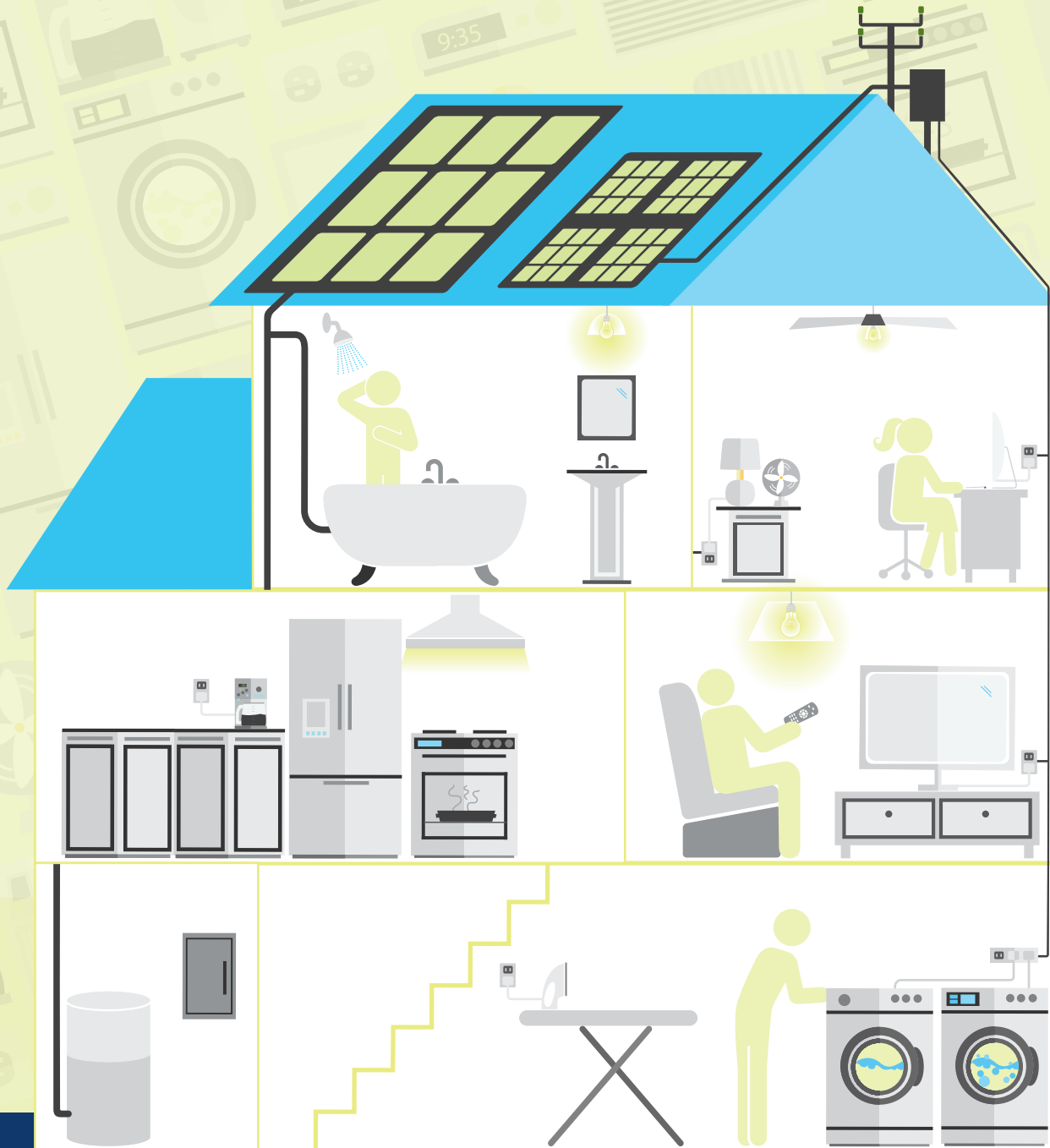


RESIDENTIAL ENERGY CONSUMPTION SURVEY

A Nationwide Study of Energy Use in American Homes

To be completed by the adult who is most knowledgeable about your home.



OMB No. 1905-0092
Expiration date: 07/31/2018

If you have questions about this survey,
please email us at recs@rti.org or
call toll free at 1-866-800-9177.

Para pedir una copia de la versión del cuestionario en
español, por favor llame al 1-866-309-4560.



eia

Independent Statistics & Analysis
U.S. Energy Information
Administration

We hope you enjoy completing this questionnaire, and appreciate greatly your help in understanding how energy gets consumed in people's homes throughout the United States.

YOUR HOME

Please answer the following questions about the home located at the address on the enclosed letter.

1. Which best describes your home?

- 1 Mobile home → **Go to #10**
- 2 Single-family house detached from any other house → **Go to #3**
- 3 Single-family house attached to one or more other houses (for example: duplex, row house, or townhome) → **Go to #3**
- 4 Apartment in a building with 2 to 4 units
- 5 Apartment in a building with 5 or more units

2. Is your apartment located in the basement of your building?

- 1 Yes → **Go to #10**
- 0 No → **Go to #10**

3. Does your home have a basement?

- 1 Yes
- 0 No → **Go to #5**

4. Is any part of your basement finished? For this survey, a "finished" basement has finishing materials on the floor, ceiling, and walls.

