<b>forksheet #1:</b> haracteristics, Energy Sources and quipment (Mall Buildings)
<b>Commercial Buildings Energy Consumption Survey</b>
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 strip mall building listed above.			
Box 1. Gross/Total Square Footage of Mall Building	Box 2. Number of Businesses or Organizations in Mall Building	Box 3. Heating Energy Sources	
		Which energy sources, if any, were used for heating during 2007? Check all that apply:	
(Both finished and unfinished, including basements, indoor parking levels, hallways, lobbies, stairways, and elevator shafts.)  Year of Construction of Building		Electricity Natural Gas Fuel Oil/Diesel/Kerosene Bottled Gas/LPG/Propane District Steam District Hot Water Other (specify)	
(If there have been major additions, provide the year the largest portion of the mall building was constructed.)		Which of these was the <b>main</b> energy source for heating? (Please circle the energy source used to heat most of the square footage in the mall building most of the time.)	
Box 4. Heating Equipment Check all that apply:	Box 5. Type of Heat Pump Used for Heating (if applicable)	Box 6. Air Conditioning Energy Sources	
Furnaces that heat air directly Packaged central units (roof mounted)	Check all that apply:  Heat Pump System:  Packaged unit	Which energy sources, if any, were used for air conditioning during 2007?  Check all that apply:	
Boilers inside the building to produce steam or hot water  District steam or hot water piped into the building from outside the	Residential type split system Individual room heat pump Source Type:	Electricity  Natural Gas  District Chilled Water	
building  Heat pumps for heating  Individual space heaters  Some other type	Air source Ground source or ground water Water loop	Other (specify)	
If more than one, circle the one that heated the most square footage in the mall building.		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  If more than one, circle the one that cooled the most square footage in the building.	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
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)	Hot water/steam radiators Fan-coil units Stand-alone exhaust fan (relief blower) Ceiling fan(s)
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)		