User's Guide and Codebook

National Surveys on Energy and Environment (NSEE)

National Surveys on Energy and Environment Public Use Datasets:

Spring 2017

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Summary

The National Surveys on Energy and Environment (NSEE), a core activity in CLOSUP's Energy and Environmental Policy Initiative, reflects a formal partnership between the Muhlenberg Institute of Public Opinion at Muhlenberg College and the Center for Local, State, and Urban Policy at the University of Michigan's Gerald R. Ford School of Public Policy. NSEE surveys include twice per year national opinion surveys on issues directly related to climate change, as well as other surveys conducted on a range of topics such as hydraulic fracturing ("fracking"), the Great Lakes, and wider issues of energy and environment. NSEE is co-directed by professor Barry Rabe at the University of Michigan, and professor Christopher Borick at Muhlenberg College. For more information on the collaboration between the University of Michigan and Muhlenberg College, please see the recent article from Muhlenberg Magazine. For more information about the NSEE, contact CLOSUP staff at 734-647-4091 or closup@umich.edu.

The Spring 2017 NSEE included longitudinal questions about belief in climate change, plus additional content related to support for state policies to address climate change, wind turbines, solar panels, and more.

Methodology

Survey Methodology	
N	841 (201 Land Line & 640 Cell Phone)
Margin of Error	+/- 3.5%
Fielding Dates	April 17, 2017 - May 16, 2017
AAPOR RR3 Response Rate	9%
Weighted by: Gender, Age, Race, Income, and Education	

The results are based on a telephone survey of 841 adult (age 18 or older) residents of the United States between April 17 and May 16, 2017. Respondents were interviewed in English on both landlines (201) and cell phones (640) by the staff of the Muhlenberg College Institute of Public Opinion (MCIPO) in Allentown, Pennsylvania on the Institute's Computer Aided Telephone Interviewing (CATI) system. Both the landline and cell phone samples were provided by the Marketing Systems Group (MSG), Horsham, Pennsylvania. Both landline and cell phones were chosen randomly from sampling frames of United States landline and cell numbers provided by MSG.

With a randomly selected sample of 768 respondents the margin of error for the surveys is ±4% at a 95% level of confidence. Margins of error for questions with smaller sample sizes will be larger. In addition to sampling error, one should consider that question wording and other fielding issues can introduce error or bias into survey results. The sample data has been weighted by age, race, educational attainment, income, and gender to reflect 2015 population parameters for these factors provided by the United States Census Bureau. The calculation of sampling error takes into account design effects due to the weighting identified above. In order to reach a representative sample of adult Americans both landlines and cell phones are called up to 10 times. The response rate for this survey as calculated using the American Association of Public Opinion Research (AAPOR) RR3 formula is 9%. The instrument was designed by Christopher Borick of Muhlenberg College, Barry Rabe of the University of Michigan, and Sarah Mills of the University of Michigan. For more detailed information on the methods employed please contact the MCIPO at 484-664-3444 or email Dr. Borick at cborick@muhlenberg.edu.

Funding and Financial Disclosure

Variable Naming

Rather than using variables names based on question number, the NSEE datasets use a longitudinal variable naming scheme, to facilitate longitudinal analysis. Many questions have been asked in multiple waves of the NSEE, making it a valuable source of longitudinal public-opinion data on climate change and energy policy. Consult the NSEE Crosswalk to see which questions have been asked in prior and subsequent waves of the NSEE.   Variable names include two parts, a subject category for the question, and a description of the contents of the question. When a question has been asked with the same text and response options over multiple waves, the same variable name will be used in each dataset. Where there have been slight changes in question wording, the variable name will include a version number (v1, v2, etc., appended to the variable name). In the single wave NSEE datasets, variables are listed in the order that they were asked.

LIST OF VARIABLES

Variable	Label
respnum	Respondent Number
SAMPLE	Sample Type
Version28_30	Question28-30 Placement
demog_age_list	Age: by category
demog_state	State of residence
demog_state_region	Region of country
weather_pastwinter	How would you describe the overall weather in your area this past winter
weather_snow	Which best describes the amount of snow in your area this past winter
gw_belief	Is there solid evidence avg temp on earth has been warming in past 4 decade
believer_confidence	How confident are you that the average temperature on earth is increasing
believer_cause	Is the earth warming because of human activity or natural patterns
believer_factor_open	Belief factor: primary factor OPEN ENDED
believer_factor_open_coded	Belief factor: primary factor OPEN ENDED coded
gw_concern	How concerned are you about the issue of global warming
believer_factor_glaciers	Belief factor: Declining glaciers & polar ice
believer_factor_warmer	Belief factor: warmer temps in your area
believer_factor_hurricane	Belief factor: Strength of US hurricanes
believer_factor_mildwint	Belief factor: milder winters in your area
believer_factor_droughts	Belief factor: Severe droughts across US
believer_factor_extremes	Belief factor: Extreme weather
nonbeliever_confidence	How confident are you that the average temperature on earth is NOT increas
nonbeliever_factor_open	Nonbelief factor: primary factor OPEN ENDED
nonbeliever_factor_open_coded	Nonbelief factor: primary factor OPEN ENDED coded
nonbeliever_factor_weath	Nonbelief factor: Personal observations of weather in area
nonbeliever_factor_scievid	Nonbelief factor: Scientific evidence disproves existence of GW
nonbeliever_factor_distort	Nonbelief Factor: Reports that scientists distort data about GW
govt_nostateaction	If federal govt fails to address GW, it's my state's responsibility to act
wind_mystate	Support increasing the use of wind energy in your state
solar_mystate	Support increasing the use of solar energy in your state
efficiency_mystate	Support requiring increased energy efficiency standards in your state
state_rps_mystate_v2	Support requiring increased use of renewable energy in your state
solar_netmeter	Support for net metering
vehicle_CAwaiver	Support for allowing California to set stricter standards for vehicle emissions
solar_visual	Solar panels produce visual or aesthetic problems.
solar_jobs	Solar panels create jobs.
solar_unreliable	Solar panels are an unreliable source of electricity
wind_visual	Wind turbines produce visual or aesthetic problems.
wind_jobs	Wind turbines create jobs.
wind_unreliable	Wind turbines are an unreliable source of electricity
willing2pay_list	How much would you be willing to pay/year for more renewable energy

demog_race	Race
demog_relig	Religious affiliation
demog_relig_evang	Religious affiliation: evangelical Christian
demog_edu	Highest level of education
demog_news	Primary source for national & world news
demog_polparty	Political party affiliation
demog_polviews	Political beliefs: conservative to liberal
demog_income	Family income
demog_gender	Gender: not asked; assessed by interviewer
Date_Time	Date and Time
TotalWeight	Total Weight

National Surveys on Energy and Environment: Spring 2017 Data

respnum– Respondent Number

Respondent Number

Representation

Numeric

Decimal Positions

2

Role

input

SAMPLE – Sample Type

Type of Sample

Representation

C	Cell
L	Land

Role

input

Version28_30 – Question28-30 Placement

Version of Survey

A	Version A - Solar
B	Version B - Wind

Role

input

CODEBOOK NOTE:

Version28_30 indicates whether respondents were asked solar_visual, solar_jobs, and solar_unreliable or wind_visual, wind_jobs, and wind_unreliable.   All respondents were asked wind_mystate, solar_mystate, and solar_netmeter.

demog_age_list - Age: by category

Age: by category

QUESTIONNAIRE TEXT: In which category does your current age fall?

1	18-29
2	30-44
3	45-64
4	65 and older
5	Refused but 18 or over
98	Not sure
99	Refused (terminate)

Role
input

demog_state - State of residence

State of residence

QUESTIONNAIRE TEXT: What state do you currently reside in?

