. Some other use		PROTH						
8. Incorrectly recorded—source not used								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ MRT [Missing sources and uses routing]							

D165	Missed district steam use {WhatStUse}	<i>see below</i>		
ASK	IF District steam not assigned an end use			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	I recorded that district steam was used in this {Structure} but not how it was used. What was the district steam used for?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	You reported that district steam was used in this {Structure} but not how it was used. What was the district steam used for?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Heating		STHT1/STHT2		
2. Cooling		STCOOL		
3. Water heating		STWATR		
4. Cooking		STCOOK		
5. Manufacturing		STMANU		
6. Some other use		STOTH		
7. Incorrectly recorded—source not used				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ MRT [Missing sources and uses routing]			

D166	Missed district hot water use {WhatHWUse}			<i>see below</i>				
ASK	IF District hot water not assigned an end use							
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	I recorded that district hot water was used in this {Structure} but not how it was used. What was the district hot water used for?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	You reported that district hot water was used in this {Structure} but not how it was used. What was the district hot water used for?							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Heating			<i>HWHT1/HWHT2</i>					
2. Water heating			<i>HWWATR</i>					
3. Cooking			<i>HWCOOK</i>					
4. Manufacturing			<i>HWMANU</i>					
5. Some other use			<i>HWOTH</i>					
6. Incorrectly recorded—source not used								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ MRT [Missing sources and uses routing]							

D167	Missed district chilled water use {WhatCWUse}	<i>see below</i>		
ASK	IF District chilled water not assigned an end use			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	I recorded that district chilled water was used in this {Structure} but not how it was used. What was the district chilled water used for?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	You reported that district chilled water was used in this {Structure} but not how it was used. What was the district chilled water used for?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Cooling		CWCOOL		
2. Some other use		CWOTH		
3. Incorrectly recorded—source not used				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ MRT [Missing sources and uses routing]			

D168	Missed wood use {WhatWdUse}	<i>see below</i>		
ASK	IF Wood not assigned an end use			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	I recorded that wood was used in this {Structure} but not how it was used. What was the wood used for?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	You reported that wood was used in this {Structure} but not how it was used. What was the wood used for?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Heating		WOHT1/WOHT2		
2. Water heating		WOWATR		
3. Cooking		WOCOOK		
4. Manufacturing		WOMANU		
5. Electricity generation		WOGENR		
6. Some other use		WOOTH		
7. Incorrectly recorded—source not used				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ MRT [Missing sources and uses routing]			

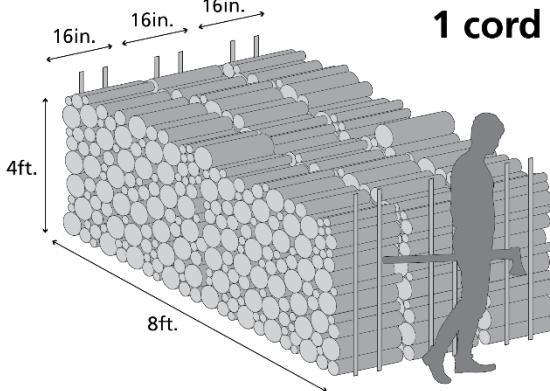
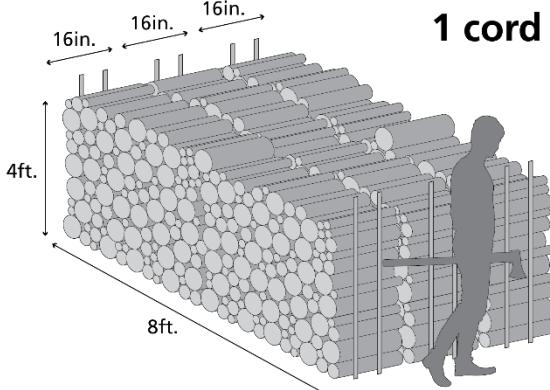
D169	Missed coal use {WhatCoUse}	<i>see below</i>		
ASK	IF Coal not assigned an end use			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	I recorded that coal was used in this {Structure} but not how it was used. What was the coal used for?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	You reported that coal was used in this {Structure} but not how it was used. What was the coal used for?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Heating		COHT1/COHT2		
2. Water heating		COWATR		
3. Cooking		COCOOK		
4. Manufacturing		COMANU		
5. Electricity generation		COGENR		
6. Some other use		COOTH		
7. Incorrectly recorded—source not used				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ MRT [Missing sources and uses routing]			

D170	Missed solar use {WhatSoUse}	<i>see below</i>		
ASK	IF Solar thermal not assigned an end use			
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	I recorded that solar thermal energy was used in this {Structure} but not how it was used. What was the solar thermal used for?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	You reported that solar thermal energy was used in this {Structure} but not how it was used. What was the solar thermal used for?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Heating		SOHT1/SOHT2		
2. Water heating		SOWATR		
3. Some other use		SOOTH		
4. Incorrectly recorded—source not used				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ MRT [Missing sources and uses routing]			

D171	Missed other source use {WhatOtUse}			<i>see below</i>				
ASK	IF {Other} not assigned an end use							
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	I recorded that another energy source was used in this {Structure} but not how it was used. What was the other energy source used for?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	You reported that another energy source was used in this {Structure} but not how it was used. What was the other energy source used for?							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Heating			OTHT1/OTHT2					
2. Cooling			OTCOOL					
3. Water heating			OTWATR					
4. Cooking			OTCOOK					
5. Manufacturing			OTMANU					
6. Electricity generation			OTGENR					
7. Some other use			OTOTH					
8. Incorrectly recorded—source not used								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ MRT [Missing sources and uses routing]							

D172	Propane amount {BotGasAmt}	<i>PRAMTC</i>		
ASK	IF Building interview & Propane used			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D19			
Question Text	I recorded that propane is used in this building. Looking at Show Card D19, which range best describes the amount of propane used in 2018?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	You reported that propane is used in this building. Which range best describes the amount of propane used in 2018?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Less than 100				
2. 100 to 499				
3. 500 to 999				
4. 1,000 or more				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	➔ D173 [Propane units]			

D173	Propane units {BotGasUnits}			PRUNIT			
ASK	IF Building interview & Propane used						
QUESTION TEXT – interviewer-administered							
Show Card	Verify if volunteered in previous question						
Question Text	Is that in gallons or pounds?						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options			Image	SAS Name			
1. Gallons							
2. Pounds							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank						
NEXT	IF Wood used ➔ D174 [Amount wood burned] IF Heating OR Cooling ➔ D178 [Energy management plan] OTHERWISE ➔ ERT [Section E Routing]						

D174	Amount wood burned {WoodAmt}			WOAMT
ASK	IF Building interview & Wood used			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D20			
Question Text	<p>I recorded that wood is used in this building. Looking at Show Card D20, which range best describes how much wood was burned in this building in 2018?</p>  <p>1 cord</p>			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	<p>You reported that wood is used in this building. Which range best describes how much wood was burned in this building in 2018?</p>  <p>1 cord</p>			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options		Image	SAS Name	
1. Less than 1 cord				
2. 1 to 9 cords				
3. 10 or 20 cords				
4. More than 20 cords				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ D175 [How obtain wood]			

D175	How obtain wood {WoodSource}			WOSRC				
ASK	IF Building interview & Wood used							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Was the wood purchased, obtained free of charge, or a combination of both methods?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Purchased all the wood								
2. Obtained it all free of charge								
3. Some purchased and some free								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Purchased all the wood OR Some purchased and some free ➔ D176 [Expenditures for wood] IF Heating OR Cooling ➔ D178 [Energy management plan] OTHERWISE ➔ ERT [Section E Routing]							

D176	Expenditures for wood {WoodExp}		WOEXP	
ASK	IF D175 [How obtain wood] = Purchased all the wood OR Some purchased and some free			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	What was the total amount spent for wood in 2018?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated	<input checked="" type="checkbox"/> Numeric	<input type="checkbox"/> String Text	<input type="checkbox"/> Date
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter dollar amount	None	1 to 99,999		
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF DK/Missing ➔ D177 [Wood expenditures category] IF Heating OR Cooling ➔ D178 [Energy management plan] OTHERWISE ➔ ERT [Section E Routing]			

D177	Wood expenditures category {WoodCat}	WOEXPC		
ASK	IF D176 [Expenditures for wood] = DK/Missing			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD D21			
Question Text	Looking at Show Card D21, which range best describes the total amount spent for the wood used in 2018?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	Which range best describes the total amount spent for the wood used in 2018?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. \$1 to \$100				
2. \$101 to \$500				
3. \$501 to \$1,000				
4. \$1,001 to \$2,000				
5. Over \$2,000				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Heating OR Cooling → D178 [Energy management plan] OTHERWISE → ERT [Section E Routing]			

D178	Energy management plan {EnergyMgmtPlan}			ENRGYPLN			
ASK	IF Heating OR Cooling						
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	Does this {Structure} have a formal energy management plan in which energy targets are set and consistently monitored?						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options		Image	SAS Name				
1. Yes							
2. No							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	➔ ERT [Section E Routing]						

Section E: Miscellaneous Equipment

ERT	Section E Routing
	<p>IF Mall interview → L1 [Response effort]</p> <p>IF (Cooking & (CBECS Activity OR Establishment Activity ≠ Food service)</p> <p>OR (Any energy used, even if Cooking = No &</p> <p>CBECS Activity = Nursing OR (B12 [Education type] = Elementary OR Middle or junior high school</p> <p>OR High school OR Other multi-grade primary or secondary school &</p> <p>B42 [On a multibuilding complex] = No) OR B41 [Food court] = Yes) → E1 [Type of food area]</p> <p>IF Water heating → E7 [Large amounts of hot water]</p> <p>IF Any energy used THEN:</p> <p>IF CBECS Activity = Lodging OR Inpatient health care → E8 [Laundry onsite]</p> <p>IF B5 [Office type] = Doctor's or dentist's office OR Mixed-use office OR</p> <p>B14 [Health care type] = Doctor's or dentist's office OR CBECS Activity = Outpatient health care</p> <p>OR Establishment Activity = Medical/Dental → E11 [Medical equipment]</p> <p>IF CBECS Activity = Education; Laboratory; Office; Public assembly; Retail; Service; OR Missing OR</p> <p>Establishment Activity = Retail shop; Office/Financial; OR Other → E18 [Laboratory equipment]</p> <p>IF CBECS Activity = Nonrefrigerated OR Refrigerated warehouse → E19 [Machine equipment]</p> <p>IF CBECS Activity = Enclosed mall → E23 [Indoor ice rink]</p> <p>IF CBECS Activity = Food sales; Food service; Public order and safety; OR Religious worship</p> <p>→ E24 [Sterilizers or autoclaves]</p> <p><i>NOTE: IF D17 [Type of solar] = Solar panels used to generate electricity OR Solar panels used to generate electricity OR Wind turbines IN D140 [Generation technologies] OR IN D142 [Generation technologies other than solar] OR D146 [Use of generated energy] = Whenever electricity was used OR D147 [Energy for generation] = Yes, THEN case has "Electricity generated" for use in Section E skip logic.</i></p> <p>IF Electricity used OR Electricity generated → E25 [Refrigeration]</p> <p>OTHERWISE → E83 [Window glass type]</p>

E1	Type of food area {FoodPrepType}	FDRM		
ASK	IF (Cooking & (CBECS Activity OR Establishment Activity ≠ Food service) OR (Any energy used, even if Cooking=No & CBECS Activity = Nursing OR (B12 [Education type] = Elementary OR Middle or junior high school OR Other multi-grade primary or secondary school & B42 [On a multibuilding complex] = No) OR B41 [Food court] = Yes)			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment" {FoodCourtIntro} IF B41 [Food court] = Yes = "In addition to the food court that was mentioned earlier, which" OTHERWISE = "Which"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD E1			
Question Text	The next questions are about uses of space and equipment in this {Structure}. Please look at Show Card E1. {FoodCourtIntro} of these types of food preparation or serving areas are found in this {Structure}?			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – respondent-administered				
Question Text	The next questions are about uses of space and equipment in this {Structure}. {FoodCourtIntro} of these types of food preparation or serving areas are found in this {Structure}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Employee lounge, breakroom, vending area, or pantry (<i>Very limited cooking such as coffeepots and microwaves</i>)		BREAKRM		
2. Small kitchen area (<i>Similar to a residential kitchen</i>)		KITCHN		
3. Snack bar, concession stand, coffee shop, or breakfast service (<i>Some food preparation such as a grill or warming areas</i>)		SNACK		
4. Fast food or small restaurant (<i>Smaller than ~3,000 square feet; includes area for food preparation and customer seating</i>)		FASTFD		
5. Cafeteria or large restaurant (<i>Larger than ~3,000 square feet; includes area for food preparation and customer seating</i>)		CAF		
6. Large kitchen, commercial kitchen, or other large food preparation area (<i>Area for high-volume food preparation such as in a pastry shop or bakery, catering service, culinary school, or nursing home; usually no customer seating</i>)		FDPREP		
7. Other type of food preparation or serving area		OTFDRM		
8. None of these				

NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank
NEXT	<p>IF Other type of food preparation or serving area selected → E2 [Other food area]</p> <p>IF Building interview & Snack bar, concession stand, coffee shop, or breakfast service selected → E3 [Snack bar square footage]</p> <p>IF Building interview & Fast food or small restaurant selected → E4 [Fast food square footage]</p> <p>IF Building interview & Cafeteria or large restaurant selected → E5 [Cafeteria square footage]</p> <p>IF Building interview & Large kitchen, commercial kitchen, or other large food preparation area selected → E6 [Commercial kitchen square footage]</p> <p>IF Water heating → E7 [Large amounts of hot water]</p> <p>IF Any energy used THEN:</p> <p>IF CBECS Activity = Lodging; Inpatient health care; OR Nursing → E8 [Laundry onsite]</p> <p>IF B5 [Office type] = Doctor's or dentist's office OR Mixed-use office OR B14 [Health care type] = Doctor's or dentist's office OR CBECS Activity = Outpatient health care OR Establishment Activity = Medical/Dental → E11 [Medical equipment]</p> <p>IF CBECS Activity = Education; Laboratory; Office; Public assembly; Retail; Service; OR Missing OR Establishment Activity = Retail shop; Office/Financial; OR Other → E18 [Laboratory equipment]</p> <p>IF CBECS Activity = Nonrefrigerated OR Refrigerated warehouse → E19 [Machine equipment]</p> <p>IF CBECS Activity = Enclosed mall → E23 [Indoor ice rink]</p> <p>IF CBECS Activity = Food sales; Public order and safety; OR Religious worship → E24 [Sterilizers or autoclaves]</p> <p>IF Electricity used OR Electricity generated → E25 [Refrigeration]</p> <p>OTHERWISE → E83 [Window glass type]</p>

E2	Other food area {OtherFoodPrep}	OTFDRMX
ASK	IF Other type of food preparation or serving area IN E1 [Type of food area]	
QUESTION TEXT – interviewer-administered		
Show Card	N/A	
Question Text	N/A – other specify box – see watermark	
Interviewer Instructions	N/A	
QUESTION TEXT – respondent-administered		
Question Text	No changes required	
Respondent Instructions	N/A	
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date	
RESPONSE OPTIONS		
<i>String Text</i>		
<i>Watermark</i>		
Briefly describe the other type of food preparation or serving area		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank	
NEXT	IF Building interview & Snack bar, concession stand, coffee shop, or breakfast service IN E1 [Type of food area] → E3 [Snack bar square footage] IF Building interview & Fast food or small restaurant IN E1 [Type of food area] → E4 [Fast food square footage] IF Building interview & Cafeteria or large restaurant IN E1 [Type of food area] → E5 [Cafeteria square footage] IF Building interview & Large kitchen, commercial kitchen, or other large food preparation area IN E1 [Type of food area] → E6 [Commercial kitchen square footage] IF Water heating → E7 [Large amounts of hot water] IF Any energy used THEN: IF CBECS Activity = Lodging; Inpatient health care; OR Nursing → E8 [Laundry onsite] IF B5 [Office type] = Doctor's or dentist's office OR Mixed-use office OR B14 [Health care type] = Doctor's or dentist's office OR CBECS Activity = Outpatient health care OR Establishment Activity = Medical/Dental → E11 [Medical equipment] IF CBECS Activity = Education; Laboratory; Office; Public assembly; Retail; OR Service; OR Missing OR Establishment Activity = Retail shop; Office/Financial; OR Other → E18 [Laboratory equipment] IF CBECS Activity = Nonrefrigerated OR Refrigerated warehouse → E19 [Machine equipment] IF CBECS Activity = Enclosed mall → E23 [Indoor ice rink] IF CBECS Activity = Food sales; Public order and safety; OR Religious worship → E24 [Sterilizers or autoclaves] IF Electricity used OR Electricity generated → E25 [Refrigeration] OTHERWISE → E83 [Window glass type]	

E3	Snack bar square footage {SnackBarSqft}	SNACKSF		
ASK	IF Building interview & Snack bar, concession stand, coffee shop, or breakfast service IN E1 [Type of food area]			
INTRO TEXT	<p>E3 – E6 (as applicable, if the type was selected) are on one screen, with this introduction:</p> <p>What is the total square footage of the following food preparation or serving areas? Include seating areas, if any. If you're not sure, please provide your best estimate.</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Snack bar, concession stand, coffee shop, or breakfast service areas			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	square feet	10 to 99,999		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	<p>IF Fast food or small restaurant IN E1 [Type of food area] ➔ E4 [Fast food square footage]</p> <p>IF Cafeteria or large restaurant IN E1 [Type of food area] ➔ E5 [Cafeteria square footage]</p> <p>IF Large kitchen, commercial kitchen, or other large food preparation area IN E1 [Type of food area] ➔ E6 [Commercial kitchen square footage]</p> <p>IF Water heating ➔ E7 [Large amounts of hot water]</p> <p>IF Any energy used THEN:</p> <p>IF CBECS Activity = Lodging; Inpatient health care; OR Nursing ➔ E8 [Laundry onsite]</p> <p>IF B5 [Office type] = Doctor's or dentist's office OR Mixed-use office OR B14 [Health care type] = Doctor's or dentist's office OR CBECS Activity = Outpatient health care ➔ E11 [Medical equipment]</p> <p>IF CBECS Activity = Education; Laboratory; Office; Public assembly; Retail; Service; OR Missing ➔ E18 [Laboratory equipment]</p> <p>IF CBECS Activity = Nonrefrigerated OR Refrigerated warehouse ➔ E19 [Machine equipment]</p> <p>IF CBECS Activity = Enclosed mall ➔ E23 [Indoor ice rink]</p> <p>IF CBECS Activity = Food sales; Public order and safety; OR Religious worship ➔ E24 [Sterilizers or autoclaves]</p> <p>IF Electricity used OR Electricity generated ➔ E25 [Refrigeration]</p> <p>OTHERWISE ➔ E83 [Window glass type]</p>			

E4	Fast food square footage {FastFoodSqft}	FASTFDSF		
ASK	IF Building interview & Fast food or small restaurant IN E1 [Type of food area]			
INTRO TEXT	<p>E3 – E6 (as applicable, if the type was selected) are on one screen, with this introduction:</p> <p>What is the total square footage of the following food preparation or serving areas? Include seating areas, if any. If you're not sure, please provide your best estimate.</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Fast food or small restaurant areas			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	square feet	10 to 99,999		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	<p>IF Cafeteria or large restaurant IN E1 [Type of food area] → E5 [Cafeteria square footage]</p> <p>IF Large kitchen, commercial kitchen, or other large food preparation area IN E1 [Type of food area] → E6 [Commercial kitchen square footage]</p> <p>IF Water heating → E7 [Large amounts of hot water]</p> <p>IF Any energy used THEN:</p> <ul style="list-style-type: none"> IF CBECS Activity = Lodging; Inpatient health care; OR Nursing → E8 [Laundry onsite] IF B5 [Office type] = Doctor's or dentist's office OR Mixed-use office OR B14 [Health care type] = Doctor's or dentist's office OR CBECS Activity = Outpatient health care → E11 [Medical equipment] IF CBECS Activity = Education; Laboratory; Office; Public assembly; Retail; Service; OR Missing → E18 [Laboratory equipment] IF CBECS Activity = Nonrefrigerated OR Refrigerated warehouse → E19 [Machine equipment] IF CBECS Activity = Enclosed mall → E23 [Indoor ice rink] IF CBECS Activity = Food sales; Public order and safety; OR Religious worship → E24 [Sterilizers or autoclaves] <p>IF Electricity used OR Electricity generated → E25 [Refrigeration]</p> <p>OTHERWISE → E83 [Window glass type]</p>			

E5	Cafeteria square footage {CafeteriaSqft}		CAFSF			
ASK	IF Building interview & Cafeteria or large restaurant IN E1 [Type of food area]					
INTRO TEXT	<p>E3 – E6 (as applicable, if the type was selected) are on one screen, with this introduction:</p> <p>What is the total square footage of the following food preparation or serving areas? Include seating areas, if any. If you're not sure, please provide your best estimate.</p>					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	Cafeteria or large restaurant areas					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
Enter a number	square feet	10 to 99,999				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank					
NEXT	<p>IF Large kitchen, commercial kitchen, or other large food preparation area IN E1 [Type of food area] → E6 [Commercial kitchen square footage]</p> <p>IF Water heating → E7 [Large amounts of hot water]</p> <p>IF Any energy used THEN:</p> <ul style="list-style-type: none"> IF CBECS Activity = Lodging; Inpatient health care; OR Nursing → E8 [Laundry onsite] IF B5 [Office type] = Doctor's or dentist's office OR Mixed-use office OR B14 [Health care type] = Doctor's or dentist's office OR CBECS Activity = Outpatient health care → E11 [Medical equipment] IF CBECS Activity = Education; Laboratory; Office; Public assembly; Retail; Service; OR Missing → E18 [Laboratory equipment] IF CBECS Activity = Nonrefrigerated OR Refrigerated warehouse → E19 [Machine equipment] IF CBECS Activity = Enclosed mall → E23 [Indoor ice rink] IF CBECS Activity = Food sales; Public order and safety; OR Religious worship → E24 [Sterilizers or autoclaves] IF Electricity used OR Electricity generated → E25 [Refrigeration] OTHERWISE → E83 [Window glass type] 					

E6	Commercial kitchen square footage {PrepAreaSqft}	FDPREPSF		
ASK	IF Building interview & Large kitchen, commercial kitchen, or other large food preparation area IN E1 [Type of food area]			
INTRO TEXT	<p>E3 – E6 (as applicable, if the type was selected) are on one screen, with this introduction:</p> <p>What is the total square footage of the following food preparation or serving areas? Include seating areas, if any. If you're not sure, please provide your best estimate.</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Large kitchen, commercial kitchen, or other large food preparation areas			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	square feet	10 to 99,999		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	<p>IF Water heating ➔ E7 [Large amounts of hot water] IF Any energy used THEN: IF CBECS Activity = Lodging; Inpatient health care; OR Nursing ➔ E8 [Laundry onsite] IF B5 [Office type] = Doctor's or dentist's office OR Mixed-use office OR B14 [Health care type] = Doctor's or dentist's office OR CBECS Activity = Outpatient health care ➔ E11 [Medical equipment] IF CBECS Activity = Education; Laboratory; Office; Public assembly; Retail; Service; OR Missing ➔ E18 [Laboratory equipment] IF CBECS Activity = Nonrefrigerated OR Refrigerated warehouse ➔ E19 [Machine equipment] IF CBECS Activity = Enclosed mall ➔ E23 [Indoor ice rink] IF CBECS Activity = Food sales; Public order and safety; OR Religious worship ➔ E24 [Sterilizers or autoclaves] IF Electricity used OR Electricity generated ➔ E25 [Refrigeration] OTHERWISE ➔ E83 [Window glass type]</p>			

E7	Large amounts of hot water {HotWatRoom}			HWTRM			
ASK	IF Water heating						
FILL	<p>{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"</p> <p>{Introduction} IF E1 [Type of food area] was NOT asked = "The next questions are about uses of space and equipment in this {Structure}." OTHERWISE = BLANK</p>						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	<p>{Introduction}</p> <p>Is any space in this {Structure} used for any activities requiring large amounts of hot water, such as a commercial dishwasher, laundry room, heated pool, steam room, whirlpool, or showers?</p>						
Interviewer Instructions	N/A						
QUESTION TEXT – respondent-administered							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options		Image	SAS Name				
1. Yes							
2. No							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	IF CBECS Activity = Lodging; Inpatient health care; OR Nursing ➔ E8 [Laundry onsite] IF B5 [Office type] = Doctor's or dentist's office OR Mixed-use office OR B14 [Health care type] = Doctor's or dentist's office OR CBECS Activity = Outpatient health care OR Establishment Activity = Medical/Dental ➔ E11 [Medical equipment] IF CBECS Activity = Education; Laboratory; Office; Public assembly; Retail; Service; OR Missing OR Establishment Activity = Retail shop; Office/Financial; OR Other ➔ E18 [Laboratory equipment] IF CBECS Activity = Nonrefrigerated OR Refrigerated warehouse ➔ E19 [Machine equipment] IF CBECS Activity = Enclosed mall ➔ E23 [Indoor ice rink] IF CBECS Activity = Food sales; Food service; Public order and safety; OR Religious worship ➔ E24 [Sterilizers or autoclaves] IF Electricity used OR Electricity generated ➔ E25 [Refrigeration] OTHERWISE ➔ E83 [Window glass type]						

