

Worksheet #1:

Characteristics, Energy Sources and Equipment (*Buildings*)

Commercial Buildings Energy Consumption Survey
Sponsored by the U.S Energy Information Administration
Conducted by NORC

The following are *some* of the topics that will be discussed in the upcoming interview. Having this worksheet completed and available will facilitate and shorten the interview.

Thinking of calendar year 2007, please provide the following for the building listed above.

Box 1. Gross/Total Square Footage of Building

(Both finished and unfinished, including basements, indoor parking levels, hallways, lobbies, stairways, and elevator shafts.)

Year of Construction of Building

(If there have been major additions, provide the year the largest portion of the building was constructed.)

Box 2. Number of Businesses or Organizations in Building

Number of Employees

(The number of employees that work in the building during its *main shift*, the shift when most employees are in the building. Include volunteers; do not include employees who always work outside of the building.)

Box 3. Heating Energy Sources

Which energy sources, if any, were used for heating during 2007?
Check all that apply:

- Electricity
- Natural Gas
- Fuel Oil/Diesel/Kerosene
- Bottled Gas/LPG/Propane
- District Steam
- District Hot Water
- Other (specify)

Which of these was the **main** energy source for heating? (Please circle the energy source used to heat most of the square footage in the building most of the time.)

Box 4. Heating Equipment

Check all that apply:

- Furnaces that heat air directly
- Packaged central units (roof mounted)
- Boilers inside the building to produce steam or hot water
- District steam or hot water piped into the building from outside the building
- Heat pumps for heating
- Individual space heaters
- Some other type

Box 5. Type of Heat Pump Used for Heating (if applicable)

Check all that apply:

Heat Pump System:

- Packaged unit
- Residential type split system
- Individual room heat pump

Source Type:

- Air source
- Ground source or ground water
- Water loop

Box 6. Air Conditioning Energy Sources

Which energy sources, if any, were used for air conditioning during 2007?

Check all that apply:

- Electricity
- Natural Gas
- District Chilled Water
- Other (specify)

Go to Box 7 on the back of this worksheet →

Box 7. Cooling Equipment

Check all that apply:

- Residential-type central air conditioners, other than heat pumps
- Packaged air conditioning units, other than heat pumps
- Central chillers inside the building that chill water for air conditioning
- District chilled water piped into the building from outside the building
- Heat pumps for cooling
- Individual room air conditioners other than heat pumps
- "Swamp coolers" or evaporative coolers
- Some other type

Box 8. Type of Heat Pump Used for Cooling (if applicable)

Check all that apply:

Heat Pump System:

- Packaged unit
- Residential type split system
- Individual room heat pump

Source Type:

- Air source
- Ground source or ground water
- Water loop

Box 9. Ventilation and Distribution Equipment for Heating and Cooling

Indicate all that apply:

- B—heating and cooling
- H—heating only
- C—cooling only

- No mechanical ventilation (outside air) equipment
- Central air-handling unit(s) with outside air system and constant air volume (CAV) control
- Central air-handling unit(s) with outside air system and variable air volume (VAV) control
- Packaged unit(s) with outside air damper
- Through-the-wall packaged units
- Dedicated 100% outside air system
- Hot water/steam radiators
- Fan-coil units
- Stand-alone exhaust fan (relief blower)
- Ceiling fan(s)

Box 10. Water Heating Energy Sources

Which energy sources, if any, were used for water heating during 2007?

Check all that apply:

- Electricity
- Natural Gas
- Fuel Oil/Diesel/Kerosene
- Bottled Gas/LPG/Propane
- Other (specify)

Box 11. Cooking Energy Sources

Which energy sources, if any, were used for cooking during 2007?

Check all that apply:

- Electricity
- Natural Gas
- Fuel Oil/Diesel/Kerosene
- Bottled Gas/LPG/Propane
- Other (specify)

Box 12. Sources for On-Site Electricity Generation

Which energy sources, if any, were used for on-site electricity generation during 2007?

Check all that apply:

- Natural Gas
- Fuel Oil/ Diesel/ Kerosene
- Bottled Gas/ LPG/Propane
- Wood
- Coal
- Solar
- Other (specify)

Box 13. Office Equipment

Check all that apply and indicate number used in the building during 2007:

- | | Number: |
|--|----------------------|
| <input type="checkbox"/> Computers | <input type="text"/> |
| <input type="checkbox"/> Laptop computers | <input type="text"/> |
| <input type="checkbox"/> Dedicated servers | <input type="text"/> |
| <input type="checkbox"/> Printers | <input type="text"/> |
| <input type="checkbox"/> Photocopiers | <input type="text"/> |
| <input type="checkbox"/> Cash registers | <input type="text"/> |

Box 14. Lighting Equipment

Was any of the square footage in this building lit by the following during 2007?

Check all that apply:

- Fluorescent lighting other than compact fluorescent light bulbs
- Compact fluorescent bulbs
- Incandescent bulbs, other than halogen bulbs
- Halogen bulbs
- High intensity discharge (HID) lights, such as high pressure sodium, metal halide, or mercury vapor
- LED (light emitting diode) lights
- Other (specify)