

Individual Room Energy Survey

Use the Excel Spreadsheet to collect data on each room used in your investigation. Use a new sheet (found along the bottom) for each room. You may change the name of the sheet by right clicking on the sheet, clicking Rename, and typing in the new name.

For example, if the first room that you collect data on is Mrs. Ray's 4th grade classroom, you could Rename Sheet1 as "Mrs. Ray's room" or "4th Grade Room".

If you plan to collect data on more than 19 rooms, please contact Jennifer Swerczek at jlswerc@nppd.com.

The last sheet (found to the right of Sheet19) is named "Data Collection". This sheet will keep a running total of all the data you enter in each individual sheet. This will help you when you are ready for the next section

Instructions

A - Quantity: Record the number of each device found in the room

B - Average watts used: Many devices will have a label indicating how much power they use, which often can be found on the back or base or on the power cord. If available, use a watt meter to see how much electricity the devices actually use. Electricity is measured in units of power called watts. The amount of electricity used over a period of time is measured in kilowatt-hours (kWh), which is the energy required to power a 1,000-watt device for 1 hour.

C - Hours used per day: Record the typical number of hours that the device is used each day.

D - Energy used (kWh): Calculate the amount of energy the device uses by multiplying the hours used per day times the average watts used.

E - Energy Star: Many devices have an Energy Star label indicating that they have been certified as energy conserving. Look for the Energy Star label on each device. Count and record the number with labels.