E8	Laundry onsite {LaundryOnsite}	<i>LAUNDR</i>		
ASK	IF Any energy used & CBECS Activity = Lodging; Inpatient health care; OR Nursing			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Are linens, such as sheets, towels, and tablecloths, primarily laundered in this building, in another building on-site, or by an off-site laundry service?			
Interviewer Instructions	N/A			
QUESTION TEXT – Web/respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. In this building				
2. In another building on-site				
3. By an off-site laundry service				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF B14 [Health care type] = Inpatient rehabilitation center ➔ E11 [Medical equipment] IF CBECS Activity = Inpatient health care ➔ E12 [Number of X-ray machines] IF (B19 [Lodging type] = Hotel or resort OR Motel, inn, or bed and breakfast) OR (B21 [Residential type] = Hotel or resort OR Motel, inn, or bed and breakfast) ➔ E9 [Conference or event space] IF CBECS Activity = Lodging ➔ E20 [Indoor pool] IF CBECS Activity = Nursing ➔ E24 [Sterilizers or autoclaves]			

E9	Conference or event space {LodgingSpace}			CONFSP				
ASK	IF Any energy used & (B19 [Lodging type] = Hotel or resort OR Motel, inn, or bed and breakfast OR B21 [Residential type] = Hotel or resort OR Motel, inn, or bed and breakfast)							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Is there any space in this building used for conferences or social events?							
Interviewer Instructions	N/A							
QUESTION TEXT – Web/respondent-administered								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Yes → E10 [Percent conference or event space] IF No OR Missing → E20 [Indoor pool]							

E10	Percent conference or event space {PctLodgingSpace}		CONFSP	
ASK	IF E9 [Conference or event space] = Yes			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	About what percentage of the total floorspace in the building is used for these events? If you're not sure, please provide your best estimate.			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated	<input checked="" type="checkbox"/> Numeric	<input type="checkbox"/> String Text	<input type="checkbox"/> Date
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
1 to 100	%	1 to 100		
NONRESPONSE	<input type="checkbox"/> Explicit DK	<input type="checkbox"/> Explicit RF	<input checked="" type="checkbox"/> Missing Item Prompt Box	<input type="checkbox"/> Allow Blank
NEXT	➔ E20 [Indoor pool]			

E11	Medical equipment {MedEquip}	<i>MEDEQP</i>		
ASK	IF Any energy used & (B5 [Office type] = Doctor's or dentist's office OR Mixed-use office OR B14 [Health care type] = Doctor's or dentist's office OR Inpatient rehabilitation center OR CBECS Activity = Outpatient health care OR Establishment Activity = Medical/Dental)			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Does this {Structure} have any equipment for medical diagnosis or treatment, such as X-ray, CT scan, MRI, linear accelerator, dialysis, or ultrasound machines?			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Yes				
2. No				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Yes ➔ E12 [Number of X-ray machines] OTHERWISE: IF CBECS Activity = Outpatient health care ➔ E17 [Outpatient surgery] OTHERWISE ➔ E18 [Laboratory equipment]			

E12	Number of X-ray machines {NumXray}		XRAYN			
ASK	IF E11 [Medical equipment] = Yes OR (CBECS Activity = Inpatient health care & NOT E11 [Medical equipment] = No OR Missing)					
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	How many of the following types of medical equipment are used in this {Structure}? X-ray machines					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated X Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
Enter a number	none	0 to 999				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box X Allow Blank					
NEXT	➔ E13 [Number of CT scan machines]					

E13	Number of CT scan machines {NumCTScan}			CTSCANN
ASK	IF E11 [Medical equipment] = Yes OR (CBECS Activity = Inpatient health care & NOT E11 [Medical equipment] = No OR Missing)			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	CT scan machines			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated	<input checked="" type="checkbox"/> Numeric	<input type="checkbox"/> String Text	<input type="checkbox"/> Date
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	none	0 to 999		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	➔ E14 [Number of MRI machines]			

E14	Number of MRI machines {NumMRI}		MRIN	
ASK	IF E11 [Medical equipment] = Yes OR (CBECS Activity = Inpatient health care & NOT E11 [Medical equipment] = No OR Missing)			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	MRI machines			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated	<input checked="" type="checkbox"/> Numeric	<input type="checkbox"/> String Text	<input type="checkbox"/> Date
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	none	0 to 999		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	➔ E15 [Number of linear accelerators]			

E15	Number of linear accelerators {NumLinAcc}		<i>LINACCN</i>			
ASK	IF E11 [Medical equipment] = Yes OR (CBECS Activity = Inpatient health care & NOT E11 [Medical equipment] = No OR Missing)					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	Linear accelerators (used for external beam radiation treatments for patients with cancer)					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
Numeric						
Watermark	Label	Range				
Enter a number	none	0 to 999				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank					
NEXT	IF CBECS Activity = Inpatient health care ➔ E16 [Percent outpatient space] IF CBECS Activity = Outpatient health care ➔ E17 [Outpatient surgery] IF Establishment Activity = Medical/Dental ➔ E18 [Laboratory equipment]					

E16	Percent outpatient space {PctHospOut}		OUTHOSPP			
ASK	IF Any energy used & CBECS Activity = Inpatient health care					
FILL	{SqFt} IF A6 [Square footage] known = "A6 [Square footage] square feet" IF A6 [Square footage] = DK/Missing = "square footage"					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	What percentage of the {SqFt} in this building is used for outpatient care?					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
0 to 100	%	0 to 100				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	➔ E18 [Laboratory equipment]					

E17	Outpatient surgery {OutPatSurgery}			OUTSURG			
ASK	IF Any energy used & CBECS Activity = Outpatient health care						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	Are there any operating rooms used for outpatient surgery in this building?						
Interviewer Instructions	N/A						
QUESTION TEXT – respondent-administered							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options		Image	SAS Name				
1. Yes							
2. No							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	➔ E18 [Laboratory equipment]						

E18	Laboratory equipment {LabEquip}	<i>LABEQP</i>		
ASK	IF Any energy used & (CBECS Activity = Education; Inpatient health care; Laboratory; Office; Outpatient health care; Public assembly; Retail; Service; OR Missing OR Establishment Activity = Retail shop; Office/Financial; Medical/Dental; OR Other)			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Does this {Structure} have any specialized laboratory equipment that requires extra energy consumption? Some examples are fume hoods, gas chromatographs, centrifuges, spectrometers, and analysis equipment.			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Yes				
2. No				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF CBECS Activity = Education; Laboratory; Retail; Service; OR Missing OR Establishment Activity = Retail shop OR Other ➔ E19 [Machine equipment] IF CBECS Activity = Public Assembly OR B14 [Health care type] = Outpatient rehabilitation center OR Inpatient rehabilitation center ➔ E20 [Indoor pool] IF CBECS Activity = Inpatient health care; Office; OR Outpatient health care ➔ E24 [Sterilizers or autoclaves] IF Electricity used OR Electricity generated ➔ E25 [Refrigeration] OTHERWISE ➔ E83 [Window glass type]			

E19	Machine equipment {MachineEquip}	MCHEQP		
ASK	IF Any energy used & (CBECS Activity = Education; Laboratory; Nonrefrigerated warehouse; Refrigerated warehouse; Retail; Service; OR Missing OR Establishment Activity = Retail shop OR Other)			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Does this {Structure} have any machine or shop equipment such as woodworking tools, metalworking tools, arc welders, or any other types of power tools?			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Yes				
2. No				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF CBECS Activity = Education ➔ E20 [Indoor pool] IF CBECS Activity = Laboratory ➔ E24 [Sterilizers or autoclaves] IF Electricity used OR Electricity generated ➔ E25 [Refrigeration] OTHERWISE ➔ E83 [Window glass type]			

E20	Indoor pool {IndoorPool}	POOL		
ASK	IF Any energy used & (CBECS Activity = Education; Lodging; OR Public assembly OR B14 [Health care type] = Outpatient rehabilitation center OR Inpatient rehabilitation center)			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Is there an indoor swimming pool in this building?			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Yes				
2. No				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Yes → E21 [Heated pool] IF No OR Missing: IF CBECS Activity = Education; Lodging; OR Public assembly → E23 [Indoor ice rink] OTHERWISE → E24 [Sterilizers or autoclaves]			

E21	Heated pool {HeatedPool}			HTPOOL				
ASK	IF E20 [Indoor pool] =Yes							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Is it a heated pool?							
Interviewer Instructions	N/A							
QUESTION TEXT – respondent-administered								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Yes → E22 [Pool energy source] IF No OR Missing: IF CBECS Activity = Education; Lodging; OR Public assembly → E23 [Indoor ice rink] OTHERWISE → E24 [Sterilizers or autoclaves]							

E22	Pool energy source {PoolFuel}	POOLSRC		
ASK	IF E21 [Heated pool] =Yes			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	What energy source is used to heat the pool?			
Interviewer Instructions	Read choices if necessary			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Electricity				
2. Natural gas				
3. Fuel oil/Diesel/Kerosene				
4. Propane				
5. Solar				
6. Some other energy source				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF CBECS Activity = Education; Lodging; OR Public assembly ➔ E23 [Indoor ice rink] OTHERWISE ➔ E24 [Sterilizers or autoclaves]			

E23	Indoor ice rink {IceRink}			RINK				
ASK	IF Any energy used & CBECS Activity = Education; Lodging; Enclosed mall OR Public assembly							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Does this building contain an indoor ice skating rink?							
Interviewer Instructions	N/A							
QUESTION TEXT – respondent-administered								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF CBECS Activity = Enclosed mall THEN: IF Electricity used OR Electricity generated ➔ E25 [Refrigeration] OTHERWISE ➔ E83 [Window glass type] OTHERWISE ➔ E24 [Sterilizers or autoclaves]							

E24	Sterilizers or autoclaves {Sterilizers}		STRLZR			
ASK	IF Any energy used & CBECS Activity = Education; Food sales; Food service; Inpatient health care; Laboratory; Lodging; Nursing; Office; Outpatient health care; Public assembly; Public order and safety; OR Religious worship					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	Are any sterilizers or autoclaves used in this building?					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Enumerated</i>						
Response options	Image	SAS Name				
1. Yes						
2. No						
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	IF Electricity used OR Electricity generated ➔ E25 [Refrigeration] OTHERWISE ➔ E83 [Window glass type]					

E25	Refrigeration {RefrEquip}			RFGEQP
ASK	IF Electricity used OR Electricity generated			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Is there any refrigeration or freezer equipment used in this {Structure}, including vending machines?			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
Response options		Image	SAS Name	
1. Yes				
2. No				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Yes → E26 [Refrigeration types] IF No OR Missing THEN: IF Establishment Activity = Vacant → E61 [Vacant estab lit] IF NOT (B25 [Completely vacant] = Yes & C18 [Months in use] = 0) → E38 [Computing equipment] IF C31 [No operating hours] = Correct, no operating hours OR C32 [Total hours open per week] = 0 → E62 [Percent lit no hours] OTHERWISE → E64 [Percent lit when open]			

E26	Refrigeration types {RefrTypes}	<i>see below</i>		
ASK	IF E25 [Refrigeration] = Yes			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD E2			
Question Text	Looking at Show Card E2, please tell me which types of refrigeration or freezer equipment are found in this {Structure}.			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – respondent-administered				
Question Text	Which types of refrigeration or freezer equipment are found in this {Structure}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Full-size residential-type refrigerators/freezers		<i>RFGRES</i>		
2. Half-size or compact refrigerators		<i>RFGCOMP</i>		
3. Walk-in refrigeration/freezer units		<i>RFGWI</i>		
4. Open refrigerated/freezer cases or cabinets <i>(Units with flexible covers, plastic strips, or no covers, such as: produce, dairy, and deli cases; salad bars; and sandwich preparation units)</i>		<i>RFGOP</i>		
5. Closed refrigerated/freezer cases or cabinets <i>(Units with doors that shut, such as beverage display coolers, grocery coolers or freezers, dessert displays, under-counter coolers, and floral display coolers)</i>		<i>RFGCL</i>		
6. Refrigerated vending machines <i>(Examples: soda, juice, water, or frozen dessert machines)</i>		<i>RFGVEN</i>		
7. Commercial ice makers		<i>RFGICE</i>		
8. Large cold storage areas <i>(Such as within a refrigerated warehouse)</i>		<i>RFGSTO</i>		

NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank
NEXT	<p>IF Residential-type selected → E27 [Number residential refrigerators] IF Compact size selected → E28 [Number compact size refrigerators] IF Walk-in units selected → E29 [Number walk-in units] IF Open cases or cabinets selected → E30 [Number open cases] IF Closed cases or cabinets selected → E31 [Number closed cases] IF Refrigerated vending machines selected → E32 [Number vending] IF Commercial ice makers selected → E33 [Number ice makers] IF Large cold storage areas selected → E34 [Percent cold storage] IF Missing: IF (CBECS Activity = Food sales OR Food service OR Establishment Activity = Food sales OR Food service) OR ((B19 [Lodging type] = Hotel or resort OR B21 [Residential type] = Hotel or resort) & (A6 [Square footage] > 100,000 OR A7 [Square footage category] = 100,0001 to 200,000 square feet; 200,001 to 500,000 square feet; 500,001 to 1 million square feet; OR Over 1 million square feet)) → E35 [Waste heat recovery] IF Establishment Activity = Vacant → E61 [Vacant estab lit] IF NOT (B25 [Completely vacant] = Yes & C18 [Months in use] = 0) → E38 [Computing equipment] IF C31 [No operating hours] = Correct, no operating hours OR C32 [Total hours open per week] = 0 → E62 [Percent lit no hours] OTHERWISE → E64 [Percent lit when open]</p>

E27	Number residential refrigerators {NumResidRefr}	RFGRSN		
ASK	IF Residential-type IN E26 [Refrigeration types]			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
INTRO TEXT	E27 – E33 (as applicable, if the refrigeration type was selected) are on one screen, with this introduction: How many of the following types of refrigeration or freezer equipment are used in this {Structure}? If you're not sure, please provide your best estimate.			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Residential-type refrigerators or freezers			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	none	1 to 9,999		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	IF Compact size IN E26 [Refrigeration types] → E28 [Number compact size refrigerators] IF Walk-in units IN E26 [Refrigeration types] → E29 [Number walk-in units] IF Open cases or cabinets IN E26 [Refrigeration types] → E30 [Number open cases] IF Closed cases or cabinets IN E26 [Refrigeration types] → E31 [Number closed cases] IF Refrigerated vending machines IN E26 [Refrigeration types] → E32 [Number vending] IF Commercial ice makers IN E26 [Refrigeration types] → E33 [Number ice makers] IF Large cold storage areas IN E26 [Refrigeration types] → E34 [Percent cold storage] IF (CBECS Activity = Food sales OR Food service OR Establishment Activity = Food sales OR Food service) OR ((B19 [Lodging type] = Hotel or resort OR B21 [Residential type] = Hotel or resort) & (A6 [Square footage] > 100,000 OR A7 [Square footage category] = 100,0001 to 200,000 square feet; 200,001 to 500,000 square feet; 500,001 to 1 million square feet; OR Over 1 million square feet)) → E35 [Waste heat recovery] IF Establishment Activity = Vacant → E61 [Vacant estab lit] IF NOT (B25 [Completely vacant] = Yes & C18 [Months in use] = 0) → E38 [Computing equipment] IF C31 [No operating hours] = Correct, no operating hours OR C32 [Total hours open per week] = 0 → E62 [Percent lit no hours] OTHERWISE → E64 [Percent lit when open]			

E28	Number compact refrigerators {NumCompactFridge}	RFGCOMPN		
ASK	IF Compact size IN E26 [Refrigeration types]			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
INTRO TEXT	E27 – E33 (as applicable, if the refrigeration type was selected) are on one screen, with this introduction: How many of the following types of refrigeration or freezer equipment are used in this {Structure}? If you're not sure, please provide your best estimate.			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Half-size or compact refrigerators			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	none	1 to 9,999		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	IF Walk-in units IN E26 [Refrigeration types] → E29 [Number walk-in units] IF Open cases or cabinets IN E26 [Refrigeration types] → E30 [Number open cases] IF Closed cases or cabinets IN E26 [Refrigeration types] → E31 [Number closed cases] IF Refrigerated vending machines IN E26 [Refrigeration types] → E32 [Number vending] IF Commercial ice makers IN E26 [Refrigeration types] → E33 [Number ice makers] IF Large cold storage areas IN E26 [Refrigeration types] → E34 [Percent cold storage] IF (CBECS Activity = Food sales OR Food service OR Establishment Activity = Food sales OR Food service) OR ((B19 [Lodging type] = Hotel or resort OR B21 [Residential type] = Hotel or resort) & (A6 [Square footage] > 100,000 OR A7 [Square footage category] = 100,0001 to 200,000 square feet; 200,001 to 500,000 square feet; 500,001 to 1 million square feet; OR Over 1 million square feet)) → E35 [Waste heat recovery] IF Establishment Activity = Vacant → E61 [Vacant estab lit] IF NOT (B25 [Completely vacant] = Yes & C18 [Months in use] = 0) → E38 [Computing equipment] IF C31 [No operating hours] = Correct, no operating hours OR C32 [Total hours open per week] = 0 → E62 [Percent lit no hours] OTHERWISE → E64 [Percent lit when open]			

E29	Number walk-in units {NumWalkIn}		RFGWIN		
ASK	IF Walk-in units IN E26 [Refrigeration types]				
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"				
INTRO TEXT	E27 – E33 (as applicable, if the refrigeration type was selected) are on one screen, with this introduction: How many of the following types of refrigeration or freezer equipment are used in this {Structure}? If you're not sure, please provide your best estimate.				
QUESTION TEXT – interviewer-administered					
Show Card	N/A				
Question Text	Walk-in refrigeration or freezer units				
Interviewer Instructions	N/A				
QUESTION TEXT – respondent-administered					
Question Text	No changes required				
Respondent Instructions	N/A				
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date				
Numeric					
Watermark	Label	Range			
Enter a number	none	1 to 999			
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank				
NEXT	IF Open cases or cabinets IN E26 [Refrigeration types] ➔ E30 [Number open cases] IF Closed cases or cabinets IN E26 [Refrigeration types] ➔ E31 [Number closed cases] IF Refrigerated vending machines IN E26 [Refrigeration types] ➔ E32 [Number vending] IF Commercial ice makers IN E26 [Refrigeration types] ➔ E33 [Number ice makers] IF Large cold storage areas IN E26 [Refrigeration types] ➔ E34 [Percent cold storage] IF (CBECS Activity = Food sales OR Food service OR Establishment Activity = Food sales OR Food service) OR ((B19 [Lodging type] = Hotel or resort OR B21 [Residential type] = Hotel or resort) & (A6 [Square footage] > 100,000 OR A7 [Square footage category] = 100,0001 to 200,000 square feet; 200,001 to 500,000 square feet; 500,001 to 1 million square feet; OR Over 1 million square feet)) ➔ E35 [Waste heat recovery] IF Establishment Activity = Vacant ➔ E61 [Vacant estab lit] IF NOT (B25 [Completely vacant] = Yes & C18 [Months in use] = 0) ➔ E38 [Computing equipment] IF C31 [No operating hours] = Correct, no operating hours OR C32 [Total hours open per week] = 0 ➔ E62 [Percent lit no hours] OTHERWISE ➔ E64 [Percent lit when open]				

E30	Number open cases {NumOpenCase}	RFGOPN
ASK	IF Open cases or cabinets IN E26 [Refrigeration types]	
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"	
INTRO TEXT	E27 – E33 (as applicable, if the refrigeration type was selected) are on one screen, with this introduction: How many of the following types of refrigeration or freezer equipment are used in this {Structure}? If you're not sure, please provide your best estimate.	
QUESTION TEXT – interviewer-administered		
Show Card	N/A	
Question Text	Open refrigerated or freezer cases or cabinets	
Interviewer Instructions	N/A	
QUESTION TEXT – respondent-administered		
Question Text	No changes required	
Respondent Instructions	N/A	
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date	
RESPONSE OPTIONS		
<i>Numeric</i>		
Watermark	Label	Range
Enter a number	none	1 to 999
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank	
NEXT	IF Closed cases or cabinets IN E26 [Refrigeration types] → E31 [Number closed cases] IF Refrigerated vending machines IN E26 [Refrigeration types] → E32 [Number vending] IF Commercial ice makers IN E26 [Refrigeration types] → E33 [Number ice makers] IF Large cold storage areas IN E26 [Refrigeration types] → E34 [Percent cold storage] IF (CBECS Activity = Food sales OR Food service OR Establishment Activity = Food sales OR Food service) OR ((B19 [Lodging type] = Hotel or resort OR B21 [Residential type] = Hotel or resort) & (A6 [Square footage] > 100,000 OR A7 [Square footage category] = 100,0001 to 200,000 square feet; 200,001 to 500,000 square feet; 500,001 to 1 million square feet; OR Over 1 million square feet)) → E35 [Waste heat recovery] IF Establishment Activity = Vacant → E61 [Vacant estab lit] IF NOT (B25 [Completely vacant] = Yes & C18 [Months in use] = 0) → E38 [Computing equipment] IF C31 [No operating hours] = Correct, no operating hours OR C32 [Total hours open per week] = 0 → E62 [Percent lit no hours] OTHERWISE → E64 [Percent lit when open]	

E31	Number closed cases {NumClosedCase}	<i>RFGCLN</i>		
ASK	IF Closed cases or cabinets IN E26 [Refrigeration types]			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
INTRO TEXT	E27 – E33 (as applicable, if the refrigeration type was selected) are on one screen, with this introduction: How many of the following types of refrigeration or freezer equipment are used in this {Structure}? If you're not sure, please provide your best estimate.			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Closed refrigerated or freezer cases or cabinets			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	none	1 to 999		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	IF Refrigerated vending machines IN E26 [Refrigeration types] → E32 [Number vending] IF Commercial ice makers IN E26 [Refrigeration types] → E33 [Number ice makers] IF Large cold storage areas IN E26 [Refrigeration types] → E34 [Percent cold storage] IF (CBECS Activity = Food sales OR Food service OR Establishment Activity = Food sales OR Food service) OR ((B19 [Lodging type] = Hotel or resort OR B21 [Residential type] = Hotel or resort) & (A6 [Square footage] > 100,000 OR A7 [Square footage category] = 100,0001 to 200,000 square feet; 200,001 to 500,000 square feet; 500,001 to 1 million square feet; OR Over 1 million square feet)) → E35 [Waste heat recovery] IF Establishment Activity = Vacant → E61 [Vacant estab lit] IF NOT (B25 [Completely vacant] = Yes & C18 [Months in use] = 0) → E38 [Computing equipment] IF C31 [No operating hours] = Correct, no operating hours OR C32 [Total hours open per week] = 0 → E62 [Percent lit no hours] OTHERWISE → E64 [Percent lit when open]			

E32	Number vending {NumVending}		<i>RFGVNN</i>			
ASK	IF Refrigerated vending machines IN E26 [Refrigeration types]					
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"					
INTRO TEXT	E27 – E33 (as applicable, if the refrigeration type was selected) are on one screen, with this introduction: How many of the following types of refrigeration or freezer equipment are used in this {Structure}? If you're not sure, please provide your best estimate.					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	Refrigerated vending machines					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
Enter a number	none	1 to 999				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank					
NEXT	IF Commercial ice makers IN E26 [Refrigeration types] → E33 [Number ice makers] IF Large cold storage areas IN E26 [Refrigeration types] → E34 [Percent cold storage] IF (CBECS Activity = Food sales OR Food service OR Establishment Activity = Food sales OR Food service) OR ((B19 [Lodging type] = Hotel or resort OR B21 [Residential type] = Hotel or resort) & (A6 [Square footage] > 100,000 OR A7 [Square footage category] = 100,0001 to 200,000 square feet; 200,001 to 500,000 square feet; 500,001 to 1 million square feet; OR Over 1 million square feet)) → E35 [Waste heat recovery] IF Establishment Activity = Vacant → E61 [Vacant estab lit] IF NOT (B25 [Completely vacant] = Yes & C18 [Months in use] = 0) → E38 [Computing equipment] IF C31 [No operating hours] = Correct, no operating hours OR C32 [Total hours open per week] = 0 → E62 [Percent lit no hours] OTHERWISE → E64 [Percent lit when open]					

E33	Number ice makers {NumIceMakers}	RFG/CN		
ASK	IF Commercial ice makers IN E26 [Refrigeration types]			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
INTRO TEXT	E27 – E33 (as applicable, if the refrigeration type was selected) are on one screen, with this introduction: How many of the following types of refrigeration or freezer equipment are used in this {Structure}? If you're not sure, please provide your best estimate.			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Commercial ice makers			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	none	1 to 999		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	IF Large cold storage areas IN E26 [Refrigeration types] ➔ E34 [Percent cold storage] IF (CBECS Activity = Food sales OR Food service OR Establishment Activity = Food sales OR Food service) OR ((B19 [Lodging type] = Hotel or resort OR B21 [Residential type] = Hotel or resort) & (A6 [Square footage] > 100,000 OR A7 [Square footage category] = 100,0001 to 200,000 square feet; 200,001 to 500,000 square feet; 500,001 to 1 million square feet; OR Over 1 million square feet)) ➔ E35 [Waste heat recovery] IF Establishment Activity = Vacant ➔ E61 [Vacant estab lit] IF Establishment interview OR (Building interview & NOT (B25 [Completely vacant] = Yes & C18 [Months in use] = 0)) ➔ E38 [Computing equipment] IF C31 [No operating hours] = Correct, no operating hours OR C32 [Total hours open per week] = 0 ➔ E62 [Percent lit no hours] OTHERWISE ➔ E64 [Percent lit when open]			