Type
Text

Role
input

region - States coded to regions

States coded to regions

1	Northeast
2	South
3	Midwest
4	West
99	Refused

Role
input

CODEBOOK NOTE:

States were coded into regions as follows:

Northeast (1)

ME,NH,VT,MA,RI,CT,NY,PA,NJ

South (2)

MD,DE,VA,NC,SC,GA,FL,WV,KY,TN,AL,MS,LA,AR,OK,TX,DC

Midwest (3)

OH,IN,IL,IA,WI,MN,MI,MO,NE,ND,SD,KS

West (4)

HI,AK,CA,OR,WA,MT,WY,CO,NM,AZ,UT,NV,ID

weather_pastwinter - How would you describe the overall weather in your area this past winter

How would you describe the overall weather in your area this past winter

QUESTIONNAIRE TEXT: In general how would you describe the overall weather in your area this past winter? Would you say it was:

1	A lot warmer than usual
2	Slightly warmer than usual
3	Slightly cooler than usual
4	A lot cooler than usual
5	About the same as usual
98	Not sure
99	Refused

Role
input

weather_snow - Which best describes the amount of snow in your area this past winter

Which best describes the amount of snow in your area this past winter

QUESTIONNAIRE TEXT: Which of the following best describes the amount of snow your area received this past winter? My area received:

1	A lot more snow than usual
2	A little more snow than usual
3	A little less snow than usual
4	A lot less snow than usual
5	About the same as usual
6	Area doesn't receive snow
98	Not sure

99	Refused

Role
input

gw_belief - Is there solid evidence avg temp on earth has been warming in past 4 decades

Is there solid evidence avg temp on earth has been warming in past 4 decades

QUESTIONNAIRE TEXT: Now I would like to ask you a few questions on the issue of global warming. From what you've read and heard. Is there solid evidence that the average temperature on earth has been getting warmer over the past four decades?

1	Yes
2	No
98	Not sure
99	Refused

Role
input

believer_confidence - How confident are you that the average temperature on earth is increasing

How confident are you that the average temperature on earth is increasing

QUESTIONNAIRE TEXT: How confident are you that the average temperature on earth is increasing? Are you very confident, fairly confident, not too confident or not confident at all that the average temperature on earth is increasing?

-9	Not asked - not applicable
1	Very confident
2	Fairly confident
3	Not too confident
4	Not confident at all
98	Not sure
99	Refused

Role
input

SKIP PATTERN:
Not asked unless gw_belief=1

believer_cause - Is the earth warming because of human activity or natural patterns

Is the earth warming because of human activity or natural patterns

QUESTIONNAIRE TEXT: Is the earth getting warmer because of human activity such as burning fossil fuels, or mostly because of natural patterns in the earth's environment?

-9	Not asked - not applicable
1	Human activity
2	Natural patterns
3	A combination (volunteered)
98	Not sure
99	Refused

Role
input

SKIP PATTERN:
Not asked unless gw_belief=1

believer_factor_open - Belief factor: primary factor OPEN ENDED

Belief factor: primary factor OPEN ENDED

QUESTIONNAIRE TEXT: What is the primary factor that has caused you to believe that temperatures on earth are increasing?

Type
Text

Role
input

SKIP PATTERN:
Not asked unless gw_belief=1

believer_factor_open_coded - Belief factor: primary factor OPEN ENDED coded

Belief factor: primary factor OPEN ENDED coded

-9	Not asked - not applicable
1	Melting Glaciers
2	Warmer Temps Observed

	3	Weather Change
	4	Scientific Research
	6	Media Coverage
	7	Declining Species
	8	Human Activity
	9	Natural Patterns
	10	Not Sure/Other
	11	Ocean/sea-level rise
	12	Religious factors
	13	Population growth
	14	Growing season/plants

Role
input

SKIP PATTERN:
believer_factor_open was not asked unless gw_belief=1

gw_concern - How concerned are you about the issue of global warming

How concerned are you about the issue of global warming

QUESTIONNAIRE TEXT: How concerned are you about the issue of global warming? Are you very concerned, somewhat concerned, not too concerned, or not concerned at all about the issue of global warming?

	-9	Not asked – not applicable
	1	Very concerned
	2	Somewhat concerned
	3	Not too concerned
	4	Not concerned at all
	98	Not sure
	99	Refused

Role
input

SKIP PATTERN:
gw_concern was not asked unless gw_belief=1

believer_factor_glaciers - Belief factor: Declining glaciers & polar ice

Belief factor: Declining glaciers & polar ice

QUESTIONNAIRE TEXT: Next I would like to read you a list of factors that may or may not have had an effect on your view that the earth is getting warmer.   For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that the earth is getting warmer: Declining glaciers and polar ice throughout the globe

-9	Not asked - not applicable
1	Very large
2	Somewhat large
3	Not too large
4	No effect
98	Not sure
99	Refused

Role
input

CODEBOOK NOTE:
The order in which the believer_factor variables (excluding believer_factor_open) were asked was rotated.

SKIP PATTERN:
Not asked unless gw_belief=1

believer_factor_warmer - Belief factor: warmer temps in your area

Belief factor: warmer temps in your area

QUESTIONNAIRE TEXT: Next I would like to read you a list of factors that may or may not have had an effect on your view that the earth is getting warmer.   For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that the earth is getting warmer:

Warmer temperatures in your area during recent years

-9	Not asked - not applicable
1	Very large
2	Somewhat large
3	Not too large
4	No effect
98	Not sure

99	Refused

Role
input

CODEBOOK NOTE:
The order in which the believer_factor variables (excluding believer_factor_open) were asked was rotated.

SKIP PATTERN:
not asked unless gw_belief=1

believer_factor_hurricane - Belief factor: Strength of US hurricanes

Belief factor: Strength of US hurricanes

QUESTIONNAIRE TEXT: Next I would like to read you a list of factors that may or may not have had an effect on your view that the earth is getting warmer.   For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that the earth is getting warmer: The strength of hurricanes hitting the United States

-9	Not asked - not applicable
1	Very large
2	Somewhat large
3	Not too large
4	No effect
98	Not sure
99	Refused

Role
input

CODEBOOK NOTE:
The order in which the believer_factor variables (excluding believer_factor_open) were asked was rotated.

SKIP PATTERN:
not asked unless gw_belief=1

believer_factor_mildwint - Belief factor: milder winters in your area

Belief factor: milder winters in your area

QUESTIONNAIRE TEXT: Next I would like to read you a list of factors that may or may not have had an effect on your view that the earth is getting warmer.   For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that the earth is getting warmer: Milder winters in your area

-9	Not asked - not applicable
1	Very large
2	Somewhat large
3	Not too large
4	No effect
98	Not sure
99	Refused

Role
input

CODEBOOK NOTE:
The order in which the believer_factor variables (excluding believer_factor_open) were asked was rotated.

SKIP PATTERN:
not asked unless gw_belief=1

believer_factor_droughts - Belief factor: Severe droughts across US

Belief factor: Severe droughts across US

QUESTIONNAIRE TEXT: Next I would like to read you a list of factors that may or may not have had an effect on your view that the earth is getting warmer.   For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that the earth is getting warmer: Severe droughts in areas across the United States

-9	Not asked - not applicable
1	Very large
2	Somewhat large
3	Not too large
4	No effect
98	Not sure
99	Refused

Role
input

CODEBOOK NOTE:
The order in which the believer_factor variables (excluding believer_factor_open) were asked was rotated.

SKIP PATTERN:
not asked unless gw_belief=1

believer_factor_extremes - Belief factor: Extreme weather

Belief factor: Extreme weather

QUESTIONNAIRE TEXT: Next I would like to read you a list of factors that may or may not have had an effect on your view that the earth is getting warmer.   For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that the earth is getting warmer: Extreme weather events such as major storms and floods

-9	Not asked - not applicable
1	Very large
2	Somewhat large
3	Not too large
4	No effect
98	Not sure
99	Refused

Role
input

CODEBOOK NOTE:
The order in which the believer_factor variables (excluding believer_factor_open) were asked was rotated.

