Appendix D

Manufacturing Energy Consumption Survey Forms

Appendix D

1994 Manufacturing Energy Consumption Survey Form EIA-846A

OMB No. 1905-0169: Approval Expires 04/30/98

Form **EIA-846A**

U.S. Department of Commerce Bureau of the Census Acting as Collecting and

UNITED STATES DEPARTMENT
OF ENERGY
ENERGY INFORMATION
ADMINISTRATION





1994
MANUFACTURING
ENERGY
CONSUMPTION
SURVEY

Public reporting burden for this collection of information is estimated to average 9 hours per response, including the time of reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other spect of this collection of information, including suggestions for reducing this burden, to the Energy Information Administration, Office of Statistical Standards, E1-73, 1707 H-Street, NW, Washington, DC 20585; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

In correspondence pertaining to this report, please refer to this Census File Number (CFN).

Please correct errors in name, address, and ZIP Code. ENTER street and number if not shown.

PLEASE COMPLETE THIS FORM AND RETURN TO BUREAU OF THE CENSUS 1201 East 10th Street Jeffersonville, IN 47132-0001

DUE DATE:

If you cannot file by the due date, a time extension request should be sent to the above address. Please include your 11-digit Census File Number (CFN). NOTE

Please read the enclosed instructions before filling out this form. Complete each item. If you have any questions, call 1–800–866–6327.

The Manufacturing Energy Consumption Survey – The Manufacturing Energy Consumption Survey (MECS) was designed, and is being sponsored, by the Energy Information Administration (EIA) of the U.S. Department of Energy (DOE). The survey is administered and compiled by the U.S. Bureau of the Census for the EIA. The previous MECS was conducted covering the year 1991.

Mandatory Requirement – This survey is mandatory under the Federal Energy Administration Act of 1974, Pub. L. No. 93-275, and under Title 3, Subtitle B, of the Omnibus Budget Reconciliation Act of 1986, Pub. L. No. 99-509, as amended by Title 1, Subtitle G, of the Energy Policy Act of 1992, Pub. L. No. 102-486. Failure to respond may result in criminal fines, civil penalties, and other sanctions as provided by law. Response is required by law from establishments included in the MECS sample and receiving the MECS form.

Confidentiality of Data – Under Section 9 of Title 13, U.S. Code, your report to the Census Bureau is **confidential**. It may be seen only by sworn Census Bureau employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

Purpose of This Survey – The MECS will collect data on energy consumption and usage patterns for the manufacturing sector of the U.S. economy. In addition, it will measure the short-term (within 30 days) capability of your establishment to substitute fuels in place of those actually consumed in 1994. The information obtained from the MECS forms will be used to publish aggregate statistics on the following: consumption of energy for fuel and nonfuel uses, energy characteristics of buildings in the manufacturing sector, energy consumption by end use, technologies currently in use by U.S. manufacturers, energy prices, electricity generation onsite, fuel-switching capabilities, and participation in energy-management activities. This information will be used by the DOE to implement policy plans effectively as well as to assist utilities in more accurate demand forecasting and resource planning.

Form EIA-846A – This form is addressed to establishments operating primarily in the manufacturing sector in industries as defined by the 1987 Standard Industrial Classification (SIC) Manual. Industries sampled for this form are in SIC 20 through 39, except for SIC 24, 26, 28, 29, 3312, 3321, 3331, and 3339. Establishments in SIC 22 (apparel/jobbers) and SIC 27 (printing/publishing) are manufacturers by definition and should complete this form.

Government-owned establishments that are privately operated are NOT exempt from completing this survey.

Due Date – The questionnaire should be returned no later than the due date specified above. If you need additional time, please call our processing office on 1–800–528–3049. Please use the enclosed return envelope. If the envelope has been misplaced, return the completed questionnaire to us at the above address.

A. General Instructions						
1. No entries are requi	red in the shaded a	ıreas. All shad	ed areas are	to be left bla	nk.	
2. Use the indicated unit	s specified on the au	estionnaire for	reporting al	Louantities F	or example:	
2. Osc the maleated unit		y – Thousands			•	
		Millions of Bri				
	Industria	al hot water – N	Millions of Bt	u (Million Btu)	
		hort Tons				
		gas – Thousan			ft.)	
	,	n – Millions of lel and distillat				
16						
If you need conversion for Sections I and II.	n factors in order to	report in the s	pecified units	s, refer to the	detalled instr	uctions
3. Do not consolidate correspond to those u						
4. If you do not maintain	book records for par	rticular items,	olease use ca	arefully prepa	red estimates	s.
5. Please refer to the acc	ompanying instruction	on guide as yo	u answer the	e questions.		
. Operational Status						
IF FORM MA-1000 (ANNI						
ESTABLISHMENT IN 199 SOURCES. Otherwise, pl						
box (1-5) that is applicab	le to the operation of	f this establish	ment at the	end of 1994. I	f you check b	ox 3, 4,
or 5, please fill in the mo or 5 is checked, also sup						
company.	•				·	Ü
If the ownership of thi change in ownership is r			, please mal	ke certain tha	t the date of t	he
	e establishment du ccurred in 1994 prior		complete a	II sections of	he report for	m for
2. If you hought	the establishment	during the v	ar. complet	e all sections	of the report	form for
	ccurred in 1994 after		our, complet	o un scotions	or the report	1011111101
Mark (X) only ONE box was not in operation for						
you were in operation.	ine run year during r	334, piease co	inpiete tilis i	ominion me p	ait of the yea	ı tılat
					Date (Numbers C)nlv)
				Month	Day	Year
1 1 In operation					į	į
1 In operation					1	1
2 Temporarily or seasonal	ly inactive				<u> </u>	1
3 Ceased operation (Providence	de date at right)				I I	
4 ☐ Sold or leased TO anoth enter name, etc., below)	er operator (Provide date a				I I	1
5 Acquired or leased FROM	A another operator (Providence)	de date at right AN	ID		1	1
ime of new/former owner or operat	or			· n (EI) Number (9	digits)	1
mber and street				. , _ , , , .	ZIP Code	
imber and street	City		State		ZIP Code	
					1	
	CONTINUE WI	TH SECTIO	N I ON P	AGE 3		

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		IF ZERO, PLEASE ENTER ZERO (0) IN EACH BOX								
	Item Description		Electricity			Steam		Industrial Hot Water		
	(1)		10 (2)		11	(3)		12	(4)	
1a.	During 1994, what amount of each energy source was purchased from utilities by this establishme and delivered to this establishment site? (DO NOT include purchases by a central purchasing agent, quantities delivered from other establishments of your company, or quantities for which payment wa made in-kind.)	as	Kilowatthours Mil Thou	кWh		Million B	tu		Million Btu	
1 h	What was the total arrangition is alredien all	01	Dollars			Dollars			Dollars	
ID.	What was the total expenditure, including all applicable taxes, for the purchased energy source(s reported on line 1a?	s) 02	1 1	Dol	Mil	Thou	Dol	Mil	Thou Do	
2a.	During 1994, what amount of electricity and steam was purchased from nonutility suppliers by thi establishment and delivered to this establishment site?	is	Kilowatthours	ιWh		Million Btu	ı			
2b.	What was the total expenditure, including all applicable taxes, for the purchased energy source(s reported on line 2a?	03 s)	Dollars Mil Thou	Dol	Mil	Dollars Thou 				
		04	<u> i i i </u>			i				
3.	During 1994, what amount of each energy source was transferred from outside establishments and delivered to this establishment site? (DO NOT incluthe purchases reported in lines 1s and 2a. Do incluquantities received from a central purchasing agen quantities delivered from other establishments of your company, and quantities for which payment wade in-kind.)	ide ide it,	Kilowatthours Mil Thou	kWh		Million Btu			Million Btu	
4.	TOTAL QUANTITIES OF ELECTRICITY RECEIVED ONSITE (Sum of lines 1a, 2a, and 3.) NOTE – Copy this quantity for electricity to Section III – FUEL SWITCHING, part A, line 1a, column (2) on page 6.	06								
5.	During 1994, how much electricity was generated this establishment site by cogeneration? (Include A cogeneration facilities at this establishment site.)	$\overline{}$	1 1							
		07	1 1							
6.	During 1994, how much of each energy source was generated onsite from each of the following:					Million B	tu		Million Btu	
a.	Solar power	081								
b.	Wind power	082	1 1							
C.	Hydropower	083	1 1							
d.	Geothermal power	084								
7.	During 1994, how much electricity was generated onsite by processes other than those covered on lines 5, 6a, 6b, 6c, and 6d?									
		09								
8.	TOTAL ONSITE GENERATION OF ELECTRICITY (Sum of lines 5, 6a, 6b, 6c, 6d, and 7.)									
9.	During 1994, how much electricity was sold or transferred to utilities?	10								
	Г	11								
0.	During 1994, how much of each energy source was sold or transferred to any establishments other tha utilities?	s				Million B	tu		Million Btu	
4		12								
1.	TOTAL ELECTRICITY SALES AND TRANSFERS OFFSITE (Line 9 plus line 10.)	5	1 1							
		13								
12.	TOTAL ONSITE CONSUMPTION OF ELECTRICITY. (Line 4 plus line 8 minus line 11.) NOTE – Copy this quantity for electricity consumption to Section IV – ESTIMATED PERCEN- CONSUMPTION BY END USE, line 1, column (2)	т								
	on page 9.	14	!!!							

			Energy	sources	received o	nsite in	1994
Energy Sources	Census Use Only	Units used for reporting quantities	Quantity purchased by and delivered to this establishment	inclu deliver	l expenditu ding taxes y charges, ity in colum (5)	and of the	Total quantity o transfers i and centra purchase
(1)	(2)	(3)	01 (4)	Mil	Thou	Dol	03 (6)
SOLIDS 1. Anthracite	40	Short Tons		1			
2. Bituminous and subbituminous coal	41	Short Tons					
3. Lignite	42	Short Tons					
4. Total coal (Sum of lines A1, A2, and A3)	46	Short Tons					
5. Breeze	44	Short Tons					
6. Coal coke	43	Short Tons			i i		
7. Petroleum coke	70	Barrels					
8. Agricultural waste (e.g., bagasse, rice hulls, nut shells, orchard prunings)	90	Million Btu					
Wood harvested directly from trees (e.g., roundwood, wood chips, tree bark)	83	Million Btu					
10. Wood residues and byproducts from mill processing (e.g., sawdust, shavings, slabs, bark)	84	Million Btu					
11. Wood/paper-related refuse (e.g., scrap, wastepaper, wood pallets, packing materials)	72	Million Btu					
12. Other solids (Specify solid. Specify units, if not million Btu)							
В	91	Million Btu			1 1		
GASES (exclude oxygen, nitrogen, and inert gases) 1. Total natural gas (Include well production onsite in column (7))	30	1,000 cu. ft.					See Pg. 10, Pa
In the following parts 1a–1e, please classify natural gas purchases which are reported in line 1.	30	1,000 ca. 1t.			1 1		
UTILITY/LDC							
1a. Natural gas purchased directly from your utilities/local distribution companies (LDC) at a firm service rate	48	1 000 ou ft					
Natural gas purchased directly from LDC at an interruptible service rate	48	1,000 cu. ft.		1			
1c. Natural gas purchased directly from LDC at other service rates (Specify type of service)	43	1,000 cu. it.					
rate)	50	1,000 cu. ft.					
Did this establishment purchase natural gas in 1994 from sources other than utilities/LDC?	30	1,000 ca. 1t.					
1 Yes – Go to Line 1d.					1 1		
2 ☐ No – Skip to line 2, Acetylene, on this page.					1 1		
NONUTILITY/NON-LDC 1d. Natural gas purchased from non-LDC sources							
(e.g., producers, brokers, marketers, and other non-LDC sources including fees for					i i		
transportation and storage) 1e. Of the expenditures given in line 1d, please	51	1,000 cu. ft.			<u> </u>		
provide the following: (Please note that the sum of lines e(1), e(2), and e(3) should equal line 1d.)							
(1) Cost of supplies (Include brokers' fees, suppliers' fees)	52				<u> </u>		
(2) Cost of transportation – Please mark (X) all the service rates that apply.							
1 1 Firm (e.g., no-notice, bundled firm) 2 1 Interruptible							
2 1 ☐ Interruptible 3 1 ☐ Don't know							
1 Other/Released capacity (Specify type of service rate)					1 1		
3	53						
(3) Other costs (e.g., storage) (Specify)	54				1 1		-
2. Acetylene	64	Cu. Ft.					
3. Hydrogen	63	Million Btu					
4. Waste and byproduct gases (e.g., refinery gas,				1			
vent gas, plant gas, still gas) 5. Other gases (Specify gas. Specify units, if not	62	Million Btu			<u> </u>		
million Btu)	1	1		1	1 1		

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Ene	ergy sources pr	oduced ons	site in 1994	Energy sources consume	ed on	site in 1994		
	Quantity produced onsite	Does the column (7 the probyproduct energy consume	e entry in) represent oduct or of another osource ed onsite?	Quantity consumed as a fuel	co	Quantity nsumed for all nonfuel purposes	12/31/94	Energy Sources
)4	(7)	05 (8	8)	06 (9)	07	(10)	09 (11)	(12)
								A. SOLIDS Anthracite
								Bituminous and
								subbituminous coal
								Lignite
				Copy to Pg. 6, line 1a & Pg. 9, line	1			Total coal (Sum of lines A
		1 🗌 Yes	2 🗌 No					A2, and A3) Breeze
		1 🗆 Yes	2 🗌 No					
								Coal coke
		1 🗆 Yes	2 No					Petroleum coke
								Agricultural waste
								Wood harvested from trees
								Wood residues and byproducts from mills
								Wood/paper-related refuse
		1 ☐ Yes	2 🗆 No					
				Copy to Pg. 7, line 1a & Pg. 9, line	1			Other solids
								B. GASES Total natural gas
								Natural gas purchased fron LDC at an interruptible rate
								Natural gas purchased from LDC at other rates
								Natural gas purchased from non-LDC sources
								Cost of supplies
								Cost of transportation
								Other costs
								Acetylene
		1 🗆 Yes	2 🗆 No					Hydrogen
		1 🗆 Yes	2 🗆 No					Waste and byproduct gase
		1 🗌 Yes	2 🗌 No					
	EIA-846A (4-6-95)							Other gases