- 1 Yes
- 0 No

5. An attic is a space just below the roof of your home where a person can stand up. Does your home have an attic?

- 1 Yes
- 0 No → **Go to #7**

6. Is any part of your attic finished? For this survey, a "finished" attic has finishing materials on the floor, ceiling, and walls.

- 1 Yes
- 0 No

7. Not including basements or attics, how many stories does your home have?

- 1 One story
- 2 Two stories
- 3 Three stories
- 4 Four or more stories
- 5 Split-level

8. Does your home have an attached garage?

- 1 Yes
- 0 No → **Go to #10**

9. What is the size of your attached garage?

- 1 One-car garage
- 2 Two-car garage
- 3 Three-or-more-car garage

10. Is the home located at the address on the enclosed letter your primary residence? Your primary residence is the place where you live most of the year.

- 1 Yes
- 0 No

11. Is your home –

- 1 Owned by you or someone in your household
- 2 Rented
- 3 Occupied without payment of rent

12. When was your home built?

- 1 Before 1950
- 2 1950 to 1959
- 3 1960 to 1969
- 4 1970 to 1979
- 5 1980 to 1989
- 6 1990 to 1999
- 7 2000 to 2009
- 8 2010 to 2016
- 4 Don't know

13. When did your household move in?

- 1 Before 1950
- 2 1950 to 1959
- 3 1960 to 1969
- 4 1970 to 1979
- 5 1980 to 1989
- 6 1990 to 1999
- 7 2000 to 2009
- 8 2010 to 2016

14. During the past year, was your home vacant for one or more months?

- 1 Yes
0 No
-4 Don't know

15. About how many square feet is your home? Your best estimate is fine.

, square feet

16. Which of the following areas are included in your estimate of square footage in Question #15?

A. Basement

- 1 Yes
0 No
-4 Don't know
-3 Not applicable (my home does not have this space)

B. Attic

- 1 Yes
0 No
-4 Don't know
-3 Not applicable (my home does not have this space)

C. Attached garage

- 1 Yes
0 No
-4 Don't know
-3 Not applicable (my home does not have this space)

17. How many of the following types of rooms are in your home? Include rooms in finished basements and finished attics. *If none, please enter "0."*

- Number of bedrooms
- Number of full bathrooms (A full bathroom includes a sink with running water, a toilet, and a bath or shower.)
- Number of half bathrooms (A half bathroom includes a sink with running water and either a toilet, a bath, or a shower.)
- Number of other rooms (Include kitchens, laundry rooms, living or family rooms, home offices, etc. Do not include hallways, closets, or rooms you already counted above.)

18. What type of material is the outside of your home made of? *Select only one.* If more than one material is used, please select the one used the most.

- 1 Brick
2 Wood
3 Siding (aluminum, vinyl, or steel)
4 Stucco
5 Shingle (composition)
6 Stone
7 Concrete or concrete block
9 Other (please specify):

- 4 Don't know

19. What type of material is your home's roof made of? *Select only one.* If more than one material is used, please select the one used the most.

- 1 Ceramic or clay tiles
2 Wood shingles/shakes
3 Metal
4 Slate or synthetic slate
5 Shingles (composition or asphalt)
6 Concrete tiles
9 Other (please specify):

- 4 Don't know

20. Most ceilings are about 8 feet high which is about a foot higher than a standard door. Are any of the ceilings in your home unusually high?

- 1 Yes
0 No

21. How many sliding glass doors does your home have? Count each pair of sliding glass doors as one door. *If none, please enter "0."*

sliding glass doors

22. About how many windows does your home have?

- 1 1 or 2 windows
2 3 to 5 windows
3 6 to 9 windows
4 10 to 15 windows
5 16 to 19 windows
6 20 to 29 windows
7 30 or more windows

- 4 Don't know

23. Not counting storm windows, which best describes the glass in most of the windows in your home?

- 1 Single-pane glass
- 2 Double-pane glass
- 3 Triple-pane glass
- 4 Don't know

24. What frame material is used for most of the windows in your home?

- 1 Wood
- 2 Metal (aluminum)
- 3 Vinyl
- 4 Composite
- 5 Fiberglass
- 9 Other (please specify):

-4 Don't know

25. Which of these best describes the insulation level of your home?

- 1 Well insulated
- 2 Adequately insulated
- 3 Poorly insulated
- 4 Not insulated

26. How often do you or other members of your household find your home too drafty?

- 1 All the time
- 2 Most of the time
- 3 Some of the time
- 4 Never

27. Is natural gas from underground pipes available in your neighborhood?

- 1 Yes
- 0 No
- 4 Don't know

28. Does your home have its own swimming pool?

- 1 Yes
- 0 No → **Go to #31**

29. In the last year, how many months was your swimming pool in use?

 months

30. What fuel is used to heat the water in your swimming pool?

- 0 None, my swimming pool is not heated
- 1 Electricity
- 2 Natural gas from underground pipes
- 3 Propane (bottled gas)
- 4 Fuel oil
- 5 Solar
- 9 Other (please specify):

-4 Don't know

31. Does your home have its own hot tub, spa, or Jacuzzi, other than a bathtub?

- 1 Yes
- 0 No → **Go to #34**

32. In the last year, how many months was your hot tub, spa, or Jacuzzi in use?

 months

33. What fuel is used to heat the water in your hot tub, spa, or Jacuzzi?

- 1 Electricity
- 2 Natural gas from underground pipes
- 3 Propane (bottled gas)
- 4 Fuel oil
- 5 Solar
- 9 Other (please specify):