SKIP PATTERN:
not asked unless gw_belief=1

nonbeliever_confidence - How confident are you that the average temperature on earth is NOT increasing

How confident are you that the average temperature on earth is NOT increasing

QUESTIONNAIRE TEXT: How confident are you that the average temperatures on earth are NOT increasing?   Are you very confident, fairly confident, not too confident or not confident at all that the average temperature on earth is NOT increasing?

-9	Not asked - not applicable
1	Very confident
2	Fairly confident
3	Not too confident
4	Not confident at all
98	Not sure
99	Refused

Role
input

SKIP PATTERN:
not asked unless gw_belief=2

nonbeliever_factor_open - Nonbelief factor: primary factor OPEN ENDED

Nonbelief factor: primary factor OPEN ENDED

QUESTIONNAIRE TEXT: What is the primary factor that makes you believe that temperatures on earth are not increasing?

Type
Text

Role
input

SKIP PATTERN:
not asked unless gw_belief=2

nonbeliever_factor_open_coded - Nonbelief factor: primary factor OPEN ENDED coded

Nonbelief factor: primary factor OPEN ENDED coded

-9	Not asked - not applicable
1	Personal Observations
2	Natural Patterns
3	Lack of Evidence
5	Evidence Disproves
7	Political Factors
8	No Particular Reason
9	Not Sure/Other

Role
input

SKIP PATTERN:
nonbeliever_factor_open not asked unless gw_belief=2

nonbeliever_factor_weath - Nonbelief factor: Personal observations of weather in area

Nonbelief factor: Personal observations of weather in area

QUESTIONNAIRE TEXT: Next I would like to read you a list of factors that may or may not have had an effect on your view that global warming is NOT occurring.   For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that global warming is not occurring: Your personal observations of weather in your area

-9	Not asked - not applicable
1	Very large
2	Somewhat large
3	Not too large
4	No effect
98	Not sure
99	Refused

Role
input

CODEBOOK NOTE:
The order in which nonbeliever_factor variables (excluding nonbeliever_factor_open) were asked was rotated.

SKIP PATTERN:
not asked unless gw_belief=2

nonbeliever_factor_scievid - Nonbelief factor: Scientific evidence disproves existence of GW

Nonbelief factor: Scientific evidence disproves existence of GW

QUESTIONNAIRE TEXT: Next I would like to read you a list of factors that may or may not have had an effect on your view that global warming is NOT occurring.   For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that global warming is not occurring: Scientific evidence that disproves the existence of global warming.

-9	Not asked - not applicable
1	Very large
2	Somewhat large
3	Not too large
4	No effect
98	Not sure
99	Refused

Role
input

CODEBOOK NOTE:
The order in which nonbeliever_factor variables (excluding nonbeliever_factor_open) were asked was rotated.

SKIP PATTERN:
not asked unless gw_belief=2

nonbeliever_factor_distort - Nonbelief Factor: Reports that scientists distort data about GW

Nonbelief Factor: Reports that scientists distort data about GW

QUESTIONNAIRE TEXT: Next I would like to read you a list of factors that may or may not have had an effect on your view that global warming is NOT occurring.   For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that global warming is not occurring: Reports that climate scientists have distorted data to demonstrate that global warming is occurring.

-9	Not asked - not applicable
1	Very large
2	Somewhat large
3	Not too large
4	No effect
98	Not sure
99	Refused

Role
input

CODEBOOK NOTE:
The order in which nonbeliever_factor variables (excluding nonbeliever_factor_open) were asked was rotated.

SKIP PATTERN:
not asked unless gw_belief=2

govt_nostateaction - If federal govt fails to address GW, it's my state's responsibility to act

If federal govt fails to address GW, it's my state's responsibility to act

QUESTIONNAIRE TEXT: Please identify your level of agreement with the following statement, indicating if you strongly agree, somewhat agree, somewhat disagree, or strongly disagree.   If the federal government fails to address the issue of global warming it is my state's responsibility to address the problem.

1	Strongly agree

2	Somewhat agree
3	Somewhat disagree
4	Strongly disagree
98	Not sure
99	Refused

Role
input

wind_mystate - Support increasing the use of wind energy in your state

Support increasing the use of wind energy in your state

QUESTIONNAIRE TEXT: Now I would like to ask you a few questions about government policy designed to reduce greenhouse gas emissions. For each of the following policy options I read please indicate if you strongly support, somewhat support, somewhat oppose, or strongly oppose your state adopting that policy as a means of reducing emissions? Increasing the use of wind energy in your state.

1	Strongly support
2	Somewhat support
3	Somewhat oppose
4	Strongly oppose
98	Not sure
99	Refused

Role
input

CODEBOOK NOTE:
The order in which wind_mystate and solar_mystate were asked was rotated.

solar_mystate - Support increasing the use of solar energy in your state

Support increasing the use of solar energy in your state

QUESTIONNAIRE TEXT: Now I would like to ask you a few questions about government policy designed to reduce greenhouse gas emissions. For each of the following policy options I read please indicate if you strongly support, somewhat support, somewhat oppose, or strongly oppose your state adopting that policy as a means of reducing emissions? Increasing the use of solar energy in your state.

1	Strongly support
2	Somewhat support
3	Somewhat oppose

4	Strongly oppose
98	Not sure
99	Refused

Role
input

CODEBOOK NOTE:
The order in which wind_mystate and solar_mystate were asked was rotated.

efficiency_mystate - Support requiring increased energy efficiency standards in your state

Support requiring increased energy efficiency standards in your state

QUESTIONNAIRE TEXT: Now I would like to ask you a few questions about government policy designed to reduce greenhouse gas emissions. For each of the following policy options I read please indicate if you strongly support, somewhat support, somewhat oppose, or strongly oppose your state adopting that policy as a means of reducing emissions? Requiring increased energy efficiency standards in your state.

1	Strongly support
2	Somewhat support
3	Somewhat oppose
4	Strongly oppose
98	Not sure
99	Refused

Role
input

CODEBOOK NOTE:
The order in which efficiency_mystate and state_rps_mystate_v2 were asked was rotated.

state_rps_mystate_v2- Support requiring increased use of renewable energy in your state

Support requiring increased use of renewable energy in your state

QUESTIONNAIRE TEXT: Now I would like to ask you a few questions about government policy designed to reduce greenhouse gas emissions. For each of the following policy options I read please indicate if you strongly support, somewhat support, somewhat oppose, or strongly oppose your state adopting that policy as a means of reducing emissions? Requiring a set portion of all electricity to come from renewable energy sources such as wind and solar in your state.

1	Strongly support
2	Somewhat support

3	Somewhat oppose
4	Strongly oppose
98	Not sure
99	Refused

Role
input

CODEBOOK NOTE:
The order in which efficiency_mystate and state_rps_mystate_v2 were asked was rotated.

solar_netmeter - Support for net metering

Support for net metering

QUESTIONNAIRE TEXT: There is a policy that allows homes and businesses with solar panels to sell any extra power they generate back to the electric grid for the same price that the utility charges consumers to buy the electricity.   This policy is called net metering, since these customers' electric meters run both forward and backward.   Would you say you strongly support, somewhat support, somewhat oppose, or strongly oppose this type of policy?

1	Strongly support
2	Somewhat support
3	Somewhat oppose
4	Strongly oppose
98	Not sure
99	Refused

Role
input

vehicle_CAwaiver - Support for allowing California to set stricter standards for vehicle emissions

Support for allowing California to set stricter standards for vehicle emissions

QUESTIONNAIRE TEXT: For the last 50 years, a federal law has given California the ability to set stricter standards for vehicle emissions than those set in Washington, DC.   This has regularly resulted in California's standard becoming the national one over time.   Would you say you strongly support, somewhat support, somewhat oppose, or strongly oppose the policy that allows California to set stricter standards for vehicles?

1	Strongly support
2	Somewhat support
3	Somewhat oppose

4	Strongly oppose
98	Not sure
99	Refused

Role
input

solar_visual - Solar panels produce visual or aesthetic problems.