Section II - COMBUSTIBLE ENERGY SOUR	RCES -	Continued	ı							
			Er	ergy	sources	receive	d onsite ir	n 1994		
Energy Sources	Census Use Only	Units used for reporting quantities	Quantity purchased and deliver to this establishme	by ed	inclu deliver	expending taxe y charge ty in col	es and s, of the	Total quantity of transfers in and central purchases		
(1)	(2)	(3)	01 (4)		Mil	Thou	Dol	03 (6)		
C. LIQUIDS (42 gallons = 1 barrel)1. Diesel fuel, excluding highway usage	28	Barrels				i I	i !			
 Distillate fuel oil (numbers 1, 2, and 4 fuel oils – exclude diesel fuel reported on line C1 above.) 	29	Barrels				 	 			
3. Total diesel fuel and distillate fuel oil (Sum of lines C1 and C2)	22	Barrels				 				
 LPG (liquid petroleum gas) (e.g., butane, ethane, propane, butylene, ethylene, propylene, and mixtures) 	24	Gallons				i I	1			
5. Kerosene	27	Barrels				<u> </u>	<u> </u>			
6. Motor gasoline, excluding highway usage	23	Gallons								
Residual fuel oil (numbers 5, 6, Navy Special, and Bunker C)	21	Barrels				<u> </u> 	<u> </u>			
8. Waste oils and tars	71	Million Btu]]	 			
9. Other liquids (Specify liquid. Specify units, if not million Btu)						!				
9598	95	Million Btu				l I	1			
Section III - FUEL SWITCHING										
A. BASIC CAPABILITY The purpose of this part is to determine this estable	lishment	's potential t	o switch fron	n on	e type o	f fuel to	another	, regardless		
of whether or not any fuel switching was actually	done.			T	otal Elec	etricity	Total	Coal Excluding		
Item Description (1)				10	Receiv (2)			oke and Breeze		
10				Со		Section I,	Сору	from Section II, line 4, column (9		
						atthours	1 '	Short Tons		
 Quantity Consumed - Copy data into line 1a as in column headings. 	nstructed	in the	50							
1b. Does line 1a contain any nonzero entries? 10501 1 □ Yes - Answer lines 2 and 3 for that column. 2 □ No - Skip to Section IV - ESTIMATED PERCENT C	ONSUMP	TION BY END U	SE, on page 9.							
Do not consider differences in energy prices when estim 2. Quantity Nonswitchable – Enter the amount of to could NOT have been replaced within 30 days by a	he quanti	ty in line 1a th		1,0	00 Kilow	atthours		Short Tons		
3a. Quantity Switchable – Subtract line 2 from line 1 represents the total quantity of energy consumptio replaced within 30 days by one or more alternative	n that CO	ULD HAVE BE	EN	1,0	00 Kilow	atthours		Short Tons		
3b. Does line 3a contain any nonzero entries? 10521 1 ☐ Yes – Answer lines 4 through 11, as appropriate, f 2 ☐ No – Skip to Section IV – ESTIMATED PERCENT C			SE on page 9							
PLEASE COMPLETE				AN	OTHER					
Of the amount shown in line 3a, what is the maxim been replaced by electricity?	ium amoi	unt that could	have 53					Short Tons		
Of the amount shown in line 3a, what is the maxim been replaced by coal, excluding coal coke and bre		unt that could	have	1,0	00 Kilow	atthours				
Of the amount shown in line 3a, what is the maxim been replaced by total coal coke and breeze, excludabove?	ium amou ding coal	unt that could lincluded in lin	have e 5	1,0	00 Kilow	atthours				
7. Of the amount shown in line 3a, what is the maxim been replaced by natural gas from any supplier(s)?	ium amoi	unt that could	have 57	1,0	00 Kilow	atthours		Short Tons		
Of the amount shown in line 3a, what is the maxim been replaced by total diesel fuel and distillate fuel	1,000 Kilowatthours 8. Of the amount shown in line 3a, what is the maximum amount that could have									
9. Of the amount shown in line 3a, what is the maxim been replaced by LPG?	num amou	unt that could	have 61	1,0	00 Kilow	atthours		Short Tons		
Of the amount shown in line 3a, what is the maxim been replaced by residual fuel oil?	ium amoi	unt that could	have 63	1,0	00 Kilow	atthours	Short Tons			
Of the amount shown in line 3a, what is the maxim been replaced by any other energy source? (Specif			have	1,0	00 Kilow	atthours		Short Tons		
1099			65				1			

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Energy sources p			ERGY SOURCES - Co	and a second		
Quantity produced onsite	Does the column (7) the product of	entry in represent duct or of another	Energy sources consume Quantity consumed as a fuel	Quantity consumed for all nonfuel	Total design storage capacity located onsite as of 12/31/94	Energy Sources
,	consumed	d onsite?		purposes 07 (10)	L	(10)
(7)	05 (8)	06 (9)	07 (10)	09 (11) Barrels	C. LIQUIDS
					Barrels	Diesel fuel
			Copy to line 1a below & on pg. 9			Distillate fuel oil Total diesel fuel and distilla
			Copy to line 1a below & on pg. 9			fuel oil (Sum of lines C1 and C
						LPG
	1 🗆 Yes	2 No				Kerosene
					Gallons	Motor gasoline
			Copy to line 1a below & on pg. 9		Barrels	Residual fuel oil
	1 🗌 Yes	2 🗌 No				Waste oils and tars
						Other liquids
Section III -	FUEL SWI	TCHING	- Continued			
		т	otal Diesel Fuel and			
Total Na	tural Gas	22	Distillate Fuel Oil (5)	24 (6)	2	Residual Fuel Oil
Copy from part B, line 1	Section II, , column (9)	p	Copy from Section II, art C, line 3, column (9)	Copy from S part C, line 4,	Section II, column (9)	Copy from Section II, part C, line 7, column (9)
1,000			Barrels	Gallor		Barrels
1,000	4		Barrels	Gallor		Barrels
1,000 cu. ft.		Darreis	Galloi	15	Darreis	
	ευ. π.					
1,000 (Barrels	Gallor	ns	Barrels
1,000 (Barrels	Gallor	is .	Barrels
	cu. ft.	PLEAS	SE COMPLETE ONE COLUM	IN BEFORE START	ING ANOTHER	
1,000 (cu. ft.	PLEAS			ING ANOTHER	Barrels Barrels
	cu. ft.	PLEAS	SE COMPLETE ONE COLUM	IN BEFORE START	ING ANOTHER	
1,000 (cu. ft.	PLEAS	SE COMPLETE ONE COLUM Barrels	IN BEFORE START Gallor	ING ANOTHER	Barrels
1,000 (cu. ft.	PLEAS	EE COMPLETE ONE COLUN Barrels Barrels	IN BEFORE START Gallor Gallor	ING ANOTHER IS	Barrels Barrels
1,000 (cu. ft.	PLEAS	Barrels Barrels Barrels	IN BEFORE START Gallor Gallor	ING ANOTHER IS IS IS	Barrels Barrels Barrels Copy to line 1a on page 8
1,000 o	cu. ft.	PLEAS	Barrels Barrels Barrels	Gallor Gallor Gallor Gallor	ING ANOTHER IS IS IS	Barrels Barrels Copy to line 1s on page 8 Barrels
1,000 o	cu. ft. cu. ft. cu. ft. cu. ft.	PLEAS	Barrels Barrels Barrels Barrels	Gallor Gallor Gallor Gallor	ING ANOTHER IS IS IS IS IS	Barrels Barrels Copy to line 1a on page 8 Barrels Barrels

Sec	tion III – FUEL SWITCHING – Continued		
B. sw	ITCHING BETWEEN NATURAL GAS AND RESIDUAL FUEL OIL		
spe	purpose of this part is to determine, for this establishment, if any actual switchi cific fuels, namely natural gas and residual fuel oil; if so, the primary reasons for erence would switching be a viable option.		
	Item Description	Total Natural Gas	Residual Fuel Oil
	(1)	30 (2)	21 (3)
1a.	Replaceable amount – Copy data into line 1a as instructed in the	Copy from Section III, part A, line 10, column (4) 1,000 cu. ft.	Copy from Section III, part A, line 7, column (7) Barrels
1b.	column headings. 90 Does line 1a contain any nonzero entries?		
1501	1 ☐ Yes – Answer lines 2a, 2b, and 2c, as appropriate, for that column. 2 ☐ No – Skip to Section IV – ESTIMATED PERCENT CONSUMPTION BY END USE, on page 9.		
	At any time during the full year 1994, did this establishment		
2a.	SWITCH FROM natural gas TO residual fuel oil? 1 Yes		
1302	2 No		
2b.	SWITCH FROM residual fuel oil TO natural gas?		
1503	1 Yes 2 No		
2c.	Do lines 2a or 2b contain any "YES" responses?		
1504	1 ☐ Yes – Answer lines 3 and 4, as appropriate, for that column. 2 ☐ No – Skip to line 4 on this page.		
3.	What is the primary reason(s) that this establishment SWITCHED FROM this fuel TO the other fuel?	Total Natural Gas	Residual Fuel Oil
		Mark (X) all that apply	Mark (X) all that apply
a.	Supply shortage or curtailment of this fuel	1505 1	1506 1
b.	Down-time caused by maintenance	1507 1 🗆	1508 1 🗆
c.	Less expensive substitute	1509 1 🗆	1510 1 🗆
d.	Environmental restriction on emissions or waste	1511 1 🗆	1512 1
e.	Other (Specify and mark appropriate box(es))		
15121	(1)	1513 1 🗆	1514 1
15122	(2)	1515 1	1516 1
4.	Please answer line 4 as appropriate for the columns with nonzero entries in line 1a. Regardless of whether or not your establishment actually SWITCHED FROM this	Total Natural Gas	Residual Fuel Oil
	fuel during 1994, or did so because of a less expensive substitute, is there a LOWEST PERCENTAGE of price difference of the less expensive substitute that would cause your establishment to SWITCH FROM this fuel?		
	The formula for percentage of price difference is: Percentage of Price Difference = $\frac{(PC - PA)}{PC} \times 100\%$	Mark (X) only one box	Mark (X) only one box
	Where PC = Price per British thermal unit of current fuel PA = Price per British thermal unit of alternative fuel	1517	1518
a.	Would not switch regardless of percentage of price difference	1 🗆	1 🗆
b.	Would switch at price difference of 1 – 5 percent	2 🗆	2 🗆
c.	Would switch at price difference of 6 – 10 percent	з 🗆	3 □
	Would switch at price difference of 11 – 15 percent	4 🗆	4 🗆
e.	Would switch at price difference of 16 – 20 percent	5 🗌	5 🗆
	Would switch at price difference of 21 – 30 percent	6 🗆	6 🗆
	Would switch at price difference of 31 – 40 percent	7 🗆	7 🗆
	Would switch at price difference of 41 – 50 percent	8 🗆	8 🗆
	Would switch at price difference over 50 percent	9 🗆	9 🗆
	Reasonable estimate cannot be provided	10 🗆	10 🗆
	Would switch to the more expensive substitute if price premium		
L	were reasonable	11 🗆	11 🗆

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Section IV - ESTIMATED PERCENT CONSUMPTION BY END USE											
End Uses	Total Electricity Consumption	Total Coal Excluding Coal Coke and Breeze	Total Natural Gas	Total Diesel Fuel and Distillate Fuel Oil	LPG	Residual Fuel Oil					
(1)	10 (2)	46 (3)	30 (4)	22 (5)	24 (6)	21 (7)					
	Copy from Copy from Section I, line 12, Section II, part A, line 4, column (9)		Copy from Section II, part B, line 1, column (9)	Copy from Section II, part C, line 3, column (9)	Copy from Section II, part C, line 4, column (9)	Copy from Section II, part C, line 7, column (9)					
	1,000 kWh	Short Tons	1,000 cu. ft.	Barrels	Gallons	Barrels					
Quantity consumed – Copy data into line 1 as instructed in the column headings. 70											

Energy sources can be consumed in three major end-use classes: indirect use (boiler fuel), direct process use, and direct nonprocess use. **Indirect use is the transformation of energy to another usable energy source, as in a boiler for example**. Direct process use includes usage in motors, ovens, kilns, and strip heaters. Direct nonprocess use includes usage for facility lighting and conditioning equipment.

For each energy source, the sum of the elements in these three classes equals 100 percent.

For columns with nonzero entries in line 1 above, please report the approximate percentage of each energy source used for the purposes listed below.

PLEASE COMPLETE ONE COLUMN BEFORE STARTING ANOTHER. REASONABLE APPROXIMATIONS ARE ACCEPTABLE – SEE INSTRUCTIONS.

End Uses		Total Electricity Consumption	Total Coal Excluding Coal Coke and Breeze	Total Natural Gas	Total Diesel Fuel and Distillate Fuel Oil	LPG	Residual Fuel Oil
(1)		10 (2)	46 (3)	30 (4)	22 (5)	24 (6)	21 (7)
INDIRECT USES - BOILERS							
2. Boiler fuel (e.g., fuel for boilers, gas turbines)	71	%	%	%	%	%	%
DIRECT USES - PROCESS							
3. Process heating (e.g., kilns, furnaces, ovens, strip heaters)	72	%	%	%	%	%	%
4. Process cooling and refrigeration	73	%	%	%	%	%	%
5. Machine drive (e.g., motors, pumps, etc. associated with manufacturing process							
equipment)	74	%	%	%	%	%	%
6. Electro-chemical processes (e.g., reduction process)	75	%					
7. Other (Please specify any other uses of energy)							
10761	76	%	%	%	%	%	%
DIRECT USES - NONPROCESS							
8. Facility heating, ventilation, and air conditioning	77	%	%	%	%	%	%
9. Facility lighting	78	%					
10. Facility support other than lines 8 and 9 above (e.g., cooking, water heating,	79	%	%	%	%	%	%
office equipment)	/9	%	96	%	%	96	%
11. Onsite transportation, excluding highway usage	80	%		%	%	%	
12. Conventional electricity generation	81		%	%	%	%	%
13. Other (Please specify any other uses of energy)							
10821	82	%	%	%	%	%	%
TOTAL for all purposes	-	100%	100%	100%	100%	100%	100%

Sec	tion V – ESTABLISHMENT CHECKLIST
This so	ection is divided into eight parts. All establishments are to complete Parts A, B, C1, C2, and C3.
Part A	- ESTIMATED SQUARE FOOTAGE OF BUILDINGS
1.	What was the approximate total enclosed square footage of the buildings located on this establishment site as of December 31, 1994? Square Feet Mil Thou Feet
2.	Of the square footage indicated above, what percentage had controlled heating or cooling, using equipment designed to modify the internal building temperature, during 1994? Please provide the approximate percentage to the nearest multiple of 5 percent.
	- ENERGY PURCHASING AND ENERGY-MANAGEMENT ACTIVITIES
	Please refer to Section II, Part B, line 1, column (6) on page 4 for the quantity of total natural gas that was transferred in and centrally purchased . Does column (6) of line B1 on page 4 contain a nonzero entry?
30031	1 ∐ Yes – Answer lines 1a and 1b below. 2 □ No – Skip to line 2 below.
1a.	Enter the total expenditures, including all applicable taxes and delivery charges, for the quantity of total natural gas that was transferred in and centrally purchased . If no expenditure was made, please enter zero. Mil Thou Dol
30032	
1b.	What is the best description of the expenditure amount in line 1a above? Mark (X) only one box.
30033	1 ☐ Market price 2 ☐ Internal price based on this establishment's accounting principles 3 ☐ Don't know 4 ☐ Other (Specify) _₹
30034	
2.	At any time between January 1, 1992 and December 31, 1994, did your electric utility sponsor any type of programs designed for the purposes listed below, regardless of whether or not your establishment participated: • to shift the timing of your electricity demand, or • to promote your use of electricity instead of another energy source? (Often these programs are referred to as Demand-Side Management (DSM)) **Mark* (X) only one box.**
1303	1 ☐ Yes
	2 No
	3 ∐ Don't know
3.	At any time between January 1, 1992 and December 31, 1994, did your natural gas utility sponsor any type of programs designed for the purposes listed below, regardless of whether or not your establishment participated: • to lower your energy consumption or costs, or • to shift the timing of your natural gas demand, or • to promote your use of natural gas instead of another energy source? (Often these programs are referred to as Demand-Side Management (DSM)) **Mark (X) only one box.**
1304	1 ☐ Yes
	2 No 3 Don't know
4a.	For the period between January 1, 1992 and December 31, 1994, was the natural gas utility/local distribution company (LDC) for your establishment the same entity as your electric utility? Mark (X) only one box.
1305	1 ☐ Yes 2 ☐ No 3 ☐ Don't know
4b.	At any time between January 1, 1992 and December 31, 1994, was your establishment involved in any type of energy-management activity?
13051	1 □ Yes – Go to line 5 on page 11.
	2 □ No – Skip to Part C1 on page 11.