-4 Don't know

34. Do you or any member of your household park a vehicle within about 20 feet of an electric outlet?

- 1 Yes
- 0 No

35. Do you or any member of your household own or lease a plug-in electric vehicle?

- 1 Yes
- 0 No

APPLIANCES

36. How many refrigerators are plugged-in and turned on in your home? Include refrigerators in basements or garages, even if they are only used occasionally, and also include compact refrigerators and wine chillers. *If none, please enter "0."*

refrigerators → *If you answered "0":
Go to #45*

37. What is the size of your most used refrigerator?

1 Half-size or compact → *Go to #39*

2 Small (17.5 cubic feet or less)

3 Medium (17.6 to 22.5 cubic feet)

4 Large (22.6 to 29.5 cubic feet)

5 Very large (bigger than 29.5 cubic feet)

38. Which of the following best describes your most used refrigerator?

1 One door

2 Two doors, freezer next to the refrigerator

3 Two doors, freezer above the refrigerator

4 Two doors, freezer below the refrigerator

5 Three or more doors

39. About how old is your most used refrigerator? Your best estimate is fine.

1 Less than 2 years old

2 2 to 4 years old

3 5 to 9 years old

4 10 to 14 years old

5 15 to 19 years old


6 20 or more years old

-4 Don't know

40. Does your most used refrigerator have through-the-door ice service?

1 Yes

0 No

 *If you have only one refrigerator,
go to #45*

41. What is the size of your second most used refrigerator?

1 Half-size or compact → *Go to #43*

2 Small (17.5 cubic feet or less)

3 Medium (17.6 to 22.5 cubic feet)

4 Large (22.6 to 29.5 cubic feet)

5 Very large (bigger than 29.5 cubic feet)

42. Which of the following best describes your second most used refrigerator?

1 One door

2 Two doors, freezer next to the refrigerator

3 Two doors, freezer above the refrigerator

4 Two doors, freezer below the refrigerator

5 Three or more doors

43. About how old is your second most used refrigerator? Your best estimate is fine.

1 Less than 2 years old

2 2 to 4 years old

3 5 to 9 years old

4 10 to 14 years old

5 15 to 19 years old

6 20 or more years old

-4 Don't know

44. Where is your second most used refrigerator located?

1 Basement

2 Garage

3 Outside

4 Main floor of house

9 Other (please specify):

45. How many stand-alone freezers are plugged-in and turned on in your home? *If none, please enter "0."*

freezers → *If you answered "0":
Go to #49*

46. Which of the following best describes your most used freezer?

1 Upright

2 Chest

47. What is the size of your most used freezer?

1 Half-size or compact

2 Small (17.5 cubic feet or less)

3 Medium (17.6 to 22.5 cubic feet)

4 Large (22.6 to 29.5 cubic feet)

5 Very large (bigger than 29.5 cubic feet)

48. About how old is your most used freezer? Your best estimate is fine.

1 Less than 2 years old

2 2 to 4 years old

3 5 to 9 years old

4 10 to 14 years old

5 15 to 19 years old

6 20 or more years old

-4 Don't know

49. How many stoves/ranges do you have in your home? A stove has both a cooktop and an oven.



stoves/ranges → *If you answered "0":
Go to #53*

50. What fuel does your most used stove/range use?

- 1 Electricity
- 2 Natural gas from underground pipes
- 3 Propane (bottled gas)
- 9 Other (please specify):

51. In a typical week, about how many times is the cooktop part of your most used stove/range used? *If not used, please enter "0."*

times per week

52. In a typical week, about how many times is the oven part of your most used stove/range used? *If not used, please enter "0."*

times per week

53. How many separate cooktops do you have in your home? Count the entire cooktop, not the number of burners. Do not include cooktops that are attached to an oven.



separate cooktops → *If you answered "0":
Go to #56*

54. What fuel does your most used separate cooktop use?

- 1 Electricity
- 2 Natural gas from underground pipes
- 3 Propane (bottled gas)
- 9 Other (please specify):

55. In a typical week, about how many times is your most used separate cooktop used? *If not used, please enter "0."*

times per week

56. How many separate wall ovens do you have in your home? Do not include wall ovens that are attached to a cooktop.



separate wall ovens → *If you answered "0":
Go to #59*

57. What fuel does your most used separate wall oven use?

- 1 Electricity
- 2 Natural gas from underground pipes
- 3 Propane (bottled gas)
- 9 Other (please specify):

58. In a typical week, about how many times is your most used separate wall oven used? *If not used, please enter "0."*

times per week

59. How many microwaves do you have in your home?

microwaves → *If you answered "0":
Go to #61*

60. In a typical week, about how many times is your microwave used? *If not used, please enter "0."*

times per week

61. Does your household use an outdoor grill?

- 1 Yes, natural gas grill
- 2 Yes, propane grill
- 3 Yes, charcoal grill
- 0 No

62. Which of the categories shown best describes how often hot food is usually cooked in your home?

- 1 Three or more times a day
- 2 Two times a day
- 3 Once a day
- 4 A few times each week
- 5 About once a week
- 6 Less than once a week
- 0 Never