Solar panels produce visual or aesthetic problems.

QUESTIONNAIRE TEXT: Next I have a few questions about solar panels. For each of the following statements I read, please tell me whether you strongly agree, somewhat agree, somewhat disagree or strongly disagree with the statement. Solar panels produce visual or aesthetic problems.

-9	Not Asked – split sample
1	Strongly agree
2	Somewhat agree
3	Somewhat disagree
4	Strongly disagree
98	Not sure
99	Refused

Role
input

CODEBOOK NOTE:
The order in which solar_visual, solar_jobs, and solar_unreliable were asked was rotated.

CODEBOOK NOTE:
The questions on solar panels and wind turbines were asked as a split sample. Respondents from sample A were asked a series of questions about solar panels, respondents from sample B were asked a series of questions about wind turbines. The variable Version28_30 indicates whether a respondent was asked the questions about solar panels or the questions about wind turbines. Respondents from sample B are coded as -9 "Not asked – split sample" for solar_visual, solar_jobs, and solar_unreliable.

solar_jobs - Solar panels create jobs.

Solar panels create jobs.

QUESTIONNAIRE TEXT: Next I have a few questions about solar panels. For each of the following statements I read, please tell me whether you strongly agree, somewhat agree, somewhat disagree or strongly disagree with the statement. Solar panels create jobs.

-9	Not Asked – split sample
1	Strongly agree
2	Somewhat agree

3	Somewhat disagree
4	Strongly disagree
98	Not sure
99	Refused

Role
input

CODEBOOK NOTE:
The order in which solar_visual, solar_jobs, and solar_unreliable were asked was rotated.

CODEBOOK NOTE:
The questions on solar panels and wind turbines were asked as a split sample. Respondents from sample A were asked a series of questions about solar panels, respondents from sample B were asked a series of questions about wind turbines. The variable Version28_30 indicates whether a respondent was asked the questions about solar panels or the questions about wind turbines. Respondents from sample B are coded as -9 "Not asked – split sample" for solar_visual, solar_jobs, and solar_unreliable.

solar_unreliable - Solar panels are an unreliable source of electricity

Solar panels are an unreliable source of electricity

QUESTIONNAIRE TEXT: Next I have a few questions about solar panels. For each of the following statements I read, please tell me whether you strongly agree, somewhat agree, somewhat disagree or strongly disagree with the statement. Solar panels are an unreliable source of electricity.

-9	Not Asked – split sample
1	Strongly agree
2	Somewhat agree
3	Somewhat disagree
4	Strongly disagree
98	Not sure
99	Refused

Role
input

CODEBOOK NOTE:
The order in which solar_visual, solar_jobs, and solar_unreliable were asked was rotated.

CODEBOOK NOTE:
The questions on solar panels and wind turbines were asked as a split sample. Respondents from sample A were asked a series of questions about solar panels, respondents from sample B were asked a series of questions about wind turbines. The variable Version28_30 indicates whether a respondent was asked the questions about solar panels or the questions about wind turbines. Respondents from sample B are coded as -9 "Not asked – split sample" for solar_visual, solar_jobs, and solar_unreliable.

wind_visual - Wind turbines produce visual or aesthetic problems

Wind turbines produce visual or aesthetic problems

QUESTIONNAIRE TEXT: Next I have a few questions about wind energy.   For each of the following statements I read about the impacts of wind turbines, please tell me whether you strongly agree, somewhat agree, somewhat disagree or strongly disagree with the statement. Wind turbines produce visual or aesthetic problems.

-9	Not Asked – split sample
1	Strongly agree
2	Somewhat agree
3	Somewhat disagree
4	Strongly disagree
98	Not sure
99	Refused

Role
input

CODEBOOK NOTE:
The order in which wind_visual, wind_jobs, and wind_unreliable were asked was rotated.

CODEBOOK NOTE:
The questions on solar panels and wind turbines were asked as a split sample. Respondents from sample A were asked a series of questions about solar panels, respondents from sample B were asked a series of questions about wind turbines. The variable Version28_30 indicates whether a respondent was asked the questions about solar panels or the questions about wind turbines. Respondents from sample A are coded as -9 "Not asked – split sample" for wind_visual, wind_jobs, and wind_unreliable.

wind_jobs - Wind turbines create jobs.

Wind turbines create jobs.

QUESTIONNAIRE TEXT: Next I have a few questions about wind energy.   For each of the following statements I read about the impacts of wind turbines, please tell me whether you strongly agree, somewhat agree, somewhat disagree or strongly disagree with the statement. Wind turbines create jobs.

-9	Not Asked – split sample
1	Strongly agree
2	Somewhat agree
3	Somewhat disagree
4	Strongly disagree
98	Not sure
99	Refused

Role
input

CODEBOOK NOTE:
The order in which wind_visual, wind_jobs, and wind_unreliable were asked was rotated.

CODEBOOK NOTE:
The questions on solar panels and wind turbines were asked as a split sample. Respondents from sample A were asked a series of questions about solar panels, respondents from sample B were asked a series of questions about wind turbines. The variable Version28_30 indicates whether a respondent was asked the questions about solar panels or the questions about wind turbines. Respondents from sample A are coded as -9 "Not asked – split sample" for wind_visual, wind_jobs, and wind_unreliable.

wind_unreliable - Wind turbines are an unreliable source of electricity

Wind turbines are an unreliable source of electricity

QUESTIONNAIRE TEXT: Next I have a few questions about wind energy.   For each of the following statements I read about the impacts of wind turbines, please tell me whether you strongly agree, somewhat agree, somewhat disagree or strongly disagree with the statement. Wind turbines are an unreliable source of electricity.

-9	Not Asked – split sample
1	Strongly agree
2	Somewhat agree
3	Somewhat disagree
4	Strongly disagree
98	Not sure
99	Refused

Role
input

CODEBOOK NOTE:
The order in which wind_visual, wind_jobs, and wind_unreliable were asked was rotated.

CODEBOOK NOTE:
The questions on solar panels and wind turbines were asked as a split sample. Respondents from sample A were asked a series of questions about solar panels, respondents from sample B were asked a series of questions about wind turbines. The variable Version28_30 indicates whether a respondent was asked the questions about solar panels or the questions about wind turbines. Respondents from sample A are coded as -9 "Not asked – split sample" for wind_visual, wind_jobs, and wind_unreliable.

willing2pay_list - How much would you be willing to pay/year for more renewable energy

How much would you be willing to pay/year for more renewable energy

QUESTIONNAIRE TEXT: If it required you to pay extra money each year in order for more renewable energy to be produced, how much would you be willing to pay? Would you be willing to pay…

1	Nothing
2	$1-$50 per year
3	$50-$100 per year
4	$100-$250 per year
5	$250-$500 per year
6	Over $500 per year
98	Not sure
99	Refused

Role
input

demog_race - Race

Race

QUESTIONNAIRE TEXT: Finally a few questions about yourself. Which of the following categories best describes your racial identity?   Are you…

1	White/Caucasian
2	African-American
3	Hispanic
4	Latino
5	Asian
6	Native American
7	Mixed race
8	Other
9	Hispanic/Latino
10	Mixed race and other

Role
input

CODEBOOK NOTE:

In order to protect respondent confidentiality, CLOSUP recoded demog_race as follows:

- 3 "Hispanic" and 4 "Latino" were combined into 9 "Hispanic/Latino"
- 6 "Native American", 7 "Mixed race", and 8 "Other" were combined into 10 "Mixed race and other".

The original values of demog_race are not available to secondary data users.

demog_relig - Religious affiliation

Religious affiliation

QUESTIONNAIRE TEXT: Which of the following categories best describes your religious affiliation?   Are you...

1	Protestant
2	Catholic
3	Jewish
4	Muslim
5	Hindu
6	Other
7	Atheist
98	Not sure
99	Refused

Role
input

demog_relig_evang - Religious affiliation: evangelical Christian

Religious affiliation: evangelical Christian

QUESTIONNAIRE TEXT: Would you describe yourself as an evangelical Christian?