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Section V - ESTABLISHMENT CHECKLIST - Continu	ed							
Part B - ENERGY PURCHASING AND ENERGY-MANAGEME	NT A	CTIVIT	ES - C	ontinue	d			
 In what type(s) of energy-management activity(ies) was your establ Mark (X) all that apply. Note that it is possible to have marks in all four col 	ishmen umns fo	t involved or any of th	d between	en January es listed.	1, 1992 a	and December 31	, 1994?	
Energy-Management Activities	Ele U	lvement rough ectric tility nsorship	Th	lvement rough oonsorship	Feder	ement Through al, State, Local nent Sponsorship, uding Utilities	Throug (3rd Spons	ement h Other Party) orship
(1)		(2)		(3)		(4)	(!	5)
a. Energy audits	1306	1 🗆	13071	1 🗆	13072	1 🗆	13073	1 🗆
b. Electricity load control	1308	1 🗆	13091	1	13092	1 🗌	13093	1
c. Special rate schedule (e.g., interruptible or time-of-use)	1310	1 🗆						
d. Standby generation program	1326	1 🗆	13271	1 🗆	13272	1 🗆	13273	1 🗆
e. Equipment rebates	1328	1 🗆	13291	1 🗌	13292	1 🗌	13293	1 🗆
f. Power factor correction or improvement	1338	1 🗆	1339	1 🗌	1340	1 🗆	1341	1 🗆
g. U.S. Environmental Protection Agency's Energy Star Program					1342	1 🗆		
h. U.S. Environmental Protection Agency's Green Lights Program					1343	1 🗆		
i. U.S. Department of Energy's Motor Challenge Program					1344	1 🗆		
 j. Equipment installation or retrofit for the primary purpose of improving energy efficiency affecting: 								
(1) Steam production (e.g., boilers, burners)	1312	1 🗆	13131	1 🗆	13132	1 🗆	13133	1 🗆
(2) Direct/indirect process heating	1314	1 🗆	13151	1 🗆	13152	1 🗆	13153	1 🗆
(3) Direct process cooling, refrigeration	1316	1 🗆	13171	1 🗌	13172	1 🗌	13173	1
(4) Direct machine drive (e.g., adjustable-speed drives, motors, pumps) excluding Motor Challenge Program	1318	1 🗆	13191	1 🗆	13192	1 🗆	13193	1
(5) Facility heating, ventilation, and air conditioning, excluding Energy Star Program	1320	1 🗆	13211	1 🗆	13212	1 🗆	13213	1
(6) Facility lighting, excluding Green Lights Program	1322	1 🗆	13231	1 🗆	13232	1 🗆	13233	1
k. Equipment installation or retrofit for the primary purpose of using a different energy source (e.g., electrification). (Exclude modifications made principally for energy efficiency)	1324	1 🗆	13251	1 🗆	13252	1 🗆	13253	1
Other, including other government programs (Specify)								
1396 (1)	1330	1 🗆	1331	1 🗌	1332	1 🗆	1333	1
1397 (2)	1334	1 🗆	1335	1 🗆	1336	1 🗆	1337	1
All establishments are to complete Parts C1, C2, and C3.								
Part C1 - GENERAL TECHNOLOGIES								
Mark (X) all technologies that were in place at your establish	hment	during 1	1994.					
1401 1 Computer control of building environment (e.g., space-heating equipment, cooling equipment, lights)		1 Was						
1402 1 Computer control of processes or major energy-using equipment (e.g., boilers, furnaces, conveyers) used in the manufacturing process		1 Non		peed moto above	J15			
Part C2 - COGENERATION TECHNOLOGIES								
Mark (X) all technologies that were in place at your establish	hment	during 1	1994.					
14042 1 Steam turbines supplied by either conventional or fluidized bed boilers					-	th heat recovery at recovered from		
14043 1 Conventional combustion turbines with heat recovery		high	-temper	ature proc		it recovered iroi	"	
14044 1 Combined-cycle combustion turbines	14047	1∐ Non	e of the	above				
Part C3 - ONE-TIME COLLECTION OF ESTABLISHMENT AC	TIVIT	ES						
Your CORPORATE energy manager has the option of completing I your energy manager at the establishment site is the best source from respondents' own knowledge. A search for these items is not neces	for this sary.	s inform	ation. F	Please resp	ond usin	ig best-guess es	timates	3
What is your establishment's most commonly used method of eval Mark (X) or			idses oi,	anu moui	ilications	to, electric moto	JI SYSLEI	115!
1601 1 ☐ An evaluation is based primarily on all expected costs over the projected lifetime of the system. 2 ☐ An evaluation is based primarily on initial purchase		5 No (evaluatio	on is done		ertain how it is	done.	
prices of competing systems.		6∐ Not	certain	if any type	e of evalu	ation is done.		
3 ☐ Another type of evaluation is used.								
2. What kind of listing do you keep regarding your operating electric Mark (X) or			stablishr	ment?				
1602 1 A listing is kept of all operating electric motors	,	з□ №		t all is kept				
at this establishment – Go to line 3 below. 2 A listing is kept of some operating electric motors at this						known – Skip t	page :	12.
establishment – Go to line 3 below.								
3. Does your listing contain information on age of your motors? <i>Man</i> 1603 1 ☐ Yes 2 ☐ No 3 ☐ Don't know	k (X) o	nly one	box.					
4. Does your listing contain information on horsepower (wattage) of y 1604 1 ☐ Yes 2 ☐ No 3 ☐ Don't know	our me	otors? M	ark (X)	only one	box.			
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Section V -	ESTABLISHME	NT CHECKLIST	- Conti	nued					
There is one add mailing label on	litional part to compl page 1 of this survey	ete for specific SIC o	odes. This	establishmer	nt's four-digit SIC co	de is included a	s part of	f the addre	ess
If the first two di	gits of your establish	ment's SIC code are	e:						
or "22" (textile	industries), then come industries), then co , clay, and glass indu	mplete Part E.	te Part F.						
	to Section VI – REMA								
	FIC TECHNOLOG		NDUSTR	IES (SIC 20	ONLY)				
	II technologies tha								
	ave drying cycle heat pump syst			1410 1 1411 1	Gas-driven rotary er Membrane separation	n	rbines		
1408 1 Open-cy	cle heat pump syste	m used to produce s	steam		Freeze concentratior None of the above	1			
Part E - SPECI	FIC TECHNOLOG	IES FOR TEXTILI	E INDUS	TRIES (SIC	22 ONLY)				
Mark (X) a	II technologies tha	t were in place at	your estal	olishment de	uring 1994.				
	et weaving			1419 1 1 1420 1 1 1421 1 1 1422 1 1 1 1 1 1 1 1 1 1 1	Dye bath reuse Foam dyeing Foam printing Foam finishing Low-add-on finishin None of the above	9			
Dart E _ SDECI	FIC TECHNOLOG	IES EOR STONE	CLAVA			IC 32 ONI V	1		
	Il technologies tha					JO JE ONET			
Glass F		. more in place at	,		Cement Related				
1424 1 Forehea	enriched combustio arth designed for inde bling operations and	ependently applied h	neating	1430 1	High-efficiency class Improved grinding r such as high-chromo	nedia and lining	ıs, wear	-resistant	
	arth designed to elim ature gradients with i '			1432 1	Waste heat drying Dry-suspension preh Dry-precalciner kilns				
1426 1 Batch p				1434 1	Kiln combustion sys	tem improveme			and
1428 1	ed glass refiner				semi-direct/indirect (advanced burners m control	atched to the k	iln/coole	er design f	and lame
14281 1 None o	Title above				Controlled particle s	ize cement			
				14351 1	None of the above				
Please use this	space or attach a s	separate sheet for	any expla	nations tha	t may be essentia	in understan	ding yo	our repor	ted data.
	- CERTIFICATIO								
Name of person to	contact regarding th	is report – (Print or t)	ype)		Telephone	Area code N	lumber		Extension
Address – Number	and street			City	number ——	State		ZIP Code	
		From				То			
Period covered by this report: ->	Month	Day	Year		Month	Day		Year	
Signature of autho	rized person		Internet nu	umber or E-M	ail (if available)		Date		

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PLEASE PHOTOCOPY THIS FORM FOR YOUR RECORDS

Petroleum Refineries

OMB No. 1905-0169: Approval Expires 04/30/98

Form **EIA-846B**

U.S. Department of Commerce Bureau of the Census Acting as Collecting and Compiling Agent For

UNITED STATES DEPARTMENT OF ENERGY ENERGY INFORMATION





Petroleum Refineries 1994

MANUFACTURING ENERGY CONSUMPTION

SURVEY

Public reporting burden for this collection of information is estimated to average 9 hours per response, including the time of reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other spect of this collection of information, including suggestions for reducing this burden, to the Energy Information Administration, Office of Statistical Standards, E1-73, 1701 H-Street, NW, Washington, DC 20585; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

In correspondence pertaining to this report, please refer to this Census File Number (CFN).

Please correct errors in name, address, and ZIP Code. ENTER street and number if not shown.

PLEASE COMPLETE THIS FORM AND RETURN TO BUREAU OF THE CENSUS 1201 East 10th Street Jeffersonville, IN 47132-0001

NOTE

Please read the enclosed instructions before filling out this form. Complete each item. If you have any questions, call 1–800–866–6327.

DUE DATE:

If you cannot file by the due date, a time extension request should be sent to the above address. Please include your 11-digit Census File Number (CFN).

The Manufacturing Energy Consumption Survey – The Manufacturing Energy Consumption Survey (MECS) was designed, and is being sponsored, by the Energy Information Administration (EIA) of the U.S. Department of Energy (DOE). The survey is administered and compiled by the U.S. Bureau of the Census for the EIA. The previous MECS was conducted covering the year 1991.

Mandatory Requirement – This survey is mandatory under the Federal Energy Administration Act of 1974, Pub. L. No. 93-275, and under Title 3, Subtitle B, of the Omnibus Budget Reconciliation Act of 1986, Pub. L. No. 99-509, as amended by Title 1, Subtitle G, of the Energy Policy Act of 1992, Pub. L. No. 102-486. Failure to respond may result in criminal fines, civil penalties, and other sanctions as provided by law. Response is required by law from establishments included in the MECS sample and receiving the MECS form.

Confidentiality of Data – Under Section 9 of Title 13, U.S. Code, your report to the Census Bureau is confidential. It may be seen only by sworn Census Bureau employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

Purpose of This Survey – The MECS will collect data on energy consumption and usage patterns for the manufacturing sector of the U.S. economy. In addition, it will measure the short-term (within 30 days) capability of your establishment to substitute fuels in place of those actually consumed in 1994. The information obtained from the MECS forms will be used to publish aggregate statistics on the following: consumption of energy for fuel and nonfuel uses, energy characteristics of buildings in the manufacturing sector, energy consumption by end use, technologies currently in use by U.S. manufacturers, energy prices, electricity generation onsite, fuel-switching capabilities, and participation in energy-management activities. This information will be used by the DOE to implement policy plans effectively as well as to assist utilities in more accurate demand forecasting and resource planning.

Form EIA-846B – This form is addressed to establishments operating primarily in the manufacturing sector in industries as defined by the 1987 Standard Industrial Classification (SIC) Manual. Form EIA-846B is addressed to establishments operating primarily in the Petroleum Refining Industry (SIC 2911). If your establishment has received form EIA-846B but is not a petroleum refinery, call the Census Bureau, MECS staff, on 1–800–866–6327 to report this information. Government-owned establishments that are privately operated are NOT exempt from completing this survey.

Due Date – The questionnaire should be returned no later than the due date specified above. If you need additional time, please call our processing office on 1–800–528–3049. Please use the enclosed return envelope. If the envelope has been misplaced, return the completed questionnaire to us at the above address.

Petroleum Refineries

A.	General Instructions						
	1. No entries are required in th	a abadad araaa A	II ahad	ad arosa ara ta	ha laft blan	l.	
	•						
	2. Use the indicated units specifie	ed on the questionn Electricity – Tho					
		Steam – Millions					
		Industrial hot wa	ater – N	/lillions of Btu (Million Btu)		
		Coal – Short Tor					
		Natural gas – Th Hydrogen – Mill				t.)	
		Diesel fuel and					
		Liquid petroleur	n gas –	Gallons			
		Natural gas liqu	ids – G	allons			
	If you need conversion factors for Sections I and II.	in order to report in	n the s	pecified units, r	efer to the o	letailed instru	uctions
	3. Do not consolidate establish correspond to those used in the						
	4. Be sure to mark (X) the approp If the establishment consists of Section II, columns (9) and (10)	refinery operatio					
	5. If you do not maintain book red	cords for particular i	items, į	olease use care	fully prepar	ed estimates	
	6. Please refer to the accompanyi	ng instruction guide	as yo	u answer the q	uestions.		
В. С	perational Status						
	IF FORM MA-1000 (ANNUAL SUR ESTABLISHMENT IN 1994, SKIP T SOURCES. Otherwise, please con box (1–5) that is applicable to the or 5, please fill in the month, day, or 5 is checked, also supply the nacompany. If the ownership of this establichange in ownership is recorded in activities that occurred in activities that occurred in the supply of the stablichange in ownership is recorded in activities that occurred in activities that occurred in the supply of the s	HIS ITEM AND GO inplete this item fu operation of this es and year (numbers ame and address (o ishment changed in this item. ishment during the name of the sale ishment during the name of the sale ishment during name and after the sale is the sa	TO SECULIFY to a tablish only, proceeding in 1994 e year, sale. the year, sale.	ETION I – NON(void unnecess) ment at the en please) that the on) of the new I, please make , complete all s par, complete a	COMBUSTIE ary correspo d of 1994. If action beca or former o certain that ections of the	BLE ENERGY you check by you check by me effective where or oper the date of the ne report form of the report to	nx 3, 4, If box 4 ating ne n for form for
	you were in operation.					ate (Numbers O	alv)
					Month	Day	Year
0001	1 ☐ In operation					Í Í	í I
	2 Temporarily or seasonally inactive					1	T
						 	<u> </u>
	3 ☐ Ceased operation (Provide date at r. 4 ☐ Sold or leased TO another operator	(Provide date at right Al	VD				
	enter name, etc., below)	pperator (<i>Provide date at</i>	right AN			 	
Name	enter name, etc., below) of new/former owner or operator			ver Identification (E	l) Number (9 d	igits)	1
Numb	per and street	City		State		ZIP Code	

CONTINUE WITH SECTION I ON PAGE 3

Page 2 FORM EIA-846B (4-13-95)