63. Are any of the following small kitchen appliances used at least once a week in your home?

	Yes	No
A. Toaster	1 <input type="checkbox"/>	0 <input type="checkbox"/>
B. Toaster oven	1 <input type="checkbox"/>	0 <input type="checkbox"/>
C. Coffee maker	1 <input type="checkbox"/>	0 <input type="checkbox"/>
D. Crock pot or slow cooker	1 <input type="checkbox"/>	0 <input type="checkbox"/>
E. Food processor	1 <input type="checkbox"/>	0 <input type="checkbox"/>
F. Rice cooker	1 <input type="checkbox"/>	0 <input type="checkbox"/>
G. Blender or juicer	1 <input type="checkbox"/>	0 <input type="checkbox"/>
H. Other (please specify):	1 <input type="checkbox"/>	0 <input type="checkbox"/>

64. Does your household have a dishwasher?

- 1 Yes
- 0 No → **Go to #68**

65. In a typical week, about how many times is your dishwasher used? *If not used, please enter "0."*

times per week

66. Which cycle is used most of the time when running your dishwasher?

- 1 Normal or default cycle without heated dry
- 2 Normal or default cycle with heated dry
- 3 Heavy or "pots and pans" cycle
- 4 Light or delicate cycle
- 5 Energy saver
- 4 Don't know
- 3 Dishwasher not used

67. About how old is your dishwasher? Your best estimate is fine.

- 1 Less than 2 years old
- 2 2 to 4 years old
- 3 5 to 9 years old
- 4 10 to 14 years old
- 5 15 to 19 years old
- 6 20 or more years old
- 4 Don't know

68. Does your household have a clothes washer? Do not include community clothes washers that are located in the basement or laundry room of your apartment building.

- 1 Yes
- 0 No → **Go to #74**

69. Is your clothes washer top loading or front loading?

- 1 Top loading
- 2 Front loading

70. In a typical week, about how many times is your clothes washer used? *If not used, please enter "0."*

times per week

71. What water temperature setting is typically used for the wash cycle of your clothes washer?

- 1 Hot
- 2 Warm
- 3 Cold

72. What water temperature setting is typically used for the rinse cycle of your clothes washer?

- 1 Hot
- 2 Warm
- 3 Cold

73. About how old is your clothes washer? Your best estimate is fine.

- 1 Less than 2 years old
- 2 2 to 4 years old
- 3 5 to 9 years old
- 4 10 to 14 years old
- 5 15 to 19 years old
- 6 20 or more years old
- 4 Don't know

74. Does your household have a clothes dryer? Do not include community clothes dryers that are located in the basement or laundry room of your apartment building.

- 1 Yes
- 0 No → Go to #78

75. What fuel does your clothes dryer use?

- 1 Electricity
- 2 Natural gas from underground pipes
- 3 Propane (bottled gas)
- 4 Don't know

76. In a typical week, about how many times is your clothes dryer used? If not used, please enter "0."

times per week

77. About how old is your clothes dryer? Your best estimate is fine.

- 1 Less than 2 years old
- 2 2 to 4 years old
- 3 5 to 9 years old
- 4 10 to 14 years old
- 5 15 to 19 years old
- 6 20 or more years old
- 4 Don't know

ELECTRONICS

78. How many televisions are used in your home? If none, please enter "0."

televisions → If you answered "0":
Go to #88

79. What is the size of your most used television?

- 1 27 inches or less
- 2 28 to 39 inches
- 3 40 to 59 inches
- 4 60 inches or more

80. What type of display does your most used television have?

- 1 LCD
- 2 Plasma
- 3 LED
- 4 Projection
- 5 Standard tube
- 4 Don't know

81. Thinking about your most used television's use on weekdays, how many hours is it turned on each day? Include the time it is on even if no one is actually watching it.

hours per day

82. Thinking about your most used television's use on weekends, how many hours is it turned on each day? Include the time it is on even if no one is actually watching it.

hours per day



If you have only one television,
go to #87

83. What is the size of your second most used television?

- 1 27 inches or less
- 2 28 to 39 inches
- 3 40 to 59 inches
- 4 60 inches or more

84. What type of display does your second most used television have?

- 1 LCD
- 2 Plasma
- 3 LED
- 4 Projection
- 5 Standard tube
- 4 Don't know

85. Thinking about your second most used television's use on weekdays, how many hours is it turned on each day? Include the time it is on even if no one is actually watching it.

hours per day

86. Thinking about your second most used television's use on weekends, how many hours is it turned on each day? Include the time it is on even if no one is actually watching it.

hours per day

87. How many of each of the following are used in your home? *If none, please enter "0."*

Number of cable or satellite boxes without DVR

Number of cable or satellite boxes with DVR

Number of separate DVRs (for example: TIVO)

Number of video game consoles

Number of DVD or Blu-ray players

Number of VCRs

Number of Internet streaming devices (for example: Apple TV, Google Chromecast, Slingbox, or Roku)

Number of home theater or audio systems

88. How many of each of the following are used in your home? *If none, please enter "0."*

Number of desktop computers

Number of laptop computers

Number of tablet computers or e-readers (for example: iPad or Kindle)

Number of printers, scanners, fax machines, or copiers

Number of "smart" phones (for example, iPhone or Android)