-9	Not asked - not applicable
1	Yes
2	No
98	Not sure
99	Refused

Role
input

SKIP PATTERN:
not asked unless demog_relig=1

demog_edu - Highest level of education

Highest level of education

QUESTIONNAIRE TEXT: What is your highest level of education?

1	Less than HS graduate
2	HS Graduate

3	Some college or technical school
4	College graduate
5	Grad or professional degree
98	Not sure
99	Refused

Role
input

demog_news - Primary source for national & world news

Primary source for national & world news

QUESTIONNAIRE TEXT: Which of the following is your primary source for national and world news?

1	Television
2	Newspapers
3	Talk radio programs
4	Radio news programs
5	The internet
6	Other
98	Not sure
99	Refused

Role
input

demog_polparty - Political party affiliation

Political party affiliation

QUESTIONNAIRE TEXT: Which of the following best describes your political party affiliation?

1	Democrat
2	Republican
3	Other party
4	Independent
98	Not sure
99	Refused

Role
input

demog_polviews - Political beliefs: conservative to liberal

Political beliefs: conservative to liberal

QUESTIONNAIRE TEXT: Which of the following best describes your political beliefs?

	1	Very conservative
	2	Somewhat conservative
	3	Moderate
	4	Somewhat liberal
	5	Very liberal
	98	Not sure
	99	Refused

Role
input

demog_income - Family income

Family income

QUESTIONNAIRE TEXT: Which of the following categories best describes your family income? Is it...

	1	Less than 20,000
	2	20,000-40,000
	3	40,000-60,000
	4	60,000 - 80,000
	5	80,000-100,000
	6	Over 100,000
	98	Not sure
	99	Refused

Role
input

demog_gender - Gender: not asked; assessed by interviewer

Gender: not asked; assessed by interviewer

	1	Male
	2	Female
	98	Not sure
	99	Refused

Role
input

Date_Time - Date and Time

Date and Time

Type
Text

Role
input

TotalWeight – Total Weight

Total Weight

Type

Numeric

Decimal Positions

2

Role
input

CODEBOOK NOTE:

The data has been weighted by age, race, educational attainment, income and gender to reflect population parameters for these factors provided by the United States Census Bureau.

National Surveys on Energy and the Environment (NSEE)

Spring 2017

FINAL INSTRUMENT

Hello. My name is _____ and I'm a student at Muhlenberg College. We are conducting a research project regarding environmental issues in the United States. Would you be able to help us by answering a few questions?

       Yes......................1
       No......................2   (Thank and terminate)
       Not sure............98   (Thank and terminate)
       Refused............99   (Thank and terminate)

Q1. Thank you. In which category does your current age fall? (READ LIST)

       18-34……………………………..1
       35-49……………………………..2
       50-64……………………………..3
       65 and older…………………..4
       Not Sure (Volunteered)…………98
       Refused (Volunteered)……….…99

Q2. What state do you currently reside in?

       (OPEN) _____

Q3. In general how would you describe the overall weather in your area this past winter? Would you say it was:

       A LOT warmer than usual...................................1
       SLIGHTLY warmer than usual...........................2
       SLIGHTLY cooler than usual.............................3
       A LOT cooler than usual....................................4
       Or about the same as usual?..............................5
       Not sure (Volunteered).......................................98
       Refused (Volunteered) 99

Q4. Which of the following best describes the amount of snow your area received this past winter? My area received:

> A LOT more snow than in a usual year........................1
> A LITTLE more snow than in a usual year.................2
> A LITTLE less snow than in a usual year 3
> A LOT less snow than in a usual year.........................4
> About the same amount of snow as a usual year.........5
> Or my area doesn't receive snow 6
> Not sure (Volunteered)..98
> Refused (Volunteered) 99

Q5. Next, I would like to ask you a few questions on the issue of global warming. From what you've read and heard. Is there solid evidence that the average temperature on earth has been getting warmer over the past four decades?

> Yes.. 1
> No 2   (SKIP TO Q16)
> Not Sure (Volunteered) .... 98 (SKIP TO Q21)
> Refused (Volunteered) .... 99 (SKIP TO Q21)

Q6. How confident are you that the average temperature on earth is increasing? Are you very confident, fairly confident, not too confident or not confident at all that the average temperature on earth is increasing?

> Very confident...1
> Fairly confident 2
> Not too confident...3
> Not confident at all..4
> Not Sure (Volunteered) 98
> Refused (Volunteered) 99

Q7. Is the earth getting warmer because of human activity such as burning fossil fuels, or mostly because of natural patterns in the earth's environment?

> Human activity 1
> Natural patterns 2
> A combination (Volunteered)...............................3
> Not Sure (Volunteered) 98
> Refused (Volunteered) 99

Q8. What is the primary factor that has caused you to believe that temperatures on earth are increasing?

> (OPEN)_____

Q9. How concerned are you about the issue of global warming? Are you very concerned, somewhat
        concerned, not too concerned, or not concerned at all about the issue of global warming?

        Very concerned...1
        Somewhat concerned..2
        Not too concerned 3
        Not concerned at all...4
        Not Sure (Volunteered) 98
        Refused (Volunteered) 99

Next I would like to read you a list of factors that may or may not have had an effect on your view that
the earth is getting warmer. For each factor that I mention please indicate if it has had a very large,
somewhat large, not too large, or no effect on your view that the earth is getting warmer. First,
[ROTATED LIST]

	Very Large	Somewhat Large	Not Too Large	No Effect	Not Sure (Volunteered)	Refused (Volunteered)
Q10. Declining glaciers and polar ice throughout the globe	1	2	3	4	98	99
Q11. Warmer temperatures in your area during recent years	1	2	3	4	98	99
Q12. The strength of hurricanes hitting the United States	1	2	3	4	98	99
Q13. Milder winters in your area	1	2	3	4	98	99
Q14. Severe droughts in areas across the United States	1	2	3	4	98	99
Q15. Extreme weather events such as major storms and floods	1	2	3	4	98	99

*******************SKIP TO Q21*********************

ONLY THOSE WHO ANSWERED "NO" IN Q5 (i.e., do not believe temperatures are increasing)

Q16. How confident are you that the average temperatures on earth are NOT increasing? Are you very confident, fairly confident, not too confident or not confident at all that the average temperature on earth is NOT increasing?

Very confident 1
Fairly confident 2
Not too confident...3
Not confident at all 4
Not Sure (Volunteered) 98
Refused (Volunteered) 99

Q17. What is the primary factor that makes you believe that temperatures on earth are not increasing?

(OPEN) _____

Next I would like to read you a list of factors that may or may not have had an effect on your view that global warming is NOT occurring. For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that global warming is NOT occurring. First, **[ROTATED LIST]**

	Very Large	Somewhat Large	Not Too Large	No Effect	Not Sure (Volunteered)	Refused (Volunteered)
Q18. Your personal observations of weather in your area	1	2	3	4	98	99
Q19. Scientific evidence that disproves the existence of global warming	1	2	3	4	98	99
Q20. Reports that climate scientists have distorted data to demonstrate that global warming is occurring	1	2	3	4	98	99

Q21. Please identify your level of agreement with the following statement, indicating if you strongly agree, somewhat agree, somewhat disagree, or strongly disagree.   If the federal government fails to address the issue of global warming it is my state's responsibility to address the problem.