Petroleum Refineries

	Itom Donovi-4!	IF ZERO, PLEASE ENTER ZERO (0) IN EACH BOX								
	Item Description	10	Electricit	ty		Steam		Industrial Hot Water		
1a.	Uring 1994, what amount of each energy source was purchased from utilities by this establishment and delivered to this establishment site? (DO NOT include purchases by a central purchasing agent, quantities delivered from other establishments of your company, or quantities for which payment was made in-kind.)		(2) Kilowatthor I Thou I I I I I I I	urs kWh 	11	(3) Million Br	cu	Million Btu		
1b.	What was the total expenditure, including all applicable taxes, for the purchased energy source(s) reported on line 1a?	Mil	Dollars Thou	l Dol	Mil	Dollars Thou	Dol	Dollars Mil Thou Do		
2a.	During 1994, what amount of electricity and steam was purchased from nonutility suppliers by this establishment and delivered to this establishment site?	Mil	Kilowattho Thou	urs kWh 		Million Btu	I			
2b.	What was the total expenditure, including all applicable taxes, for the purchased energy source(s) reported on line 2a?	Mil	Dollars Thou	l Dol	Mil	Dollars Thou	Dol			
3.	During 1994, what amount of each energy source was transferred from outside establishments and delivered to this establishment site? (<i>PO NOT include the purchases reported in lines 1a and 2a, DO include quantities received from a central purchasing agent, quantities delivered from other establishments of your company, and quantities for which payment wamade in-kind.)</i>	Mil	Kilowattho			Million Btu	1	Million Btu		
4.	TOTAL QUANTITIES OF ELECTRICITY RECEIVED ONSITE (Sum of lines 1a, 2a, and 3.) NOTE – Copy this quantity for electricity to Section III – FUEL SWITCHING, part A, line 1a, column (2) on page 6.	5		 						
5.	During 1994, how much electricity was generated on this establishment site by cogeneration? (Include ALL cogeneration facilities at this establishment site.)		 	 						
6.	During 1994, how much of each energy source was generated onsite from each of the following:	<u>'</u>	 	 		Million B	u	Million Btu		
a.	Solar power 08	1	 	[
b.	Wind power 08	2	 	 						
C.	Hydropower 08	3		<u> </u> 						
d. 7.	Geothermal power 08	4	 	 						
, .	During 1994, how much electricity was generated onsite by processes other than those covered on lines 5, 6a, 6b, 6c, and 6d?		 	 						
8.	TOTAL ONSITE GENERATION OF ELECTRICITY (Sum of lines 5, 6a, 6b, 6c, 6d, and 7.)		 	 						
9.	During 1994, how much electricity was sold or transferred to utilities?)	 	 						
0.	During 1994, how much of each energy source was sold or transferred to any establishments other than		<u> </u>	 		Million B	:u	Million Btu		
1.	utilities? TOTAL ELECTRICITY SALES AND TRANSFERS	2	 	! ! !						
•	OFFSITE (Line 9 plus line 10.)			 						
2.	TOTAL ONSITE CONSUMPTION OF ELECTRICITY. (Line 4 plus line 8 minus line 11.)	+	1	 						

Petoleum Refineries

Se	ct	ion II - COMBUSTIBLE ENERGY SOUF	RCES								
				- HOW TO RE			_				
Ma	rk (ordi	X) the box next to the correct description of the esing to the instructions for that description.									
1801		Establishment consists of REFINERY operation those operations are identified as a separate	establish	ment for purpos	es (of the Annual S	ochemica Survey of	l) operation	ons collo tures, Ce	cated, b nsus Fo	ut irm
		MA-1000.) – Complete Section II but do NOT 2 Establishment consists of both REFINERY and					ection II i	ncluding	columns	(9) and	(10).
		3 None of the above – Call the MECS staff on 1	-800-866	-6327 IF NOT A	REI						
					_			received I expendi			
		Energy Sources	Census Use	Units used for reporting	р	Quantity urchased by nd delivered	inclu	ding taxe	es and	quai	otal ntity of sfers in
			Only	quantities		to this	quant 02	ity in colu (5)	umn (4)	and	central chases
_		(1)	(2)	(3)	01	(4)	Mil	Thou	Dol	03	(6)
A.		ETROLEUM BASED Butane as liquid petroleum gas (LPG) or natural gas liquids (NGL)	36	Gallons				 	 		
	2.	Ethane as liquid petroleum gas (LPG) or natural gas liquids (NGL)	37	Gallons				 	 		
	3.	Propane as liquid petroleum gas (LPG) or natural gas liquids (NGL)	38	Gallons				 	i I		
	4.	Mixtures of ethane, butane, and propane	34	Gallons							
	5.	Other LPG and NGL (e.g., butylene, ethylene, propylene)	35	Gallons				1	 		
	6.	Total LPG and NGL (Sum of lines A1, A2, A3, A4 and A5)	24	Gallons				i I	I I		
	7.	Diesel fuel, excluding highway usage	28	Barrels				 	i		
		Distillate fuel oil (numbers 1, 2, and 4 fuel oils)	29	Barrels				1	ı		
		Total diesel fuel and distillate fuel oil (Sum of lines A7 and A8)	22	Barrels				 	 		
	10.	Crude oil/lease condensate	20	Barrels				I I	I I		
	11.	Motor gasoline, excluding highway usage	23	Gallons				l I	I I		
	12.	Residual fuel oil (numbers 5, 6, Navy Special, and Bunker C)	21	Barrels				 	 		
	13.	Waste and byproduct gases (e.g., refinery offgas, vent gas, plant gas, still gas)	62	Million Btu					! !		
	14.	Fluid catalytic cracking unit coke	77	Barrels				i	i		
	15.	Marketable petroleum coke – unrefined or green	78	Barrels				i	i		
	16.	Marketable petroleum coke – calcined	79	Barrels				1	1		
		Waste oils and tars Other (Specify. Specify units, if not million Btu)	71	Barrels				1	l 		
	10.	Other (Specify arms, it not million bita)						 	I I		
9598		(1)	95	Million Btu					-		
9698		(2)	96	Million Btu				 	I I		
1	NO 1.	NPETROLEUM BASED Anthracite	40	Short Tons				1	I I		
	2.	Bituminous and subbituminous coal	41	Short Tons					İ		
	3.	Lignite	42	Short Tons					I		
	4.	Total coal (Sum of lines B1, B2, and B3)	46	Short Tons				i I	i I		
	5.	Coal coke	43	Short Tons				1	l I		
	6.	Breeze	44	Short Tons				1	I I		
	7.	Total natural gas (Include well production		4 000 6				!	! !	See Pg	. 10, Part B
		onsite in column (7)) In the following parts 7a–7e please classify natural gas purchases which are reported in line 7.	30	1,000 cu. ft.				 	 		
	UT	in line 7. ILITY/LDC						1	I I		
	7a.	Natural gas purchased directly from your utilities/local distribution companies (LDC) at a firm service rate	48	1,000 cu. ft.				 	 		
	7b.	Natural gas purchased directly from LDC at an interruptible service rate	49	1,000 cu. ft.				 	 		
1		Natural gas purchased directly from LDC at other service rates (Specify type of service rate)						 	 		
5098	٦		50	1,000 cu. ft.				i I	! !		
	_	Did this establishment purchase natural gas in 1994 from sources other than utilities/LDC?						 	i I		
5098	1	1 YES - Go to line 7d on page 6						İ	I I		
		2 NO – Skip to line B8, Hydrogen, on page 6	l	1	l			1	I		

Petroleum Refineries

E	nter amount	s for entire establishment	Enter amounts for r Complete if box 2	nonrefinery operations only. at top of page 4 is marked (X).	
pr	uantity oduced onsite	Quantity consumed as a fuel	Quantity consumed for all nonfuel purposes	Quantity shipped offsite to other establishments in 1994	Energy Sources
)4	(7)	06 (8)	07 (9)	08 (10)	A. PETROLEUM BASED
					Butane as liquid petroleum gas (LPG) or natural gas liquids (NGL)
					Ethane as liquid petroleum gas (LPG) or natural gas liquids (NGL)
					 Propane as liquid petroleum gas (LPG) or natural gas liquids (NGL)
					4. Mixtures of ethane, butane, and propane
					Other LPG and NGL (e.g., butylene, ethylene, propylene)
		Copy to Pg. 7, line 1a & Pg. 9, line 1			6. Total LPG and NGL (Sum of lines A1, A2, A3, A4 and A5)
					7. Diesel fuel, excluding highway usage
		Copy to Pg. 7, line 1a & Pg. 9, line 1			8. Distillate fuel oil (numbers 1, 2, and 4 fuel oils)
		copy to 1 g. 1, mile 14 d.1 g. 0, mile 1			Total diesel fuel and distillate fuel oil (Sum of lines A7 and A8)
					10. Crude oil/lease condensate 11. Motor gasoline, excluding highway
		Copy to Pg. 7, line 1a & Pg. 9, line 1			usage 12. Residual fuel oil (numbers 5, 6, Navy
					Special, and Bunker C) 13. Waste and byproduct gases (e.g., refiner
					offgas, vent gas, plant gas, still gas)
					14. Fluid catalytic cracking unit coke 15. Marketable petroleum coke – unrefined or green
					16. Marketable petroleum coke – calcined
					17. Waste oils and tars 18. Other (Specify)
					(1)
					(2)
					B. NONPETROLEUM BASED 1. Anthracite
					2. Bituminous and subbituminous coal
					3. Lignite
		Copy to Pg. 6, line 1a & Pg. 9, line 1			4. Total coal (Sum of lines B1, B2, and B
					5. Coal coke
		Copy to Pg. 7, line 1a & Pg. 9, line 1			6. Breeze
		copy to rig. // mile ita a rig. c/ mile r			7. Total natural gas
					7a. Natural gas purchased from utilities/ LDC at a firm service rate
					7b. Natural gas purchased from LDC at an interruptible service rate
					THE STAP SOLVIOL TULE
					7c. Natural gas purchased from LDC at
					other service rates

Petroleum Refineries

					Ene	ergy	source	receiv	ed o	onsite i	n 199	4
	Energy Sources	Census Use Only	Units used for reporting quantities	Quar purchas and del to the	ed l iver nis	oy ed	incl delive	al exper uding ta ry char tity in c	axes ges, olun	and of the	tra	Total antity of insfers ind central
	(1)	(2)	(3)	01 (4)		Mil	Tho	u ¦	Dol	03	(6)
B. NONP	PETROLEUM BASED – Continued UTILITY/NON-LDC							į	ij			
7d. Na	atural gas purchased from non-LDC sources							1	-			
(e	g.g., producers, brokers, marketers, and other on-LDC sources including fees for transportation							1	- [
ar	nd storage) f the expenditures given in line 7d, please	51	1,000 cu. ft.					-				
pr	rovide the following: (Please note that the sum f lines e(1), e(2), and e(3) should equal line 7d.)							1	-			
(1	Cost of supplies (Include brokers'							1	- !			
	fees, suppliers' fees)	52						+	-			
(2	2) Cost of transportation – Please mark (X) all the service rates that apply.							1	-			
021	1 Firm (e.g., no-notice, bundled firm)							1	- !			
022	1 ☐ Interruptible 1 ☐ Don't know							i	i			
023	1 Other/Released capacity (Specify type of							1	1			
	service rate)							i	ij			
98	Other costs (e.g., storage) (Specify)	53						1	$\frac{1}{1}$			
98	of other costs (e.g., storage, (opechy)	54						1	- [
	vdrogen	63	Million Btu					Ţ	1			
	ydrogen /ood fuel and wood/paper refuse (e.g., packing	03	WIIIION DU					+	+		\vdash	
	rood fuel and wood/paper refuse (e.g., packing laterials, roundwood, wood chips, pallets)	72	Million Btu					1	_ į		L	
_	ther (Specify. Specify units, if not million Btu.)							i	i			
98 (1	1)	97	Million Btu					1	-			
⁹⁸ (2	2)	98	Million Btu					1	İ			
Section	on III – FUEL SWITCHING											
	CAPABILITY - The purpose of this part is to				pot	enti	al to s	witch f	rom	one ty	pe o	f fuel to
anotne	er, regardless of whether or not any fuel swi	tening w	as actually do	ne.	$\overline{}$	To	al Elac	tricity	_	Total (`aal I	Excludir
	Item Description				L	_ `	Recei			Coal C		nd Bree
	(1)				1	_	(2)		46		(3)	
							y trom 3 e 4, coli	Section I ımn (2)	' .			Section II column
						1,00	0 Kilow	atthours	3	S	hort '	Tons
	tuantity Consumed - Copy data into line 1a as in blumn headings.	structed	in the	_	_				- 1			
CC					50 l							
_	oes line 1a contain any nonzero entries?				50				+			
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Petroleum Refineries

	for entire establis	hment	Enter amounts for a Complete if box 2	nonrefin at top of	ery operations only. page 4 is marked (X).		
Quantity produced onsite	Quantity cor as a fu	sumed el	Quantity consumed for all nonfuel purposes		Quantity shipped ffsite to other stablishments in 1994		Energy Sources
(7)	06 (8)		07 (9)	08	(10)		(11)
						7d. Natural g	as purchased from non-LDC source
						7e(1). Cost o	f supplies
						7 (0) 0	
						7e(2). Cost of	f transportation
						8. Hydrogen	
						9. Wood fuel	and wood/paper refuse
						(1)	евну/
Section III	- FUEL SWITC	HING -	Continued			(2)	
_	latural Gas	22 To	tal Diesel Fuel and Distillate Fuel Oil (5)	d	Total LPG a	nd NGL	Residual Fuel Oil
Copy fror	m Section II, 7, column (8)	C	Copy from Section II, rt A, line 9, column (8	3)	Copy from S part A, line 6,	ection II, column (8)	Copy from Section II, part A, line 12, column (8)
1,000	0 cu. ft.		Barrels		Gallon	s	Barrels
1,000	2 4		Daniela.		Callan		Parenta
1,000	O cu. ft.		Barrels		Gallon	s	Barrels
	0 cu. ft. 0 cu. ft.		Barrels Barrels		Gallon		Barrels Barrels
1,000		PLEASE	Barrels	COLUM		s NG ANOTHER	
1,000	O cu. ft.	PLEASE	Barrels COMPLETE ONE Barrels	COLUI	Gallon IN BEFORE STARTI Gallon	s NG ANOTHER S	Barrels Barrels
1,000	0 cu. ft. 0 cu. ft.	PLEASE	Barrels COMPLETE ONE Barrels Barrels	COLUM	Gallon IN BEFORE STARTI Gallon Gallon	S ING ANOTHER S	Barrels Barrels Barrels
1,000	O cu. ft.	PLEASE	Barrels COMPLETE ONE Barrels Barrels Barrels	COLUM	Gallon IN BEFORE STARTI Gallon Gallon	NG ANOTHER S S	Barrels Barrels Barrels Barrels
1,000	0 cu. ft. 0 cu. ft.	PLEASE	Barrels COMPLETE ONE Barrels Barrels	COLUM	Gallon IN BEFORE STARTI Gallon Gallon	NG ANOTHER S S	Barrels Barrels Barrels
1,000	0 cu. ft. 0 cu. ft.	PLEASE	Barrels COMPLETE ONE Barrels Barrels Barrels	COLUM	Gallon IN BEFORE STARTI Gallon Gallon	S NG ANOTHER S S	Barrels Barrels Barrels Copy to line 1a on page 8
1,000 1,000 1,000	0 cu. ft. 0 cu. ft. 0 cu. ft.	PLEASE	Barrels COMPLETE ONE Barrels Barrels Barrels	COLUM	Gallon IN BEFORE STARTI Gallon Gallon Gallon	S NG ANOTHER S S	Barrels Barrels Barrels Copy to line 1a on page 8 Barrels
1,000 1,000 1,000 1,000 1,000 Copy to line	0 cu. ft. 0 cu. ft. 0 cu. ft. 0 cu. ft.	PLEASE	Barrels E COMPLETE ONE Barrels Barrels Barrels Barrels	COLUA	Gallon IN BEFORE STARTI Gallon Gallon Gallon	ING ANOTHER S S S S	Barrels Barrels Barrels Copy to line 1a on page 8 Barrels Barrels