E34	Percent cold storage {PctColdStorage}		RFGSTP	
ASK	IF Large cold storage areas IN E26 [Refrigeration types]			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	About what percentage of the total floorspace in the {Structure} is used for cold storage? If you're not sure, please provide your best estimate.			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated	<input checked="" type="checkbox"/> Numeric	<input type="checkbox"/> String Text	<input type="checkbox"/> Date
RESPONSE OPTIONS				
Watermark	<u>Label</u>	<u>Range</u>		
1 to 100	%	1 to 100		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF (CBECS Activity = Food sales OR Food service OR Establishment Activity = Food sales OR Food service) OR ((B19 [Lodging type] = Hotel or resort OR B21 [Residential type] = Hotel or resort) & (A6 [Square footage] > 100,000 OR A7 [Square footage category] = 100,001 to 200,000 square feet; 200,001 to 500,000 square feet; 500,001 to 1 million square feet; OR Over 1 million square feet)) → E35 [Waste heat recovery] IF Establishment Activity = Vacant → E61 [Vacant estab lit] IF NOT (B25 [Completely vacant] = Yes & C18 [Months in use] = 0) → E38 [Computing equipment] IF C31 [No operating hours] = Correct, no operating hours OR C32 [Total hours open per week] = 0 → E62 [Percent lit no hours] OTHERWISE → E64 [Percent lit when open]			

E35	Waste heat recovery {WasteHeatRecovery}			WHRECOV				
ASK	IF E25 [Refrigeration] = Yes & ((CBECS Activity = Food sales OR Food service OR Establishment Activity = Food sales OR Food service) OR ((B19 [Lodging type] = Hotel or resort OR B21 [Residential type] = Hotel or resort) & (A6 [Square footage] > 100,000 OR A7 [Square footage category] = 100,0001 to 200,000 square feet; 200,001 to 500,000 square feet; 500,001 to 1 million square feet; OR Over 1 million square feet)))							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Refrigeration equipment gives off excess heat that can be used to supplement other equipment. Is there such a waste heat recovery system associated with the refrigeration equipment?							
Interviewer Instructions	N/A							
QUESTION TEXT – respondent-administered								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Yes → E36 [Waste heat use] IF No OR Missing → E38 [Computing equipment]							

E36	Waste heat use {WasteHeatUse}	<i>see below</i>		
ASK	IF E35 [Waste heat recovery] = Yes			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	What is the waste heat used for: space heating, water heating, or some other use?			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Space heating		<i>WHHT2</i>		
2. Water heating		<i>WHWT</i>		
3. Some other use		<i>WHOT</i>		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Some other use → E37 [Other waste heat use] OTHERWISE → E38 [Computing equipment]			

E37	Other waste heat use {WasteHeatOtherUse}			WHOTX				
ASK	IF Some other use IN E36 [Waste heat use]							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	N/A – other specify box – see watermark							
Interviewer Instructions	N/A							
QUESTION TEXT – respondent-administered								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>String Text</i>								
<i>Watermark</i>								
Briefly describe how the waste heat is used								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank							
NEXT	➔ E38 [Computing equipment]							

E38	Computing equipment {ComputingEquip}	<i>see below</i>		
ASK	IF (Electricity used OR Electricity generated) & NOT (B25 [Completely vacant] = Yes & C18 [Months in use] = 0) & NOT Establishment Activity = Vacant			
FILL	<p>{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"</p> <p>{RetailFill} IF CBECS Activity = Retail OR Establishment Activity = Retail store = "Include demonstration or floor models if they are turned on." OTHERWISE = BLANK</p>			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD E3			
Question Text	Please look at Show Card E3. Which of these types of computing equipment are used in this {Structure}? {RetailFill}			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – respondent-administered				
Question Text	Which of these types of computing equipment are used in this {Structure}? {RetailFill}			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Desktop computers		PCTERM		
2. Laptop computers		LAPTOP		
3. Tablets		TABLET		
4. Servers		SERVER		
5. None of these types				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Desktop computers selected → E39 [Number of computers] IF Laptop computers selected → E41 [Number of laptops] IF Tablets selected → E45 [Tablets charged in building] IF Servers selected → E47 [Server units] OTHERWISE → E54 [Other equipment types]			

E39	Number of computers {NumPCs}	<i>PCTERMN</i>
ASK	IF Desktop computers IN E38 [Computing equipment]	
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment" {RetailFill} IF CBECS Activity = Retail OR Establishment Activity = Retail store = "(Include demonstration or floor models if they are turned on.)" OTHERWISE = BLANK	
QUESTION TEXT – interviewer-administered		
Show Card	N/A	
Question Text	How many desktop computers are used in this {Structure}? {RetailFill}	
Interviewer Instructions	N/A	
QUESTION TEXT – respondent-administered		
Question Text	No changes required	
Respondent Instructions	N/A	
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date	
Numeric		
Watermark	Label	Range
Enter a number	desktop computers	1 to 9,999,999
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank	
NEXT	IF DK/Missing → E40 [Computers category] OTHERWISE: IF Laptop computers IN E38 [Computing equipment] → E41 [Number of laptops] OTHERWISE → E43 [Multiple monitors]	

E40	Computers category {PCCat}			<i>PCTRMC</i>				
ASK	IF E39 [Number of computers] = DK/Missing							
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"							
QUESTION TEXT – interviewer-administered								
Show Card	SHOW CARD E4							
Question Text	Please look at Show Card E4. Which category best describes the number of desktop computers used in this {Structure}?							
Interviewer Instructions	N/A							
QUESTION TEXT – respondent-administered								
Question Text	Which category best describes the number of desktop computers used in this {Structure}?							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. 1 to 4								
2. 5 to 9								
3. 10 to 19								
4. 20 to 49								
5. 50 to 99								
6. 100 to 249								
7. 250 to 499								
8. 500 to 999								
9. 1,000 to 2,499								
10. 2,500 to 4,999								
11. 5,000 or more								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Laptop computers IN E38 [Computing equipment] → E41 [Number of laptops] OTHERWISE → E43 [Multiple monitors]							

E41	Number of laptops {NumLaptops}	<i>LAPTPN</i>		
ASK	IF Laptop computers IN E38 [Computing equipment]			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment" {RetailFill} IF CBECS Activity = Retail OR Establishment Activity = Retail store = "(Include demonstration or floor models if they are turned on.)" OTHERWISE = BLANK			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	How many laptop computers are used in this {Structure}? {RetailFill}			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	laptops	1 to 9,999,999		
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	IF DK/Missing → E42 [Laptops category] OTHERWISE → E43 [Multiple monitors]			

E42	Laptops category {LaptopCat}			<i>LAPTPC</i>
ASK	IF E41 [Number of laptops] = DK/Missing			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD E4			
Question Text	Please look at Show Card E4. Which category best describes the number of laptop computers used in this {Structure}?			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	Which category best describes the number of laptop computers used in this {Structure}?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options		Image	SAS Name	
1. 1 to 4				
2. 5 to 9				
3. 10 to 19				
4. 20 to 49				
5. 50 to 99				
6. 100 to 249				
7. 250 to 499				
8. 500 to 999				
9. 1,000 to 2,499				
10. 2,500 to 4,999				
11. 5,000 or more				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	→ E43 [Multiple monitors]			

E43	Multiple monitors {MultipleMonitors}	MLTMON		
ASK	IF Desktop computers OR Laptop computers IN E38 [Computing equipment]			
FILL	{Computers} IF (E39 [Number of computers] = 1 & NOT Laptop computers IN E38 [Computing equipment]) OR (E41 [Number of laptops] = 1 & NOT Desktop computers IN E38 [Computing equipment]) = "Does the computer" OTHERWISE = "Do any of the computers"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	{Computers} use more than one monitor?			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Yes				
2. No				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Yes & NOT ((E39 [Number of computers] = 1 & NOT Laptop computers IN E38 [Computing equipment]) OR (E41 [Number of laptops] = 1 & NOT Desktop computers IN E38 [Computing equipment])) ➔ E44 [Multiple monitor category] OTHERWISE: IF Tablets IN E38 [Computing equipment] ➔ E45 [Tablets charged in building] IF Servers IN E38 [Computing equipment] ➔ E47 [Server units] IF CBECS Activity = Data center ➔ E50 [Power usage effectiveness] OTHERWISE ➔ E51 [Computer areas]			

E44	Multiple monitor category {MultiMonitorCat}	MLTMNC		
ASK	IF E43 [Multiple monitors] = Yes & NOT ((E39 [Number of computers] = 1 & NOT Laptop computers IN E38 [Computing equipment]) OR (E41 [Number of laptops] = 1 & NOT Desktop computers IN E38 [Computing equipment]))			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Are multiple monitors used with all of the computers, most of them, some of them, or just a few?			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. All				
2. Most				
3. Some				
4. A few				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Tablets IN E38 [Computing equipment] → E45 [Tablets charged in building] IF Servers IN E38 [Computing equipment] → E47 [Server units] IF CBECS Activity = Data center → E50 [Power usage effectiveness] OTHERWISE → E51 [Computer areas]			

E45	Tablets charged in building {ChargeTabs}			TABCHRG			
ASK	IF Tablets IN E38 [Computing equipment]						
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	Are any of the tablets charged in this {Structure}?						
Interviewer Instructions	N/A						
QUESTION TEXT – respondent-administered							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options		Image	SAS Name				
1. Yes							
2. No							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	IF Yes → E46 [Number of tablets] OTHERWISE: IF Servers IN E38 [Computing equipment] → E47 [Server units] IF CBECS Activity = Data center → E50 [Power usage effectiveness] IF Desktop computers OR Laptop computers IN E38 [Computing equipment] → E51 [Computer areas] OTHERWISE → E54 [Other equipment types]						

E46	Number of tablets {NumTabs}	<i>TABLETN</i>		
ASK	IF E45 [Tablets charged in building] = Yes			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	About how many tablets are charged in this {Structure}? If you're not sure, please provide your best estimate.			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	tablets	1 to 9,999,999		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Servers IN E38 [Computing equipment] → E47 [Server units] IF CBECS Activity = Data center → E50 [Power usage effectiveness] IF Desktop computers OR Laptop computers IN E38 [Computing equipment] → E51 [Computer areas] OTHERWISE → E54 [Other equipment types]			

E47	Server units {ServerUnit}	SRVUNIT		
ASK	IF Servers IN E38 [Computing equipment]			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	The next question is about how many servers are used in this {Structure}. Would you prefer to provide the number of servers or the number of server <u>racks</u> ?			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Servers				
2. Server racks				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input checked="" type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF RF THEN: IF CBECS Activity = Data center ➔ E54 [Other equipment types] OTHERWISE ➔ E51 [Computer areas] IF Missing ➔ E49 [Servers category] OTHERWISE ➔ E48 [Number of servers or racks]			

E48	Number of servers or racks {NumServers}		SERVERN			
ASK	IF E47 [Server units] given					
FILL	{ServerUnits} = "E47 [Server units]" {Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	How many {ServerUnits} are there in this {Structure}?					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
Numeric						
Watermark	Label	Range				
Enter a number	{ServerUnits}	1 to 9,999,999				
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input checked="" type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank					
NEXT	IF DK/Missing → E49 [Servers category] IF RF & CBECS Activity = Data center → E54 [Other equipment types] OTHERWISE: IF CBECS Activity = Data center → E50 [Power usage effectiveness] OTHERWISE → E51 [Computer areas]					

E49	Servers category {ServerCat}	SERVERC		
ASK	IF E47 [Server units] = Missing OR E48 [Number of servers or racks] = DK/Missing			
FILL	{ServerUnits} IF E47 [Server units] given = "E47 [Server units]" OTHERWISE = "servers" {Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD E5			
Question Text	Please look at Show Card E5. Which category best describes the number of {ServerUnits} in this {Structure}?			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	Which category best describes the number of {ServerUnits} in this {Structure}?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. 1 to 4				
2. 5 to 24				
3. 25 to 499				
4. 500 or more				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF CBECS Activity = Data center ➔ E50 [Power usage effectiveness] OTHERWISE ➔ E51 [Computer areas]			

E50	Power usage effectiveness {PUE}			<i>PUE</i>				
ASK	IF CBECS Activity = Data center & NOT (E47 [Server units] = RF OR E48 [Number of servers or racks] = RF)							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	What is the power usage effectiveness or PUE of this data center?							
Interviewer Instructions	N/A							
QUESTION TEXT – respondent-administered								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Numeric</i>								
Watermark	Label	Range						
1.00 to 9.99	PUE	1.00 to 9.99						
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input checked="" type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ E54 [Other equipment types]							

E51	Computer areas {ComputerAreas}			see below				
ASK	IF (Desktop computers OR Laptop computers OR Servers IN E38 [Computing equipment]) & NOT CBECS Activity = Data center							
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"							
QUESTION TEXT – interviewer-administered								
Show Card	SHOW CARD E6							
Question Text	Please look at Show Card E6. Which of these types of computer areas are found in this {Structure}?							
Interviewer Instructions	Enter all that apply							
QUESTION TEXT – respondent-administered								
Question Text	Which of these types of computer areas are found in this {Structure}?							
Respondent Instructions	Please select all that apply.							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Server closet			SRVRCLST					
2. Data center			DATACNTR					
3. Computer-based training room <i>(Room used for hands-on computer training, where every person or every two people have their own computer)</i>			TRNGRM					
4. Student or public computer center <i>(Such as at a school, library, hotel, or community center)</i>			STDNRM					
5. Trading floor <i>(Large, open area with computers and electronic equipment that is used for trading stocks or other securities in financial markets)</i>			TRDFLR					
6. None of these types								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Data center selected ➔ E52 [Data center square footage] OTHERWISE ➔ E54 [Other equipment types]							

E52	Data center square footage {DataCenterSqft}			DCNTRSF			
ASK	IF Data center IN E51 [Computer areas]						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	What is the square footage of the data center? If you're not sure, please provide your best estimate.						
Interviewer Instructions	N/A						
QUESTION TEXT – respondent-administered							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Numeric</i>							
Watermark	Label	Range					
Enter a number	square feet	10 to 999,999,999					
NONRESPONSE	<input type="checkbox"/> Explicit DK <input checked="" type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	➔ E53 [Data center characteristics]						

E53	Data center characteristics {DataCenterChars}			<i>see below</i>				
ASK	IF Data center IN E51 [Computer areas]							
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"							
QUESTION TEXT – interviewer-administered								
Show Card	SHOW CARD E7							
Question Text	Please look at Show Card E7. Which of these characteristics describe the data center space in this {Structure}?							
Interviewer Instructions	Enter all that apply							
QUESTION TEXT – respondent-administered								
Question Text	Which of these characteristics describe the data center space in this {Structure}?							
Respondent Instructions	Please select all that apply.							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Raised floor		<i>DCRSDLR</i>						
2. Separate cooling system		<i>DCSEPCL</i>						
3. Humidity control		<i>DCHMCNTL</i>						
4. Uninterruptible power supply (UPS)		<i>DCUPS</i>						
5. Controlled access		<i>DCCNTLAC</i>						
6. None of these								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	→ E54 [Other equipment types]							

E54	Other equipment types {OfficeEquipment}	<i>see below</i>		
ASK	IF (Electricity used OR Electricity generated) & NOT (B25 [Completely vacant] = Yes & C18 [Months in use] = 0) & NOT Establishment Activity = Vacant			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD E8			
Question Text	Please look at Show Card E8. Which of these equipment types are used in this {Structure}?			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – respondent-administered				
Question Text	Which of these equipment types are used in this {Structure}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Large floor-standing office devices (any combination of printer/copier/scanner/FAX machine)		<i>LGOFFDEV</i>		
2. Smaller desktop office devices (any combination of printer/copier/scanner/FAX machine)		<i>SMOFFDEV</i>		
3. Interactive whiteboards		<i>WBOARDS</i>		
4. Televisions or video displays		<i>TVVIDEO</i>		
5. Point-of-sales devices or cash registers		<i>RGSTR</i>		
6. None of these types				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Large floor-standing office devices selected ➔ E55 [Number of large office devices] IF Smaller desktop office devices selected ➔ E56 [Number of small office devices] IF Interactive whiteboards selected ➔ E57 [Number of interactive whiteboards] IF Televisions or video displays selected ➔ E58 [Number of TV or video displays] IF Point-of-sales devices or cash registers selected ➔ E59 [Number of cash registers] OTHERWISE: IF B5 [Office type] OR B11 [Retail type] OR B15 [Service type] = Bank or other financial institution ➔ E60 [Number of ATMs] IF C31 [No operating hours] = Correct, no operating hours OR C32 [Total hours open per week] = 0 ➔ E62 [Percent lit no hours] OTHERWISE ➔ E64 [Percent lit when open]			

E55	Number of large office devices {NumLrgOffDev}	LGOFFDEVN		
ASK	IF Large floor-standing office devices IN E54 [Other equipment types]			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
INTRO TEXT	E55 – E59 (as applicable, if the type was selected) are on one screen, with this introduction: About how many of the following types of equipment are used in this {Structure}? If you're not sure, please provide your best estimate.			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Large floor-standing office devices (any combination of printers, copiers, scanners, or FAX machines)			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
Numeric				
Watermark	Label	Range		
Enter a number	none	1 to 9,999,999		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	IF Smaller desktop office devices IN E54 [Other equipment types] ➔ E56 [Number of small office devices] IF Interactive whiteboards IN E54 [Other equipment types] ➔ E57 [Number of interactive whiteboards] IF Televisions or video displays IN E54 [Other equipment types] ➔ E58 [Number of TV or video displays] IF Point-of-sales devices or cash registers IN E54 [Other equipment types] ➔ E59 [Number of cash registers] IF B5 [Office type] OR B11 [Retail type] OR B15 [Service type] = Bank or other financial institution ➔ E60 [Number of ATMs] IF C31 [No operating hours] = Correct, no operating hours OR C32 [Total hours open per week] = 0 ➔ E62 [Percent lit no hours] OTHERWISE ➔ E64 [Percent lit when open]			

E56	Number of small office devices {NumSmloffDev}	SMOFFDEVN		
ASK	IF Smaller desktop office devices IN E54 [Other equipment types]			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
INTRO TEXT	E55 – E59 (as applicable, if the type was selected) are on one screen, with this introduction: About how many of the following types of equipment are used in this {Structure}? If you're not sure, please provide your best estimate.			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Small desktop office devices (any combination of printers, copiers, scanners, or FAX machines)			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
Numeric				
Watermark	Label	Range		
Enter a number	none	1 to 9,999,999		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	IF Interactive whiteboards IN E54 [Other equipment types] ➔ E57 [Number of interactive whiteboards] IF Televisions or video displays IN E54 [Other equipment types] ➔ E58 [Number of TV or video displays] IF Point-of-sales devices or cash registers IN E54 [Other equipment types] ➔ E59 [Number of cash registers] IF B5 [Office type] OR B11 [Retail type] OR B15 [Service type] = Bank or other financial institution ➔ E60 [Number of ATMs] IF C31 [No operating hours] = Correct, no operating hours OR C32 [Total hours open per week] = 0 ➔ E62 [Percent lit no hours] OTHERWISE ➔ E64 [Percent lit when open]			

E57	Number of interactive whiteboards {NumIntWhiteBoards}	WBOARDSN		
ASK	IF Interactive whiteboards IN E54 [Other equipment types]			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
INTRO TEXT	E55 – E59 (as applicable, if the type was selected) are on one screen, with this introduction: About how many of the following types of equipment are used in this {Structure}? If you're not sure, please provide your best estimate.			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Interactive whiteboards			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	none	1 to 999		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	IF Televisions or video displays IN E54 [Other equipment types] ➔ E58 [Number of TV or video displays] IF Point-of-sales devices or cash registers IN E54 [Other equipment types] ➔ E59 [Number of cash registers] IF B5 [Office type] OR B11 [Retail type] OR B15 [Service type] = Bank or other financial institution ➔ E60 [Number of ATMs] IF C31 [No operating hours] = Correct, no operating hours OR C32 [Total hours open per week] = 0 ➔ E62 [Percent lit no hours] OTHERWISE ➔ E64 [Percent lit when open]			

E58	Number of TV or video displays {NumTVVideoDisplays}	TVVIDEO		
ASK	IF Televisions or video displays IN E54 [Other equipment types]			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment" {RetailFill} IF CBECS Activity = Retail OR Establishment Activity = Retail store = "(include demonstration or floor models if they are turned on)" OTHERWISE = BLANK			
INTRO TEXT	E55 – E59 (as applicable, if the type was selected) are on one screen, with this introduction: About how many of the following types of equipment are used in this {Structure}? If you're not sure, please provide your best estimate.			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Televisions or video displays {RetailFill}			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	none	1 to 9,999		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	IF Point-of-sales devices or cash registers IN E54 [Other equipment types] ➔ E59 [Number of cash registers] IF B5 [Office type] OR B11 [Retail type] OR B15 [Service type] = Bank or other financial institution ➔ E60 [Number of ATMs] IF C31 [No operating hours] = Correct, no operating hours OR C32 [Total hours open per week] = 0 ➔ E62 [Percent lit no hours] OTHERWISE ➔ E64 [Percent lit when open]			

E59	Number of cash registers {NumRegister}		RGSTRN			
ASK	IF Point-of-sales devices or cash registers IN E54 [Other equipment types]					
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"					
INTRO TEXT	E55 – E59 (as applicable, if the type was selected) are on one screen, with this introduction: About how many of the following types of equipment are used in this {Structure}? If you're not sure, please provide your best estimate.					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	Point-of-sales devices or cash registers					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
Enter a number	none	1 to 9,999				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank					
NEXT	IF B5 [Office type] OR B11 [Retail type] OR B15 [Service type] = Bank or other financial institution ➔ E60 [Number of ATMs] IF C31 [No operating hours] = Correct, no operating hours OR C32 [Total hours open per week] = 0 ➔ E62 [Percent lit no hours] OTHERWISE ➔ E64 [Percent lit when open]					

E60	Number of ATMs {NumATM}	ATMN		
ASK	IF (Electricity used OR Electricity generated) & NOT (B25 [Completely vacant] = Yes & C18 [Months in use] = 0) & (B5 [Office type] OR B11 [Retail type] OR B15 [Service type] = Bank or other financial institution)			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	How many ATMs does this bank building have?			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	ATMs	0 to 99		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF C31 [No operating hours] = Correct, no operating hours OR C32 [Total hours open per week] = 0 → E62 [Percent lit no hours] OTHERWISE → E64 [Percent lit when open]			

E61	Vacant estab lit {VacantEstabLit}			VCTLIT				
ASK	IF (Electricity used OR Electricity generated) & Establishment Activity = Vacant							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Does this vacant establishment use any lighting at all? Do not consider outside lighting in this response.							
Interviewer Instructions	N/A							
QUESTION TEXT – respondent-administered								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Yes → E62 [Percent lit no hours] OTHERWISE → E83 [Window glass type]							

E62	Percent lit no hours {PctLitNoHours}	LTZHRP		
ASK	IF (Electricity used OR Electricity generated) & ((C31 [No operating hours] = Correct, no operating hours OR C32 [Total hours open per week] = 0) OR E61 [Vacant estab lit] = Yes)			
FILL	<p>{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"</p> <p>{LightingIntro} IF E61 [Vacant estab lit] was NOT asked = "The next questions are about lighting inside the {Structure}." OTHERWISE = BLANK</p> <p>{SqFt} IF A6 [Square footage] known = "A6 [Square footage] square feet" IF A6 [Square footage] = DK/Missing = "square footage"</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	<p>{LightingIntro}</p> <p>What percentage of the {SqFt} is usually lit?</p>			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
0 to 100	%	0 to 100		
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	IF DK/Missing → E63 [Lit no hours category] IF 1 to 100 → E69 [Lighting types] IF 0 THEN: IF Building interview → E79 [Percent of exterior lighted] IF Establishment interview → E83 [Window glass type]			

E63	Lit no hours category {PctLitNoHoursCat}	LZHRPC		
ASK	IF E62 [Percent lit no hours] = DK/Missing			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD E9			
Question Text	Looking at Show Card E9, what is your best estimate of the percentage of the {Structure} that is usually lit?			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	What is your best estimate of the percentage of the {Structure} that is usually lit?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	<input type="checkbox"/>	Image	SAS Name	
1. 1 to 25 percent				
2. 26 to 50 percent				
3. 51 to 75 percent				
4. 76 to 100 percent				
5. Not lit at all				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Not lit THEN: IF Building interview → E79 [Percent of exterior lighted] IF Establishment interview → E83 [Window glass type] OTHERWISE → E69 [Lighting types]			

E64	Percent lit when open {PctLitOpen}		<i>LTOHRP</i>			
ASK	IF (Electricity used OR Electricity generated) & NOT Establishment activity = Vacant & NOT C31 [No operating hours] = Correct, no operating hours & NOT C32 [Total hours open per week] = 0					
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment" {SqFt} IF A6 [Square footage] known = "A6 [Square footage] square feet" IF A6 [Square footage] = DK/Missing = "square footage"					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	The next questions are about the lighting inside the {Structure}. What percentage of the {SqFt} in this {Structure} is lit when it is normally open?					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
0 to 100	%	0 to 100				
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank					
NEXT	IF DK/Missing → E65 [Lit when open category] IF Percent given & (C28 [Open 24 hours a day] = Yes OR C32 [Total hours open per week] = 168 OR C33 [Weekly hours category] = 168) → E66 [Lights off during 24 hours] OTHERWISE → E67 [Percent lit off hours]					

E65	Lit when open category {PctLitOpCat}	<i>LORPC</i>		
ASK	IF E64 [Percent lit when open] = DK/Missing			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD E9			
Question Text	Looking at Show Card E9, what is your best estimate of the percentage of the square feet in this {Structure} that is lit when it is normally open?			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	What is your best estimate of the percentage of the square feet in this {Structure} that is lit when it is normally open?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. 1 to 25 percent				
2. 26 to 50 percent				
3. 51 to 75 percent				
4. 76 to 100 percent				
5. Not lit at all when it is normally open				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Building interview & (C28 [Open 24 hours a day] = Yes OR C32 [Total hours open per week] = 168 OR C33 [Weekly hours category]) = 168 → E66 [Lights off during 24 hours] OTHERWISE → E67 [Percent lit off hours]			