    Strongly Agree 1
    Somewhat Agree 2
    Somewhat Disagree...3
    Strongly Disagree 4
    Not Sure (Volunteered) 98
    Refused (Volunteered) 99

Now I would like to ask you a few questions about government policy designed to reduce greenhouse gas emissions. For each of the following policy options I read please indicate if you strongly support, somewhat support, somewhat oppose, or strongly oppose your state adopting that policy as a means of reducing emissions? First… **[Q22/Q23 ROTATED; Q24/Q25 ROTATED]**

	Strongly Support	Somewhat Support	Somewhat Oppose	Strongly Oppose	Not Sure (Volunteered)	Refused (Volunteered)
Q22. Increasing the use of wind energy in your state.	1	2	3	4	98	99
Q23. Increasing the use of solar energy in your state.	1	2	3	4	98	99

	Strongly Support	Somewhat Support	Somewhat Oppose	Strongly Oppose	Not Sure (Volunteered)	Refused (Volunteered)
Q24. Requiring increased energy efficiency standards in your state.	1	2	3	4	98	99
Q25. Requiring a set portion of all electricity to come from renewable energy sources such as wind and solar in your state.	1	2	3	4	98	99

Q26. There is a policy that allows homes and businesses with solar panels to sell any extra power they generate back to the electric grid for the same price that the utility charges consumers to buy the electricity. This policy is called net metering, since these customers' electric meters run both forward and backward. Would you say you strongly support, somewhat support, somewhat oppose, or strongly oppose this type of policy?

Strongly Support...1
Somewhat Support 2
Somewhat Oppose...3
Strongly Oppose 4
Not Sure (Volunteered) 98
Refused (Volunteered) 99

Q27. For the last 50 years, a federal law has given California the ability to set stricter standards for vehicle emissions than those set in Washington, DC. This has regularly resulted in California's standard becoming the national one over time. Would you say you strongly support, somewhat support, somewhat oppose, or strongly oppose the policy that allows California to set stricter standards for vehicles?

Strongly Support...1
Somewhat Support 2
Somewhat Oppose...3
Strongly Oppose 4
Not Sure (Volunteered) 98
Refused (Volunteered) 99

[SPLIT SAMPLE – Half get sample A (solar panels); half get Sample B (wind turbines)]

Sample A:
Next I have a few questions about solar panels. For each of the following statements I read, please tell me whether you strongly agree, somewhat agree, somewhat disagree or strongly disagree with the statement. **[ROTATED LIST]**

	Strongly Agree	Somewhat Agree	Somewhat Disagree	Strongly Disagree	Not Sure (Volunteered)	Refused (Volunteered)
Q28A. Solar panels produce visual or aesthetic problems.	1	2	3	4	98	99
Q29A. Solar panels create jobs.	1	2	3	4	98	99
Q30A. Solar panels are an unreliable source of electricity.	1	2	3	4	98	99

Sample B:
Next I have a few questions about wind turbines. For each of the following statements I read, please tell me whether you strongly agree, somewhat agree, somewhat disagree or strongly disagree with the statement. **[ROTATED LIST]**

	Strongly Agree	Somewhat Agree	Somewhat Disagree	Strongly Disagree	Not Sure (Volunteered)	Refused (Volunteered)
Q28B. Wind turbines produce visual or aesthetic problems.	1	2	3	4	98	99
Q29B. Wind turbines create jobs.	1	2	3	4	98	99
Q30B. Wind turbines are an unreliable source of electricity.	1	2	3	4	98	99

*******END SPLIT SAMPLE*******

Q31. If it required you to pay extra money each year in order for more renewable energy to be produced, how much would you be willing to pay? Would you be willing to pay… **[READ LIST]**

Nothing each year…………………………1
1 to 50 dollars per year……………………2
50 to 100 dollars a year………………… 3
100 to 250 dollars a year………………….4
250 to 500 dollars a year………………….5
or over 500 dollars a year…………………6
Not sure (Volunteered)……………………98
Refused (Volunteered)…………………….99

Q32. Finally a few questions about yourself. Which of the following categories best describes your racial identity? Are you… **[READ LIST]**

White/Caucasian..1
African-American..2
Hispanic..3
Latino 4
Asian...5
Native American...6
Mixed race...7
Other 8
Not sure (Volunteered).......................................98
Refused (Volunteered) 99

Q33. Which of the following categories best describes your religious affiliation? Are you… **[READ LIST]**

        Protestant 1
        Catholic ....2 (SKIP TO Q35)
        Jewish ....3 (SKIP TO Q35)
        Muslim...4 (SKIP TO Q35)
        Hindu ....5 (SKIP TO Q35)
        Other Religion (Including agnostic)....................6 (SKIP TO Q35)
        or Atheist ....7 (SKIP TO Q35)
        Not sure (Volunteered).......................................98 (SKIP TO Q35)
        Refused (Volunteered) ....99 (SKIP TO Q35)

Q34. Would you describe yourself as an evangelical Christian?

        Yes...1
        No 2
        Not sure (Volunteered).......................................98
        Refused (Volunteered) 99

Q35. What is your highest level of education? **[READ LIST]**

        Less than high school graduate 1
        High school graduate...2
        Some college or technical school 3
        College graduate...4
        Graduate or professional degree.........................5
        Not sure (Volunteered).......................................98
        Refused (Volunteered) 99

Q36. Which of the following is your primary source for national and world news? **[READ LIST]**

        Television 1
        Newspapers 2
        Talk radio programs 3
        Radio news programs 4
        The internet...5
        Other (Volunteered) 6
        Not sure (Volunteered).......................................98
        Refused (Volunteered) 99

Q37. Which of the following best describes your political party affiliation? **[READ LIST]**

Democrat 1
Republican...2
Other party..3
Independent 4
Not sure (Volunteered)......................................98
Refused (Volunteered) 99

Q38. Which of the following best describes your political beliefs? **[READ LIST]**

Very Conservative..1
Somewhat Conservative 2
Moderate...3
Somewhat Liberal...4
Very Liberal 5
Not sure (Volunteered)......................................98
Refused (Volunteered) 99

Q39. Which of the following categories best describes your family income? Is it… **[READ LIST]**

Less than 20,000...1
20,000-40,000..2
40,000-60,000..3
60,000-80,000..4
80,000-100,000..5
Over 100,000 6
Not sure (Volunteered)......................................98
Refused (Volunteered) 99

Q40. Finally, what is the zip code of your current residence?

(Response) _____

Q41. Thank you for your help with the survey. We appreciate your time. **[DO NOT ASK!]**

Male..1
Female 2
Not Sure 98

Center for Local, State, and Urban Policy
UNIVERSITY OF MICHIGAN

The National Surveys on Energy and Environment (NSEE) Preliminary Spring 2017 Data Tables

Survey Methodology	
N	841 (201 Land Line & 640 Cell Phone)
Margin of Error	+/-3.5%
Fielding Dates	April 17, 2017 - May 16, 2017
AAPOR RR3 Response Rate	9%
Data tables below are weighted by Gender, Age, Race, Income, and Education	

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Introduction

Hello. My name is _____ and I'm a student at Muhlenberg College. We are conducting a research project regarding environmental issues in the United States. Would you be able to help us by answering a few questions?

Q1. Thank you. In which category does your current age fall? [READ LIST]

		Total
Thank you. In which category does your current age fall? [READ LIST]	18-29	25%
	30-44	26%
	45-64	28%
	65 and older	21%
	Refused, but stated they are 18 or over	0%
	N	841

Columns may not sum to 100% due to rounding within cells.

Q2. What state do you currently reside in? [CODED INTO REGIONS]

	Total

		Total
What state do you currently reside in? [CODED INTO REGIONS]	Northeast	23%
	South	35%
	Midwest	23%
	West	19%
	N	*841*

Columns may not sum to 100% due to rounding within cells.

Q3. In general how would you describe the overall weather in your area this past winter? Would you say it was:

		Total
In general how would you describe the overall weather in your area this past winter? Would you say it was:	A lot warmer than usual	21%
	Slightly warmer than usual	37%
	Slightly cooler than usual	12%
	A lot cooler than usual	5%
	About the same as usual	23%
	Not Sure (Volunteered)	3%
	N	*841*

Columns may not sum to 100% due to rounding within cells.