Petroleum Refineries

Section III - FUEL SWITCHING - Continued		
B. SWITCHING BETWEEN NATURAL GAS AND RESIDUAL FUEL OIL		
The purpose of this part is to determine, for this establishment, if any actual switch specific fuels, namely natural gas and residual fuel oil; if so, the primary reasons for difference would switching be a viable option.	hing took place between or the switching and at	en two what price
Item Description	Total Natural Gas	Residual Fuel Oil
(1)	30 (2)	21 (3)
	Copy from Section III, part A, line 10, column (4) 1,000 cu ft.	Copy from Section III,
1a. Replaceable amount – Copy data into line 1a as instructed in the column headings.	00	
1b. Does line 1a contain any nonzero entries?		
1501 1		
2. At any time during the full year 1994, did this establishment		
2a. SWITCH FROM natural gas TO residual fuel oil? 1502 1 ☐ Yes		
2 No		
2b. SWITCH FROM residual fuel oil TO natural gas?		
1503 1 Yes		
2 U No		
2c. Do lines 2a or 2b contain any "YES" responses?		
1504 1 ☐ Yes – Answer lines 3 and 4, as appropriate, for that column. 2 ☐ No – Skip to line 4 on this page.		
3. What is the primary reason(s) that this establishment SWITCHED FROM this fuel	Total Natural Gas	Residual Fuel Oil
TO the other fuel?		
	Mark (X) all that apply	Mark (X) all that apply
a. Supply shortage or curtailment of this fuel	1505 1 🗆	1506 1
b. Down-time caused by maintenance	1507 1	1508 1
c. Less expensive substitute	1509 1	1510 1
d. Environmental restriction on emissions or waste	1511 1 🗆	1512 1
e. Other (Specify and mark appropriate box(es))		
15121 (1)	1513 1 🗆	1514 1 🗆
15122 (2)	1515 1	1516 1
Please answer line 4 as appropriate for the columns with nonzero entries in line 1a. 4. Regardless of whether or not your establishment actually SWITCHED FROM this fuel during 1994, or did so because of a less expensive substitute, is there a LOWEST PERCENTAGE of price difference of the less expensive substitute that would cause your establishment to SWITCH FROM this fuel?	Total Natural Gas	Residual Fuel Oil
The formula for percentage of price difference is: Percentage of Price Difference = (PC - PA) X 100% PC	Mark (X) only one box	Mark (X) only one box
Where PC = Price per British thermal unit of current fuel PA = Price per British thermal unit of alternative fuel	1517	1518
a. Would not switch regardless of percentage of price difference	1 🗆	1 🗆
b. Would switch at price difference of 1 – 5 percent	2 🗆	2 🗆
c. Would switch at price difference of 6 – 10 percent	3 🗆	з 🗆
d. Would switch at price difference of 11 – 15 percent	4 🗆	4 🗆
e. Would switch at price difference of 16 – 20 percent	5 🗌	5 🗌
f. Would switch at price difference of 21 – 30 percent	6 🗆	6 🗆
g. Would switch at price difference of 31 – 40 percent	7 🗆	7 🗆
h. Would switch at price difference of 41 – 50 percent	8 🗆	8 🗆
i. Would switch at price difference over 50 percent	9 🗆	9 🗆
j. Reasonable estimate cannot be provided	10 🗆	10 🗆
k. Would switch to the more expensive substitute if price premium		
were reasonable	11 🗆	11 FORM EIA-846B (4-13-95)

Petroleum Refineries

Section IV - ESTIMATED	Section IV - ESTIMATED PERCENT CONSUMPTION BY END USE											
End Uses	Total Electricity Consumption	Total Coal Excluding Coal Coke and Breeze	Total Natural Gas	Total Diesel Fuel and Distillate Fuel Oil	Total LPG and NGL	Residual Fuel Oil						
(1)	10 (2)	46 (3)	30 (4)	22 (5)	24 (6)	21 (7)						
	Copy from Section I, line 12, column (2)	Copy from Section II, part B, line 4, column (8)	Copy from Section II, part B, line 7, column (8)	Copy from Section II, part A, line 9, column (8)	Copy from Section II, part A, line 6, column (8)	Copy from Section II, part A, line 12, column (8)						
	1,000 kWh	Short Tons	1,000 cu. ft.	Barrels	Gallons	Barrels						
Quantity consumed – Copy data into line 1 as instructed in the column headings. 70												

Energy sources can be consumed in three major end-use classes: indirect use (boiler fuel), direct process use, and direct nonprocess use. Indirect use is the transformation of energy to another usable energy source, as in a boiler for example. Direct process use includes usage in motors, ovens, kilns, and strip heaters. Direct nonprocess use includes usage for facility lighting and conditioning equipment.

For each energy source, the sum of the elements in these three classes equals 100 percent.

For columns with nonzero entries in line 1 above, please report the approximate percentage of each energy source used for the purposes listed below.

PLEASE COMPLETE ONE COLUMN BEFORE STARTING ANOTHER. REASONABLE APPROXIMATIONS ARE ACCEPTABLE - SEE INSTRUCTIONS.

			Total Coal		Total Diesel		
End Uses		Total Electricity Consumption	Excluding Coal Coke and Breeze	Total Natural Gas	Fuel and Distillate Fuel Oil	Total LPG and NGL	Residual Fuel Oil
(1)		10 (2)	46 (3)	30 (4)	22 (5)	24 (6)	21 (7)
INDIRECT USES - BOILERS							
2. Boiler fuel (e.g., fuel for boilers, gas turbines)	71	%	%	%	%	%	9/6
DIRECT USES - PROCESS							
3. Process heating (e.g., kilns, furnaces, ovens, strip heaters)	72	%	%	%	%	%	9/
4. Process cooling and refrigeration	73	%	%	%	%	%	9/
5. Machine drive (e.g., motors, pumps, etc. associated with manufacturing process equipment)	74	%	%	%	%	%	%
6. Electro-chemical processes (e.g., reduction process)	75	%					
7. Other (Please specify any other uses of energy)							
10761	76	%	%	%	%	%	9/
DIRECT USES - NONPROCESS							
8. Facility heating, ventilation, and air conditioning	77	%	%	%	%	%	9/
9. Facility lighting	78	%					
10. Facility support other than lines 8 and 9 above (e.g., cooking, water heating, office equipment)	79	%	%	%	%	%	9/
11. Onsite transportation, excluding highway usage	80	%		%	%	%	
12. Conventional electricity generation	81		%	%	%	%	9/
13. Other (Please specify any other uses of energy)							
10821	82	%	%	%	%	%	%
TOTAL for all purposes		100%	100%	100%	100%	100%	100%

Petroleum Refineries

Sec	tion V - ESTABLISHMENT CHECKLIST
This s	ection is divided into five parts. All establishments are to complete Parts A, B, C1, C2, and C3.
Part A	A - ESTIMATED SQUARE FOOTAGE OF BUILDINGS
1.	What was the approximate total enclosed square footage of the buildings located on this
1301	establishment site as of December 31, 1994? Square Feet Mil Thou Feet
2.	Of the square footage indicated above, what percentage had controlled heating or cooling, using equipment designed to modify the internal building temperature, during 1994?
	Please provide the approximate percentage to the nearest multiple of 5 percent.
1302	%_
Part I	3 - ENERGY PURCHASING AND ENERGY-MANAGEMENT ACTIVITIES
1.	Please refer to Section II, Part B, line 7, column (6) on page 4 for the quantity of total natural gas that was transferred in and centrally purchased . Does column (6) of line B7 on page 4 contain a nonzero entry?
30031	1 ☐ Yes – Answer lines 1a and 1b below. 2 ☐ No – Skip to line 2 below.
1a.	Enter the total expenditures, including all applicable taxes and delivery charges, for the quantity of total natural gas that was transferred in and centrally purchased . If no expenditure was made, please enter zero. Mili Thou Dol
1b.	What is the best description of the expenditure amount in line 1a above?
30033	Mark (X) only one box. 1 ☐ Market price 2 ☐ Internal price based on this establishment's accounting principles 3 ☐ Don't know 4 ☐ Other (Specify) _Z
30034	
2.	At any time between January 1, 1992 and December 31, 1994, did your electric utility sponsor any type of programs designed for the purposes listed below, regardless of whether or not your establishment participated: • to lower your energy consumption or costs, or • to shift the timing of your electricity demand, or • to promote your use of electricity instead of another energy source? (Often these programs are referred to as Demand-Side Management (DSMI)) Mark (X) only one box. 1
3.	At any time between January 1, 1992 and December 31, 1994, did your natural gas utility sponsor any type of programs designed for the purposes listed below, regardless of whether or not your establishment participated: • to lower your energy consumption or costs, or • to shift the timing of your natural gas demand, or • to promote your use of natural gas instead of another energy source? (Often these programs are referred to as Demand-Side Management (DSM)) **Mark (X) only one box.**
1304	1 Yes 2 No 3 Don't know
4a .	For the period between January 1, 1992 and December 31, 1994, was the natural gas utility/local distribution company (LDC) for your establishment the same entity as your electric utility? **Mark (X) only one box.** 1 Yes 2 No 3 Don't know
4b .	At any time between January 1, 1992 and December 31, 1994, was your establishment involved in any type of energy-management activity? 1 Yes – Go to line 5 on page 11.
	□ No – Skip to Part C1 on page 11.
Page 10	FORM EIA-846B (4-13-95)

Petroleum Refineries

Section V - ESTABLISHMENT CHECKLIST - Continu	ıed							
Part B - ENERGY PURCHASING AND ENERGY-MANAGEM	ENT AC	TIVIT	IES – C	ontinue	d			
 In what type(s) of energy-management activity(ies) was your estab Mark (X) all that apply. Note that it is possible to have marks in all four co 	lishment dumns for	involve any of th	d betwee	n January es listed.	1, 1992 a	nd December 31	, 1994?	
Energy-Management Activities	Thr Elec Ut Spons	vement ough ctric ility sorship	Involvement Through Self-Sponsorship		Involve Federa Governm Exclu	Involvement Through Othe (3rd Party) Sponsorship (5)		
(1)	=	2)	=	(3)		(4)		
a. Energy audits	1306	1	13071	1	13072	1	13073	1
b. Electricity load control	1308	1	13091	1 🗌	13092	1 🗆	13093	1
Special rate schedule (e.g., interruptible or time-of-use) d. Standby generation program	1310	1 🗆	10071	1 🗆	10070	1 🗆	10070	1□
	1326	10	13271	1 🗆	13272	1 🗆	13273	10
Equipment rebates F. Power factor correction or improvement	1328	10	13291	1 🗆	13292	1 🗆	13293	1
g. U.S. Environmental Protection Agency's Energy Star Program	1338	1	1339	10		1 🗆	1341	ייי
h. U.S. Environmental Protection Agency's Green Lights Program	_				1342	10		
	_				1343			
i. U.S. Department of Energy's Motor Challenge Program j. Equipment installation or retrofit for the primary purpose of	-				1344	1 🗆		
improving energy efficiency affecting: (1) Steam production (e.g., boilers, burners)	1312	1□	13131	1	13132	1	13133	1□
	1314	10	13151	10	13152	10	13153	10
(2) Direct/indirect process heating	1316	10	13171	10	13172	10	13173	10
(3) Direct process cooling, refrigeration (4) Direct machine drive (e.g., adjustable-speed drives, motors, pumps) excluding Motor Challenge Program								
pumps) excluding Motor Challenge Program (5) Facility heating, ventilation, and air conditioning, excluding	1318	1 🗆	13191	1 🗆	13192	1 🗌	13193	1
Energy Star Program	1320	1 🗆	13211	1 🗌	13212	1 🗆	13213	1
(6) Facility lighting, excluding Green Lights Program	1322	1 🗆	13231	1 🗆	13232	1 🗆	13233	1
k. Equipment installation or retrofit for the primary purpose of using a different energy source (e.g., electrification). (Exclude modifications made principally for energy efficiency)	1324	1 🗆	13251	1 🗆	13252	1 🗆	13253	1
I. Other, including other government programs (Specify)								
1396 (1)	1330	1 🗆	1331	1 🗆	1332	1 🗆	1333	1
1397 (2)	1334	1 🗆	1335	1 🗆	1336	1 🗆	1337	1
All establishments are to complete Parts C1, C2, and C3.								
Part C1 - GENERAL TECHNOLOGIES								
Mark (X) all technologies that were in place at your establis								
1401 1 Computer control of building environment (e.g., space-heating equipment, cooling equipment, lights)			te heat r istable-sj	ecovery peed moto	ors			
1402 1 Computer control of processes or major energy-using equipment (e.g., boilers, furnaces, conveyers) used in the manufacturing process			e of the					
Part C2 - COGENERATION TECHNOLOGIES								
Mark (X) all technologies that were in place at your establis		_						
14042 1 Steam turbines supplied by either conventional or fluidized bed boilers		Stea	m turbin	es supplie	ed by hear	h heat recovery t recovered fror		
14043 1 Conventional combustion turbines with heat recovery 14044 1 Combined-cycle combustion turbines		high	-tempera e of the a	ature proc	essés			
			e or the a	above				
Part C3 – ONE-TIME COLLECTION OF ESTABLISHMENT AC Your CORPORATE energy manager has the option of completing			ACH indi	ividual es	tahlishm	ent site. Othe	rwise	
your energy manager at the establishment site is the best source from respondents' own knowledge. A search for these items is not necessary	for this	inform	ation. P	lease resp	ond using	g best-guess es	timates	
What is your establishment's most commonly used method of eva Mark (X) o	luation f		nases of,	and modi	fications	to, electric moto	r syster	ns?
1601 1 An evaluation is based primarily on all expected costs			evaluatio	n is done	but not c	ertain how it is	done.	
over the projected lifetime of the system. 2 An evaluation is based primarily on initial purchase		5□ No	evaluatio	on is done				
prices of competing systems. 3 Another type of evaluation is used.		□ NOt	certain i	ıı any type	oi evaiu	ation is done.		
Another type of evaluation is used. What kind of listing do you keep regarding your operating electric	motors :	at this o	stahliehn	nent?				
Mark (X) o								
1602 1 ☐ A listing is kept of all operating electric motors at this establishment – <i>Go to line 3 below.</i>		_	-	all is kept				12
2 ☐ A listing is kept of some operating electric motors at this establishment – <i>Go to line 3 below.</i>	•	₄∟ The	existend	ce or a list	ing is not	known – <i>Skip t</i>	o page 1	2.
3. Does your listing contain information on age of your motors? <i>Mai</i> 1603 1 ☐ Yes 2 ☐ No 3 ☐ Don't know				_	_			
4. Does your listing contain information on horsepower (wattage) of 1604 1 ☐ Yes 2 ☐ No 3 ☐ Don't know	your mo	tors? M	ark (X)	only one	box.			
1604 1 Yes 2 No 3 Don't know								Page 1

Petroleum Refineries

Section VI -	REMARKS								
	space or attach	a separate sheet fo	or any expla	anations tha	t may be essentia	l in understan	ding yo	ur report	ed data.
1599									
					-				
Section VII -	CERTIFICA	TION							
		g this report - (Print or	tynel			Area code N	lumber		Extension
riamo or porcon to	oontaat ragaram	g and report quant or	1,700,		Telephone number ———	> 1	•41111001		
Address - Number	and street			City	1	State		ZIP Code	
	NA sh-	From			NA	То		V	
Period covered by this report: ->	Month	Day	Year		Month	Day	i	Year	
Signature of autho	rized person			umber or E-M	ail (if available)	-:	Date		
3					@		Date		
age 12		PLEASE PHOTOC	OPY THIS	FORM FOR		DS.		FORM EIA	-846B (4-13-95

OMB No. 1905-0169: Approval Expires 04/30/98

Form **EIA-846C**

U.S. Department of Commerce Bureau of the Census Acting as Collecting and Compiling Agent For

UNITED STATES DEPARTMENT OF ENERGY ENERGY INFORMATION ADMINISTRATION





Lumber and Wood Products; Paper and Allied Products; **Chemicals and Allied** Products; Petroleum and Coal products; Selected Primary Metal Industries

1994 MANUFACTURING **ENERGY** CONSUMPTION SURVEY

UMB No. 1905-0169: Approval Expires 04/30/
Public reporting burden for this collection of information is estimated to average 9 hours per response, including the time of reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Energy Information Administration, Office of Statistical Standards Et 23, 145 Cerestion, Washaggen, Dc 2088s; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20833.