Number of other cellular phones

89. In your home, do you or any members of your household access the Internet?

1 Yes
0 No → *Go to #91*

90. Is a wireless router used in your home for accessing the Internet?

1 Yes
0 No
-4 Don't know

SPACE HEATING

91. Is your home heated during the winter?

1 Yes
2 No, I do not have any heating equipment → *Go to #101*
3 No, I have heating equipment but do not use it → *Go to #101*

92. What is the main type of heating equipment used to provide heat for your home?

1 Central furnace
2 Heat pump
3 Steam or hot water system with radiators or pipes
4 Built-in electric units installed in walls, ceilings, baseboards, or floors
5 Built-in floor/wall pipeless furnace
6 Built-in room heater burning gas, oil, or kerosene
7 Heating stove burning wood, coal, or coke
8 Portable electric heaters
9 Fireplace
99 Other (please specify):

-4 Don't know

93. About how old is your main heating equipment? Your best estimate is fine.

1 Less than 2 years old
2 2 to 4 years old
3 5 to 9 years old
4 10 to 14 years old
5 15 to 19 years old
6 20 or more years old

-4 Don't know

94. What is the main fuel used by this equipment for heating your home?

- 1 Electricity
- 2 Natural gas from underground pipes
- 3 Propane (bottled gas)
- 4 Fuel oil
- 5 Wood
- 9 Other (please specify):

-4 Don't know

95. Does your household use a thermostat to control your main heating equipment?

- 1 Yes
- 0 No → *Go to #97*

96. Is the thermostat that controls your main heating equipment programmable, meaning it can be set to automatically adjust the temperature at certain times?

- 1 Yes
- 0 No
- 4 Don't know

97. Which of the following best describes how your household controls your main heating equipment most of the time?

- 1 Set one temperature and leave it there most of the time
- 2 Manually adjust the temperature at night or when no one is at home
- 3 Program the thermostat to automatically adjust the temperature during the day and night at certain times
- 4 Turn equipment on or off as needed
- 5 Our household does not have control over the equipment
- 9 Other (please specify):

98. The next questions are about the temperature inside your home during the winter. If you have a thermostat, think about where your household sets the temperature for your main heating equipment. If you do not have a thermostat, your best guess about the temperature is fine.

A. During the winter, what is the typical temperature when someone is home during the day?

degrees

-4 Don't know

B. What is the typical temperature when no one is inside your home during the day?

degrees

-4 Don't know

C. What is the typical temperature inside your home at night?

degrees

-4 Don't know

99. In addition to your main heating equipment, does your household also use any of the following as a second source for heating your home? If more than one, select the type most frequently used.

- 0 No other equipment used
- 1 Portable electric heater
- 2 Wood-burning stove
- 3 Natural gas fireplace
- 4 Wood-burning fireplace
- 9 Other (please specify equipment and fuel):

-4 Don't know

100. Which of the following spaces in your home are heated?

A. Basement

- 1 Yes
- 0 No
- 3 Not applicable (my home does not have this space)

B. Attic

- 1 Yes
- 0 No
- 3 Not applicable (my home does not have this space)

C. Attached garage

- 1 Yes
- 0 No
- 3 Not applicable (my home does not have this space)

101. Humidifiers add moisture to the air and are often used in the winter. Is a humidifier used in your home?

- 1 Yes
- 0 No → **Go to #103**

102. In the last year, how many months was the humidifier used?

 months

AIR CONDITIONING

103. Is any air conditioning equipment used in your home?

- 1 Yes
- 0 No → **Go to #116**

104. Do you use a central air conditioning system?

- 1 Yes
- 0 No → **Go to #110**

105. Is your central air conditioning system a heat pump?

- 1 Yes
- 0 No
- 4 Don't know

106. About how old is your central air conditioning system? Your best estimate is fine.

- 1 Less than 2 years old
- 2 2 to 4 years old
- 3 5 to 9 years old
- 4 10 to 14 years old
- 5 15 to 19 years old
- 6 20 or more years old
- 4 Don't know

107. Does your household use a thermostat to control your central air conditioning system?

- 1 Yes
- 0 No → **Go to #109**

108. Is the thermostat that controls your central air conditioning system programmable, meaning it can be set to automatically adjust the temperature at certain times?

- 1 Yes
- 0 No
- 4 Don't know

109. Which of the following best describes how your household controls your central air conditioning system most of the time?

- 1 Set one temperature and leave it there most of the time
- 2 Manually adjust the temperature at night or when no one is at home
- 3 Program the thermostat to automatically adjust the temperature during the day and night at certain times
- 4 Turn equipment on or off as needed
- 5 Our household does not have control over the equipment
- 9 Other (please specify):

110. Do you use individual window, wall, or portable air conditioning units?

- 1 Yes
- 0 No → **Go to #114**

111. How many individual window, wall, or portable air conditioning units do you use in your home?

units

112. About how old is your most used window, wall, or portable air conditioning unit? Your best estimate is fine.

- 1 Less than 2 years old
- 2 2 to 4 years old
- 3 5 to 9 years old
- 4 10 to 14 years old
- 5 15 to 19 years old
- 6 20 or more years old
- 4 Don't know

113. Which best describes how your household controls your most used individual unit most of the time?

- 1 Set one temperature and leave it there most of the time
- 2 Manually adjust the temperature at night or when no one is at home
- 3 Program the thermostat to automatically adjust the temperature during the day and night at certain times
- 4 Turn equipment on or off as needed
- 5 Our household does not have control over the equipment
- 99 Other (please specify):

114. The next questions are about the temperature inside your home during the summer. If you have a thermostat, think about where your household sets the temperature for your air conditioning equipment. If you do not have a thermostat, your best guess about the temperature is fine.