Q4. Which of the following best describes the amount of snow your area received this past winter? My area received:

		Total
Which of the following best describes the amount of snow your area received this past winter? My area received:	A lot more snow than usual	5%
	A little more snow than usual	5%
	A little less snow than usual	21%
	A lot less snow than usual	23%
	About the same as usual	15%
	Area does not receive snow	31%
	Not Sure (Volunteered)	2%
	N	*841*

Columns may not sum to 100% due to rounding within cells.

Q5. Next, I would like to ask you a few questions on the issue of global warming. From what you've read and heard. Is there solid evidence that the average temperature on earth has been getting warmer over the past four decades?

		Total
Next, I would like to ask you a few questions on the issue of global warming. From what you've read and heard. Is there solid evidence that the average temperature on earth has been getting warmer over the past four decades?	Yes	70%
	No	19%
	Not Sure (Volunteered)	11%
	N	*837*

Columns may not sum to 100% due to rounding within cells.

Q6. How confident are you that the average temperature on earth is increasing? Are you very confident, fairly confident, not too confident or not confident at all that the average temperature on earth is increasing?

		Total
How confident are you that the average temperature on earth is increasing? Are you very confident, fairly confident, not too confident or not confident at all that the average temperature on earth is increasing? (Among those who said there is solid evidence of global warming)	Very Confident	68%
	Fairly Confident	26%
	Not Too Confident	3%
	Not Confident At All	1%
	Not Sure (Volunteered)	1%
	N	*587*

Columns may not sum to 100% due to rounding within cells.

Q7. Is the earth getting warmer because of human activity such as burning fossil fuels, or mostly because of natural patterns in the earth's environment?

		Total
Is the earth getting warmer because of human activity such as burning fossil fuels, or mostly because of natural patterns in the earth's environment? (Among those who said there is solid evidence of global warming)	Human Activity	44%
	Natural Patterns	17%
	A Combination (Volunteered)	34%
	Not Sure (Volunteered)	4%
	N	*587*

Columns may not sum to 100% due to rounding within cells.

Q8. What is the primary factor that has caused you to believe that temperatures on earth are increasing? [Coded open-end response]

		Total
What is the primary factor that has caused you to believe that temperatures on earth are increasing? (Among those who said there is	Declining Glaciers and Polar Ice	9%

		Total
solid evidence of global warming) [Coded open-end response]	Warmer Temperatures Observed	13%
	Weather Changes	15%
	Scientific Research/Data	15%
	Media Coverage	7%
	Declining Species	0%
	Human Activity	21%
	Natural Patterns	5%
	Ocean / Sea-level Rise	2%
	Religious Factors	<1%
	Population Growth	1%
	Growing Season / Plants	<1%
	Not Sure/Other	11%
	N	587

Columns may not sum to 100% due to rounding within cells.

↑ Back to the Table of Contents

Q9. How concerned are you about the issue of global warming? Are you very concerned, somewhat concerned, not too concerned, or not concerned at all about the issue of global warming?

		Total
How concerned are you about the issue of global warming? Are you very concerned, somewhat concerned, not too concerned, or not concerned at all about the issue of global warming? (Among those who said there is solid evidence of global warming)	Very Concerned	54%
	Somewhat Concerned	32%
	Not Too Concerned	10%
	Not Concerned At All	4%
	Not Sure (Volunteered)	0%
	N	587

Columns may not sum to 100% due to rounding within cells.

↑ Back to the Table of Contents

Q10-15. Next I would like to read you a list of factors that may or may not have had an effect on your view that the earth is getting warmer. For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that the earth is getting warmer. [ROTATED LIST]

		Declining glaciers and polar ice throughout the globe	Warmer temperatures in your area during recent years	The strength of hurricanes hitting the United States	Milder winters in your area	Severe droughts in areas across the United States	Extreme weather events such as major storms and floods
Next I would like to read you a list of factors that may or may not have had an effect on your	Very Large	67%	40%	27%	34%	45%	46%
	Somewhat Large	21%	35%	34%	34%	34%	32%

		Declining glaciers and polar ice throughout the globe	Warmer temperatures in your area during recent years	The strength of hurricanes hitting the United States	Milder winters in your area	Severe droughts in areas across the United States	Extreme weather events such as major storms and floods
view that the earth is getting warmer. For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that the earth is getting warmer." (Among those who said there is solid evidence of global warming) [ROTATED LIST]	Not Too Large	6%	14%	17%	16%	9%	12%
	No Effect	4%	9%	10%	15%	6%	5%
	Not Sure (Volunteered)	2%	2%	11%	1%	6%	5%
	N	587	587	587	587	587	586

Columns may not sum to 100% due to rounding within cells.

Q16. How confident are you that the average temperatures on earth are not increasing? Are you very confident, fairly confident, not too confident, or not confident at all that the average temperature on earth is not increasing?

		Total
How confident are you that the average temperatures on earth are not increasing? Are you very confident, fairly confident, not too confident or not confident at all that the average temperature on earth is not increasing? (Among those who said there is not solid evidence of global warming)	Very Confident	50%
	Fairly Confident	36%
	Not Too Confident	9%
	Not Confident At All	3%
	Not Sure (Volunteered)	2%
	N	156

Columns may not sum to 100% due to rounding within cells.

Q17. What is the primary factor that makes you believe that temperatures on earth are not increasing? [Coded open-end response]

		Total
What is the primary factor that makes you believe that temperatures on earth are not increasing? (Among those who said there is not solid evidence of global warming) [Coded open-end response]	Personal Observations	29%
	Natural Patterns	35%
	Not Enough Evidence	5%
	Media has Misled	2%
	Evidence Disproves	8%
	Religious Factors	4%
	Political Factors	2%
	No Particular Reason	4%

	Total
Not Sure/Other	11%
N	156

Columns may not sum to 100% due to rounding within cells.

Q18-20. Next I would like to read you a list of factors that may or may not have had an effect on your view that global warming is not occurring. For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that global warming is not occurring. [ROTATED LIST]

		Your personal observations of weather in your area	Scientific evidence that disproves the existence of global warming	Reports that climate scientists have distorted data to demonstrate that global warming is occurring
Next I would like to read you a list of factors that may or may not have had an effect on your view that global warming is not occurring. For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that global warming is not occurring. (Among those who said there is not solid evidence of global warming) [ROTATED LIST]	Very Large	27%	20%	28%
	Somewhat Large	27%	29%	28%
	Not Too Large	19%	16%	15%
	No Effect	26%	27%	26%
	Not Sure (Volunteered)	1%	6%	2%
	N	155	156	155

Columns may not sum to 100% due to rounding within cells.

Q21. Please identify your level of agreement with the following statement, indicating if you strongly agree, somewhat agree, somewhat disagree, or strongly disagree. If the federal government fails to address the issue of global warming it is my state's responsibility to address the problem.

		Total
Please identify your level of agreement with the following statement, indicating if you strongly agree, somewhat agree, somewhat disagree, or strongly disagree. If the federal government fails to address the issue of global warming it is my state's responsibility to address the problem.	Strongly Agree	38%
	Somewhat Agree	28%
	Somewhat Disagree	13%
	Strongly Disagree	15%
	Not Sure (Volunteered)	5%
	N	837

Columns may not sum to 100% due to rounding within cells.

Q22-25. Now I would like to ask you a few questions about government policy designed to reduce greenhouse gas emissions. For each of the following policy options I read please indicate if you strongly support, somewhat support, somewhat oppose, or strongly oppose your state adopting that policy as a means of reducing emissions? [ROTATED LIST]

		Increasing the use of wind energy in your state.	Increasing the use of solar energy in your state.	Requiring increased energy efficiency standards in your state.	Requiring a set portion of all electricity to come from renewable energy sources such as wind and solar in your state.
Now I would like to ask you a few questions about government policy designed to reduce greenhouse gas emissions. For each of the following policy options I read please indicate if you strongly support, somewhat support, somewhat oppose, or strongly oppose your state adopting that policy as a means of reducing emissions? [ROTATED LIST]	Strongly Support	58%	67%	52%	50%
	Somewhat Support	25%	22%	29%	29%
	Somewhat Oppose	5%	4%	4%	6%
	Strongly Oppose	6%	4%	8%	10%
	Not Sure (Volunteered)	5%	3%	6%	6%
	N	837	837	837	837

Columns may not sum to 100% due to rounding within cells.