In correspondence pertaining to this report, please refer to this Census File Number (CFN).

Please correct errors in name, address, and ZIP Code. ENTER street and number if not shown

PLEASE COMPLETE THIS FORM AND RETURN TO

BUREAU OF THE CENSUS 1201 East 10th Street Jeffersonville, IN 47132-0001

If you cannot file by the due date, a time extension request should be sent to the above address. Please include your 11-digit Census File Number (CFN).

NOTE

Please read the enclosed instructions before filling out this form. Complete each item. If you have any questions, call 1-800-866-6327.

The Manufacturing Energy Consumption Survey – The Manufacturing Energy Consumption Survey (MECS) was designed, and is being sponsored, by the Energy Information Administration (EIA) of the U.S. Department of Energy (DOE). The survey is administered and compiled by the U.S. Bureau of the Census for the EIA. The previous MECS was conducted covering the year 1991.

Mandatory Requirement – This survey is mandatory under the Federal Energy Administration Act of 1974, Pub. L. No. 93-275, and under Title 3, Subtitle B, of the Omnibus Budget Reconciliation Act of 1986, Pub. L. No. 99-509, as amended by Title 1, Subtitle G, of the Energy Policy Act of 1992, Pub. L. No. 102-486. Failure to respond may result in criminal fines, civil penalties, and other sanctions as provided by law. Response is required by law from establishments included in the MECS sample and receiving the MECS form.

Confidentiality of Data – Under Section 9 of Title 13, U.S. Code, your report to the Census Bureau is **confidential**. It may be seen only by sworn Census Bureau employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal

Purpose of This Survey – The MECS will collect data on energy consumption and usage patterns for the manufacturing sector of the U.S. economy. In addition, it will measure the short-term (within 30 days) capability of your establishment to substitute fuels in place of those actually consumed in 1994. The information obtained from the MECS forms will be used to publish aggregate statistics on the following: consumption of energy for fuel and nonfuel uses, energy characteristics of buildings in the manufacturing sector, energy consumption by end use, technologies currently in use by U.S. manufacturers, energy prices, electricity generation onsite, fuel-switching capabilities, and participation in energy-management activities. This information will be used by the DOE to implement policy plans effectively as well as to assist utilities in more accurate demand forecasting and resource planning.

Form EIA-846C – This form is addressed to establishments operating primarily in the manufacturing sector in industries as defined by the 1987 Standard Industrial Classification (SIC) Manual. Industries sampled for this form are in SIC 24, 26, 28, 29, (excluding 2911), 3312, 3321, 3331, and 3339. Government-owned establishments that are privately operated are NOT exempt from completing this survey.

Due Date – The questionnaire should be returned no later than the due date specified above. If you need additional time, please call our processing office on 1–800–528–3049. Please use the enclosed return revelope. If the envelope has been misplaced, return the completed questionnaire to us at the

				IF	ZERO. F	LEASE I	NTER ZE	RO (0) IN	I EACH	вох
	Item Description							10 (0, 11	_	
	(1)	10	_	Electricit (2)	у	11	Steam (3)		12	strial Hot Wat
1a.	During 1994, what amount of each energy source was purchased from utilities by this establishme and delivered to this establishment site? (DO NOT include purchases by a central purchasing agent, quantities delivered from other establishments of your company, or quantities for which payment wa made in-kind.)	nt N	_	ilowatthou Thou I I I I	irs kWh 		Million B	tu		Million Btu
1b.	What was the total expenditure, including all	•		Dollars			Dollars			Dollars
	applicable taxes, for the purchased energy source(s reported on line 1a?	02 N	Mil	Thou	Dol	Mil	Thou	Dol I I	Mil	Thou D
2a.	During 1994, what amount of electricity and steam was purchased from nonutility suppliers by this establishment and delivered to this establishment site?	s N	K Mil	ilowatthou Thou	irs kWh		Million Bt	1		
2b.	What was the total expenditure, including all applicable taxes, for the purchased energy source(s	(i) N	Mil	Dollars Thou	Dol	Mil	Dollars Thou	Dol		
		04	K	l L ilowatthou	l L		I I Million Bt			Million Btu
3.	During 1994, what amount of each energy source was transferred from outside establishments and delivered to this establishment site? (DO NOT inclu the purchases reported in lines 1a and 2a. DO inclu quantities received from a central purchasing agent quantities delivered from other establishments of your company, and quantities for which payment made in-kind.)	de de t,		Thou I I I I I I			Willion Bt			Willion Std
4.	TOTAL QUANTITIES OF ELECTRICITY RECEIVED ONSITE (Sum of lines 1a, 2a, and 3.) MOTE – Copy this quantity for electricity to Section III – FUEL SWITCHING, part A, line 1a, column (2) on page 6.	06		 	 					
5.	During 1994, how much electricity was generated of this establishment site by cogeneration? (Include Acogeneration facilities at this establishment site.)	n LL		 	 					
6.	During 1994, how much of each energy source was	07		 			Million B	tu		Million Btu
a.	generated onsite from each of the following: Solar power	081		 	 					
] 	 					
Б.	Wind power	082		 	 					
c.	Hydropower	083		 	 					
d.	Geothermal power	084		 	 					
7.	During 1994, how much electricity was generated onsite by processes other than those covered on lines 5, 6a, 6b, 6c, and 6d?			 	 					
		09		<u> </u>						
8.	TOTAL ONSITE GENERATION OF ELECTRICITY (Sum of lines 5, 6a, 6b, 6c, 6d, and 7.)			 	! 					
9.	During 1994, how much electricity was sold or	10		1	 					
	transferred to utilities?				 					
10.		11		<u> </u>	<u> </u> 	-	Million B	tu		Million Btu
υ.	During 1994, how much of each energy source was sold or transferred to any establishments other than utilities?	n 12		 	 		WIIIIOII B	.u		willion blu
11.	TOTAL ELECTRICITY SALES AND TRANSFERS	-		l	l	<u> </u>				
	OFFSITE (Line 9 plus line 10.)			 	 					
		13		 	l L					
12.	TOTAL ONSITE CONSUMPTION OF ELECTRICITY. (Line 4 plus line 8 minus line 11.) NOTE – Copy this quantity for electricity consumption to Section IV – ESTIMATED PERCENT CONSUMPTION BY END USE, line 1, column (2) on page 9.			 	 					
	846C (4-13-95)	14			<u>'</u>					P

360	tion I – NONCOMBUSTIBLE ENERGY S	J	CL.	_							·					
	Item Description					ZERO, P	LEASE				(0) IN					
	(1)	10	1	Ele	ctricit (2)	y	11	•	Stean (3)	n		Indu 12	ıstria	al Hot (4)	Wa	ter
1a.	During 1994, what amount of each energy source was purchased from utilities by this establishment and delivered to this establishment site? <i>(ION NOT include purchases by a central purchasing agent, quantities delivered from other establishments of your company, or quantities for which payment was made in-kind.)</i>	: N			/attho	irs kWh 	,	N	1illion	Btu			Mill	ion B	tu	
41.	01	<u>' </u>		<u> </u>	ollars			_	Dollar					ollars		
16.	What was the total expenditure, including all applicable taxes, for the purchased energy source(s) reported on line 1a?	M	lil		hou	Dol	Mil		Thou		Dol	Mil		Thou	1 1 1	Dol
2a.	During 1994, what amount of electricity and steam was purchased from nonutility suppliers by this establishment and delivered to this establishment site?	N	K lil		atthou hou			Mi	llion E	Btu						
2b.	What was the total expenditure, including all applicable taxes, for the purchased energy source(s) reported on line 2a?	M	1iI		ollars 'hou	Dol	Mil		Dollar: Thou		Dol					
3.	During 1994, what amount of each energy source was transferred from outside establishments and delivered to this establishment site? (<i>DO NOT include the purchases reported in lines 1a and 2a. DO include quantities received from a central purchasing agent, quantities delivered from other establishments of your company, and quantities for which payment was made in-kind.)</i>	s			atthou hou			Mi	llion E	Btu			Mill	ion B	tu	
4.	TOTAL QUANTITIES OF ELECTRICITY RECEIVED ONSITE (Sum of lines 1s, 2s, and 3.) NOTE - Copy this quantity for electricity to Section III – FUEL SWITCHING, part A, line 1s, column (2) on page 6.	5		1 1 1 1 1 1		 										
5.	During 1994, how much electricity was generated on this establishment site by cogeneration? (Include ALL cogeneration facilities at this establishment site.)					 										
6.	During 1994, how much of each energy source was generated onsite from each of the following:			1		 		N	lillion	Btu			Mill	ion B	tu	
a.	Solar power 08	1		<u> </u> 		 										
b.	Wind power 08:	2		 		 										
c.	Hydropower 08	3		 		I I I										
d.	Geothermal power 08	4		1		 										
7.	During 1994, how much electricity was generated onsite by processes other than those covered on lines 5, 6a, 6b, 6c, and 6d?			 		 										
8.	TOTAL ONSITE GENERATION OF ELECTRICITY (Sum of lines 5, 6a, 6b, 6c, 6d, and 7.)	9		 		 										
9.	During 1994, how much electricity was sold or transferred to utilities?			1		 										
10.	11 During 1994, how much of each energy source was			 		1 		IV	lillion	Btu			Mill	ion B	tu	
	burning 1994, now much of each energy source was sold or transferred to any establishments other than utilities?	2		 		 									_	
11.	TOTAL ELECTRICITY SALES AND TRANSFERS OFFSITE (Line 9 plus line 10.)			1 1 1		 										
12.	TOTAL ONSITE CONSUMPTION OF ELECTRICITY. (Line 4 plus line 8 minus line 11.) NOTE - Copy this quantity for electricity consumption to Section IV - ESTIMATED PERCENT CONSUMPTION BY END USE, line 1, column (2) on page 9.	3		 		 										

				Energy	sources			n 1994
	Energy Sources	Census Use Only	Units used for reporting quantities	Quantity purchased by and delivered to this establishment	inclu deliver	I expendi Iding taxe ry charge: ity in colu (5)	es and s, of the	Total quantity of transfers in and central purchases
	(1)	(2)	(3)	01 (4)	Mil	Thou	Dol	03 (6)
A. SO 1.	LIDS . Anthracite	40	Short Tons			!		
2.	. Bituminous and subbituminous coal	41	Short Tons					
3.	. Lignite	42	Short Tons			İ	i	
							I	
	. Total coal (Sum of lines A1, A2, and A3)	46	Short Tons			1	l l	
	. Breeze	44	Short Tons			1	!	
	. Coal coke	43	Short Tons			<u> </u>	<u> </u>	
	Fluid catalytic cracking unit coke	77	Barrels			<u> </u>	<u> </u>	
	. Marketable petroleum coke – unrefined or green	78	Barrels			<u> </u>	<u> </u>	
	Marketable petroleum coke – calcined Agricultural waste (e.g., bagasse, rice hulls, nut	79	Barrels			<u> </u>	<u> </u>	
	shells, orchard prunings)	90	Million Btu			<u> </u> 	<u> </u>	
	. Wood harvested directly from trees (e.g., roundwood, wood chips, tree bark)	83	Million Btu				 	
12.	 Wood residues and byproducts from mill processing (e.g., sawdust, shavings, slabs, bark) 	84	Million Btu			1		
	Wood/paper-related refuse (e.g., scrap, wastepaper, wood pallets, packing materials)	72	Million Btu			 	 	
14.	Other solids (Specify solid. Specify units, if not million Btu)					į	-	
9198		91	Million Btu			<u> </u>		0 0 10 0
	ASES (exclude oxygen, nitrogen, and inert gases) Total natural gas (Include well production onsite in col. (7))	30	1,000 cu. ft.			1	1	See Pg. 10, Part
	In the following parts 1a-1e, please classify natural	- 50	1,000 00.11.			!	!	
	gas purchases which are reported in line 1. UTILITY/LDC					!	!	
	 Natural gas purchased directly from your utilities/local distribution companies (LDC) at a firm service rate 	48	1,000 cu. ft.					
	Natural gas purchased directly from LDC at an interruptible service rate	49	1,000 cu. ft.			<u> </u>		
	1c. Natural gas purchased directly from LDC at	43	1,000 cu. it.			<u> </u>	<u> </u>	
	other service rates (Specify type of service rate)					į	į	
5098	Did this establishment purchase natural gas in	50	1,000 cu. ft.			-	-	
0981	1994 from sources other than utilities/LDČ? 1 ☐ Yes – <i>Go to Line 1d.</i>					I I	I I	
	2 \square No – Skip to line 2, Acetylene, on this page.					I I	I I	
	NONUTILITY/NON-LDC 1d. Natural gas purchased from non-LDC sources					I I	I I	
	(e.g., producers, brokers, marketers, and other non-LDC sources including fees for transportation and storage)	F1	1,000 #			 	1	
	1e. Of the expenditures given in line 1d, please	51	1,000 cu. ft.				1	
	provide the following: (Please note that the sum of lines e(1), e(2), and e(3) should equal line 1d.)					I I	1	
	(1) Cost of supplies (Include brokers' fees, suppliers' fees)	52				 	1	
	(2) Cost of transportation – Please mark (X) all the service rates that apply.					1	l I	
3021	1 Firm (e.g., no-notice, bundled firm)					I I	I I	
3022 3023	1 ☐ Interruptible 1 ☐ Don't know					1	I I	
3023	1 Other/Released capacity					I I	I I	
	(Specify type of service rate)					I I	I I	
5398	(3) Other costs (e.g., storage) (Specify)	53				1	1	
5498		54				I I	 	
2	. Acetylene	64	Cu. Ft.			l I	I I	
	. Blast furnace gas	60	Million Btu			I I	l I	
4	. Coke oven gas	61	Million Btu			l I	l I	
5	. Hydrogen	63	Million Btu			l I	l I	
6	. Waste and byproduct gases (e.g., refinery gas,		MATERIA DE			I I	l I	
7	vent gas, plant gas, still gas) Other gases (Specify gas. Specify units, if not million Btu)	62	Million Btu			<u> </u>	l I	
	garan, gao. opoon, anto, n not minor btu/	93	Million Btu			I I	!	