E66	Lights off during 24 hours {ReduceLight24Hrs}		<i>LTNR24</i>			
ASK	IF (Electricity used OR Electricity generated) & (C28 [Open 24 hours a day] = Yes OR C32 [Total hours open per week] = 168 OR C33 [Weekly hours category] = 168)					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	Are there any periods during a normal 24-hour day when some of the lights are turned off?					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Enumerated</i>						
Response options	Image	SAS Name				
1. Yes						
2. No						
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	IF Yes → E67 [Percent lit off hours] IF No OR Missing: IF E64 [Percent lit when open] > 0 OR E65 [Lit when open category] ≠ Not lit → E69 [Lighting types] OTHERWISE → E79 [Percent of exterior lighted]					

E67	Percent lit off hours {PctLitClosed}	LTNHRP		
ASK	IF (Electricity used OR Electricity generated) & & (E66 [Lights off during 24 hours] = Yes OR (NOT (C28 [Open 24 hours a day]) = Yes OR C31 [No operating hours] = Correct, no operating hours OR C32 [Total hours open per week] = 0 OR 168 OR C33 [Weekly hours category] =168 OR Establishment Activity = Vacant)))			
FILL	{SqFt} IF A6 [Square footage] known = "A6 [Square footage] square feet" IF A6 [Square footage] = DK/Missing = "square footage" {Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment" {OffHours} IF C28 [Open 24 hours a day] = Yes OR C32 [Total hours open per week] OR C33 [Weekly hours category] = 168 = "the time during a 24-hour period when some lights are turned off" OTHERWISE = "the hours when the {Structure} is not normally open"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	What percentage of the {SqFt} is lit during off hours, that is {OffHours}?			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
0 to 100	%	0 to 100		
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	IF DK/Missing → E68 [Lit off hours category] IF 1 – 100 → E69 [Lighting types] IF 0 & (E64 [Percent lit when open] > 0 OR E65 [Lit when open category] ≠ Not lit) → E69 [Lighting types] OTHERWISE: IF Building interview → E79 [Percent of exterior lighted] IF Establishment interview → E83 [Window glass type]			

E68	Lit off hours category {PctLitCICat}	<i>LNHRPC</i>		
ASK	IF E67 [Percent lit off hours] = DK/Missing			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD E9			
Question Text	Looking at Show Card E9, what is your best estimate of the percentage lit during off hours?			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	What is your best estimate of the percentage lit during off hours?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. 1 to 25 percent				
2. 26 to 50 percent				
3. 51 to 75 percent				
4. 76 to 100 percent				
5. Not lit at all during off hours				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Any response except Not lit OR (Not lit & (E64 [Percent lit when open] > 0 OR E65 [Lit when open category] ≠ Not lit)) → E69 [Lighting types] OTHERWISE: IF Building interview → E79 [Percent of exterior lighted] IF Establishment interview → E83 [Window glass type]			

E69	Lighting types {BulbTypes}	<i>see below</i>		
ASK	IF E62 [Percent lit no hours] > 0 OR E63 [Lit no hours category] ≠ Not lit OR E64 [Percent lit when open] > 0 OR E65 [Lit when open category] ≠ Not lit OR E67 [Percent lit off hours] > 0 OR E68 [Lit off hours category] ≠ Not lit			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD E10			
Question Text	Looking at Show Card E10, what types of lighting are used to light any of the space in this {Structure}?			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – respondent-administered				
Question Text	What types of lighting are used to light any of the space in this {Structure}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Fluorescent lighting other than compact fluorescent bulbs		<i>FLUOR</i>		
2. Compact fluorescent (CFL) bulbs		<i>CFLR</i>		
3. Incandescent light bulbs, other than halogen bulbs		<i>BULB</i>		
4. Halogen bulbs		<i>HALO</i>		
5. High intensity discharge (HID) lights such as high pressure sodium, metal halide, or mercury vapor		<i>HID</i>		
6. Light-emitting diode (LED) lights		<i>LED</i>		
7. Other type of lighting		<i>OTLT</i>		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other type of lighting selected ➔ E70 [Other bulb type] IF More than one type selected THEN: IF Fluorescent lighting selected ➔ E71 [Percent lit by fluorescent] IF CFL bulbs selected ➔ E72 [Percent lit by compact fluorescent] IF Incandescent light bulbs selected ➔ E73 [Percent lit by incandescent] IF Halogen bulbs selected ➔ E74 [Percent lit by halogen] IF HID lights selected ➔ E75 [Percent lit by HID] OTHERWISE ➔ E78 [Lighting controls]			

E70	Other bulb type {BulbSpec}			OTLTX			
ASK	IF Other type of lighting IN E69 [Lighting types]						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	N/A – other specify box – see watermark						
Interviewer Instructions	N/A						
QUESTION TEXT – respondent-administered							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>String Text</i>							
<i>Watermark</i>							
Briefly describe the other type of lighting							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank						
NEXT	IF Fluorescent lighting IN E69 [Lighting types] → E71 [Percent lit by fluorescent] IF CFL bulbs IN E69 [Lighting types] → E72 [Percent lit by compact fluorescent] IF Incandescent light bulbs IN E69 [Lighting types] → E73 [Percent lit by incandescent] IF Halogen bulbs IN E69 [Lighting types] → E74 [Percent lit by halogen] IF HID lights IN E69 [Lighting types] → E75 [Percent lit by HID] IF LED lights IN E69 [Lighting types] → E76 [Percent lit by LED] OTHERWISE → E78 [Lighting controls]						

E71	Percent lit by fluorescent {FluorPct}	FLUORP		
ASK	IF More than one type & Fluorescent lighting IN E69 [Lighting types]			
FILL	<p>{Explanation} IF E64 [Percent lit when open] ≠ 100 = "This question is only referring to the <u>lighted portion</u> of the floorspace, so these percentages must add up to at least 100, but since more than one type of bulb can light the same area, it is also possible for them to add up to <u>more</u> than 100." IF E64 [Percent lit when open] = 100 = "These percentages must add up to at least 100, but since more than one type of bulb can light the same area, it is also possible for them to add up to <u>more</u> than 100."</p> <p>{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"</p>			
INTRO TEXT	<p>E71 – E77 (as applicable, if the lighting type was selected) are on one screen, with this introduction:</p> <p>The next questions are about the percentage of floorspace lit by each type of lighting. Please keep in mind: {Explanation}</p> <p>What percentage of the lighted area in this {Structure} is lit by each of the following bulb types? If you're not sure, please provide your best estimate.</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Fluorescent lighting			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
Numeric				
Watermark	Label	Range		
0 to 100	%	0 to 100		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	IF CFL bulbs IN E69 [Lighting types] → E72 [Percent lit by compact fluorescent] IF Incandescent light bulbs IN E69 [Lighting types] → E73 [Percent lit by incandescent] IF Halogen bulbs IN E69 [Lighting types] → E74 [Percent lit by halogen] IF HID lights IN E69 [Lighting types] → E75 [Percent lit by HID] IF LED lights IN E69 [Lighting types] → E76 [Percent lit by LED] IF Other type of lighting IN E69 [Lighting types] → E77 [Percent lit by other lighting] OTHERWISE → E78 [Lighting controls]			

E72	Percent lit by compact fluorescent {CFlrPct}		CFLRP			
ASK	IF More than one type & CFL bulbs IN E69 [Lighting types]					
FILL	<p>{Explanation} IF E64 [Percent lit when open] ≠ 100 = "This question is only referring to the <u>lighted portion</u> of the floorspace, so these percentages must add up to at least 100, but since more than one type of bulb can light the same area, it is also possible for them to add up to <u>more</u> than 100." IF E64 [Percent lit when open] = 100 = "These percentages must add up to at least 100, but since more than one type of bulb can light the same area, it is also possible for them to add up to <u>more</u> than 100."</p> <p>{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"</p>					
INTRO TEXT	<p>E71 – E77 (as applicable, if the lighting type was selected) are on one screen, with this introduction:</p> <p>The next questions are about the percentage of floorspace lit by each type of lighting. Please keep in mind: {Explanation}</p> <p>What percentage of the lighted area in this {Structure} is lit by each of the following bulb types? If you're not sure, please provide your best estimate.</p>					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	Compact fluorescent (CFL) bulbs					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
Numeric						
Watermark	Label	Range				
0 to 100	%	0 to 100				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank					
NEXT	IF Incandescent light bulbs IN E69 [Lighting types] → E73 [Percent lit by incandescent] IF Halogen bulbs IN E69 [Lighting types] → E74 [Percent lit by halogen] IF HID lights IN E69 [Lighting types] → E75 [Percent lit by HID] IF LED lights IN E69 [Lighting types] → E76 [Percent lit by LED] IF Other type of lighting IN E69 [Lighting types] → E77 [Percent lit by other lighting] OTHERWISE → E78 [Lighting controls]					

E73	Percent lit by incandescent {IncPct}		BULBP			
ASK	IF More than one type & Incandescent light bulbs IN E69 [Lighting types]					
FILL	<p>{Explanation} IF E64 [Percent lit when open] ≠ 100 = "This question is only referring to the <u>lighted portion</u> of the floorspace, so these percentages must add up to at least 100, but since more than one type of bulb can light the same area, it is also possible for them to add up to <u>more</u> than 100." IF E64 [Percent lit when open] = 100 = "These percentages must add up to at least 100, but since more than one type of bulb can light the same area, it is also possible for them to add up to <u>more</u> than 100."</p> <p>{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"</p>					
INTRO TEXT	<p>E71 – E77 (as applicable, if the lighting type was selected) are on one screen, with this introduction:</p> <p>The next questions are about the percentage of floorspace lit by each type of lighting. Please keep in mind: {Explanation}</p> <p>What percentage of the lighted area in this {Structure} is lit by each of the following bulb types? If you're not sure, please provide your best estimate.</p>					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	Incandescent light bulbs					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
Numeric						
Watermark	Label	Range				
0 to 100	%	0 to 100				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank					
NEXT	IF Halogen bulbs IN E69 [Lighting types] → E74 [Percent lit by halogen] IF HID lights IN E69 [Lighting types] → E75 [Percent lit by HID] IF LED lights IN E69 [Lighting types] → E76 [Percent lit by LED] IF Other type of lighting IN E69 [Lighting types] → E77 [Percent lit by other lighting] OTHERWISE → E78 [Lighting controls]					

E74	Percent lit by halogen {HaloPct}		HALOP			
ASK	IF More than one type & Halogen bulbs IN E69 [Lighting types]					
FILL	<p>{Explanation} IF E64 [Percent lit when open] ≠ 100 = "This question is only referring to the <u>lighted portion</u> of the floorspace, so these percentages must add up to at least 100, but since more than one type of bulb can light the same area, it is also possible for them to add up to <u>more</u> than 100." IF E64 [Percent lit when open] = 100 = "These percentages must add up to at least 100, but since more than one type of bulb can light the same area, it is also possible for them to add up to <u>more</u> than 100."</p> <p>{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"</p>					
INTRO TEXT	<p>E71 – E77 (as applicable, if the lighting type was selected) are on one screen, with this introduction:</p> <p>The next questions are about the percentage of floorspace lit by each type of lighting. Please keep in mind: {Explanation}</p> <p>What percentage of the lighted area in this {Structure} is lit by each of the following bulb types? If you're not sure, please provide your best estimate.</p>					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	Halogen bulbs					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
0 to 100	%	0 to 100				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank					
NEXT	IF HID lights IN E69 [Lighting types] → E75 [Percent lit by HID] IF LED lights IN E69 [Lighting types] → E76 [Percent lit by LED] IF Other type of lighting IN E69 [Lighting types] → E77 [Percent lit by other lighting] OTHERWISE → E78 [Lighting controls]					

E75	Percent lit by HID {HIDPct}		HIDP			
ASK	IF More than one type & HID lights IN E69 [Lighting types]					
FILL	<p>{Explanation} IF E64 [Percent lit when open] ≠ 100 = "This question is only referring to the <u>lighted portion</u> of the floorspace, so these percentages must add up to at least 100, but since more than one type of bulb can light the same area, it is also possible for them to add up to <u>more</u> than 100." IF E64 [Percent lit when open] = 100 = "These percentages must add up to at least 100, but since more than one type of bulb can light the same area, it is also possible for them to add up to <u>more</u> than 100."</p> <p>{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"</p>					
INTRO TEXT	<p>E71 – E77 (as applicable, if the lighting type was selected) are on one screen, with this introduction:</p> <p>The next questions are about the percentage of floorspace lit by each type of lighting. Please keep in mind: {Explanation}</p> <p>What percentage of the lighted area in this {Structure} is lit by each of the following bulb types? If you're not sure, please provide your best estimate.</p>					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	High intensity discharge (HID) lights					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
0 to 100	%	0 to 100				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank					
NEXT	IF LED lights IN E69 [Lighting types] → E76 [Percent lit by LED] IF Other type of lighting IN E69 [Lighting types] → E77 [Percent lit by other lighting] OTHERWISE → E78 [Lighting controls]					

E76	Percent lit by LED {LEDPct}	LEDP		
ASK	IF More than one type & LED lights IN E69 [Lighting types]			
FILL	<p>{Explanation} IF E64 [Percent lit when open] ≠ 100 = "This question is only referring to the <u>lighted portion</u> of the floorspace, so these percentages must add up to at least 100, but since more than one type of bulb can light the same area, it is also possible for them to add up to <u>more</u> than 100." IF E64 [Percent lit when open] = 100 = "These percentages must add up to at least 100, but since more than one type of bulb can light the same area, it is also possible for them to add up to <u>more</u> than 100."</p> <p>{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"</p>			
INTRO TEXT	<p>E71 – E77 (as applicable, if the lighting type was selected) are on one screen, with this introduction:</p> <p>The next questions are about the percentage of floorspace lit by each type of lighting. Please keep in mind: {Explanation}</p> <p>What percentage of the lighted area in this {Structure} is lit by each of the following bulb types? If you're not sure, please provide your best estimate.</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	LED lights			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
0 to 100	%	0 to 100		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	IF Other type of lighting IN E69 [Lighting types] → E77 [Percent lit by other lighting] OTHERWISE → E78 [Lighting controls]			

E77	Percent lit by other lighting {OthPct}		OTLTP			
ASK	IF More than one type & Other type of lighting IN E69 [Lighting types]					
FILL	<p>{Explanation} IF E64 [Percent lit when open] ≠ 100 = "This question is only referring to the <u>lighted portion</u> of the floorspace, so these percentages must add up to at least 100, but since more than one type of bulb can light the same area, it is also possible for them to add up to <u>more</u> than 100." IF E64 [Percent lit when open] = 100 = "These percentages must add up to at least 100, but since more than one type of bulb can light the same area, it is also possible for them to add up to <u>more</u> than 100."</p> <p>{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"</p>					
INTRO TEXT	<p>E71 – E77 (as applicable, if the lighting type was selected) are on one screen, with this introduction:</p> <p>The next questions are about the percentage of floorspace lit by each type of lighting. Please keep in mind: {Explanation}</p> <p>What percentage of the lighted area in this {Structure} is lit by each of the following bulb types? If you're not sure, please provide your best estimate.</p>					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	Other lighting type					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
0 to 100	%	0 to 100				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank					
NEXT	➔ E78 [Lighting controls]					

E78	Lighting controls {LightingControls}	<i>see below</i>		
ASK	IF E62 [Percent lit no hours] > 0 OR E63 [Lit no hours category] ≠ Not lit OR E64 [Percent lit when open] > 0 OR E65 [Lit when open category] ≠ Not lit OR E67 [Percent lit off hours] > 0 OR E68 [Lit off hours category] ≠ Not lit			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD E11			
Question Text	Please look at Show Card E11. Which of these lighting controls or lighting control strategies, if any, are used in this {Structure}?			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – respondent-administered				
Question Text	Which of these lighting controls or lighting control strategies, if any, are used in this {Structure}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Scheduling <i>(Lights are automatically dimmed or turned off at certain times of the day.)</i>		SCHED		
2. Occupancy sensors that reduce lighting when rooms are unoccupied <i>(Sensors that automatically turn off or dim lights when a person leaves a room or space.)</i>		OCSN		
3. Multi-level lighting or dimming <i>(Control devices that adjust lighting power by continuous dimming, stepped dimming, or stepped switching.)</i>		DIM		
4. Daylight harvesting <i>(A lighting control and shade system that automatically dims light fixtures when natural light is available, and/or adjusts shades so that the combination of natural light and artificial light combine to provide the desired level of lighting.)</i>		DAYHARV		
5. High-end trimming or light-level tuning <i>(High-end trimming sets the maximum level of lighting to less than 100%. Light-level tuning sets the level even lower if a room or space needs less light.)</i>		TRIM		
6. Plug-load control <i>(Device that automatically turns off wall plugs and lights when a person leaves a room or space.)</i>		PLGCTRL		
7. Demand responsive lighting <i>(Reduces lighting at times of peak electricity pricing.)</i>		DRLGHT		
8. None of these				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Building interview → E79 [Percent of exterior lighted] IF Establishment interview → E83 [Window glass type]			

E79	Percent of exterior lighted {PctExteriorLighted}			LTEXPC			
ASK	IF (Electricity used OR Electricity generated) & Building interview						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	What percentage of all the exterior building wall surfaces is lit? Is it less than 10 percent, 10 to 25, 25 to 50, or more than 50 percent of the total building façade that is lit?						
Interviewer Instructions	N/A						
QUESTION TEXT – respondent-administered							
Question Text	What percentage of all the exterior building wall surfaces is lit?						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options		Image	SAS Name				
1. Less than 10 percent							
2. 10 to 25 percent							
3. 25 to 50 percent							
4. More than 50 percent							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	→ E80 [Lighted parking area]						

E80	Lighted parking area {LightedParking}			PKLT			
ASK	IF (Electricity used OR Electricity generated) & Building interview						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	Is there an indoor or outdoor parking area associated with the building that is lit with fixtures powered through the building's electrical service?						
Interviewer Instructions	N/A						
QUESTION TEXT – respondent-administered							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options		Image	SAS Name				
1. Yes							
2. No							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	IF Yes → E81 [Indoor or outdoor lighted parking] IF No OR Missing → E83 [Window glass type]						

E81	Indoor or outdoor lighted parking {ParkingInOrOut}	PKLTINOUT												
ASK	IF E80 [Lighted parking area] = Yes													
QUESTION TEXT – interviewer-administered														
Show Card	N/A													
Question Text	Is this lighted parking area part of the building, such as an indoor parking level; is it separate, such as an outdoor parking lot or parking garage; or does this building have both of these types of lighted parking areas?													
Interviewer Instructions	N/A													
QUESTION TEXT – respondent-administered														
Question Text	No changes required													
Respondent Instructions	N/A													
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date													
RESPONSE OPTIONS														
Enumerated <table border="1"> <thead> <tr> <th>Response options</th> <th>Image</th> <th>SAS Name</th> </tr> </thead> <tbody> <tr> <td>1. Part of the building (indoor)</td> <td></td> <td></td> </tr> <tr> <td>2. Separate parking (lot or garage)</td> <td></td> <td></td> </tr> <tr> <td>3. Both types of parking areas</td> <td></td> <td></td> </tr> </tbody> </table>			Response options	Image	SAS Name	1. Part of the building (indoor)			2. Separate parking (lot or garage)			3. Both types of parking areas		
Response options	Image	SAS Name												
1. Part of the building (indoor)														
2. Separate parking (lot or garage)														
3. Both types of parking areas														
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank													
NEXT	IF Answer given → E82 [Vehicle parking capacity] IF Missing → E83 [Window glass type]													

E82	Vehicle parking capacity {VehicleCapacity}		PKLTN			
ASK	IF E81 [Indoor or outdoor lighted parking] given					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	How many parking spaces are in this lighted parking area?					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
Enter a number	parking spaces	1 to 999,999				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	➔ E83 [Window glass type]					

E83	Window glass type {WindowPanes}	WINTYP		
ASK	IF Building OR Establishment interview			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Do the exterior windows in this {Structure} contain single-layer glass, multi-layer glass, or a combination of both of these types?			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Single-layer glass				
2. Multi-layer glass				
3. Combination of both				
4. No windows				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Single-layer, Multi-layer, OR Combination → E84 [Daylighting features] IF No windows OR Missing → FRT [Section F Routing]			

E84	Daylighting features {DaylightFeatures}	<i>see below</i>		
ASK	IF E83 [Window glass type] = Single-layer, Multi-layer, OR Combination			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD E12			
Question Text	Please look at the list on Show Card E12. Which of these daylighting or conservation features, if any, are present in this {Structure}?			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – respondent-administered				
Question Text	Which of these daylighting or conservation features, if any, are present in this {Structure}?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Tinted window glass		<i>TINT</i>		
2. Reflective window glass		<i>REFL</i>		
3. External overhangs or awnings		<i>AWN</i>		
4. Skylights or atriums designed to provide light		<i>SKYLT</i>		
5. None of these				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	→ E85 [Percent daylight]			

E85	Percent daylight {Daylight}		<i>DAYLTP</i>			
ASK	IF E83 [Window glass type] = Single-layer, Multi-layer, OR Combination					
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	What percentage of the {Structure} receives enough outside light so that the interior lights do not need to be turned on? If you're not sure, please provide your best estimate.					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
0 to 100	%	0 to 100				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	➔ FRT [Section F Routing]					

Section F: Electricity

FRT	Section F Routing
	IF Electricity used ➔ F1 [Provide electricity figures] OTHERWISE ➔ GRT [Section G Routing]

F1	Provide electricity figures {ProvideElFigs}	ELFIGS
ASK	IF Electricity used	
FILL	{Structure} IF interview = Building = "building" IF interview = Establishment = "establishment"	
QUESTION TEXT – interviewer-administered		
Show Card	N/A	
Question Text	The next questions are about electricity usage in this {Structure} during calendar year 2018. Are you able to provide the <u>total annual</u> electricity usage for this {Structure} for 2018?	
Interviewer Instructions	N/A	
QUESTION TEXT – web		
Question Text	No changes required	
Respondent Instructions	N/A	
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date	
RESPONSE OPTIONS		
<i>Enumerated</i>		
Response options	Image	SAS Name
1. Yes		
2. No		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank	
NEXT	IF Yes & (D17 [Type of solar] = Solar panels used to generate electricity OR (Solar panels used to generate electricity OR Wind turbines IN D140 [Generation technologies]) OR (Wind turbines IN D142 [Generation technologies other than solar]) OR D146 [Use of generated electricity] = Whenever electricity was used) ➔ F3 [Report generated electricity] IF No OR Missing: IF Establishment interview ➔ F2 [Electricity included in rent] IF Building interview ➔ F23 [Number electricity suppliers] OTHERWISE ➔ F4 [Electricity consumption]	

F2	Electricity included in rent {ElInRent}			ELNRENT			
ASK	IF Establishment interview & F1 [Provide electricity figures] = No OR Missing						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	Is the cost of the electricity used in this establishment included in the rent?						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options		Image	SAS Name				
1. Yes							
2. No							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	IF Yes → F24 [Electricity suppliers] IF No/Missing → F23 [Number electricity suppliers]						

F3	Report generated electricity {GenElIncl}	ELGENREP		
ASK	IF F1 [Provide electricity figures] = Yes & (D17 [Type of solar] = Solar panels used to generate electricity OR (Solar panels used to generate electricity OR Wind turbines IN D140 [Generation technologies]) OR (Wind turbines IN D142 [Generation technologies other than solar]) OR D146 [Use of generated electricity] = Whenever electricity was used)			
FILL	{Structure} IF interview = Building = "building" IF interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Earlier you reported that this {Structure} has on-site electricity generation. If possible, we would like to collect the combined purchased and generated electricity usage for this {Structure}. Are you able to report the combined purchased and generated electricity usage, or are you able to report only the purchased electricity usage?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	Earlier in the survey, you reported that this {Structure} has on-site electricity generation. If possible, please report the combined purchased and generated electricity for this {Structure}. Are you able to report the combined purchased and generated electricity usage, or are you able to report only the purchased electricity usage?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Can report combined purchased and generated electricity usage				
2. Can report only purchased electricity usage				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Can report combined purchased and generated OR Missing → F4 [Electricity consumption] IF Can report only purchased → F6 [Purchased electricity consumption]			

F4	Electricity consumption {ElCons}		<i>ELCNS</i>			
ASK	IF F1 [Provide electricity figures] = Yes & NOT F3 [Reported generated electricity] = Can report only purchased					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	Please give me the total kilowatthours of electricity used in calendar year 2018.					
Interviewer Instructions	Kilowatthours may be referred to as kWh					
QUESTION TEXT – web						
Question Text	How many total kilowatthours (kWh) of electricity were used in calendar year 2018?					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
Enter a number	kWh	1-99,999,999,999,999				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	IF Missing → F23 [Number electricity suppliers] IF F3 [Report generated electricity] = Can report combined purchased and generated → F5 [Able to report purchased electricity] OTHERWISE → F7 [Electricity expenditures]					

F5	Able to report purchased electricity {ReportPurchEl}			<i>REPSUP</i>			
ASK	IF F3 [Report generated electricity] = Can report combined purchased and generated & F4 [Electricity consumption] given						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	Are you able to report how much of this total electricity was purchased from a supplier, <u>not including</u> what was generated on-site?						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options		Image	SAS Name				
1. Yes							
2. No							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	IF Yes → F6 [Purchased electricity consumption] IF No OR Missing → F7 [Electricity expenditures]						

F6	Purchased electricity consumption {ElConsFromSupplier}		<i>ELCNSSUP</i>		
ASK	IF F3 [Report generated electricity] = Can report only purchased OR F5 [Able to report purchased electricity] = Yes				
QUESTION TEXT – interviewer-administered					
Show Card	N/A				
Question Text	Please give me the total kilowatthours of electricity <u>purchased</u> in 2018.				
Interviewer Instructions	N/A				
QUESTION TEXT – web					
Question Text	How many total kilowatthours of electricity were <u>purchased</u> in 2018?				
Respondent Instructions	N/A				
ITEM TYPE	<input type="checkbox"/> Enumerated	<input checked="" type="checkbox"/> Numeric	<input type="checkbox"/> String Text	<input type="checkbox"/> Date	
RESPONSE OPTIONS					
<i>Numeric</i>					
Watermark	Label	Range			
Enter a number	kWh	1-99,999,999,999,999			
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank				
NEXT	IF Missing & F3 [Report generated electricity] = Can report only purchased → F23 [Number electricity suppliers] OTHERWISE → F7 [Electricity expenditures]				