A. During the summer, what is the typical temperature when someone is home during the day?

degrees

-4 Don't know

B. What is the typical temperature when no one is inside your home during the day?

degrees

-4 Don't know

C. What is the typical temperature inside your home at night?

degrees

-4 Don't know

115. Which of the following spaces in your home are air conditioned?

A. Basement

- 1 Yes
- 0 No
- 3 Not applicable (my home does not have this space)

B. Attic

- 1 Yes
- 0 No
- 3 Not applicable (my home does not have this space)

C. Attached garage

- 1 Yes
- 0 No
- 3 Not applicable (my home does not have this space)

116. Is your home cooled using evaporative or swamp coolers?

- 1 Yes
- 0 No

117. How many of the following types of fans does your household use? *If none, please enter "0."*

Number of ceiling fans

Number of floor or window fans

Number of whole house fans

Number of attic fans

118. Dehumidifiers remove moisture from the air and are often used in the summer. Is a dehumidifier used in your home?

Yes

No → **Go to #120**

119. In the last year, how many months was the dehumidifier used?

months

WATER HEATING

120. Where is the main water heating equipment for your home located?

Inside my home or garage

Outside my home/garage (for example: in the basement of an apartment building)

Other (please specify):

121. What is the approximate size of your main water heater?

Small (30 gallons or less)

Medium (31 to 49 gallons)

Large (50 gallons or more)

Tankless or on-demand

Don't know

122. About how old is your main water heater? Your best estimate is fine.

Less than 2 years old

2 to 4 years old

5 to 9 years old

10 to 14 years old

15 to 19 years old

20 or more years old

Don't know

123. What fuel does your main water heater use?

Electricity

Natural gas from underground pipes

Propane (bottled gas)

Fuel oil

Wood

Other (please specify):

Don't know

124. Do you have more than one water heater?

Yes

No → **Go to #126**

125. What fuel does your second water heater use?

Electricity

Natural gas from underground pipes

Propane (bottled gas)

Fuel oil

Wood

Other (please specify):

Don't know

LIGHTING

126. Approximately how many light bulbs are installed inside your home? Include light bulbs in ceiling fixtures and fans, table and floor lamps, as well as those used infrequently, such as in hallways, closets, and garages. For fixtures with multiple bulbs, count each bulb separately.

Fewer than 20 light bulbs

20 to 39 light bulbs

40 to 59 light bulbs

60 to 79 light bulbs

80 or more light bulbs

Don't know

127. How many of the light bulbs inside your home are used at least 4 hours per day?

Light bulbs

128. What portion of the light bulbs inside your home are incandescent bulbs?

- 1 All
- 2 Most
- 3 About half
- 4 Some
- 0 None
- 4 Don't know



129. What portion of the light bulbs inside your home are CFL bulbs?

- 1 All
- 2 Most
- 3 About half
- 4 Some
- 0 None
- 4 Don't know



130. What portion of the light bulbs inside your home are LED bulbs?

- 1 All
- 2 Most
- 3 About half
- 4 Some
- 0 None
- 4 Don't know



131. Are any of the light bulbs inside your home controlled by timers or dimmer switches?

- 1 Yes
- 0 No

132. About how many light bulbs are installed outside your home? For apartments, only include light bulbs connected to your unit.

- 0 None → **Go to #135**
- 1 1 to 4 bulbs
- 2 5 to 9 bulbs
- 3 10 or more bulbs
- 4 Don't know → **Go to #135**

133. Are any of the following types of light bulbs used outside your home?

	Yes	No
A. Incandescent bulbs	1 <input type="checkbox"/>	0 <input type="checkbox"/>
B. CFL bulbs	1 <input type="checkbox"/>	0 <input type="checkbox"/>
C. LED bulbs	1 <input type="checkbox"/>	0 <input type="checkbox"/>
D. Natural gas lights	1 <input type="checkbox"/>	0 <input type="checkbox"/>

134. Are any of the light bulbs outside your home controlled by motion detectors or light sensors?

- 1 Yes
- 0 No

ENERGY PROGRAMS

135. A home energy audit is when a trained professional examines how energy is used in all parts of a home. After examining a home, the energy auditor will provide a list of ways to reduce energy use and save money on energy bills. Has your home had an energy audit?

- 1 Yes
- 0 No → **Go to #137**
- 4 Don't know → **Go to #137**

136. Did your household make any of the changes suggested by the energy auditor?

- 1 Yes
- 0 No

137. Has your household received any of the following energy-related benefits or assistance for this home?

	Yes	No
A. Free or subsidized energy-efficient light bulbs	1 <input type="checkbox"/>	0 <input type="checkbox"/>
B. Free or subsidized home energy audit	1 <input type="checkbox"/>	0 <input type="checkbox"/>
C. Utility or energy supplier rebate for new appliance or equipment	1 <input type="checkbox"/>	0 <input type="checkbox"/>
D. Recycling of old appliance or equipment (for example: a refrigerator)	1 <input type="checkbox"/>	0 <input type="checkbox"/>
E. Tax credit for new appliance or equipment	1 <input type="checkbox"/>	0 <input type="checkbox"/>
G. Other (please specify):	1 <input type="checkbox"/>	0 <input type="checkbox"/>

138. Has your household participated in a home energy assistance program that helps pay energy bills or fix broken equipment?