Q26. There is a policy that allows homes and businesses with solar panels to sell any extra power they generate back to the electric grid for the same price that the utility charges consumers to buy the electricity. This policy is called net metering, since these customers' electric meters run both forward and backward. Would you say you strongly support, somewhat support, somewhat oppose, or strongly oppose this type of policy?

		Total
There is a policy that allows homes and businesses with solar panels to sell any extra power they generate back to the electric grid for the same price that the utility charges consumers to buy the electricity. This policy is called net metering, since these customers' electric meters run both forward and backward. Would you say you strongly support, somewhat support, somewhat oppose, or strongly oppose this type of policy?	Strongly Support	49%
	Somewhat Support	27%
	Somewhat Oppose	5%
	Strongly Oppose	6%
	Not Sure (Volunteered)	14%
	N	837

Columns may not sum to 100% due to rounding within cells.

Q27. For the last 50 years, a federal law has given California the ability to set stricter standards for vehicle emissions than those set in Washington, DC. This has regularly resulted in California's standard becoming the national one over time. Would you say you strongly support, somewhat support, somewhat oppose, or strongly oppose the policy that allows California to set stricter standards for vehicles?

		Total
For the last 50 years, a federal law has given California the ability to set stricter standards for vehicle emissions than those set in Washington, DC. This has regularly resulted in California's standard becoming the national one over time. Would you say you strongly support, somewhat support, somewhat oppose, or strongly oppose the policy that allows California to set stricter standards for vehicles?	Strongly Support	31%
	Somewhat Support	25%
	Somewhat Oppose	12%
	Strongly Oppose	18%
	Not Sure (Volunteered)	14%
	N	836

Columns may not sum to 100% due to rounding within cells.

Note: Questions 28-30 were asked as a split sample. Half of respondents were asked Q28A-30A, and half were asked Q28B-30B.

Q28A-30A. Next I have a few questions about solar panels. For each of the following statements I read, please tell me whether you strongly agree, somewhat agree, somewhat disagree or strongly disagree with the statement. [ROTATED LIST]

		Solar panels produce visual or aesthetic problems.	Solar panels create jobs.	Solar panels are an unreliable source of electricity.
Next I have a few questions about solar panels. For each of the following statements I read, please tell me whether you strongly agree, somewhat agree, somewhat disagree or strongly disagree with the statement. (Among the randomly selected sample "A") [ROTATED LIST])	Strongly Agree	9%	45%	8%
	Somewhat Agree	18%	36%	14%
	Somewhat Disagree	28%	5%	25%
	Strongly Disagree	35%	3%	38%
	Not Sure (Volunteered)	10%	11%	16%
	N	422	422	421

Columns may not sum to 100% due to rounding within cells.

Q28B-30B. Next I have a few questions about wind turbines. For each of the following statements I read, please tell me whether you strongly agree, somewhat agree, somewhat disagree or strongly disagree with the statement. [ROTATED LIST]

		Wind turbines produce visual or aesthetic problems.	Wind turbines create jobs.	Wind turbines are an unreliable source of electricity.
Next I have a few questions about wind turbines. For each of the following statements I read, please tell me whether you strongly agree, somewhat agree, somewhat disagree or strongly disagree with the statement. (Among the randomly selected sample "B") [ROTATED LIST])	Strongly Agree	9%	42%	8%
	Somewhat Agree	21%	39%	18%
	Somewhat Disagree	28%	7%	26%
	Strongly Disagree	31%	2%	29%
	Not Sure (Volunteered)	10%	10%	19%
	N	413	413	412

Columns may not sum to 100% due to rounding within cells.

Q31. If it required you to pay extra money each year in order for more renewable energy to be produced, how much would you be willing to pay? Would you be willing to pay… [READ LIST]

		Total
If it required you to pay extra money each year in order for more renewable energy to be produced, how much would you be willing to pay? Would you be willing to pay… [READ LIST]	Nothing each year	34%
	1 to 50 dollars per year	28%

		Total
	50 to 100 dollars a year	18%
	100 to 250 dollars a year	7%
	250 to 500 dollars a year	4%
	Over 500 dollars a year	3%
	Not Sure (Volunteered)	6%
	N	829

Columns may not sum to 100% due to rounding within cells.

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Finally a few questions about yourself.

Q32. Which of the following categories best describes your racial identity? Are you [READ LIST]

		Total
Finally a few questions about yourself. Which of the following categories best describes your racial identity? Are you [READ LIST]	White/Caucasian	61%
	African-American	12%
	Hispanic	13%
	Latino	2%
	Asian	3%
	Native American	2%
	Mixed Race	4%
	Other	3%
	N	817

Columns may not sum to 100% due to rounding within cells.

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Q33. Which of the following categories best describes your religious affiliation? Are you [READ LIST]

		Total
Which of the following categories best describes your religious affiliation? Are you [READ LIST]	Protestant	38%
	Catholic	28%
	Jewish	2%
	Muslim	1%
	Hindu	1%
	Other Religion (Including Agnostic)	25%
	Atheist	4%
	Not Sure (Volunteered)	1%
	N	767

Columns may not sum to 100% due to rounding within cells.

Q34. Would you describe yourself as an evangelical Christian?

		Total
Would you describe yourself as an evangelical Christian? (Among those who identified as Protestant)	Yes	34%
	No	64%
	Not Sure (Volunteered)	2%
	N	289

Columns may not sum to 100% due to rounding within cells.

Q35. What is your highest level of education? [READ LIST]

		Total
What is your highest level of education? [READ LIST]	Less Than High School Graduate	5%
	High School Graduate	29%
	Some College or Technical School	26%
	College Graduate	24%
	Graduate or Professional Degree	17%
	Not Sure (Volunteered)	<1%
	N	830

Columns may not sum to 100% due to rounding within cells.

Q36. Which of the following is your primary source for national and world news? [READ LIST]

		Total
Which of the following is your primary source for national and world news? [READ LIST]	Television	49%
	Newspapers	8%
	Talk Radio Programs	3%
	Radio News Programs	4%
	The Internet	35%
	Other (Volunteered)	2%
	Not Sure (Volunteered)	<1%
	N	828

Columns may not sum to 100% due to rounding within cells.

Q37. Which of the following best describes your political party affiliation? [READ LIST]

Which of the following best describes your political party affiliation? [READ LIST]		Total
	Democrat	36%
	Republican	28%
	Other Party	5%
	Independent	30%
	Not Sure (Volunteered)	2%
	N	778

Columns may not sum to 100% due to rounding within cells.

Q38. Which of the following best describes your political beliefs? [READ LIST]

Which of the following best describes your political beliefs? [READ LIST]		Total
	Very Conservative	11%
	Somewhat Conservative	22%
	Moderate	37%
	Somewhat Liberal	18%
	Very Liberal	9%
	Not Sure (Volunteered)	4%
	N	775

Columns may not sum to 100% due to rounding within cells.

Q39. Which of the following categories best describes your family income? Is it [READ LIST]

Which of the following categories best describes your family income? Is it [READ LIST]		Total
	Less than 20,000	14%
	20,000 - 40,000	19%
	40,000 - 60,000	17%
	60,000 - 80,000	15%
	80,000 - 100,000	10%
	Over 100,000	21%
	Not Sure (Volunteered)	4%
	N	614

Columns may not sum to 100% due to rounding within cells.

Respondent Gender

		Total
Respondent Gender	Male	49%
	Female	51%
	N	841

Columns may not sum to 100% due to rounding within cells.

Thank you for your help with the survey. We appreciate your time.