F7	Electricity expenditures {EIExp}		ELEXP			
ASK	IF F4 [Electricity consumption] given OR F6 [Purchased electricity consumption] given					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	Please give me the total dollars spent on electricity in 2018. This should include state and local taxes and all charges such as: fuel adjustment, system, distribution, and demand.					
Interviewer Instructions	Do <u>not</u> enter cents					
QUESTION TEXT – web						
Question Text	How much was spent on electricity in 2018? This should include state and local taxes and all charges such as: fuel adjustment, system, distribution, and demand.					
Respondent Instructions	No changes required					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
Enter dollar amount	None	0-999,999,999				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	➔ F8 [Starting date for electricity figures]					

F8	Starting date for electricity figures {EIStartDate}		<i>ELSTDAT</i>			
ASK	IF F4 [Electricity consumption] given OR F6 [Purchased electricity consumption] given					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	What is the starting date for these electricity usage figures?					
Interviewer Instructions	N/A					
QUESTION TEXT – web						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input checked="" type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Date</i>						
Watermark						
mm/dd/yyyy						
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank					
NEXT	→ F9 [Ending date for electricity figures]					

F9	Ending date for electricity figures {EIEndDate}			<i>ELENDAT</i>
ASK	IF F4 [Electricity consumption] given OR F6 [Purchased electricity consumption] given			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	What is the ending date for these electricity usage figures?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input checked="" type="checkbox"/> Date			
RESPONSE OPTIONS				
Date				
Watermark				
mm/dd/yyyy				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	IF Building interview & (C5 [Number of businesses] > 1 OR C6 [Number of businesses category] ≠ Zero OR One) THEN: IF CBECS Activity ≠ Enclosed mall → F10 [All occupants electricity included] IF CBECS Activity = Enclosed mall → F12 [Electricity covers whole mall] OTHERWISE → F16 [Other bldgs electricity included]			

F10	All occupants electricity included {AllOccEl1}	<i>ELALL</i>		
ASK	IF Building interview & (F4 [Electricity consumption] given OR F6 [Purchased electricity consumption] given & (C5 [Number of businesses] >1 OR C6 [Number of businesses category] ≠ Zero OR One) & CBECS Activity ≠ Enclosed mall			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Do these figures include the electricity for all of the businesses or organizations in this building?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Yes				
2. No				
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF No ➔ F11 [Sq ft not included] OTHERWISE ➔ F16 [Other bldgs electricity included]			

F11	Sq ft not included {NonElSqFt1}			<i>ELNISF</i>
ASK	IF F10 [All occupants electricity included] = No			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	What is the approximate square footage of the space in the building that is <u>not</u> included in these figures? If you're not sure, please provide your best estimate.			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark		Label	Range	
Enter a number		square feet	1 to 999,999,999	
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ F18 [Include other major electricity]			

F12	Electricity covers whole mall {ElMallInclude}	<i>ELMLLINC</i>		
ASK	IF (F4 [Electricity consumption] given OR F6 [Purchased electricity consumption] given & (C5 [Number of businesses] >1 OR C6 [Number of businesses category] ≠ Zero OR One) & CBECS Activity = Enclosed mall			
FILL	{FoodCourt} IF B41 [Food court] = Yes = "food court," OTHERWISE = BLANK			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Do these figures include the electricity for the entire mall building, including the anchor stores, {FoodCourt} common areas, and individual stores?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Yes				
2. No				
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF No ➔ F13 [Not included in mall electricity] OTHERWISE ➔ F16 [Other bldgs electricity included]			

F13	Not included in mall electricity {WhatElMallExclude}	<i>see below</i>		
ASK	IF F12 [Electricity covers whole mall] = No			
FILL	{FoodCourt} IF B41 [Food court] = Yes = "Food court" OTHERWISE = BLANK			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Which areas are <u>not</u> included?			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Anchor stores		<i>ELMLLANC</i>		
2. {FoodCourt}		<i>ELMLLFC</i>		
3. Common areas		<i>ELMLLCOM</i>		
4. Individual stores		<i>ELMLLST</i>		
5. Other		<i>ELMLLOT</i>		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other selected ➔ F14 [Other not included in mall electricity] OTHERWISE ➔ F15 [Mall sq ft not included]			

F14	Other not included in mall electricity {OtherElMallExclude}			<i>ELMLLOTX</i>			
ASK	If Other IN F13 [Not included in mall electricity]						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	N/A – other specify box – see watermark						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>String Text</i>							
<i>Watermark</i>							
Briefly describe the other type of area that is not included							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank						
NEXT	→ F15 [Mall sq ft not included]						

F15	Mall sq ft not included {NonElMallSqFt1}			<i>ELNMLSF</i>				
ASK	IF F12 [Electricity covers whole mall] = No							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	What is the approximate square footage of the space in the building that is <u>not</u> included in these figures? If you're not sure, please provide your best estimate.							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Numeric</i>								
Watermark	Label	Range						
Enter a number	square feet	1-999,999,999						
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ F18 [Include other major electricity]							

F16	Other bldgs electricity included {OthElBldgs1}	<i>ELOTBD</i>		
ASK	IF (F4 [Electricity consumption] given OR F6 [Purchased electricity consumption] given & NOT (F10 [All occupants electricity included] = No OR F12 [Electricity covers whole mall] = No)			
FILL	{ Structures } IF Interview = Building = "buildings" IF Interview = Establishment = "establishments"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Is any consumption from other {Structures} included in these figures?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Yes				
2. No				
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Yes ➔ F17 [Sq ft of other included] OTHERWISE ➔ F18 [Include other major electricity]			

F17	Sq ft of other included {OthElSqFt1}		<i>ELOTSF</i>			
ASK	IF F16 [Other bldgs electricity included] = Yes					
FILL	{Structures} IF interview = Building = "buildings" IF interview = Establishment = "establishments"					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	What is the approximate square footage of the <u>other</u> {Structures} that are included in these figures? If you're not sure, please provide your best estimate.					
Interviewer Instructions	N/A					
QUESTION TEXT – web						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
Enter a number	square feet	1-999,999,999				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	➔ F18 [Include other major electricity]					

F18	Include other major electricity {OthElUse1}			<i>ELOTUS</i>			
ASK	IF F4 [Electricity consumption] given OR F6 [Purchased electricity consumption] given						
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	Do these figures include charges for any <u>other</u> major electricity usage outside the {Structure}, such as electric vehicle charging stations, parking lot lights, exterior lights, signs or billboards, large pumps, or swimming pools?						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options	Image	SAS Name					
1. Yes							
2. No							
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	IF Yes → F19 [Outside uses included in electricity] IF No OR DK/Missing THEN: IF Building interview → F21 [Anything unusual about electricity use] IF Establishment interview → F23 [Number electricity suppliers]						

F19	Outside uses included in electricity {WhatElUse1}	<i>see below</i>		
ASK	IF F18 [Include other major electricity] = Yes			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD F1			
Question Text	Looking at the list on Show Card F1, please tell me which of these outside uses is included in the electricity figures.			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	Which of these outside uses is included in the electricity figures?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Electric vehicle charging stations		<i>ELOUTELV</i>		
2. Parking lot lights		<i>ELOUTPRK</i>		
3. Exterior lights		<i>ELOUTLTS</i>		
4. Signs or billboards		<i>ELOUTSGN</i>		
5. Large pumps		<i>ELOUTPMP</i>		
6. Swimming pools		<i>ELOUTSWM</i>		
7. Other		<i>ELOUTTOT</i>		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other selected → F20 [Other type of outside electricity use] OTHERWISE: IF Building interview → F21 [Anything unusual about electricity use] IF Establishment interview → F23 [Number electricity suppliers]			

F20	Other type of outside electricity use {OtherElUse1}			<i>ELOUTOTX</i>			
ASK	If Other IN F19 [Outside uses included in electricity]						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	N/A – other specify box – see watermark						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>String Text</i>							
<i>Watermark</i>							
Briefly describe this other type of outside electricity use							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank						
NEXT	IF Building interview → F21 [Anything unusual about electricity use] IF Establishment interview → F23 [Number electricity suppliers]						

F21	Anything unusual about electricity use {AnythingUnusualElUse} ELUNUSUAL					
ASK	IF Building interview & (F4 [Electricity consumption] given OR F6 [Purchased electricity consumption] given)					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	Is there anything about this building that would make the electricity consumption higher or lower than average?					
Interviewer Instructions	N/A					
QUESTION TEXT – web						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Enumerated</i>						
Response options	Image	SAS Name				
1. Yes						
2. No						
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	IF Yes → F22 [What is unusual about electricity use] OTHERWISE → F23 [Number electricity suppliers]					

F22	What is unusual about electricity use {WhatUnusualElUse} <i>ELUNUSUALX</i>		
ASK	IF F21 [Anything unusual about electricity use] = Yes		
QUESTION TEXT – interviewer-administered			
Show Card	N/A		
Question Text	Describe what is unusual about the building.		
Interviewer Instructions	N/A		
QUESTION TEXT – web			
Question Text	No changes required		
Respondent Instructions	N/A		
ITEM TYPE	<input type="checkbox"/> Enumerated	<input type="checkbox"/> Numeric	<input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date
RESPONSE OPTIONS			
<i>String Text</i>			
<i>Watermark</i>			
None			
NONRESPONSE	<input type="checkbox"/> Explicit DK	<input type="checkbox"/> Explicit RF	<input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank
NEXT	➔ F23 [Number electricity suppliers]		

F23	Number electricity suppliers {NumElSupplier}	<i>ELNUMSP</i>		
ASK	IF (Building interview & Electricity used) OR (Establishment interview & (F1 [Provide electricity figures] = Yes OR F2 [Electricity included in rent] = No/Missing))			
FILL	<p>{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"</p> <p>{SuppliersIntro} IF F1 [Provide electricity figures] = No OR Missing OR F4 [Electricity consumption] = Missing = "It may be possible to obtain this information directly from your electricity supplier." OTHERWISE = "The next questions are about your electricity supplier or suppliers."</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	<p>{SuppliersIntro}</p> <p>How many different companies supplied electricity to this {Structure} during calendar year 2018?</p>			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	Suppliers	1-4		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF 1 to 4 ➔ F24 [Electricity suppliers] IF Missing ➔ F26 [Electricity bill available]			

F24	Electricity suppliers {ElSupplier}	EL1LKP-EL4LKP		
ASK	IF F23 [Number electricity suppliers] = 1 to 4 OR F2 [Electricity included in rent] = Yes			
FILL	{SuppliersIntro} IF F2 [Electricity included in rent] = Yes = "It may be possible to obtain this information directly from your electricity supplier." OTHERWISE = BLANK {FirstNext} IF Only one supplier OR F2 [Electricity included in rent] = Yes = BLANK IF First supplier given = "first" OTHERWISE = " <u>next</u> "			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	{SuppliersIntro} What is the name of the {FirstNext} supplier that provided electricity during 2018?			
Interviewer Instructions	Start by typing a few letters of the supplier name in the search line. If you find a match in the list, select that line. If you don't find a match, select the "Other" box, select the "Next" button, then type in the supplier name.			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	No changes required			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
Look-up table of electricity suppliers				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other box selected → F25 [Supplier name] IF Supplier selected & F2 [Electricity included in rent] = Yes → GRT [Section G Routing] IF Missing → F33 [Electricity bill available] OTHERWISE → F27 [Number electricity accounts]			

F25	Supplier name {NewEISup}	EL1NEW-EL4NEW
ASK	IF Other box selected in F24 [Electricity suppliers]	
QUESTION TEXT – interviewer-administered		
Show Card	N/A	
Question Text	Enter the name of the supplier	
Interviewer Instructions	N/A	
QUESTION TEXT – web		
Question Text	No changes required	
Respondent Instructions	N/A	
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric X String Text <input type="checkbox"/> Date	
RESPONSE OPTIONS		
<i>String Text</i>		
<i>Watermark</i>		
Enter the name of the supplier		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box X Allow Blank	
NEXT	IF Name given & F2 [Electricity included in rent] = Yes → GRT [Section G Routing] IF Missing → F33 [Electricity bill available] OTHERWISE → F27 [Number electricity accounts]	

F26	Electricity bill available {EBillAvailDKNumSup}			<i>ELBILLDK1</i>			
ASK	IF F23 [Number electricity suppliers] = Missing						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	Can you provide a copy of one electricity bill? There is information on some utility bills that may help energy researchers who use these data. You can either upload the bill through the 2018 CBECS website, give it to me, or mail it to our offices in a postage-paid envelope.						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	Can you provide a copy of one electricity bill? There is information on some utility bills that may help energy researchers who use these data. You can either upload the bill through the 2018 CBECS website or mail it to our offices. A link to a postage-paid return envelope label is available on the website.						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options		Image	SAS Name				
1. Yes, bill available							
2. No, will not be able to provide bill							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	➔ GRT [Section G Routing]						

F27	Number electricity accounts {NumElAccts}	<i>EL1NAC-EL4NAC</i>		
ASK	IF (Supplier found in F24 [Electricity suppliers] look-up table OR F25 [Supplier name] given) & NOT F2 [Electricity included in rent] = Yes			
FILL	{Structure} IF interview = Building = "building" IF interview = Establishment = "establishment" {Supplier} = Supplier name from F24 [Electricity suppliers] look-up table OR F25 [Supplier name]			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	How many different electricity accounts does this {Structure} have with {Supplier}?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	electricity accounts	1-999		
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF 1 to 10 → F28 [Electricity account number] IF More than 10 OR DK/Missing → F32 [Electricity bill available]			

F28	Electricity account number {ElAcctNums}	EL1AC1-EL4AC10		
ASK	IF F27 [Number electricity accounts] = 1 to10			
FILL	<p>{Number} IF Only one account = "number" OTHERWISE = "numbers"</p> <p>{Supplier} = Supplier name from F24 [Electricity suppliers] look-up table OR F25 [Supplier name]</p> <p>{IsAre} IF Only one account = "is" OTHERWISE = "are"</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Please give me the electricity account {Number} for {Supplier}.			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	What {IsAre} the electricity account {Number} for {Supplier}?			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
String Text				
Watermark				
Enter electricity account number				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	IF F1 [Provide electricity figures] = No OR Missing) OR F4 [Electricity consumption] = Missing OR F6 [Purchased electricity consumption] = Missing → F29 [Bills cover only building] OTHERWISE → F32 [Electricity bill available]			

F29	Bills cover only building {OthElBldgs3}	EL1OTB-EL4OTB		
ASK	IF F27 [Number electricity accounts] = 1 to 10 & ((F1 [Provide electricity figures] = No OR Missing) OR F4 [Electricity consumption] = Missing OR F6 [Purchased electricity consumption] = Missing			
FILL	{Bills} IF Only one account = "Does the bill or statement" IF 2 to 10 accounts = "Do the bills or statements" {Supplier} = Supplier name from F24 [Electricity suppliers] look-up table OR F25 [Supplier name] {Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment" {Structures} IF Interview = Building = "buildings" IF Interview = Establishment = "establishments" {Structure(s)} IF Interview = Building = "building(s)" IF Interview = Establishment = "establishment(s)"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	{Bills} from {Supplier} cover just this {Structure} or are other {Structures} covered as well?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Just this {Structure}				
2. Other {Structure(s)}				
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other {Structure(s)} → F30 [Sq ft of others included] IF Just this {Structure} OR Missing → F31 [Include other major electricity]			

F30	Sq ft of others included {OthElSqFt3}	EL1OTS-EL4OTS		
ASK	IF F29 [Bills cover only building] = Other {Structure(s)}			
FILL	{Bills} IF Only one account = "bill or statement" IF 2 to 10 accounts = "bills or statements" {Structures} IF Interview = Building = "buildings" IF Interview = Establishment = "establishments"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	What is the approximate square footage of the <u>other</u> {Structures} included on the {Bills}? If you're not sure, please provide your best estimate.			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	square feet	1-999,999,999		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	→F31 [Include other major electricity]			

F31	Include other major electricity {OthElUse3}	EL1OTU-EL4OTU		
ASK	IF F27 [Number electricity accounts] = 1 to 10 & ((F1 [Provide electricity figures] = No OR Missing) OR F4 [Electricity consumption] = Missing OR F6 [Purchased electricity consumption] = Missing			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment" {Bills} IF Only one account = "Does the bill or statement" IF 2 to 10 accounts = "Do the bills or statements"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	{Bills} include charges for any <u>other</u> major electricity usage outside the {Structure}, such as electric vehicle charging stations, parking lot lights, exterior lights, signs or billboards, large pumps or swimming pools?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Yes				
2. No				
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	→ F32 [Electricity bill available]			

F32	Electricity bill available {EBillsAvailable}	EL1BILL-EL4BILL		
ASK	IF F23 [Number electricity suppliers] = 1 to 4			
FILL	{Supplier} IF F24 [Electricity suppliers] given = "F24 [Electricity suppliers]" IF F25 [Supplier name] given = "F25 [Supplier name]" IF F25 [Supplier name] = Missing = "this supplier"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Can you provide a copy of one electricity bill from {Supplier}? There is information on some utility bills that may help energy researchers who use these data. You can either upload the bill through the 2018 CBECS website, give it to me, or mail it to our offices in a postage-paid envelope.			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	Can you provide a copy of one electricity bill from {Supplier}? There is information on some utility bills that may help energy researchers who use these data. You can either upload the bill through the 2018 CBECS website or mail it to our offices. A link to a postage-paid return envelope label is available on the website.			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Yes, bill available				
2. No, will not be able to provide bill				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF More suppliers left to answer for → Back to F24 [Electricity suppliers] for next supplier OTHERWISE → GRT [Section G Routing]			

F33	Electricity bill available {EBillAvailDKSupName}			ELBILLDK2				
ASK	IF F24 [Electricity suppliers] = Missing							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Can you provide a copy of one electricity bill? There is information on some utility bills that may help energy researchers who use these data. You can either upload the bill through the 2018 CBECS website, give it to me, or mail it to our offices in a postage-paid envelope.							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	Can you provide a copy of one electricity bill? There is information on some utility bills that may help energy researchers who use these data. You can either upload the bill through the 2018 CBECS website or mail it to our offices. A link to a postage-paid return envelope label is available on the website.							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes, bill available								
2. No, will not be able to provide bill								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ GRT [Section G Routing]							

Section G: Natural Gas

GRT	Section G Routing
	IF Natural gas used ➔ G1 [Provide natural gas figures] OTHERWISE ➔ HRT [Section H Routing]

G1	Provide natural gas figures {ProvideNGFigs}		NGFIGS	
ASK	IF Natural gas used			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	The next questions are about natural gas usage in this {Structure} during calendar year 2018. Are you able to provide the <u>total annual</u> natural gas usage for this {Structure} for 2018?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated	<input type="checkbox"/> Numeric	<input type="checkbox"/> String Text	<input type="checkbox"/> Date
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options		Image	SAS Name	
1. Yes				
2. No				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Yes ➔ G3 [Units for natural gas] IF No OR Missing: IF Establishment interview ➔ G2 [Natural gas included in rent] IF Building interview ➔ G23 [Number natural gas suppliers]			

G2	Natural gas included in rent {NGInRent}			<i>NGNRENT</i>				
ASK	IF Establishment interview & G1 [Provide natural gas figures] = No OR Missing							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Is the cost of the natural gas used in this establishment included in the rent?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Yes → G24 [Natural gas suppliers] IF No/Missing → G23 [Number natural gas suppliers]							

G3	Units for natural gas {NGUnits}	NGUNIT		
ASK	IF G1 [Provide natural gas figures] = Yes			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD G1			
Question Text	Please look at Show Card G1 and tell me the units in which your natural gas is measured.			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	In which of the following units is your natural gas measured?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Hundred cubic feet (Ccf)				
2. Therms				
3. Thousand cubic feet (Mcf)				
4. Dekatherms				
5. Cubic feet (cf)				
6. Million Btu (MMBtu)				
7. Some other units				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Some other units → G4 [Other natural gas units] OTHERWISE → G5 [Natural gas consumption]			

G4	Other natural gas units {NGOthUnits}			<i>NGUNITX</i>				
ASK	IF G3 [Units for natural gas] = Some other units							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	N/A – other specify box – see watermark							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>String Text</i>								
<i>Watermark</i>								
Enter other units								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank							
NEXT	➔ G5 [Natural gas consumption]							

G5	Natural gas consumption {NGCons}			<i>NGCNS</i>			
ASK	IF G1 [Provide natural gas figures] = Yes						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	Please give me the total amount of natural gas used in calendar year 2018.						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	What was the total amount of natural gas used in calendar year 2018?						
Respondent Instructions	N/A						
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Numeric</i>							
Watermark	Label	Range					
Enter a number	units of natural gas	1-99,999,999,999,999					
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	IF Missing → G23 [Number natural gas suppliers] OTHERWISE → G6 [Natural gas expenditures]						

G6	Natural gas expenditures {NGExp}			<i>NGEXP</i>
ASK	IF G5 [Natural gas consumption] given			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Please give me the total dollars spent on natural gas in 2018. This should include state and local taxes and all charges such as: fuel adjustment, system, supply, and delivery.			
Interviewer Instructions	Do <u>not</u> enter cents			
QUESTION TEXT – web				
Question Text	How much was spent on natural gas in 2018? This should include state and local taxes and all charges such as: fuel adjustment, system, supply, and delivery.			
Respondent Instructions	No changes required			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter dollar amount	None	0-999,999,999		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	→ G7 [Starting date for natural gas figures]			

G7	Starting date for natural gas figures {NGStartDate}			<i>NGSTDAT</i>			
ASK	IF G5 [Natural gas consumption] given						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	What is the starting date for these natural gas usage figures?						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input checked="" type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Date</i>							
Watermark							
mm/dd/yyyy							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank						
NEXT	➔ G8 [Ending date for natural gas figures]						

G8	Ending date for natural gas figures {NGEndDate}			<i>NGENDAT</i>			
ASK	IF G5 [Natural gas consumption] given						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	What is the ending date for these natural gas usage figures?						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input checked="" type="checkbox"/> Date						
RESPONSE OPTIONS							
Date							
Watermark							
mm/dd/yyyy							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank						
NEXT	IF Building interview & (C5 [Number of businesses] > 1 OR C6 [Number of businesses category] ≠ Zero OR One) THEN: IF CBECS Activity ≠ Enclosed mall → G9 [All occupants natural gas included] IF CBECS Activity = Enclosed mall → G11 [Natural gas covers whole mall] OTHERWISE → G15 [Other bldgs natural gas included]						

G9	All occupants natural gas included {AllOccNG1}			NGALL				
ASK	IF Building interview & G5 [Natural gas consumption] given & (C5 [Number of businesses] >1 OR C6 [Number of businesses category] ≠ Zero OR One) & CBECS Activity ≠ Enclosed mall							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Do these figures include the natural gas for all of the businesses or organizations in this building?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
Enumerated								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF No → G10 [Sq ft not included] OTHERWISE → G15 [Other bldgs natural gas included]							

G10	Sq ft not included {NonNGSqFt1}		<i>NGN/ISF</i>			
ASK	IF G9 [All occupants natural gas included] = No					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	What is the approximate square footage of the space in the building that is <u>not</u> included in these figures? If you're not sure, please provide your best estimate.					
Interviewer Instructions	N/A					
QUESTION TEXT – web						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
Enter a number	square feet	1 to 999,999,999				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	➔ G18 [Include other major natural gas]					

G11	Natural gas covers whole mall {NGMallInclude}			<i>NGMLLINC</i>				
ASK	IF G5 [Natural gas consumption] given & (C5 [Number of businesses] >1 OR C6 [Number of businesses category] ≠ Zero OR One) & CBECS Activity = Enclosed mall							
FILL	{FoodCourt} IF B41 [Food court] = Yes = "food court," OTHERWISE = BLANK							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Do these figures include the natural gas for the entire mall building, including the anchor stores, {FoodCourt} common areas, and individual stores?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Yes								
2. No								
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF No → G12 [Not included in mall natural gas] OTHERWISE → G15 [Other bldgs natural gas included]							

G12	Not included in mall natural gas {WhatNGMallExclude}	<i>see below</i>		
ASK	IF G11 [Natural gas covers whole mall] = No			
FILL	{FoodCourt} IF B41 [Food court] = Yes = "Food court" OTHERWISE = BLANK			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Which areas are <u>not</u> included?			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Anchor stores		<i>NGMLLANC</i>		
2. {FoodCourt}		<i>NGMLFC</i>		
3. Common areas		<i>NGMLLCOM</i>		
4. Individual stores		<i>NGMLST</i>		
5. Other		<i>NGMLLOT</i>		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other selected → G13 [Other not included in mall natural gas] OTHERWISE → G14 [Mall sq ft not included]			

G13	Other not included in mall natural gas {OtherNGMallExclude}			NGMLLOTX
ASK	If Other IN G12 [Not included in mall natural gas]			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	N/A – other specify box – see watermark			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>String Text</i>				
<i>Watermark</i>				
Briefly describe the other type of area that is not included				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	→ G14 [Mall sq ft not included]			

G14	Mall sq ft not included {NonNGMallSqFt1}			NGNMLLSF				
ASK	IF G11 [Natural gas covers whole mall] = No							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	What is the approximate square footage of the space in the building that is <u>not</u> included in these figures? If you're not sure, please provide your best estimate.							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Numeric</i>								
Watermark	Label	Range						
Enter a number	square feet	1-999,999,999						
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ G18 [Include other major natural gas]							