- 1 Yes
 0 No → Go to #140

139. In which of the following years did your household receive home energy assistance? Please select all that apply.

- 2011
 2012
 2013
 2014
 2015
 Some other year(s)

140. Are any of the following products in your home ENERGY STAR qualified?



	Yes	No
A. Windows	1 <input type="checkbox"/>	0 <input type="checkbox"/>
B. Refrigerator	1 <input type="checkbox"/>	0 <input type="checkbox"/>
C. Freezer	1 <input type="checkbox"/>	0 <input type="checkbox"/>
D. Dishwasher	1 <input type="checkbox"/>	0 <input type="checkbox"/>
E. Clothes washer	1 <input type="checkbox"/>	0 <input type="checkbox"/>
F. Clothes dryer	1 <input type="checkbox"/>	0 <input type="checkbox"/>
G. Water heater	1 <input type="checkbox"/>	0 <input type="checkbox"/>
H. Light bulbs	1 <input type="checkbox"/>	0 <input type="checkbox"/>

141. Does your home have a “smart” or Internet-connected thermostat?

- 1 Yes
 0 No
 -4 Don't know

ENERGY BILLS

142. Which of the following describes who is responsible for paying for the electricity used in this home?

- 1 Household is responsible for paying for all electricity used in this home
 2 All electricity used in this home is included in the rent or condo fee
 3 Some is paid by the household, some is included in the rent or condo fee
 9 Other (please specify):

 -4 Don't know

143. Which of the following describes who is responsible for paying for the natural gas used in this home?

- 1 Household is responsible for paying for all natural gas used in this home
 2 All natural gas used in this home is included in the rent or condo fee
 3 Some is paid by the household, some is included in the rent or condo fee
 9 Other (please specify):

 -4 Don't know
 -3 Do not use natural gas

144. Which of the following describes who is responsible for paying for the propane used in this home?

- 1 Household is responsible for paying for all propane used in this home
 2 All propane used in this home is included in the rent or condo fee
 3 Some is paid by the household, some is included in the rent or condo fee
 9 Other (please specify):

 -4 Don't know
 -3 Do not use propane

145. Which of the following describes who is responsible for paying for the fuel oil used in this home?

- 1 Household is responsible for paying for all fuel oil used in this home
- 2 All fuel oil used in this home is included in the rent or condo fee
- 3 Some is paid by the household, some is included in the rent or condo fee
- 9 Other (please specify):
- 4 Don't know
- 3 Do not use fuel oil

146. Do any of your household energy bills include costs for energy used for non-household purposes, such as farm buildings or machinery, a business or office, or another house or apartment?

- 1 Yes
- 0 No → **Go to #148**

147. Which of your household's energy bills include costs for energy used for non-household purposes? *Please select all that apply.*

- Electricity
- Natural gas from underground pipes
- Propane (bottled gas)
- Fuel oil or kerosene

148. Does your home have a "smart meter," which records electricity usage in short time intervals and automatically transmits it to your utility company?

- 1 Yes
- 0 No → **Go to #151**
- 4 Don't know → **Go to #151**

149. Does your household have access to hourly or daily electricity usage information recorded by your smart meter?

- 1 Yes
- 0 No → **Go to #151**
- 4 Don't know → **Go to #151**

150. Have you or any member of your household ever accessed or viewed this electricity usage data?

- 1 Yes
- 0 No

151. Does your household have a back-up generator that can be used for generating electricity in case of a power outage or emergency?

- 1 Yes
- 0 No

152. Not including back-up generators, does your home have any of these on-site systems that generate electricity? *Please select all that apply.*

- 0 No on-site generation system
- 1 Solar or photovoltaic system
- 2 Small wind turbine
- 3 Combined heat and power system
- 9 Other (please specify):

153. Are there any other fuels used in your home that you have not already answered about? If so, please list the fuel(s) and how it is used.

- Do not use any other fuel

154. Are there any activities occurring in your home that use a lot more energy than would usually be used in a home?

- No high energy-using activities

HOUSEHOLD CHARACTERISTICS

155. What is your sex?

- 1 Female
2 Male

156. What is your age?

years old

157. Which best describes your employment status?

- 1 Employed full-time
2 Employed part-time
3 Not employed/retired

158. What is the highest degree or level of school you have completed?

- 1 Less than high school diploma or GED
2 High school diploma or GED
3 Some college or Associate's degree
4 Bachelor's degree (for example: BA, BS)
5 Master's, Professional, or Doctorate degree (for example: MA, MS, MBA, MD, JD, PhD)

159. Are you Hispanic or Latino?

- 1 Yes
0 No

160. What is your race? *Please select all that apply.*

- White
 Black or African-American
 American Indian or Alaska Native
 Asian
 Native Hawaiian or Other Pacific Islander
 Other (please specify):

161. Including yourself, how many people usually live in this home? Do not include anyone who is just visiting, those away in the military, or children who are away at college.

household members

162. How many members of your household are adults (18 years of age or older)?

adults

163. In a typical week, how many weekdays is someone at home most or all of the day?

- 0 None
1 1 day
2 2 days
3 3 days
4 4 days
5 5 days

164. Including all income sources, which category best describes the total combined income of all household members for the last year, before taxes and deductions?