Quantity produced onsite	DVDroduct	entry in represent duct or of another source d onsite?		Quantity consumed as a fuel		Qu onsu	in 1994 antity imed for onfuel poses		Quantity pped offsite to other ablishments in 1994	stor	otal design age capacity ted onsite as f 12/31/94	Censu Use Only
(7)	05 consume	d onsite? 8)	06	(9)	07		10)	08	(11)	09	(12)	(13)
												40
												41
												42
			Copy to pg	. 6, line 1a & pg. 9, li	ne 1							
		2 □ No			-					-		46
	1 Yes											44
	1 Yes	2 No										43
	1 🗆 Yes	2 🗆 No										77
	1 Yes	2 🗆 No										78
	i Li i es	2 🗆 100										79
					_							90
								1				83
												84
								1		1		04
												72
	1 🗌 Yes	2 🗌 No										
			Conv to no	. 7, line 1a & pg. 9, li	ne 1							91
			оору то ру	. 1, 1110 ta a pg. 0, 11								30
												48
												49
												50
												51
												52
								1				
	-				\perp			-		1		53
								1				54
								1		1		64
										1		60
								1		1		61
	1 🗌 Yes	2 🗌 No						1				63
										1		"
	1 Yes	2 No			\perp			1		1		62
	1 🗌 Yes	2 🗌 No	1					1				

			E	nergy			d onsite in	1994
Energy Sources	Census Use Only	Units used for reporting quantities	Quantit purchased and delive to this establishr	d by ered	inclu	expendi ding tax y charge ty in col	es and s, of the	Total quantity o transfers i and centra purchase
(1)	(2)	(3)	01 (4)		Mil	Thou	Dol	03 (6)
LIQUIDS (42 gallons = 1 barrel) 1. Butane as liquid petroleum gas (LPG) or natural gas liquids (NGL)	36	Gallons					i !	
Ethane as liquid petroleum gas (LPG) or natural gas liquids (NGL)	37	Gallons				I	1	
Propane as liquid petroleum gas (LPG) or natural gas liquids (NGL)	38	Gallons				1	1	
4. Mixtures of ethane, butane, and propane	34	Gallons				I I	 	
Other LPG and NGL (e.g., butylene, ethylene, and propylene)	35	Gallons				 	 	
6. Total LPG and NGL (Sum of lines C1, C2, C3, C4, and C5)	24	Gallons				i I	i I	
7. Diesel fuel, excluding highway usage	28	Barrels					-	
8. Distillate fuel oil (numbers 1, 2, and 4 fuel oils – exclude diesel fuel reported on line C7 above.)	29	Barrels					İ	
9. Total diesel fuel and distillate fuel oil (Sum of lines C7 and C8)	22	Barrels				 	1	
10. Kerosene	27	Barrels				i I	i	
11. Motor gasoline, excluding highway usage	23	Gallons				I 	1	
12. Pulping or black liquor	73	Million Btu				-	-	
13. Residual fuel oil (numbers 5, 6, Navy Special, and Bunker C)	21	Barrels					<u> </u>	
14. Waste oils and tars	71	Million Btu				l -	1	
15. Other liquids (Specify liquid. Specify units, if not million Btu)						 	1	
8	95	Million Btu						
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Copy from part B, line 1,000	Natural Gas (4) m Section II, 1, column (9) 00 cu. ft.	22 p	Fotal Diesel Fuel and Distillate Fuel Oil (5) Copy from Section II, art C, line 9, column (9) Barrels Barrels Barrels Barrels	24 (6) Copy from S part C, line 6, Gallor Gallor	ection II, column (9)	21 Co	ppy from Section C, line 13, colum Barrels Barrels	Dil II.
Total I Copy from part B, line 1,000 1,000	Natural Gas (4) m Section II, e 1, column (9) 00 cu. ft.	22 p	Fotal Diesel Fuel and Distillate Fuel Oil (5) Copy from Section II, art C, line 9, column (9) Barrels Barrels Barrels Barrels Barrels	24 (6) Copy from S part C, line 6, s Gallor Gallor	ection II, coolumn (9) as as as as as as as as as as as as as	21 Co	(7) ppy from Section C, line 13, colum Barrels Barrels Barrels Barrels	Dil II.
Total I Copy from part B, line 1,000 1,000 1,000 1,000	Natural Gas (4) m Section II, 1, column (9) 00 cu. ft. 00 cu. ft. 00 cu. ft.	22 p	Fotal Diesel Fuel and Distillate Fuel Oil (5) Copy from Section II, art C, line 9, column (9) Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels	24 (6) Copy from S part C, line 6, o Gallor Gallor Gallor Gallor Gallor Gallor Gallor Gallor	ection II, column (9) IIS IIS IIS IIS IIS IIS IIS IIS	21 Co	(7) ppy from Section C, line 13, colum Barrels Barrels Barrels Barrels Barrels Barrels	Dil II.
Total I Copy from part B, line 1,000 1,000 1,000 1,000	Natural Gas (4) m Section II, e 1, column (9) 00 cu. ft.	22 p	Fotal Diesel Fuel and Distillate Fuel Oil (5) Copy from Section II, art C, line 9, column (9) Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels	24 (6) Copy from S part C, line 6, s Gallor Gallor Gallor Gallor Gallor Gallor Gallor Gallor Gallor Gallor Gallor	ection II, coolumn (9) IIS IIS IIS IIS IIS IIS IIS IIS	Co part	(7) ppy from Section C, line 13, colum Barrels Barrels Barrels Barrels Barrels Barrels Barrels	II, n (9)
Total I Copy from part B, line 1,000 1,000 1,000 1,000 1,000	Matural Gas (4) m Section II, e 1, column (9) 10 cu. ft. 100 cu. ft. 100 cu. ft. 100 cu. ft.	22 p	Fotal Diesel Fuel and Distillate Fuel Oil (5) Copy from Section II, art C, line 9, column (9) Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels	24 (6) Copy from S part C, line 6, s Gallor Gallor Gallor Gallor Gallor Gallor Gallor Gallor Gallor	ection II, column (9) is is is is is is is	Co part	Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels	II, n (9)
Total I Copy from part B, line 1,000 1,000 1,000 1,000 1,000	Natural Gas (4) m Section II, 1, column (9) 00 cu. ft. 00 cu. ft. 00 cu. ft.	22 p	Fotal Diesel Fuel and Distillate Fuel Oil (5) Copy from Section II, art C, line 9, column (9) Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels	24 (6) Copy from S part C, line 6, s Gallor Gallor Gallor Gallor Gallor Gallor Gallor Gallor Gallor Gallor Gallor	ection II, column (9) is is is is is is is	Co part	(7) ppy from Section C, line 13, colum Barrels Barrels Barrels Barrels Barrels Barrels Barrels	II, n (9)
Total I Copy from part B, line 1,000 1,000 1,000 1,000 1,000 1,000	Matural Gas (4) m Section II, e 1, column (9) 10 cu. ft. 100 cu. ft. 100 cu. ft. 100 cu. ft.	22 p	Fotal Diesel Fuel and Distillate Fuel Oil (5) Copy from Section II, art C, line 9, column (9) Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels	24 (6) Copy from S part C, line 6, s Gallor Gallor Gallor Gallor Gallor Gallor Gallor Gallor Gallor	ection II, column (9) is is is is is is is	Co part	Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels	II, n (9)
Total I Copy from part B, line 1,000 1,000 1,000 1,000 1,000 Copy to lin Copy to lin	Natural Gas (4) m Section II, n T, column (9) 00 cu. ft. 00 cu. ft. 00 cu. ft. 00 cu. ft.	22 p	Fotal Diesel Fuel and Distillate Fuel Oil (5) Copy from Section II, art C, line 9, column (9) Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels	24 (6) Copy from S part C, line 6, s Gallor Gallor Gallor Gallor Gallor Gallor Gallor Gallor Gallor	ection II, coolumn (9) is is is is is is is is	Co part	ppy from Section C, line 13, column Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels Barrels	

Sec	tion III - FUEL SWITCHING - Continued		
B. sw	ITCHING BETWEEN NATURAL GAS AND RESIDUAL FUEL OIL		
spe	purpose of this part is to determine, for this establishment, if any actual switchi cife fuels, namely natural gas and residual fuel oil; if so, the primary reasons for erence would switching be a viable option.	ng took place betwee the switching and at	n two what price
	Item Description	Total Natural Gas	Residual Fuel Oil
	(1)	30 (2)	21 (3)
		Copy from Section III, part A, line 10, column (4) 1,000 cu. ft.	Copy from Section III, part A, line 7, column (7) Barrels
1a.	Replaceable amount - Copy data into line 1a as instructed in the column headings.		
1b.	Does line 1a contain any nonzero entries?		
1501	1 ☐ Yes – Answer lines 2a, 2b, and 2c, as appropriate, for that column. 2 ☐ No – Skip to Section IV – ESTIMATED PERCENT CONSUMPTION BY END USE, on page 9.		
	At any time during the full year 1994, did this establishment		
	SWITCH FROM natural gas TO residual fuel oil?		
1502	1		
2b.	SWITCH FROM residual fuel oil TO natural gas?		
1503	1 ☐ Yes		
_	2 L No		
	Do lines 2a or 2b contain any "YES" responses?		
1504	1 \bigsqcup Yes – Answer lines 3 and 4, as appropriate, for that column. 2 \bigsqcup No – Skip to line 4 on this page.		
3.	What is the primary reason(s) that this establishment SWITCHED FROM this fuel TO the other fuel?	Total Natural Gas	Residual Fuel Oil
		Mark (X) all that apply	Mark (X) all that apply
a.	Supply shortage or curtailment of this fuel	1505 1	1506 1
b.	Down-time caused by maintenance	1507 1 🗆	1508 1 🗆
c.	Less expensive substitute	1509 1	1510 1 🗆
	Environmental restriction on emissions or waste	1511 1 🗆	1512 1 🗆
e.	Other (Specify and mark appropriate box(es))		
15121			
15121	(1)	1513 1 🗆	1514 1
15122	(2)	1515 1 🗆	1516 1 🗆
	Please answer line 4 as appropriate for the columns with nonzero entries in line 1a.	Total Natural Gas	Residual Fuel Oil
4.	Regardless of whether or not your establishment actually SWITCHED FROM this fuel during 1994, or did so because of a less expensive substitute, is there a LOWEST PERCENTAGE of price difference of the less expensive substitute that would cause your establishment to SWITCH FROM this fuel?		
	The formula for percentage of price difference is:	Mark (X) only	Mark (X) only
	Percentage of Price Difference = $\frac{(PC - PA)}{PC}$ X 100%	one box	one box
	Where PC = Price per British thermal unit of current fuel PA = Price per British thermal unit of alternative fuel	1517	1518
a.	Would not switch regardless of percentage of price difference	1 🗆	1 □
b.	Would switch at price difference of 1 – 5 percent	2 🗆	2 🗆
c.	Would switch at price difference of 6 – 10 percent	з 🗆	3 □
d.	Would switch at price difference of 11 – 15 percent	4 🗆	4 🗆
e.	Would switch at price difference of 16 – 20 percent	5 🗆	5 🗆
f.	Would switch at price difference of 21 – 30 percent	6 🗆	6 🗆
g.	Would switch at price difference of 31 – 40 percent	7 🗆	7 🗆
	Would switch at price difference of 41 – 50 percent	8 🗆	8 🗆
	Would switch at price difference over 50 percent	9 🗆	9 🗆
	Reasonable estimate cannot be provided	10 🗆	10 🗆
	Would switch to the more expensive substitute if price premium	_	_
	were reasonable	11 🗆	11 🗆

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Section IV - ESTIMATED PERCENT CONSUMPTION BY END USE												
End Uses	Total Excluding Coal Coke and Breeze		Total Natural Gas	Total Diesel Fuel and Distillate Fuel Oil	Total LPG and NGL	Residual Fuel Oil						
(1)	10 (2)	46 (3)	30 (4)	22 (5)	24 (6)	21 (7)						
	Copy from Section I, line 12, column (2) 1.000 kWh	Copy from Section II, part A, line 4, column (9) Short Tons	Copy from Section II, part B, line 1, column (9) 1,000 cu, ft.	Copy from Section II, part C, line 9, column (9) Barrels	Copy from Section II, part C, line 6, column (9) Gallons	Copy from Section II, part C, line 13, column (9) Barrels						
Quantity consumed – Copy data into line 1 as instructed in the column headings. 70	,	Onore Tons	1,000 tu. 1t.	5411615	Guilons	Daileis						

Energy sources can be consumed in three major end-use classes: indirect use (boiler fuel), direct process use, and direct nonprocess use. **Indirect use is the transformation of energy to another usable energy source, as in a boiler for example.** Direct process use includes usage in motors, ovens, kilns, and strip heaters. Direct nonprocess use includes usage for facility lighting and conditioning equipment.

For each energy source, the sum of the elements in these three classes equals 100 percent.

For columns with nonzero entries in line 1 above, please report the approximate percentage of each energy source used for the purposes listed below.

PLEASE COMPLETE ONE COLUMN BEFORE STARTING ANOTHER. REASONABLE APPROXIMATIONS ARE ACCEPTABLE – SEE INSTRUCTIONS.