G15	Other bldgs natural gas included {OthNGBldgs1}			<i>NGOTBD</i>				
ASK	IF (Establishment interview & G5 [Natural gas consumption] given) OR (Building interview & G5 [Natural gas consumption] given & G9 [All occupants natural gas included] ≠ No & G11 [Natural gas covers whole mall] ≠ No)							
FILL	{ Structures } IF Interview = Building = “buildings” IF Interview = Establishment = “establishments”							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Is any consumption from other {Structures} included in these figures?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Yes								
2. No								
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Yes ➔ G16 [Sq ft of other included] IF No OR Missing: IF B50 [Central physical plant] = Yes & B55 [Central plant in building] = In another building ➔ G17 [Central plant natural gas included] OTHERWISE ➔ G18 [Include other major natural gas]							

G16	Sq ft of other included {OthNGSqFt1}		NGOTSF			
ASK	IF G15 [Other bldgs natural gas included] = Yes					
FILL	{Structures} IF Interview = Building = "buildings" IF Interview = Establishment = "establishments"					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	What is the approximate square footage of the <u>other</u> {Structures} that are included in these figures? If you're not sure, please provide your best estimate.					
Interviewer Instructions	N/A					
QUESTION TEXT – web						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
Enter a number	square feet	1-999,999,999				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	IF B50 [Central physical plant] = Yes & B55 [Central plant in building] = In another building ➔ G17 [Central plant natural gas included] OTHERWISE ➔ G18 [Include other major natural gas]					

G17	Central plant natural gas included {PlantNGIncl}	<i>PLTNG/INC</i>		
ASK	IF G5 [Natural gas consumption] given & G9 [All occupants natural gas included] ≠ No & G11 [Natural gas covers whole mall] ≠ No & B50 [Central physical plant] = Yes & B55 [Central plant in building] = In another building			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Earlier you reported that there is a central plant on this campus. Do these figures include any natural gas that was used in the central plant?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Yes				
2. No				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ G18 [Include other major natural gas]			

G18	Include other major natural gas {OthNGUse1}		<i>NGOTUS</i>			
ASK	IF G5 [Natural gas consumption] given					
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	Do these figures include charges for any <u>other</u> major natural gas usage outside the {Structure}, such as kilns, gas space heaters, exterior or decorative lighting, compressed natural gas vehicles, or pumps not used in the {Structure}?					
Interviewer Instructions	N/A					
QUESTION TEXT – web						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Enumerated</i>						
Response options	Image	SAS Name				
1. Yes						
2. No						
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	IF Yes & Building interview → G19 [Outside uses included in natural gas] IF No OR Missing/DK & Building interview → G21 [Anything unusual about natural gas use] IF Establishment interview → G23 [Number natural gas suppliers]					

G19	Outside uses included in natural gas {WhatNGUse}	<i>see below</i>		
ASK	IF G18 [Include other major natural gas] = Yes			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD G2			
Question Text	Looking at the list on Show Card G2, please tell me which of these outside uses is included in the natural gas figures.			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	Which of these outside uses is included in the natural gas figures?			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Kilns		NGOUTKLN		
2. Gas space heaters		NGOUTHTR		
3. Exterior decorative lights		NGOUTLTS		
4. Compressed natural gas vehicles		NGOUTVEH		
5. Pumps not used in the building		NGOUTPMP		
6. Other		NGOUTOT		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other selected → G20 [Other type of outside natural gas use] OTHERWISE → G21 [Anything unusual about natural gas use]			

G20	Other type of outside natural gas use {OtherNGUse1}			NGOUTOTX
ASK	If Other IN G19 [Outside uses included in natural gas]			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	N/A – other specify box – see watermark			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>String Text</i>				
Watermark				
Briefly describe this other type of outside natural gas use				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	→ G21 [Anything unusual about natural gas use]			

G21	Anything unusual about natural gas use {AnythingUnusualNGUse} NGUNUSUAL				
ASK	IF Building interview & G5 [Natural gas consumption] given				
QUESTION TEXT – interviewer-administered					
Show Card	N/A				
Question Text	Is there anything about this building that would make the natural gas consumption higher or lower than average?				
Interviewer Instructions	N/A				
QUESTION TEXT – web					
Question Text	No changes required				
Respondent Instructions	N/A				
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date				
RESPONSE OPTIONS					
Response options	Image	SAS Name			
1. Yes					
2. No					
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank				
NEXT	IF Yes → G22 [What is unusual about natural gas use] OTHERWISE → G23 [Number natural gas suppliers]				

G22	What is unusual about natural gas use {WhatUnusualNGUse} NGUNUSUALX
ASK	IF G21 [Anything unusual about natural gas use] = Yes
QUESTION TEXT – interviewer-administered	
Show Card	N/A
Question Text	Describe what is unusual about the building.
Interviewer Instructions	N/A
QUESTION TEXT – web	
Question Text	No changes required
Respondent Instructions	N/A
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date
RESPONSE OPTIONS	
<i>String Text</i>	
<i>Watermark</i>	
None	
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank
NEXT	➔ G23 [Number natural gas suppliers]

G23	Number natural gas suppliers {NumNGSupplier}	<i>NGNUMSP</i>		
ASK	IF (Building interview & Natural gas used) OR (Establishment interview & (G1 [Provide natural gas figures] = Yes OR G2 [Natural gas included in rent] = No/Missing)			
FILL	<p>{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"</p> <p>{SuppliersIntro} IF G1 [Provide natural gas figures] = No OR Missing OR G5 [Natural gas consumption] = Missing = "It may be possible to obtain this information directly from your natural gas supplier." OTHERWISE = "The next questions are about your natural gas supplier or suppliers."</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	<p>{SuppliersIntro}</p> <p>How many different companies supplied natural gas to this {Structure} during calendar year 2018?</p>			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	suppliers	1-4		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF 1 to 4 → G24 [Natural gas suppliers] IF Missing → G26 [Natural gas bill available]			

G24	Natural gas suppliers {NGSupplier}		NG1LKP-NG4LKP			
ASK	IF G23 [Number natural gas suppliers] = 1 to 4 OR (Establishment interview & G2 [Natural gas included in rent] = Yes)					
FILL	{FirstNext} IF Only one supplier OR (Establishment interview & G2 [Natural gas included in rent] = Yes) = BLANK IF First supplier given = "first" OTHERWISE = <u>next</u> {SuppliersIntro} IF Establishment interview & G2 [Natural gas included in rent] = Yes = "It may be possible to obtain this information directly from your natural gas supplier." OTHERWISE = BLANK					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	What is the name of the {FirstNext} supplier that provided natural gas during 2018?					
Interviewer Instructions	Start by typing a few letters of the supplier name in the search line. If you find a match in the list, select that line. If you don't find a match, select the "Other" box, select the "Next" button, then type in the supplier name.					
QUESTION TEXT – web						
Question Text	No changes required					
Respondent Instructions	No changes required					
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Enumerated</i>						
Response options	Image		SAS Name			
Look-up table of natural gas suppliers						
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	IF Other box selected → G25 [Supplier name] IF Supplier selected & G2 [Natural gas included in rent] = Yes → HRT [Section H Routing] IF Missing → G33 [Natural gas bill available] OTHERWISE → G27 [Number natural gas accounts]					

G25	Supplier name {NewNGSup}	NG1NEW-NG4NEW
ASK	IF Other box selected in G24 [Natural gas suppliers]	
QUESTION TEXT – interviewer-administered		
Show Card	N/A	
Question Text	N/A – other specify box – see watermark	
Interviewer Instructions	N/A	
QUESTION TEXT – web		
Question Text	No changes required	
Respondent Instructions	N/A	
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric X String Text <input type="checkbox"/> Date	
RESPONSE OPTIONS		
<i>String Text</i>		
<i>Watermark</i>		
Enter the name of the supplier		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box X Allow Blank	
NEXT	IF Name given & G2 [Natural gas included in rent] = Yes → HRT [Section H Routing] IF Missing → G32 [Natural gas bill available] OTHERWISE → G27 [Number natural gas accounts]	

G26	Natural gas bill available {NGBillAvailDKNumSup}			NGBILLDK1			
ASK	IF G23 [Number natural gas suppliers] = Missing						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	Can you provide a copy of one natural gas bill? There is information on some utility bills that may help energy researchers who use these data. You can either upload the bill through the 2018 CBECS website, give it to me, or mail it to our offices in a postage-paid envelope.						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	Can you provide a copy of one natural gas bill? There is information on some utility bills that may help energy researchers who use these data. You can either upload the bill through the 2018 CBECS website or mail it to our offices. A link to a postage-paid return envelope label is available on the website.						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options		Image	SAS Name				
1. Yes, bill available							
2. No, will not be able to provide bill							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	➔ HRT [Section H Routing]						

G27	Number natural gas accounts {NumNGAccts}		NG1NAC-NG4NAC			
ASK	IF Supplier found in G24 [Natural gas suppliers] look-up table OR G25 [Supplier name] given & G2 [Natural gas included in rent] ≠ Yes					
FILL	{Supplier} = Supplier name from G24 [Natural gas suppliers] look-up table OR G25 [Supplier name] {Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	How many different natural gas accounts does this {Structure} have with {Supplier}?					
Interviewer Instructions	N/A					
QUESTION TEXT – web						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
Numeric						
Watermark	Label	Range				
Enter a number	natural gas accounts	1-999				
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	IF 1 to 10 accounts → G28 [Natural gas account number] IF More than 10 accounts OR DK/Missing → G32 [Natural gas bill available]					

G28	Natural gas account number {NGAcctNums}	NG1AC1-NG4AC10		
ASK	IF G27 [Number natural gas accounts] = 1 to 10			
FILL	<p>{Number} IF Only one account = "number" OTHERWISE = "numbers"</p> <p>{Supplier} = Supplier name from G24 [Natural gas suppliers] look-up table OR G25 [Supplier name]</p> <p>{IsAre} IF Only one account = "is" OTHERWISE = "are"</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Please give me the natural gas account {Number} for {Supplier}.			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	What {IsAre} the natural gas account {Number} for {Supplier}?			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
String Text				
Watermark				
Enter natural gas account number				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	IF G1 [Provide natural gas figures] = No OR Missing OR G5 [Natural gas consumption] = Missing → G29 [Bills cover only building] OTHERWISE → G32 [Natural gas bill available]			

G29	Bills cover only building {OthNGBldgs3}	NG1OTB-NG4OTB		
ASK	IF G27 [Number natural gas accounts] = 1 to 10 & ((G1 [Provide natural gas figures] = No OR Missing) OR G5 [Natural gas consumption] = Missing)			
FILL	<p>{Bills} IF Only one account = "Does the bill or statement" IF 2 to 10 accounts = "Do the bills or statements"</p> <p>{Supplier} = Supplier name from G24 [Natural gas suppliers] look-up table OR G25 [Supplier name]</p> <p>{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"</p> <p>{Structures} IF Interview = Building = "buildings" IF Interview = Establishment = "establishments"</p> <p>{Structure(s)} IF Interview = Building = "building(s)" IF Interview = Establishment = "establishment(s)"</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	{Bills} from {Supplier} cover just this {Structure} or are other {Structures} covered as well?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Just this {Structure}				
2. Other {Structure(s)}				
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other {Structure(s)} → G30 [Sq ft of others included] IF Just this {Structure} OR Missing → G31 [Include other major natural gas]			

G30	Sq ft of others included {OthNGSqFt3}	NG1OTS-NG4OTS		
ASK	IF G29 [Bills cover only building] = Other {Structure(s)}			
FILL	{Bills} IF Only one account = "bill or statement" IF 2 to 10 accounts = "bills or statements" {Structures} IF Interview = Building = "buildings" IF Interview = Establishment = "establishments"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	What is the approximate square footage of the <u>other</u> {Structures} included on the {Bills}? If you're not sure, please provide your best estimate.			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	square feet	1-999,999,999		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	→G31 [Include other major natural gas]			

G31	Include other major natural gas {OthNGUse3}	NG1OTU-NG4OTU		
ASK	IF G27 [Number natural gas accounts] = 1 to 10 & ((G1 [Provide natural gas figures] = No OR Missing) OR G5 [Natural gas consumption] = Missing)			
FILL	<p>{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"</p> <p>{Bills} IF Only one account = "Does the bill or statement" IF 2 to 10 accounts = "Do the bills or statements"</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	{Bills} include charges for any <u>other</u> major natural gas usage outside the {Structure}, such as for kilns, gas space heaters, exterior or decorative lighting, compressed natural gas vehicles, or pumps not used in the {Structure}?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Yes				
2. No				
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	→G32 [Natural gas bill available]			

G32	Natural gas bill available {NGBillAvailable}	NG1BILL-NG4BILL		
ASK	IF G23 [Number natural gas suppliers] = 1 to 4			
FILL	{Supplier} IF G24 [Natural gas suppliers] given = "G24 [Natural gas suppliers]" IF G25 [Supplier name] given = "G25 [Supplier name]" IF G25 [Supplier name] = Missing = "this supplier"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Can you provide a copy of one natural gas bill from {Supplier}? There is information on some utility bills that may help energy researchers who use these data. You can either upload the bill through the 2018 CBECS website, give it to me, or mail it to our offices in a postage-paid envelope.			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	Can you provide a copy of one natural gas bill from {Supplier}? There is information on some utility bills that may help energy researchers who use these data. You can either upload the bill through the 2018 CBECS website or mail it to our offices. A link to a postage-paid return envelope label is available on the website.			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Yes, bill available				
2. No, will not be able to provide bill				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF More suppliers left to answer for → Back to G24 [Natural gas suppliers] for next supplier OTHERWISE → HRT [Section H Routing]			

G33	Natural gas bill available {NGBillAvailDKSupName}			NGBILLDK2				
ASK	IF G24 [Natural gas suppliers] = Missing							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Can you provide a copy of one natural gas bill? There is information on some utility bills that may help energy researchers who use these data. You can either upload the bill through the 2018 CBECS website, give it to me, or mail it to our offices in a postage-paid envelope.							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	Can you provide a copy of one natural gas bill? There is information on some utility bills that may help energy researchers who use these data. You can either upload the bill through the 2018 CBECS website or mail it to our offices. A link to a postage-paid return envelope label is available on the website.							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes, bill available								
2. No, will not be able to provide bill								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ HRT [Section H Routing]							

Section H: Fuel Oil/Diesel/Kerosene

HRT	Section H Routing
	IF Fuel oil used ➔ H1 [Provide fuel oil figures] OTHERWISE ➔ IRT [Section I Routing]

Note: In ASK and NEXT instructions in this section, “Fuel oil” refers to fuel oil, diesel, or kerosene.

H1	Provide fuel oil figures {ProvideFOFigs}	FKFIGS		
ASK	IF Fuel oil used			
FILL	{Structure} IF Interview = Building = “building” IF Interview = Establishment = “establishment” {FuelOilType} = Type or types specified in D16 [Fuel oil, diesel, or kerosene]			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	The next questions are about {FuelOilType} purchases for this {Structure} during calendar year 2018. Are you able to report how much {FuelOilType} was purchased for this {Structure} during 2018?			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	<input type="checkbox"/>	Image		
1. Yes	<input type="checkbox"/>	SAS Name		
2. No	<input type="checkbox"/>			
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Yes ➔ H2 [Fuel oil purchases] IF No OR Missing: IF Fuel oil IN D22 [Source for main heating] OR D23 [Other source for main heating] OR D131 [Sources for water heating] OR D132 [Other water heating source] OR (D145 [Sources for electricity generation] = Fuel oil & D146 [Use of generated electricity] = Whenever electricity was used) ➔ H14 [Number fuel oil suppliers] OTHERWISE ➔ IRT [Section I Routing]			

H2	Fuel oil purchases {FOCons}		<i>FKCNS</i>			
ASK	IF H1 [Provide fuel oil figures] = Yes					
FILL	{FuelOilType} = Type or types specified in D16 [Fuel oil, diesel, or kerosene]					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	Please give me the total number of gallons of {FuelOilType} purchased in calendar year 2018.					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	What was the total number of gallons of {FuelOilType} purchased in calendar year 2018?					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
Enter a number	gallons	0-99,999,999,999,999				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	➔ H3 [Fuel oil expenditures]					

H3	Fuel oil expenditures {FOExp}		<i>FKEXP</i>			
ASK	IF H1 [Provide fuel oil figures] = Yes					
FILL	{FuelOilType} = Type or types specified in D16 [Fuel oil, diesel, or kerosene]					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	Please give me the total dollars spent on {FuelOilType} in 2018, including state and local taxes.					
Interviewer Instructions	Do <u>not</u> enter cents					
QUESTION TEXT – respondent-administered						
Question Text	How much was spent on {FuelOilType} in 2018, including state and local taxes?					
Respondent Instructions	No changes required					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
Enter dollar amount	None	0-999,999,999				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	IF (H2 [Fuel oil purchases] = 0 OR Missing) & (H3 [Fuel oil expenditures] = 0 OR Missing) → H4 [Purchased before 2018] OTHERWISE → H5 [Starting date for fuel oil figures]					

H4	Purchased before 2018 {FOPurchPast}			FKSTORD			
ASK	IF (H2 [Fuel oil purchases] = 0 OR Missing) & (H3 [Fuel oil expenditures] = 0 OR Missing)						
FILL	{FuelOilType} = Type or types specified in D16 [Fuel oil, diesel, or kerosene]						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	Was any of the {FuelOilType} that was used in 2018 purchased or delivered in 2017 or before?						
Interviewer Instructions	N/A						
QUESTION TEXT – respondent-administered							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options		Image	SAS Name				
1. Yes							
2. No							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	➔ IRT [Section I Routing]						

H5	Starting date for fuel oil figures {FOStartDate}	FKSTDAT		
ASK	IF H2 [Fuel oil purchases] > 0 OR H3 [Fuel oil expenditures] > 0			
FILL	{FuelOilType} = Type or types specified in D16 [Fuel oil, diesel, or kerosene]			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	What is the first delivery date for these {FuelOilType} purchases?			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input checked="" type="checkbox"/> Date			
RESPONSE OPTIONS				
Date				
Watermark				
mm/dd/yyyy				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	→ H6 [Ending date for fuel oil figures]			

H6	Ending date for fuel oil figures {FOEndDate}	<i>FKENDAT</i>		
ASK	IF H2 [Fuel oil purchases] > 0 OR H3 [Fuel oil expenditures] > 0			
FILL	{FuelOilType} = Type or types specified in D16 [Fuel oil, diesel, or kerosene]			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	What is the last delivery date for these {FuelOilType} purchases?			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input checked="" type="checkbox"/> Date			
RESPONSE OPTIONS				
Date				
Watermark				
mm/dd/yyyy				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	IF Building interview & (C5 [Number of businesses] >1 OR C6 [Number of businesses category] ≠ Zero OR One) → H7 [All occupants fuel oil included] OTHERWISE → H9 [Other bldgs fuel oil included]			

H7	All occupants fuel oil included {AllOccFO1}		FKALL			
ASK	IF Building interview & (H2 [Fuel oil purchases] > 0 OR H3 [Fuel oil expenditures] > 0) & (C5 [Number of businesses] > 1 OR C6 [Number of businesses category] ≠ Zero OR One)					
FILL	{FuelOilType} = Type or types specified in D16 [Fuel oil, diesel, or kerosene]					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	Do these figures include the {FuelOilType} for all of the businesses or organizations in this building?					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
Enumerated						
Response options	Image	SAS Name				
1. Yes						
2. No						
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	IF No ➔ H8 [Sq ft not included] OTHERWISE ➔ H9 [Other bldgs fuel oil included]					

H8	Sq ft not included {NonFOSqFt1}			<i>FKNISF</i>
ASK	IF H7 [All occupants fuel oil included] = No			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	What is the approximate square footage of the space in the building that is <u>not</u> included in these figures? If you're not sure, please provide your best estimate.			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated	<input checked="" type="checkbox"/> Numeric	<input type="checkbox"/> String Text	<input type="checkbox"/> Date
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	square feet	1 to 999,999,999		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ H11 [Include other major fuel oil]			

H9	Other bldgs fuel oil included {OthFOBldgs1}			<i>FKOTBD</i>				
ASK	IF (H2 [Fuel oil purchases] > 0 OR H3 [Fuel oil expenditures] > 0) & (Establishment interview OR Building interview & NOT H7 [All occupants fuel oil included] = No)							
FILL	{Structures} IF Interview = Building = "buildings" IF Interview = Establishment = "establishments"							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Is any consumption from other {Structures} included in these figures?							
Interviewer Instructions	N/A							
QUESTION TEXT – respondent-administered								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Yes								
2. No								
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Yes ➔ H10 [Sq ft of other included] OTHERWISE ➔ H11 [Include other major fuel oil]							

H10	Sq ft of other included {OthFOSqFt1}		FKOTSF			
ASK	IF H9 [Other bldgs fuel oil included] = Yes					
FILL	{Structures} IF Interview = Building = "buildings" IF Interview = Establishment = "establishments"					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	What is the approximate square footage of the <u>other</u> {Structures} that are included in these figures? If you're not sure, please provide your best estimate.					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
Enter a number	square feet	1-999,999,999				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	➔ H11 [Include other major fuel oil]					

H11	Include other major fuel oil {OthFOUse1}			FKOTUS				
ASK	IF H2 [Fuel oil purchases] > 0 OR H3 [Fuel oil expenditures] > 0							
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment" {FuelOilType} = Type or types specified in D16 [Fuel oil, diesel, or kerosene]							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Do these figures include charges for any <u>other</u> major {FuelOilType} usage outside the {Structure}, such as kilns, welding, pumps or motors?							
Interviewer Instructions	N/A							
QUESTION TEXT – respondent-administered								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Building interview → H12 [Anything unusual about fuel oil use] IF Establishment interview & (Fuel oil IN D22 [Source for main heating] OR D23 [Other source for main heating] OR D131 [Sources for water heating] OR D132 [Other water heating source] OR (D145 [Sources for electricity generation] = Fuel oil & D146 [Use of generated electricity] = Whenever electricity was used) → H14 [Number fuel oil suppliers] OTHERWISE → IRT [Section I Routing]							

H12	Anything unusual about fuel oil use {FOUnusual}			FKUNUSUAL			
ASK	IF Building interview & (H2 [Fuel oil purchases] > 0 OR H3 [Fuel oil expenditures] > 0)						
FILL	{FuelOilType} = Type or types specified in D16 [Fuel oil, diesel, or kerosene]						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	Is there anything about this building that would make the {FuelOilType} consumption higher or lower than average?						
Interviewer Instructions	N/A						
QUESTION TEXT – respondent-administered							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options		Image	SAS Name				
1. Yes							
2. No							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	IF Yes → H13 [What is unusual about fuel oil use] OTHERWISE: IF Fuel oil IN D22 [Source for main heating] OR D23 [Other source for main heating] OR D131 [Sources for water heating] OR D132 [Other water heating source] OR (D145 [Sources for electricity generation] = Fuel oil & D146 [Use of generated electricity] = Whenever electricity was used) → H14 [Number fuel oil suppliers] OTHERWISE → IRT [Section I Routing]						

H13	What is unusual about fuel oil use {WhatUnusualFOUse}	FKUNUSUALX		
ASK	IF H12 [Anything unusual about fuel oil use] = Yes			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Describe what is unusual about the building.			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date			
String Text				
Watermark				
None				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	IF Fuel oil IN D22 [Source for main heating] OR D23 [Other source for main heating] OR D131 [Sources for water heating] OR D132 [Other water heating source] OR (D145 [Sources for electricity generation] = Fuel oil & D146 [Use of generated electricity] = Whenever electricity was used) ➔ H14 [Number fuel oil suppliers] OTHERWISE ➔ IRT [Section I Routing]			

H14	Number fuel oil suppliers {NumFOSupplier} <i>FKNUMSP</i>	
ASK	IF Fuel oil IN D22 [Source for main heating] OR D23 [Other source for main heating] OR D131 [Sources for water heating] OR D132 [Other water heating source] OR (D145 [Sources for electricity generation] = Fuel oil & D146 [Use of generated electricity] = Whenever electricity was used) & NOT ((H2 [Fuel oil purchases] = 0 OR Missing) & (H3 [Fuel oil expenditures] = 0 OR Missing))	
FILL	<p>{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"</p> <p>{SuppliersIntro} IF H1 [Provide fuel oil figures] = No OR Missing = "It may be possible to obtain this information directly from your supplier." OTHERWISE = "The next questions are about your supplier or suppliers."</p> <p>{FuelOilType} = Type or types specified in D16 [Fuel oil, diesel, or kerosene]</p>	
QUESTION TEXT – interviewer-administered		
Show Card	N/A	
Question Text	<p>{SuppliersIntro}</p> <p>How many different companies supplied {FuelOilType} to this {Structure} during calendar year 2018?</p>	
Interviewer Instructions	N/A	
QUESTION TEXT – respondent-administered		
Question Text	No changes required	
Respondent Instructions	N/A	
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date	
RESPONSE OPTIONS		
<i>Numeric</i>		
Watermark	Label	Range
Enter a number	suppliers	1-4
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank	
NEXT	IF 1 to 4 → H15 [Fuel oil supplier name] IF Missing → H16 [Fuel oil bill available]	

H15	Fuel oil supplier name {FOSupName}	FK1SUP-FK4SUP		
ASK	IF H14 [Number fuel oil suppliers] = 1 to 4			
FILL	{FirstNext} IF Only one supplier = BLANK IF First supplier given = "first" OTHERWISE = " <u>next</u> " {FuelOilType} = Type or types specified in D16 [Fuel oil, diesel, or kerosene]			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	What is the name of the {FirstNext} supplier that provided {FuelOilType} during 2018?			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>String Text</i>				
<i>Watermark</i>				
Enter the name of the supplier				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Name given → H17 [Street address] IF Missing → H28 [Fuel oil bill available]			