- 1 Less than \$20,000
2 \$20,000 - \$39,999
3 \$40,000 - \$59,999
4 \$60,000 to \$79,999
5 \$80,000 to \$99,999
6 \$100,000 to \$119,999
7 \$120,000 to \$139,999
8 \$140,000 or more

ENERGY ASSISTANCE

The following questions are about challenges your household may have had paying energy bills or maintaining heating and cooling in your home.

165. In the last year, how many months did your household reduce or forego expenses for basic household necessities, such as medicine or food, in order to pay an energy bill?

- 1 Almost every month
2 Some months
3 1 or 2 months
0 Never

166. In the last year, how many months did your household keep your home at a temperature that you felt was unsafe or unhealthy?

- 1 Almost every month
2 Some months
3 1 or 2 months
0 Never

167. In the last year, how many months did your household receive a disconnection notice, shut off notice, or nondelivery notice for an energy bill?

- 1 Almost every month
- 2 Some months
- 3 1 or 2 months
- 0 Never → **Go to #169**

168. When you received that notice, did your household apply for and receive home energy assistance to help pay your energy bill?

- 1 Yes
- 0 No

169. In the last year, was there ever a time your household was unable to use your main source of heat because any of these events happened? *Please select all that apply.*

- Your heating equipment was broken and you couldn't afford to pay for the repair or replacement
- You couldn't pay for electricity and it was disconnected
- You couldn't pay for natural gas and it was disconnected
- You ran out of fuel oil, propane, kerosene, or wood because you couldn't afford a delivery
- None of these happened → **Go to #172**

170. About how many days was your household without heat?

 days

171. When that happened, did your household apply for and receive home energy assistance to help restore your heating?

- 1 Yes
- 0 No

172. In the last year, did anyone in your household need medical attention because your home was too cold?

- 1 Yes
- 0 No

173. In the last year, was there ever a time your household was unable to use your air conditioner or other cooling equipment because any of these events happened? *Please select all that apply.*

- Your air conditioning equipment or other cooling equipment was broken and you couldn't afford to pay for the repair or replacement
- You couldn't pay for electricity and it was disconnected
- None of these happened → **Go to #176**

174. About how many days was your household without its air conditioner or other cooling equipment?

 days

175. When that happened, did your household apply for and receive home energy assistance to help restore your cooling?

- 1 Yes
- 0 No

176. In the last year, did anyone in your household need medical attention because your home was too hot?

- 1 Yes
- 0 No

ENERGY SUPPLIERS AND USE

177. Does your household receive propane deliveries?

- 1 Yes
- 0 No → **Go to #179**

178. Please provide as much of the following information as you can about your propane deliveries.

a. Tank size:

- 1 Gallons
- 2 Pounds

b. Number of propane deliveries in the past year:

deliveries

c. Total gallons or pounds of propane used in the past year:

¹ Gallons
² Pounds

d. Total cost of propane used in the past year:

\$,

179. Does your household buy propane and bring it home (including cylinder exchange)?

¹ Yes

⁰ No → Go to #181

180. Please provide as much of the following information as you can about the propane you buy and bring home.

a. Tank size:

¹ Gallons
² Pounds

b. Number of times buying propane and bringing it home in the past year:

times

c. Total gallons or pounds of propane used in the past year:

¹ Gallons
² Pounds

d. Total cost of propane used in the past year:

\$,

181. Does your household receive fuel oil or kerosene deliveries?

¹ Yes

⁰ No → Go to #183

182. Please provide as much of the following information as you can about your fuel oil or kerosene deliveries:

a. Tank size:

gallons

b. Number of fuel oil or kerosene deliveries in the past year:

deliveries

c. Total gallons of fuel oil or kerosene used in the past year:

gallons

d. Total cost of fuel oil or kerosene used in the past year:

\$,

183. Does your household use wood for fuel?

¹ Yes

⁰ No → Go to #185

184. Please provide as much of the following information as you can about wood used for fuel:

a. Total amount of wood pellets used in the past year:

¹ 40-pound bags
² Tons

b. Total amount of wood logs, split wood, or scrap used in the past year:

cords

c. Total cost of wood used in the past year:

\$,

Wood is obtained free of charge

185. An important part of this study is to link the information you've provided in this survey to your actual energy use. This will help us learn exactly how much energy your household used in the past year.

Please provide the names of your energy supplier(s) and the account number for each fuel used by your household. Providing your account number ensures we get the correct energy use data.

All data collected as part of the Residential Energy Consumption Survey, including energy use data, is used only for statistical purposes and will remain strictly confidential.

Electricity

Supplier:

Account Number:

Natural Gas

Supplier:

Account Number:

Propane

Supplier:

Account Number:

Fuel Oil or Kerosene

Supplier:

Account Number:

I hereby give permission to this company or companies to provide information about the energy consumption at the home located at the address on the enclosed letter to the U.S. Department of Energy for confidential use in connection with the Residential Energy Consumption Survey.

Initial here:

Thank you for helping us learn how Americans use energy in their homes. We greatly appreciate your help!

If you have any additional thoughts about any of the survey topics or the survey itself, please share them here:

Please return this questionnaire in the enclosed postage-paid return envelope.

If you have questions about this survey, please email or call us.

Email: recs@rti.org

Phone (Toll-Free): 1-866-800-9177.