End Uses		Total Electricity Consumption	Total Coal Excluding Coal Coke and Breeze	Total Natural Gas	Total Diesel Fuel and Distillate Fuel Oil	Total LPG and NGL	Residual Fuel Oil
(1)		10 (2)	46 (3)	30 (4)	22 (5)	24 (6)	21 (7)
INDIRECT USES - BOILERS							
2. Boiler fuel (e.g., fuel for boilers, gas turbines)	71	%	%	%	%	%	%
DIRECT USES - PROCESS							
3. Process heating (e.g., kilns, furnaces, ovens, strip heaters)	72	%	%	%	%	%	%
4. Process cooling and refrigeration	73	%	%	%	%	%	%
5. Machine drive (e.g., motors, pumps, etc. associated with manufacturing process equipment)	74	%	%	%	%	%	%
6. Electro-chemical processes (e.g., reduction process)		%					
7. Other (Please specify any other uses of energy)	75	78					
10761	76	%	%	%	%	%	%
8. Facility heating, ventilation, and air conditioning	77	%	%	%	%	%	%
9. Facility lighting	78	%					
10. Facility support other than lines 8 and 9 above (e.g., cooking, water heating, office equipment)	79	%	%	%	%	%	%
11. Onsite transportation, excluding highway usage	80	%		%	%	%	
12. Conventional electricity generation	81		%	%	%	%	%
13. Other (Please specify any other uses of energy)							
10821	82	%	%	%	%	%	%
TOTAL for all purposes		100%	100%	100%	100%	100%	100%

This section is divided into eight parts. All establishments are to complete Parts A, B, C1, C2, and C3. Part A – ESTIMATED SQUARE FOOTAGE OF BUILDINGS 1. What was the approximate total enclosed square footage of the buildings located on this establishment site as of December 31, 1994? Square Feet	ferred in and
1. What was the approximate total enclosed square footage of the buildings located on this establishment site as of December 31, 1994? Square Feet	ferred in and
Square Feet Mil Thou Feet Mil Thou Feet Mil Thou Feet Mil Thou Feet Mil Thou Feet Mil Thou Feet Mil Thou Feet Mil Thou Feet Mil Thou Feet Mil Thou Feet Mil Thou Feet Mil Thou Feet Mil Thou Feet Mil Thou Feet Mil Thou Feet Mil Thou Feet Mil Thou Feet Mil Thou Feet Mil Thou Feet Mil Thou Feet Mil Thou Feet Mil Thou Feet Mil Thou Feet Mil Thou Feet Mil Thou Feet Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou Mil Thou M	ferred in and
Please provide the approximate percentage to the nearest multiple of 5 percent. Percent Please provide the approximate percentage to the nearest multiple of 5 percent.	ferred in and
Please provide the approximate percentage to the nearest multiple of 5 percent. Please provide the approximate percentage to the nearest multiple of 5 percent. Part B - ENERGY PURCHASING AND ENERGY-MANAGEMENT ACTIVITIES Please refer to Section II, Part B, line 1, column (6) on page 4 for the quantity of total natural gas that was transcentrally purchased. Does column (6) of line B1 on page 4 contain a nonzero entry? Ves - Answer lines 1a and 1b below. Ves - Answer lines 1a and 1b below. No - Skip to line 2 below. Skip to line 2 below. The tret the total expenditures, including all applicable taxes and delivery charges, for the quantity of total natural gas that was transferred in and centrally purchased. If no expenditure was made, please enter zero.	ferred in and
Part B - ENERGY PURCHASING AND ENERGY-MANAGEMENT ACTIVITIES 1. Please refer to Section II, Part B, line 1, column (6) on page 4 for the quantity of total natural gas that was transcentrally purchased. Does column (6) of line B1 on page 4 contain a nonzero entry? 30031	
1. Please refer to Section II, Part B, line 1, column (6) on page 4 for the quantity of total natural gas that was transcentrally purchased. Does column (6) of line B1 on page 4 contain a nonzero entry? 1	
1. Please refer to Section II, Part B, line 1, column (6) on page 4 for the quantity of total natural gas that was transcentrally purchased. Does column (6) of line B1 on page 4 contain a nonzero entry? 1	
centrally purchased. Does column (6) of line B1 on page 4 contain a nonzero entry? 1	
2 No - Skip to line 2 below. 1a. Enter the total expenditures, including all applicable taxes and delivery charges, for the quantity of total natural stransferred in and centrally purchased. If no expenditure was made, please enter zero. Mil	as that was
transferred in and centrally purchased. If no expenditure was made, please enter zero. Mil	as that was
1b. What is the best description of the expenditure amount in line 1a above? Mark (X) only one box. 1	
Mark (X) only one box. 1	
1 Market price 2 Internal price based on this establishment's accounting principles 3 Don't know 4 Other (Specify) 2. At any time between January 1, 1992 and December 31, 1994, did your electric utility sponsor any type of prograthe purposes listed below, regardless of whether or not your establishment participated: • to lower your energy consumption or costs, or • to shift the timing of your electricity demand, or • to promote your use of electricity instead of another energy source? (Often these programs are referred to as Demand-Side Management (DSM))	
2. At any time between January 1, 1992 and December 31, 1994, did your electric utility sponsor any type of prograthe purposes listed below, regardless of whether or not your establishment participated: • to lower your energy consumption or costs, or • to shift the timing of your electricity demand, or • to promote your use of electricity instead of another energy source? (Often these programs are referred to as Demand-Side Management (DSM))	
the purposes listed below, regardless of whether or not your establishment participated: • to lower your energy consumption or costs, or • to shift the timing of your electricity demand, or • to promote your use of electricity instead of another energy source? (Often these programs are referred to as Demand-Side Management (DSM))	
	ns designed for
1303 1 🗆 Yes	
2 No	
3 Don't know	
3. At any time between January 1, 1992 and December 31, 1994, did your natural gas utility sponsor any type of prior the purposes listed below, regardless of whether or not your establishment participated: • to lower your energy consumption or costs, or • to shift the timing of your natural gas demand, or • to promote your use of natural gas instead of another energy source? (Often these programs are referred to as Demand-Side Management (DSM))	grams designed
Mark (X) only one box. 1304 1 ☐ Yes	
2 No 3 Don't know	
4a. For the period between January 1, 1992 and December 31, 1994, was the natural gas utility/local distribution compestablishment the same entity as your electric utility? Mark (X) only one box.	
Mark (A) only one Box.	ny (LDC) for your
4b. At any time between January 1, 1992 and December 31, 1994, was your establishment involved in any type of ener	iny (LDC) for your
activity?	
3051] 1 ∐ Yes – Go to line 5 on page 11. 2 □ No – Skip to Part C1 on page 11.	

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Section V - ESTABLISHMENT CHECKLIST - Continued										
Part B - ENERGY PURCHASING AND ENERGY-MANAGEME	NT A	CTIVIT	IES - C	ontinue	d					
 In what type(s) of energy-management activity(ies) was your establi Mark (X) all that apply. Note that it is possible to have marks in all four column. 	shment umns for	involve any of the	d betwee	n January es listed.	1, 1992 a	and December 31	, 1994?			
Energy-Management Activities	Invol Thi Ele Ut Spon	vement rough ctric tility sorship	Invol Th Self-Sp	vement rough onsorship	Feder Governm	ement Through al, State, Local nent Sponsorship, uding Utilities	Throug (3rd I Spons	ement h Other Party) orship		
(1)		(2)		(3)	100-11	(4)		5)		
a. Energy audits	1306	1 🗆	13071	1 🗆	13072	1 🗆	13073	1		
b. Electricity load control	1308	1 🗆	13091	1 🗆	13092	1 🗆	13093	1 🗆		
c. Special rate schedule (e.g., interruptible or time-of-use)	1310	1 🗆								
d. Standby generation program	1326	1 🗆	13271	1 🗆	13272	1 🗆	13273	1 🗆		
e. Equipment rebates	1328	1 🗆	13291	1 🗆	13292	1 🗆	13293	1 🗆		
f. Power factor correction or improvement	1338	1 📙	1339	1 🗆	1340	1 🗆	1341	1∐		
g. U.S. Environmental Protection Agency's Energy Star Program					1342	1 🗆				
h. U.S. Environmental Protection Agency's Green Lights Program					1343	1 🗆				
U.S. Department of Energy's Motor Challenge Program Equipment installation or retrofit for the primary purpose of					1344	1 🗆				
improving energy efficiency affecting:	L			. \Box	L					
(1) Steam production (e.g., boilers, burners)	1312	1 🗆	13131	1 🗆	13132	1 🗆	13133	1 🗆		
(2) Direct/indirect process heating	1314	1 🗆	13151	1 🗆	13152	1 🗆	13153	1□		
(3) Direct process cooling, refrigeration (4) Direct machine drive (e.g., adjustable-speed drives, motors.	1316	1 🗆	13171	1 🗆	13172	1 🗆	13173	1 🗆		
(4) Direct machine drive (e.g., adjustable-speed drives, motors, pumps) excluding Motor Challenge Program	1318	1 🗆	13191	1 🗌	13192	1 🗌	13193	1		
(5) Facility heating, ventilation, and air conditioning, excluding Energy Star Program	1320	1 🗌	13211	1 🗌	13212	1 🗆	13213	1		
(6) Facility lighting, excluding Green Lights Program	1322	1 🗆	13231	1 🗆	13232	1 🗆	13233	1		
k. Equipment installation or retrofit for the primary purpose of using a different energy source (e.g., electrification). (Exclude modifications made principally for energy efficiency)	1324	1 🗆	13251	1 🗆	13252	1 🗆	13253	1		
I. Other, including other government programs (Specify)										
1396 (1)	1330	1 🗆	1331	1 🗆	1332	1 🗆	1333	1		
1397 (2)	1334	1 🗆	1335	1 🗆	1336	1 🗆	1337	1		
All establishments are to complete Parts C1, C2, and C3.										
Part C1 - GENERAL TECHNOLOGIES										
Mark (X) all technologies that were in place at your establish 1401 1 Computer control of building environment (e.g., space-heating equipment, cooling equipment, lights)	1403	1 Was	te heat r	ecovery peed moto	ors					
1402 1 Computer control of processes or major energy-using equipment (e.g., boilers, furnaces, conveyers) used in the manufacturing process	_		e of the							
Part C2 - COGENERATION TECHNOLOGIES										
Mark (X) all technologies that were in place at your establish		_								
14042 1 Steam turbines supplied by either conventional or fluidized bed boilers		1 ☐ Stea	m turbin	es supplie	ed by hea	th heat recovery at recovered from				
14043 1 Conventional combustion turbines with heat recovery	=	high	-tempera e of the	ature proc	essés					
			o or trie i	anove						
Part C3 – ONE-TIME COLLECTION OF ESTABLISHMENT AC' Your CORPORATE energy manager has the option of completing the your energy manager at the establishment site is the best source form respondents' own knowledge. A search for these items is not necessity.	his par or this sary.	t for EA	ation. P	lease resp	ond usin	g best-guess es	timates			
 What is your establishment's most commonly used method of evaluation Mark (X) on 			nases of,	and modi	fications	to, electric moto	or syster	ns?		
1601 1 ☐ An evaluation is based primarily on all expected costs over the projected lifetime of the system.	•	_	evaluatio	n is done	but not o	ertain how it is	done.			
2 ☐ An evaluation is based primarily on initial purchase		-		n is done		ation is done.				
prices of competing systems. 3 Another type of evaluation is used.		o∟ Not	certain i	any type	oi evalu	auon is done.				
***	notore	at this e	stablishn	nent?						
2. What kind of listing do you keep regarding your operating electric motors at this establishment? Mark (X) only one box.										
1602 1 ☐ A listing is kept of all operating electric motors at this establishment – <i>Go to line 3 below.</i>	1602 1 ☐ A listing is kept of all operating electric motors at this establishment – <i>Go to line 3 below.</i> 3 ☐ No listing at all is kept – <i>Skip to page 12.</i> 4 ☐ The existence of a listing is not known – <i>Skip to page 12.</i>									
2 A listing is kept of some operating electric motors at this establishment – <i>Go to line 3 below.</i>		4∟ The	existend	e or a listi	ng is not	. Kriown – Skip t	page :			
3. Does your listing contain information on age of your motors? <i>Mark</i>	(X) or	nly one	box.							
1603 1	our mo	tors? M	ark (X)	only one	box.					
1604 1 □ Yes 2 □ No 3 □ Don't know			/	,						

Section V - ESTABLISHMENT CHECKLIST -	- Conti	nued					
There is one additional part to complete for specific SIC co	des. This	establishmer	nt's four-digit SIC cod	le is included a	s part of	the addre	ess
mailing label on page 1 of this survey.							
If the first two digits of your establishment's SIC code are: "26" (paper industries), then complete Part D.							
or "28" (chemical industries), then complete Part E.							
or "33" (primary metal industries), then complete Part F.							
Otherwise, skip to Section VI – REMARKS.							
Part D - SPECIFIC TECHNOLOGIES FOR PAPER II	NDUST	RIES (SIC 2	6 ONLY)				
Mark (X) all technologies that were in place at your es	tablishm						
1436 1 Continuous digesters		1442 1	Multi-effect falling-fil	m evaporators	for		
1437 1 Displacement bleaching process			black liquor evapora Vapor recompressio			iguor	
1438 1 Top-wire (hybrid) paper forming			Waste-heat recovery				
1439 1 Extended nip press		1445 1	Improved filtration to	chnologies allo	wina fle	vihility	
1440 1	202200		in the selection of ful distillate fuel oil for I	el other than na ime calcination	atural ga	s and	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		None of the above				
Part E - SPECIFIC TECHNOLOGIES FOR CHEMICA	AL INDU	STRIES (S	IC 28 ONLY)				
Mark (X) all technologies that were in place at your es	tablishm	ent during	1994.				
1446 1 Replacement of electrically heated platens in the		1448 1	Biomass materials (e	.g., lignocellulo	sics, fo	od crops,	
thermoset molding process with a gas-fired centra thermal fluid system.	al		food wastes) used as	alternative fee	dstocks		
			Bioprocessing of pet		l gas, co	al, or othe	er
1447 1 Processing residuals as alternative feedstocks			fossil-based feedstoo	:KS			
The following technologies are innovative proc feedstocks with biomass materials, (2) increase and waste processing:	essing a	and separa I process e	tions that (1) sul fficiency, or (3)	ostitute use reduce envir	of foss onmer	il-based Ital imp	i acts
1450 1 Direct microbial		1457 1	Hydrolysis of biomas	s materials			
1451 1 Bioprocessing			Enhanced bioproces		ically en	gineered	
1452 1 Gasification of biomass feedstocks			feedstocks or organi		,		
1453 1 Fast pyrolysis of biomass feedstocks		1459 1	Fermentation				
1454 1 Immobilized enzyme processes			Fractionation of bion	nass			
1455 1 Innovative catalytic processes			Distillation process in				
1456 1 Recycling of materials			Hydrocarbon crackin None of the above	g enhancemen	ts		
D. 45 ADEQUEE TECHNOLOGIES FOR DRIVAN							
Part F - SPECIFIC TECHNOLOGIES FOR PRIMARY Mark (X) all technologies that were in place at your es				¥)			
	taviisiiii			· II - 4: -: 4			
1463 1 □ Dry quenching during the coking process 1464 1 □ External desulfurization of the charge for ironmaki	ina		Cold bonding (COBC Preheating combusti		nnique		
1465 1 Hydrocarbon injection to maintain blast furnace	g		Preheating raw mate				
temperatures			Top gas pressure red		blast fu	rnace	
1466 1 Direct reduction ironmaking – sponge iron produc	ed	1479 1 🗌	Slab heat recovery				
directly from iron ore			Continuous annealin				
1467 1 Continuous casting			Continuous cold rolli Bottom tap vessels	ng			
1468 1 Thin slab/strip casting 1469 1 Waste heat boilers/heat exchangers in			воттот тар vessers Injection steelmaking	,			
combination with reheat furnaces		-	Electroslag remelting				
1470 1 Evaporative cooling of skid rails			Vacuum arc remeltin				
1471 1 Electric induction reheat furnaces		1486 1 🗌	Oxygen injection to I	olast furnace			
1472 1 Hot charging – moving steel directly from			Coal injection to blas				
the caster to the reheat furnace			Steel ladle metallurg	y with reheat fo	urnace		
1473 1 Direct rolling required no reheating		14881 1 🗆	None of the above				
1474 Plasmasmelt smelting of partially reduced iron powder with pulverized coal							
Section VI - REMARKS							
Please use this space or attach a separate sheet for a	ıny expla	nations tha	t may be essential	in understan	ding yo	ur repor	ted data.
1599							
Section VII - CERTIFICATION							
Name of person to contact regarding this report - (Print or type	ne)			Area code N	lumber		Extension
			Telephone number —				Į.
Address – Number and street		City		State		ZIP Code	
From				То		•	
Period covered Month Day	Year		Month	Day	- 1	Year	
by this report: →	1			!	. !		
Signature of authorized person	nternet nu	ımber or E-M	ail (if available)		Date		
			@				

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