H16	Fuel oil bill available {FOBillAvailDKNumSup}			FKBILL			
ASK	IF H14 [Number fuel oil suppliers] = Missing						
FILL	{FuelOilType} = Type or types specified in D16 [Fuel oil, diesel, or kerosene]						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	Can you provide a copy of one {FuelOilType} bill? There is information on some utility bills that may help energy researchers who use these data. You can either upload the bill through the 2018 CBECS website, give it to me, or mail it to our offices in a postage-paid envelope.						
Interviewer Instructions	N/A						
QUESTION TEXT – respondent-administered							
Question Text	Can you provide a copy of one {FuelOilType} bill? There is information on some utility bills that may help energy researchers who use these data. You can either upload the bill through the 2018 CBECS website or mail it to our offices. A link to a postage-paid return envelope label is available on the website.						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options		Image	SAS Name				
1. Yes, bill available							
2. No, will not be able to provide bill							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	➔ IRT [Section I Routing]						

H17	Street address {FOSupAddr1}	FK1AD1-FK4AD1
ASK	IF Name given in H15 [Fuel oil supplier name]	
FILL	{Supplier} = H15 [Fuel oil supplier name]	
DISPLAY	H17-H21 are all on the same screen	
QUESTION TEXT – interviewer-administered		
Show Card	N/A	
Question Text	What is the address for {Supplier}, beginning with the street address? Street address:	
Interviewer Instructions	N/A	
QUESTION TEXT – respondent-administered		
Question Text	What is the address for {Supplier}? Street address:	
Respondent Instructions	N/A	
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date	
RESPONSE OPTIONS		
<i>String Text</i>		
<i>Watermark</i>		
None		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank	
NEXT	➔ H18 [P.O. Box or Suite]	

H18	P.O. Box or Suite {FOSupAddr2}		FK1AD2-FK4AD2			
ASK	IF Name given in H15 [Fuel oil supplier name]					
DISPLAY	H17-H21 are all on the same screen					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	P.O. Box or suite number:					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>String Text</i>						
<i>Watermark</i>						
None						
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank					
NEXT	➔ H19 [City]					

H19	City {FOSupCity}	FK1CTY-FK4CTY		
ASK	IF Name given in H15 [Fuel oil supplier name]			
DISPLAY	H17-H21 are all on the same screen			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	City:			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>String Text</i>				
<i>Watermark</i>				
None				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	➔ H20 [State abbreviation]			

H20	State abbreviation {FOSupState}	FK1STA-FK4STA						
ASK	IF Name given in H15 [Fuel oil supplier name]							
DISPLAY	H17-H21 are all on the same screen							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	State:							
Interviewer Instructions	N/A							
QUESTION TEXT – respondent-administered								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options			Image	SAS Name				
State drop-down list with “Select a state” as watermark. Alphabetic order by state name, beginning with state abbreviation. Example : AL - ALABAMA								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank							
NEXT	 H21 [ZIP code]							

H21	ZIP code {FOSupZip}		FK1ZIP-FK4ZIP			
ASK	IF Name given in H15 [Fuel oil supplier name]					
DISPLAY	H17-H21 are all on the same screen					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	ZIP code:					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
None	None	00000-99999				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank					
NEXT	➔ H22 [Number fuel oil accounts]					

H22	Number fuel oil accounts {NumFOAccts}	FK1NAC-FK4NAC		
ASK	IF Name given in H15 [Fuel oil supplier name]			
FILL	<p>{FuelOilType} = Type or types specified in D16 [Fuel oil, diesel, or kerosene]</p> <p>{Supplier} = "H15 [Fuel oil supplier name]"</p> <p>{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	How many different {FuelOilType} accounts does this {Structure} have with {Supplier}?			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated	<input checked="" type="checkbox"/> Numeric	<input type="checkbox"/> String Text	<input type="checkbox"/> Date
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	accounts	1-999		
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF 1 to 10 accounts → H23 [Fuel oil account number] IF More than 10 accounts OR DK/Missing → H27 [Fuel oil bill available]			

H23	Fuel oil account number {FOAcctNums}	FK1AC1-FK4AC10		
ASK	IF H22 [Number of fuel oil accounts] = 1 to 10			
FILL	<p>{Number} IF Only one account = "number" OTHERWISE = "numbers"</p> <p>{Supplier} = Supplier name from H15 [Fuel oil supplier name]</p> <p>{FuelOilType} = Type or types specified in D16 [Fuel oil, diesel, or kerosene]</p> <p>{IsAre} IF Only one account = "is" OTHERWISE = "are"</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Please give me the {FuelOilType} account {Number} for {Supplier}.			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	What {IsAre} the {FuelOilType} account {Number} for {Supplier}?			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>String Text</i>				
<i>Watermark</i>				
Enter account number				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	IF H1 [Provide fuel oil figures] = No OR Missing → H24 [Bills cover only building] OTHERWISE → H27 [Fuel oil bill available]			

H24	Bills cover only building {OthFOBldgs3}	FK1OTB-FK4OTB		
ASK	IF H22 [Number fuel oil accounts] = 1 to 10 & (H1 [Provide fuel oil figures] = No OR Missing)			
FILL	<p>{Bills} IF Only one account = "Does the bill or statement" IF 2 to 10 accounts = "Do the bills or statements"</p> <p>{Supplier} = H15 [Fuel oil supplier name]</p> <p>{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"</p> <p>{Structures} IF Interview = Building = "buildings" IF Interview = Establishment = "establishments"</p> <p>{Structure(s)} IF Interview = Building = "building(s)" IF Interview = Establishment = "establishment(s)"</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	{Bills} from {Supplier} cover just this {Structure} or are other {Structures} covered as well?			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Just this {Structure}				
2. Other {Structure(s)}				
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other {Structure(s)} → H25 [Sq ft of others included] IF Just this {Structure} OR Missing → H26 [Include other major fuel oil]			

H25	Sq ft of others included {OthFOSqFt3}	FK1OTS-FK4OTS		
ASK	IF H24 [Bills cover only building] = Other {Structure(s)}			
FILL	{Bills} IF Only one account = "bill or statement" IF 2 to 10 accounts = "bills or statements" {Structures} IF Interview = Building = "buildings" IF Interview = Establishment = "establishments"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	What is the approximate square footage of the <u>other</u> {Structures} included on the {Bills}? If you're not sure, please provide your best estimate.			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	square feet	1-999,999,999		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	→H26 [Include other major fuel oil]			

H26	Include other major fuel oil {OthFOUse3}		FK1OTU-FK4OTU			
ASK	IF H22 [Number fuel oil accounts] = 1 to 10 & (H1 [Provide fuel oil figures] = No OR Missing)					
FILL	<p>{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"</p> <p>{Bills} IF Only one account = "Does the bill or statement" IF 2 to 10 accounts = "Do the bills or statements"</p> <p>{FuelOilType} = Type or types specified in D16 [Fuel oil, diesel, or kerosene]</p>					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	{Bills} include charges for any <u>other</u> major {FuelOilType} usage outside the {Structure}, such as for kilns, welding, pumps, or motors?					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Enumerated</i>						
Response options	Image	SAS Name				
1. Yes						
2. No						
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	→ H27 [Fuel oil bill available]					

H27	Fuel oil bill available {FOBillAvailable}	FK1BILL-FK4BILL		
ASK	IF H14 [Number fuel oil suppliers] = 1 to 4 & NOT H15 [Fuel oil supplier name] = Missing			
FILL	{FuelOilType} = Type or types specified in D16 [Fuel oil, diesel, or kerosene] {Supplier} = "H15 [Fuel oil supplier name]"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Can you provide a copy of one {FuelOilType} bill from {Supplier}? There is information on some utility bills that may help energy researchers who use these data. You can either upload the bill through the 2018 CBECS website, give it to me, or mail it to our offices in a postage-paid envelope.			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	Can you provide a copy of one {FuelOilType} bill from {Supplier}? There is information on some utility bills that may help energy researchers who use these data. You can either upload the bill through the 2018 CBECS website or mail it to our offices. A link to a postage-paid return envelope label is available on the website.			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
Enumerated				
Response options	Image	SAS Name		
1. Yes, bill available				
2. No, will not be able to provide bill				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF More suppliers left to answer for → Back to H15 [Fuel oil supplier name] for next supplier OTHERWISE → IRT [Section I Routing]			

H28	Fuel oil bill available {FkBillAvailDKSupName}	FKBILLDK2		
ASK	IF H15 [Fuel oil suppliers] = Missing			
FILL	{FuelOilType} = Type or types specified in D16 [Fuel oil, diesel, or kerosene]			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Can you provide a copy of one {FuelOilType} bill? There is information on some utility bills that may help energy researchers who use these data. You can either upload the bill through the 2018 CBECS website, give it to me, or mail it to our offices in a postage-paid envelope.			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	Can you provide a copy of one {FuelOilType} bill? There is information on some utility bills that may help energy researchers who use these data. You can either upload the bill through the 2018 CBECS website or mail it to our offices. A link to a postage-paid return envelope label is available on the website.			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Yes, bill available				
2. No, will not be able to provide bill				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ IRT [Section I Routing]			

Section I: District Steam

IRT	Section I Routing
	<p>IF District steam used & NOT (D27 [Where does steam come from] = From a boiler inside this building OR D64 [Where does steam come from] = From a boiler inside this building) ➔ I1 [Provide district steam figures] OTHERWISE ➔ JRT [Section J Routing]</p>

I1	Provide district steam figures {ProvideStFigs}		STFIGS	
ASK	IF District steam used & NOT (D27 [Where does steam come from] = From a boiler inside this building OR D64 [Where does steam come from] = From a boiler inside this building)			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	The next questions are about district steam usage in this {Structure} during calendar year 2018. Are you able to report how much district steam was used in this {Structure} during 2018?			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated	<input type="checkbox"/> Numeric	<input type="checkbox"/> String Text	<input type="checkbox"/> Date
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options		Image	SAS Name	
1. Yes				
2. No				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Yes ➔ I2 [Units for district steam] IF No OR Missing: IF D18 [From central plant] ≠ Yes OR D27 [Where does steam come from] = From a district steam utility OR D64 [Where does steam come from] = From a district steam utility ➔ I12 [District steam supplier name] OTHERWISE ➔ JRT [Section J Routing]			

I2	Units for district steam {StUnits}	STUNIT		
ASK	IF I1 [Provide district steam figures] = Yes			
QUESTION TEXT – interviewer-administered				
Show Card	SHOW CARD I1			
Question Text	Please look at Show Card I1 and tell me the units in which your district steam is measured.			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	In which of the following units is your district steam is measured?			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Thousand pounds				
2. Pounds				
3. Million Btu (MMBtu)				
4. Some other units				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Some other units → I3 [Other district steam units] OTHERWISE → I4 [District steam consumption]			

I3	Other district steam units {StOthUnits}			STUNITX				
ASK	IF I2 [Units for district steam] = Some other units							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	N/A – other specify box – see watermark							
Interviewer Instructions	N/A							
QUESTION TEXT – respondent-administered								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>String Text</i>								
<i>Watermark</i>								
Enter other units								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank							
NEXT	➔ I4 [District steam consumption]							

I4	District steam consumption {StCons}			STCNS				
ASK	IF I1 [Provide district steam figures] = Yes							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Please give me the total amount of district steam used in calendar year 2018.							
Interviewer Instructions	N/A							
QUESTION TEXT – respondent-administered								
Question Text	What was the total amount of district steam used in calendar year 2018?							
Respondent Instructions	N/A							
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Numeric</i>								
Watermark	Label	Range						
Enter a number	units of steam	1-99,999,999,999,999						
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Missing THEN: IF D18 [From central plant] ≠ Yes OR D27 [Where does steam come from] = From a district steam utility OR D64 [Where does steam come from] = From a district steam utility ➔ I12 [District steam supplier name] OTHERWISE ➔ JRT [Section J Routing] OTHERWISE ➔ I5 [District steam expenditures]							

I5	District steam expenditures {StExp}			STEXP				
ASK	IF I4 [District steam consumption] given							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Please give me the total dollars spent on district steam in 2018, including state and local taxes.							
Interviewer Instructions	Do <u>not</u> enter cents							
QUESTION TEXT – respondent-administered								
Question Text	How much was spent on district steam in 2018, including state and local taxes?							
Respondent Instructions	No changes required							
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Numeric</i>								
Watermark	Label	Range						
Enter dollar amount	None	0-999,999,999						
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	➔ I6 [Starting date for district steam figures]							

I6	Starting date for district steam figures {StStartDate}			STSTDAT			
ASK	IF I4 [District steam consumption] given						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	What is the starting date for these district steam usage figures?						
Interviewer Instructions	N/A						
QUESTION TEXT – respondent-administered							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input checked="" type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Date</i>							
Watermark							
mm/dd/yyyy							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank						
NEXT	➔ I7 [Ending date for district steam figures]						

I7	Ending date for district steam figures {StEndDate}			STENDAT			
ASK	IF I4 [District steam consumption] given						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	What is the ending date for these district steam usage figures?						
Interviewer Instructions	N/A						
QUESTION TEXT – respondent-administered							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input checked="" type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Date</i>							
Watermark							
mm/dd/yyyy							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank						
NEXT	IF Building interview & (C5 [Number of businesses] > 1 OR C6 [Number of businesses category] ≠ Zero OR One) ➔ I8 [All occupants steam included] OTHERWISE ➔ I10 [Other bldgs steam included]						

I8	All occupants steam included {AllOccSt1}	STALL		
ASK	IF Building interview & I4 [District steam consumption] given & (C5 [Number of businesses] > 1 OR C6 [Number of businesses category] ≠ Zero OR One)			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Do these figures include the district steam for all of the businesses or organizations in this building?			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	<input type="checkbox"/>	Image		
1. Yes				
2. No				
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF No → I9 [Sq ft not included] OTHERWISE → I10 [Other bldgs steam included]			

I9	Sq ft not included {NonStSqFt1}			STN/ISF
ASK	IF I8 [All occupants steam included] = No			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	What is the approximate square footage of the space in the building that is <u>not</u> included in these figures? If you're not sure, please provide your best estimate.			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated	<input checked="" type="checkbox"/> Numeric	<input type="checkbox"/> String Text	<input type="checkbox"/> Date
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	square feet	1 to 999,999,999		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF D18 [From central plant] ≠ Yes OR D27 [Where does steam come from] = From a district steam utility OR D64 [Where does steam come from] = From a district steam utility → I12 [District steam supplier name] OTHERWISE → JRT [Section J Routing]			

I10	Other bldgs steam included {OthStBldgs1}			STOTBD			
ASK	IF I4 [District steam consumption] given & (Establishment interview OR (Building interview & NOT I8 [All occupants steam included] = No))						
FILL	{Structures} IF Interview = Building = "buildings" IF Interview = Establishment = "establishments"						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	Is any consumption from other {Structures} included in these figures?						
Interviewer Instructions	N/A						
QUESTION TEXT – respondent-administered							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options		Image	SAS Name				
1. Yes							
2. No							
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	IF Yes ➔ I11 [Sq ft of other included] OTHERWISE: IF D18 [From central plant] ≠ Yes OR D27 [Where does steam come from] = From a district steam utility OR D64 [Where does steam come from] = From a district steam utility ➔ I12 [District steam supplier name] OTHERWISE ➔ JRT [Section J Routing]						

I11	Sq ft of other included {OthStSqFt1}		STOTSF			
ASK	IF I10 [Other bldgs steam included] = Yes					
FILL	{Structures} IF Interview = Building = "buildings" IF Interview = Establishment = "establishments"					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	What is the approximate square footage of the <u>other</u> {Structures} that are included in these figures? If you're not sure, please provide your best estimate.					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
Enter a number	square feet	1-999,999,999				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	IF D18 [From central plant] ≠ Yes OR D27 [Where does steam come from] = From a district steam utility OR D64 [Where does steam come from] = From a district steam utility ➔ I12 [District steam supplier name] OTHERWISE ➔ JRT [Section J Routing]					

I12	District steam supplier name {StSupName} STSUP
ASK	IF (Establishment interview & District steam used) OR (Building interview & District steam used & (D18 [From central plant] ≠ Yes OR D27 [Where does steam come from] = From a district steam utility OR D64 [Where does steam come from] = From a district steam utility))
FILL	<p>{SuppliersIntro}</p> <p>IF (I1 [Provide district steam figures] = No OR Missing) OR I4 [District steam consumption] = Missing = "It may be possible to obtain this information directly from your district steam supplier."</p> <p>OTHERWISE = "The next questions are about your district steam supplier."</p>
QUESTION TEXT – interviewer-administered	
Show Card	N/A
Question Text	<p>{SuppliersIntro}</p> <p>What is the name of the supplier that provided district steam in calendar year 2018?</p>
Interviewer Instructions	N/A
QUESTION TEXT – respondent-administered	
Question Text	No changes required
Respondent Instructions	N/A
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date
RESPONSE OPTIONS	
<i>String Text</i>	
<i>Watermark</i>	
Enter the name of the supplier	
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank
NEXT	IF Name given → I14 [Street address] IF Missing → I13 [District steam bill available]

I13	District steam bill available {StBillAvailableDKSupName}			STBILLDK
ASK	IF I12 [District steam supplier name] = Missing			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Can you provide a copy of one district steam bill? There is information on some utility bills that may help energy researchers who use these data. You can either upload the bill through the 2018 CBECS website, give it to me, or mail it to our offices in a postage-paid envelope.			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	Can you provide a copy of one district steam bill? There is information on some utility bills that may help energy researchers who use these data. You can either upload the bill through the 2018 CBECS website or mail it to our offices. A link to a postage-paid return envelope label is available on the website.			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated	<input type="checkbox"/> Numeric	<input type="checkbox"/> String Text	<input type="checkbox"/> Date
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options		Image	SAS Name	
1. Yes, bill available				
2. No, will not be able to provide bill				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	OTHERWISE ➔ JRT [Section J Routing]			

I14	Street address {StSupAddr1}	STAD1
ASK	IF I12 [District steam supplier name] given	
FILL	{Supplier} = I12 [District steam supplier name]	
DISPLAY	I14-I18 are all on the same screen	
QUESTION TEXT – interviewer-administered		
Show Card	N/A	
Question Text	What is the address for {Supplier}, beginning with the street address? Street address:	
Interviewer Instructions	N/A	
QUESTION TEXT – respondent-administered		
Question Text	What is the address for {Supplier}? Street address:	
Respondent Instructions	N/A	
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date	
RESPONSE OPTIONS		
<i>String Text</i>		
<i>Watermark</i>		
None		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank	
NEXT	➔ I15 [P.O. Box or Suite]	

I15	P.O. Box or Suite {StSupAddr2}	STAD2		
ASK	IF I12 [District steam supplier name] given			
DISPLAY	I14-I18 are all on the same screen			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	P.O. Box or suite number:			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>String Text</i>				
<i>Watermark</i>				
None				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	➔ I16 [City]			

I16	City {StSupCity}	STCTY		
ASK	IF I12 [District steam supplier name] given			
DISPLAY	I14-I18 are all on the same screen			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	City:			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>String Text</i>				
<i>Watermark</i>				
None				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	➔ I17 [State abbreviation]			

I17	State abbreviation {StSupState}	STSTA		
ASK	IF I12 [District steam supplier name] given			
DISPLAY	I14-I18 are all on the same screen			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	State:			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options		Image		
State drop-down list with "Select a state" as watermark. Alphabetic order by state name, beginning with state abbreviation. Example : AL - ALABAMA				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	➔ I18 [ZIP code]			

I18	ZIP code {StSupZip}			STZIP			
ASK	IF I12 [District steam supplier name] given						
DISPLAY	I14-I18 are all on the same screen						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	ZIP code:						
Interviewer Instructions	N/A						
QUESTION TEXT – respondent-administered							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
<i>Numeric</i>							
Watermark	Label	Range					
None	None	00000-99999					
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank						
NEXT	➔ I19 [Number district steam accounts]						

I19	Number district steam accounts {NumStAccts}		STNAC			
ASK	IF I12 [District steam supplier name] given					
FILL	<p>{Supplier} = "I12 [District steam supplier name]"</p> <p>{Structure}</p> <p>IF Interview = Building = "building"</p> <p>IF Interview = Establishment = "establishment"</p>					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	How many different district steam accounts does this {Structure} have with {Supplier}?					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
Enter a number	district steam accounts	1-999				
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	IF 1 to 10 accounts → I20 [District steam account number] IF More than 10 accounts OR DK/Missing → I23 [District steam bill available]					

I20	District steam account number {StAcctNums}	STAC1-STAC10		
ASK	IF I19 [Number district steam accounts] = 1 to 10			
FILL	<p>{Number} IF Only one account = "number" OTHERWISE = "numbers"</p> <p>{Supplier} = Supplier name from I12 [District steam supplier name]</p> <p>{IsAre} IF Only one account = "is" OTHERWISE = "are"</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Please give me the district steam account {Number} for {Supplier}.			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	What {IsAre} the district steam account {Number} for {Supplier}?			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>String Text</i>				
<i>Watermark</i>				
Enter district steam account number				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	IF (I1 [Provide district steam figures] = No OR Missing) OR I4 [District steam consumption] = Missing → I21 [Bills cover only building] OTHERWISE → I23 [District steam bill available]			

I21	Bills cover only building {OthStBldgs3}		STOTB			
ASK	IF I19 [Number district steam accounts] = 1 to 10 & ((I1 [Provide district steam figures] = No OR Missing) OR I4 [District steam consumption] = Missing)					
FILL	<p>{Bills} IF Only one account = "Does the bill or statement" IF 2 to 10 accounts = "Do the bills or statements"</p> <p>{Supplier} = I12 [District steam supplier name]</p> <p>{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"</p> <p>{Structures} IF Interview = Building = "buildings" IF Interview = Establishment = "establishments"</p> <p>{Structure(s)} IF Interview = Building = "building(s)" IF Interview = Establishment = "establishment(s)"</p>					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	{Bills} from {Supplier} cover just this {Structure} or are other {Structures} covered as well?					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Enumerated</i>						
Response options		Image	SAS Name			
1. Just this {Structure}						
2. Other {Structure(s)}						
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	IF Other {Structure(s)} → I22 [Sq ft of others included] IF Just this {Structure} OR Missing → I23 [District steam bill available]					

I22	Sq ft of others included {OthStSqFt3}		STOTS			
ASK	IF I21 [Bills cover only building] = Other {Structure(s)}					
FILL	{Bills} IF Only one account = "bill or statement" IF 2 to 10 accounts = "bills or statements" {Structures} IF Interview = Building = "buildings" IF Interview = Establishment = "establishments"					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	What is the approximate square footage of the <u>other</u> {Structures} included on the {Bills}? If you're not sure, please provide your best estimate.					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
Enter a number	square feet	1-999,999,999				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	→I23 [District steam bill available]					

I23	District steam bill available {StBillAvailable}			STBILL
ASK	IF I12 [District steam supplier name] given			
FILL	{Supplier} = "I12 [District steam supplier name]"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Can you provide a copy of one district steam bill from {Supplier}? There is information on some utility bills that may help energy researchers who use these data. You can either upload the bill through the 2018 CBECS website, give it to me, or mail it to our offices in a postage-paid envelope.			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	Can you provide a copy of one district steam bill from {Supplier}? There is information on some utility bills that may help energy researchers who use these data. You can either upload the bill through the 2018 CBECS website or mail it to our offices. A link to a postage-paid return envelope label is available on the website.			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated	<input type="checkbox"/> Numeric	<input type="checkbox"/> String Text	<input type="checkbox"/> Date
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options		Image	SAS Name	
1. Yes, bill available				
2. No, will not be able to provide bill				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	OTHERWISE ➔ JRT [Section J Routing]			

Section J: District Hot Water

JRT	Section J Routing
	<p>IF District hot water used & NOT (D29 [Where does hot water come from] = From a boiler inside this building OR D67 [Where does hot water come from] = From a boiler inside this building) ➔ J1 [Provide district hot water figures] OTHERWISE ➔ KRT [Section K Routing]</p>

J1	Provide district hot water figures {ProvideHWFigs}	<i>HWFIGS</i>		
ASK	IF District hot water used & NOT (D29 [Where does hot water come from] = From a boiler inside this building OR D67 [Where does hot water come from] = From a boiler inside this building)			
FILL	{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	The next questions are about district hot water usage in this {Structure} during calendar year 2018. Are you able to report how much district hot water was used in this {Structure} during 2018?			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated	<input type="checkbox"/> Numeric	<input type="checkbox"/> String Text	<input type="checkbox"/> Date
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options		Image	SAS Name	
1. Yes				
2. No				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Yes ➔ J2 [District hot water consumption] IF No OR Missing: IF D18 [From central plant] ≠ Yes OR D29 [Where does hot water come from] = From a district hot water utility OR D67 [Where does hot water come from] = From a district hot water utility ➔ J10 [District hot water supplier name] OTHERWISE ➔ KRT [Section K Routing]			

J2	District hot water consumption {HWCons}			<i>HWCNS</i>			
ASK	IF J1 [Provide district hot water figures] = Yes						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	Please give me the total amount, in million Btu, of district hot water used in calendar year 2018.						
Interviewer Instructions	N/A						
QUESTION TEXT – respondent-administered							
Question Text	What was the total amount, in million Btu, of district hot water used in calendar year 2018?						
Respondent Instructions	N/A						
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
Numeric							
Watermark		Label	Range				
Enter a number		MMBtu	1-99,999,999,999,999				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	IF Missing THEN: IF D18 [From central plant] ≠ Yes OR D29 [Where does hot water come from] = From a district hot water utility OR D67 [Where does hot water come from] = From a district hot water utility → J10 [District hot water supplier name] OTHERWISE → KRT [Section K Routing] OTHERWISE → J3 [District hot water expenditures]						

J3	District hot water expenditures {HWExp}			HWEXP
ASK	IF J2 [District hot water consumption] given			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Please give me the total dollars spent on district hot water in 2018, including state and local taxes.			
Interviewer Instructions	Do <u>not</u> enter cents			
QUESTION TEXT – respondent-administered				
Question Text	How much was spent on district hot water in 2018, including state and local taxes?			
Respondent Instructions	No changes required			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
Numeric				
Watermark	Label	Range		
Enter dollar amount	None	0-999,999,999		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ J4 [Starting date for district hot water figures]			

J4	Starting date for district hot water figures {HWStartDate}			HWSTDAT			
ASK	IF J2 [District hot water consumption] given						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	What is the starting date for these district hot water usage figures?						
Interviewer Instructions	N/A						
QUESTION TEXT – respondent-administered							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input checked="" type="checkbox"/> Date						
RESPONSE OPTIONS							
Date							
Watermark							
mm/dd/yyyy							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank						
NEXT	➔ J5 [Ending date for district hot water figures]						

J5	Ending date for district hot water figures {HWEndDate}			<i>HWENDAT</i>			
ASK	IF J2 [District hot water consumption] given						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	What is the ending date for these district hot water usage figures?						
Interviewer Instructions	N/A						
QUESTION TEXT – respondent-administered							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input checked="" type="checkbox"/> Date						
RESPONSE OPTIONS							
Date							
Watermark							
mm/dd/yyyy							
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank						
NEXT	IF Building interview & (C5 [Number of businesses] >1 OR C6 [Number of businesses category] ≠ Zero OR One) → J6 [All occupants hot water included] OTHERWISE → J8 [Other bldgs hot water included]						

J6	All occupants hot water included {AllOccHW1}			HWALL				
ASK	IF Building interview & J2 [District hot water consumption] given & (C5 [Number of businesses] >1 OR C6 [Number of businesses category] ≠ Zero OR One)							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Do these figures include the district hot water for all of the businesses or organizations in this building?							
Interviewer Instructions	N/A							
QUESTION TEXT – respondent-administered								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
Enumerated								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF No → J7 [Sq ft not included] OTHERWISE → J8 [Other bldgs hot water included]							

J7	Sq ft not included {NonHWSqFt1}			<i>HWNISF</i>			
ASK	IF J6 [All occupants hot water included] = No						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	What is the approximate square footage of the space in the building that is <u>not</u> included in these figures? If you're not sure, please provide your best estimate.						
Interviewer Instructions	N/A						
QUESTION TEXT – respondent-administered							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Numeric</i>							
Watermark	Label	Range					
Enter a number	square feet	1 to 999,999,999					
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	IF D18 [From central plant] ≠ Yes OR D29 [Where does hot water come from] = From a district hot water utility OR D67 [Where does hot water come from] = From a district hot water utility → J10 [District hot water supplier name] OTHERWISE → KRT [Section K Routing]						

J8	Other bldgs hot water included {OthHWBldgs1}			HWOTBD				
ASK	IF J2 [District hot water consumption] given & (Establishment interview OR (Building interview & NOT J6 [All occupants hot water included] = No))							
FILL	{Structures} IF Interview = Building = "buildings" IF Interview = Establishment = "establishments"							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Is any consumption from other {Structures} included in these figures?							
Interviewer Instructions	N/A							
QUESTION TEXT – respondent-administered								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. Yes								
2. No								
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Yes ➔ J9 [Sq ft of other included] OTHERWISE: IF D18 [From central plant] ≠ Yes OR D29 [Where does hot water come from] = From a district hot water utility OR D67 [Where does hot water come from] = From a district hot water utility ➔ J10 [District hot water supplier name] OTHERWISE ➔ KRT [Section K Routing]							

J9	Sq ft of other included {OthHWSqFt1}	HWOTSF		
ASK	IF J8 [Other bldgs hot water included] = Yes			
FILL	{Structures} IF Interview = Building = "buildings" IF Interview = Establishment = "establishments"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	What is the approximate square footage of the <u>other</u> {Structures} that are included in these figures? If you're not sure, please provide your best estimate.			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
Numeric				
Watermark	Label	Range		
Enter a number	square feet	1-999,999,999		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF D18 [From central plant] ≠ Yes OR D29 [Where does hot water come from] = From a district hot water utility OR D67 [Where does hot water come from] = From a district hot water utility ➔ J10 [District hot water supplier name] OTHERWISE ➔ KRT [Section K Routing]			

J10	District hot water supplier name {HWSupName}	HWSUP		
ASK	IF (Establishment interview & District hot water used) OR (Building interview & District hot water used & (D18 [From central plant] ≠ Yes OR D29 [Where does hot water come from] = From a district hot water utility OR D67 [Where does hot water come from] = From a district hot water utility))			
FILL	<p>{SuppliersIntro} IF (J1 [Provide district hot water figures] = No OR Missing) OR J2 [District hot water consumption] = Missing = "It may be possible to obtain this information directly from your district hot water supplier." OTHERWISE = "The next questions are about your district hot water supplier."</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	<p>{SuppliersIntro} What is the name of the supplier that provided district hot water in calendar year 2018?</p>			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
String Text				
Watermark				
Enter the name of the supplier				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Name given → J12 [Street address] IF Missing → J11 [District hot water bill available]			

J11	District hot water bill available {HWBillAvailableDKSupName} HWBILLDK					
ASK	IF J10 [District hot water supplier name] = Missing					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	Can you provide a copy of one district hot water bill? There is information on some utility bills that may help energy researchers who use these data. You can either upload the bill through the 2018 CBECS website, give it to me, or mail it to our offices in a postage-paid envelope.					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	Can you provide a copy of one district hot water bill? There is information on some utility bills that may help energy researchers who use these data. You can either upload the bill through the 2018 CBECS website or mail it to our offices. A link to a postage-paid return envelope label is available on the website.					
Respondent Instructions	N/A					
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Enumerated</i>						
Response options		Image	SAS Name			
1. Yes, bill available						
2. No, will not be able to provide bill						
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	➔ KRT [Section K Routing]					

J12	Street address {HWSupAddr1}	HWAD1
ASK	IF J10 [District hot water supplier name] given	
FILL	{Supplier} = J10 [District hot water supplier name]	
DISPLAY	J12-J16 are all on the same screen	
QUESTION TEXT – interviewer-administered		
Show Card	N/A	
Question Text	What is the address for {Supplier}, beginning with the street address? Street address:	
Interviewer Instructions	N/A	
QUESTION TEXT – respondent-administered		
Question Text	What is the address for {Supplier}? Street address:	
Respondent Instructions	N/A	
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date	
RESPONSE OPTIONS		
<i>String Text</i>		
<i>Watermark</i>		
None		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank	
NEXT	➔ J13 [P.O. Box or Suite]	

J13	P.O. Box or Suite {HWSupAddr2}			<i>HWAD2</i>
ASK	IF J10 [District hot water supplier name] given			
DISPLAY	J12-J16 are all on the same screen			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	P.O. Box or suite number:			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>String Text</i>				
<i>Watermark</i>				
None				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	➔ J14 [City]			

J14	City {HWSupCity}	<i>HWCTY</i>		
ASK	IF J10 [District hot water supplier name] given			
DISPLAY	J12-J16 are all on the same screen			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	City:			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>String Text</i>				
<i>Watermark</i>				
None				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	➔ J15 [State abbreviation]			

J15	State abbreviation {HWSupState}	HWSTA		
ASK	IF J10 [District hot water supplier name] given			
DISPLAY	J12-J16 are all on the same screen			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	State:			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
State drop-down list with "Select a state" as watermark. Alphabetic order by state name, beginning with state abbreviation. Example : AL - ALABAMA				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	➔ J16 [ZIP code]			

J16	ZIP code {HWSupZip}		<i>HWZIP</i>			
ASK	IF J10 [District hot water supplier name] given					
DISPLAY	J12-J16 are all on the same screen					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	ZIP code:					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
None	None	00000-99999				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank					
NEXT	➔ J17 [Number district hot water accounts]					

J17	Number district hot water accounts {NumHWAccts}		<i>HWNAC</i>			
ASK	IF J10 [District hot water supplier name] given					
FILL	<p>{Supplier} = "J10 [District hot water supplier name]"</p> <p>{Structure}</p> <p>IF Interview = Building = "building"</p> <p>IF Interview = Establishment = "establishment"</p>					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	How many different district hot water accounts does this {Structure} have with {Supplier}?					
Interviewer Instructions	N/A					
QUESTION TEXT – respondent-administered						
Question Text	No changes required					
Respondent Instructions	N/A					
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Numeric</i>						
Watermark	Label	Range				
Enter a number	district hot water accounts	1-999				
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	IF 1 to 10 accounts → J18 [District hot water account number] IF More than 10 accounts OR DK/Missing → J21 [District hot water bill available]					

J18	District hot water account number {HWAcctNums}	HWAC1-HWAC10		
ASK	IF J17 [Number district hot water accounts] = 1 to 10			
FILL	<p>{Number} IF Only one account = "number" OTHERWISE = "numbers"</p> <p>{Supplier} = Supplier name from J10 [District hot water supplier name]</p> <p>{IsAre} IF Only one account = "is" OTHERWISE = "are"</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Please give me the district hot water account {Number} for {Supplier}.			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	What {IsAre} the district hot water account {Number} for {Supplier}?			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>String Text</i>				
<i>Watermark</i>				
Enter district hot water account number				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank			
NEXT	IF (J1 [Provide district hot water figures] = No OR Missing) OR J2 [District hot water consumption] = Missing → J19 [Bills cover only building] OTHERWISE → J21 [District hot water bill available]			

J19	Bills cover only building {OthHWBldgs3}	HWOTB		
ASK	IF J17 [Number district hot water accounts] = 1 to 10 & ((J1 [Provide district hot water figures] = No OR Missing) OR J2 [District hot water consumption] = Missing)			
FILL	<p>{Bills} IF Only one account = "Does the bill or statement" IF 2 to 10 accounts = "Do the bills or statements"</p> <p>{Supplier} = J10 [District hot water supplier name]</p> <p>{Structure} IF Interview = Building = "building" IF Interview = Establishment = "establishment"</p> <p>{Structures} IF Interview = Building = "buildings" IF Interview = Establishment = "establishments"</p> <p>{Structure(s)} IF Interview = Building = "building(s)" IF Interview = Establishment = "establishment(s)"</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	{Bills} from {Supplier} cover just this {Structure} or are other {Structures} covered as well?			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	<input type="checkbox"/>	Image		
1. Just this {Structure}				
2. Other {Structure(s)}				
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Other {Structure(s)} → J20 [Sq ft of others included] IF Just this {Structure} OR Missing → J21 [District hot water bill available]			

J20	Sq ft of others included {OthHWSqFt3}	HWOTS		
ASK	IF J19 [Bills cover only building] = Other {Structure(s)}			
FILL	{Bills} IF Only one account = "bill or statement" IF 2 to 10 accounts = "bills or statements" {Structures} IF Interview = Building = "buildings" IF Interview = Establishment = "establishments"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	What is the approximate square footage of the <u>other</u> {Structures} included on the {Bills}? If you're not sure, please provide your best estimate.			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Numeric</i>				
Watermark	Label	Range		
Enter a number	square feet	1-999,999,999		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ J21 [District hot water bill available]			

J21	District hot water bill available {HWBillAvailable}	HWBILL		
ASK	IF J10 [District hot water supplier name] given			
FILL	{Supplier} = "J10 [District hot water supplier name]"			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Can you provide a copy of one district hot water bill from {Supplier}? There is information on some utility bills that may help energy researchers who use these data. You can either upload the bill through the 2018 CBECS website, give it to me, or mail it to our offices in a postage-paid envelope.			
Interviewer Instructions	N/A			
QUESTION TEXT – respondent-administered				
Question Text	Can you provide a copy of one district hot water bill from {Supplier}? There is information on some utility bills that may help energy researchers who use these data. You can either upload the bill through the 2018 CBECS website or mail it to our offices. A link to a postage-paid return envelope label is available on the website.			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Yes, bill available				
2. No, will not be able to provide bill				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	OTHERWISE ➔ KRT [Section K Routing]			

Section K: Tenant Billing and Metering

KRT	Section K Routing
	<p>IF (CBECS Activity = Office OR Retail OR B9 [Warehouse type] = Nonrefrigerated warehouse; Refrigerated warehouse; OR Distribution or shipping center) & C9 [Number of tenants] > 0 & (A6 [Square footage] > 10,000 OR A7 [Square footage category] = 10,001 to 25,000 square feet; 25,001 to 50,000 square feet; 50,001 to 100,000 square feet; 100,0001 to 200,000 square feet; 200,001 to 500,000 square feet; 500,001 to 1 million square feet; OR Over 1 million square feet) & Electricity used → K1 [Electricity billing arrangement] OTHERWISE → L1 [Response effort]</p>

K1	Electricity billing arrangement {ElecBillArrange}	ELBLARR		
ASK	IF (CBECS Activity = Office OR Retail OR B9 [Warehouse type] = Nonrefrigerated warehouse; Refrigerated warehouse; OR Distribution or shipping center) & C9 [Number of tenants] > 0 & (A6 [Square footage] > 10,000 OR A7 [Square footage category] = 10,001 to 25,000 square feet; 25,001 to 50,000 square feet; 50,001 to 100,000 square feet; 100,0001 to 200,000 square feet; 200,001 to 500,000 square feet; 500,001 to 1 million square feet; OR Over 1 million square feet) & Electricity used			
FILL	<p>{Heating} IF Electricity used for heating = "space heating," OTHERWISE = BLANK</p> <p>{WaterHeating} IF Electricity used for water heating = "water heating," OTHERWISE = BLANK</p> <p>{Cooling} IF Electricity used for cooling = "cooling," OTHERWISE = BLANK</p> <p>{Data Center} IF Data center IN E51 [Computer areas] = "data center," OTHERWISE = BLANK</p> <p>{OfficeExp} IF CBECS Activity = Office = "Please remember to include tenants such as food service and retail that lease space in the building." OTHERWISE = BLANK</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	<p>We are almost finished. I just have a few questions about energy billing and metering in this building.</p> <p>Thinking about all of the electricity used by the tenants in this building, including any for lighting, plug load, {Heating}{WaterHeating}{Cooling}{DataCenter} or other uses, how are the costs for this electricity billed? Is the cost for electricity included in the rent, are tenants separately billed for electricity by the landlord or utility, or is it a combination of these arrangements? {OfficeExp}</p>			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	<p>You are almost finished. There are just a few final questions about energy billing and metering in this building.</p> <p>Thinking about all of the electricity used by the tenants in this building, including any for lighting, plug load, {Heating}{WaterHeating}{Cooling}{DataCenter} or other uses, how are the costs for this electricity billed? {OfficeExp}</p>			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	<input type="checkbox"/>	Image		
1. Included in tenants' rent				
2. Tenants separately billed for electricity (either by the landlord or the utility)				
3. Combination of these arrangements				

NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank
NEXT	IF Missing/DK ➔ K5 [Elec tenant info job title] OTHERWISE ➔ K2 [Electricity tenant metering]

K2	Electricity tenant metering {ElecTenantMetering}			ELTNMET			
ASK	IF K1 [Electricity billing arrangement] given						
QUESTION TEXT – interviewer-administered							
Show Card	N/A						
Question Text	Are there meters dedicated to tracking some or all of the electricity used within individual tenant spaces? These meters may be installed by the utility, the building's management, the tenant, or someone else.						
Interviewer Instructions	N/A						
QUESTION TEXT – web							
Question Text	No changes required						
Respondent Instructions	N/A						
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date						
RESPONSE OPTIONS							
<i>Enumerated</i>							
Response options		Image	SAS Name				
1. Yes							
2. No							
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank						
NEXT	IF Yes → K3 [Which electricity uses metered] IF Missing/DK → K5 [Elec tenant info job title] IF No THEN: IF Natural gas used → K6 [Natural gas billing arrangement] OTHERWISE → L1 [Response effort]						

K3	Which electricity uses metered {ElecUsesMetered}	<i>see below</i>		
ASK	IF K2 [Electricity tenant metering] = Yes			
FILL	<p>{Heating} IF Electricity used for heating = "Space heating" OTHERWISE = BLANK</p> <p>{WaterHeating} IF Electricity used for water heating = "Water heating" OTHERWISE = BLANK</p> <p>{Cooling} IF Electricity used for cooling = "Cooling" OTHERWISE = BLANK</p> <p>{Data Center} IF Data center IN E51 [Computer areas] = "Data center" OTHERWISE = BLANK</p>			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Which electricity uses are metered within individual tenant spaces?			
Interviewer Instructions	Read choices if necessary Enter all that apply			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Lighting		<i>ELMTLT</i>		
2. Plug load		<i>ELMTPPL</i>		
3. {Heating}		<i>ELMTHT</i>		
4. {WaterHeating}		<i>ELMTWH</i>		
5. {Cooling}		<i>ELMTCL</i>		
6. {DataCenter}		<i>ELMTDC</i>		
7. Other		<i>ELMTOT</i>		
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ K4 [Metered electricity data access]			

K4	Metered electricity data access {MeteredElecAccess} <i>see below</i>					
ASK	IF K2 [Electricity tenant metering] = Yes					
QUESTION TEXT – interviewer-administered						
Show Card	N/A					
Question Text	Who has access to the metered electricity data for the tenant spaces: the tenants, the landlord, and/or someone else?					
Interviewer Instructions	Enter all that apply					
QUESTION TEXT – web						
Question Text	No changes required					
Respondent Instructions	Please select all that apply.					
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date					
RESPONSE OPTIONS						
<i>Enumerated</i>						
Response options		Image	SAS Name			
1. Tenant			<i>ELMTACSTN</i>			
2. Landlord			<i>ELMTACSL</i>			
3. Someone else			<i>ELMTACSOT</i>			
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank					
NEXT	IF Missing/DK → K5 [Elec tenant info job title] OTHERWISE: IF Natural gas used → K6 [Natural gas billing arrangement] OTHERWISE → L1 [Response effort]					

K5	Elec tenant info job title {ElecTenantContact}	<i>ELTNJOB</i>
ASK	IF K1 [Electricity billing arrangement] = Missing/DK OR K2 [Electricity tenant metering] = Missing/DK OR K4 [Metered electricity data access] = Missing/DK	
QUESTION TEXT – interviewer-administered		
Show Card	N/A	
Question Text	What is the job title of the person who has this information?	
Interviewer Instructions	N/A	
QUESTION TEXT – web		
Question Text	No changes required	
Respondent Instructions	N/A	
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date	
RESPONSE OPTIONS		
String Text		
Watermark		
Enter job title		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank	
NEXT	IF Natural gas used ➔ K6 [Natural gas billing arrangement] OTHERWISE ➔ L1 [Response effort]	

K6	Natural gas billing arrangement {NatGasBillArrange}	NGBLARR		
ASK	IF (CBECS Activity = Office OR Retail OR B9 [Warehouse type] = Nonrefrigerated warehouse; Refrigerated warehouse; OR Distribution or shipping center) & C9 [Number of tenants] > 0 & (A6 [Square footage] > 10,000 OR A7 [Square footage category] = 10,001 to 25,000 square feet; 25,001 to 50,000 square feet; 50,001 to 100,000 square feet; 100,0001 to 200,000 square feet; 200,001 to 500,000 square feet; 500,001 to 1 million square feet; OR Over 1 million square feet) & Electricity used & Natural gas used			
FILL	{OfficeExp} IF CBECS Activity = Office = "Please remember to include tenants such as food service and retail that lease space in the building." OTHERWISE = BLANK			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Is the cost for <u>natural gas</u> included in the rent, are tenants separately billed for natural gas by the landlord or utility, or is it a combination of these arrangements? {OfficeExp}			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	Thinking about all of the <u>natural gas</u> used by the tenants in this building, how are the costs billed? {OfficeExp}			
Respondent Instructions	N/A			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options		Image		
1. Included in tenants' rent				
2. Tenants separately billed for natural gas (either by the landlord or the utility)				
3. Combination of these arrangements				
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Missing/DK → K9 [Nat gas tenant info job title] OTHERWISE → K7 [Natural gas tenant metering]			

K7	Natural gas tenant metering {NatGasTenantMetering}			<i>NGTNMET</i>				
ASK	IF K6 [Natural gas billing arrangement] given							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	Are there meters dedicated to tracking some or all of the natural gas used within individual tenant spaces?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	No changes required							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options	Image	SAS Name						
1. Yes								
2. No								
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	IF Yes → K8 [Metered natural gas data access] IF Missing/DK → K9 [Nat gas tenant info job title] IF No → L1 [Response effort]							

K8	Metered natural gas data access {MeteredNatGasAccess}	<i>see below</i>		
ASK	IF K7 [Natural gas tenant metering] = Yes			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	Who has access to the metered natural gas data for the tenant spaces: the tenants, the landlord, and/or someone else?			
Interviewer Instructions	Enter all that apply			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	Please select all that apply.			
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
<i>Enumerated</i>				
Response options	Image	SAS Name		
1. Tenant		<i>NGMTACSTN</i>		
2. Landlord		<i>NGMTACSLL</i>		
3. Someone else		<i>NGMTACSOT</i>		
NONRESPONSE	<input checked="" type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	IF Missing/DK → K9 [Nat gas tenant info job title] OTHERWISE → L1 [Response effort]			

K9	Nat gas tenant info job title {NatGasTenantContact}	NGTNJOB		
ASK	IF K6 [Natural gas billing arrangement] = Missing/DK OR K7 [Natural gas tenant metering] = Missing/DK OR K8 [Metered natural gas data access] = Missing/DK			
QUESTION TEXT – interviewer-administered				
Show Card	N/A			
Question Text	What is the job title of the person who has this information?			
Interviewer Instructions	N/A			
QUESTION TEXT – web				
Question Text	No changes required			
Respondent Instructions	N/A			
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date			
RESPONSE OPTIONS				
String Text				
Watermark				
Enter job title				
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input checked="" type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank			
NEXT	➔ L1 [Response effort]			

Section L: Summary Questions

L1	Response effort {ResponseEffort}	REF/ORT
ASK	All structures	
QUESTION TEXT – interviewer-administered		
Show Card	N/A	
Question Text	Including yourself, please tell me how many people were needed to compile the information for this interview.	
Interviewer Instructions	N/A	
QUESTION TEXT – web		
Question Text	Including yourself, how many people were needed to compile the information for this questionnaire?	
Respondent Instructions	N/A	
ITEM TYPE	<input type="checkbox"/> Enumerated <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date	
RESPONSE OPTIONS		
<i>Numeric</i>		
Watermark	Label	Range
Enter a number	None	1 to 99
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank	
NEXT	➔ L2 [Final comments]	

L2	Final comments {FinalComments}	<i>FINLCMTS</i>
ASK	All structures	
FILL	{Structure} IF Interview = Building OR Mall = "building" IF Interview = Establishment = "establishment"	
QUESTION TEXT – interviewer-administered		
Show Card	N/A	
Question Text	<p>Thank you for helping us learn about energy use in buildings.</p> <p>If you have any additional information about this {Structure} or thoughts about the survey, please share them now.</p>	
Interviewer Instructions	N/A	
QUESTION TEXT – web		
Question Text	<p>Thank you for helping us learn about energy use in buildings.</p> <p>If you have any additional information about this {Structure} or thoughts about the survey, please enter them here.</p>	
Respondent Instructions	N/A	
ITEM TYPE	<input type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input checked="" type="checkbox"/> String Text <input type="checkbox"/> Date	
RESPONSE OPTIONS		
<i>String Text</i>		
<i>Watermark</i>		
None		
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input checked="" type="checkbox"/> Allow Blank	
NEXT	➔ L3 [Finish survey]	

L3	Finish survey {FinishSurvey}
ASK	All structures
QUESTION TEXT – interviewer-administered	
Show Card	To complete the survey, please select the “Finish” button below.
Question Text	N/A
Interviewer Instructions	IF RESPONDENT GIVES YOU AN ENERGY BILL, YOU CAN: 1) MAIL IT TO THE HOME OFFICE, OR 2) TAKE A PICTURE AND SUBMIT IT VIA MFOS. REMEMBER TO SUBMIT PHOTOS BEFORE YOU TRANSMIT! IF RESPONDENT PREFERS TO SUBMIT LATER, PROVIDE “ENERGY BILL BRE.” REMEMBER TO WRITE CASE ID ON ENVELOPE.
QUESTION TEXT – web	
Question Text	To complete the survey, please select the “Finish” button below.
Respondent Instructions	After you select “Finish,” you will be redirected to the 2018 CBECS website where you can upload energy bills, if you have any. If you prefer to mail them, you can print out a postage-paid return label from the website.
ITEM TYPE	No space for answer, just Finish button.
NONRESPONSE	N/A
NEXT	If interviewer-administered ➔ L4 [CAPI Mode] If web ➔ TERMINATE

L4	CAPI Mode {CAPIMode}			CAPIMODE				
ASK	IF interviewer-administered							
QUESTION TEXT – interviewer-administered								
Show Card	N/A							
Question Text	DID YOU COMPLETE THIS INTERVIEW IN-PERSON OR OVER THE PHONE?							
Interviewer Instructions	N/A							
QUESTION TEXT – web								
Question Text	N/A							
Respondent Instructions	N/A							
ITEM TYPE	<input checked="" type="checkbox"/> Enumerated <input type="checkbox"/> Numeric <input type="checkbox"/> String Text <input type="checkbox"/> Date							
RESPONSE OPTIONS								
<i>Enumerated</i>								
Response options		Image	SAS Name					
1. In-person								
2. Over the phone								
NONRESPONSE	<input type="checkbox"/> Explicit DK <input type="checkbox"/> Explicit RF <input type="checkbox"/> Missing Item Prompt Box <input type="checkbox"/> Allow Blank							
NEXT	TERMINATE							