P4460 KILL A WATT EZ™ Meter

Congratulations! You are now the proud renter of a KILL A WATT EZ™ watt meter. Obtaining your watt meter is the first step towards becoming more aware of the energy you consumer on a daily basis.

Why should you care about your personal energy use?

✓ Penn State campuses consume a combined 300 million kilowatt hours (kWh) of electricity annually. This is the equivalent of the amount of electricity used by over 23,000 homes per year.

✓ The majority of Penn State's electricity is generated from coal.

✓ University Park energy consumption accounts for approximately 80% of the total energy consumption from all campuses.

✓ Although there have been reductions in energy usage, electricity costs for the University nearly doubled from the 2008 to 2009 rate due to the phase out of rate caps. Penn State's electricity bill totals $2 million each month.

As a part of the Penn State community, we are all affected by these costs, as well as the environmental costs of intensive energy consumption from fossil fuels.

What exactly is a watt meter?

A watt meter is a device that enables consumers to read directly how much power appliances are consuming. The P4460 KILL A WATT EZ™ meter is a consumer power consumption meter that allows users to measure power consumption of appliances and determine the actual cost of power consumed. This watt meter calculates total energy and cost, and also saves data when the unit is unplugged.

Watt meters can be borrowed from the Penn State University Libraries by visiting **http://tinyurl.com/PSULwattmeters**.

Operating Instructions

Step One:
Plug your watt meter into an electrical outlet. Then plug the appliance you wish to monitor into the face of the watt meter.

Step Two:
Program the price you pay for electricity into the watt meter by following these instructions:

• Press and hold the **RESET** button until "rEST" appears on the LCD screen. Release the **RESET** button. This indicates that previous recorded measurements have been erased and rest to zero.

• Press the pink **SET** button and hold it down until the price screen appears. You will see a dollar sign and a flashing three-digit decimal number. This screen is where you will program the price you pay for electricity.

• Use the **UP** and **DOWN** buttons to program the price you pay for electricity per kWh. Currently, Penn State pays approximately $.085/ kWh and the average price of electricity for residential consumers in PA is $.1234/ kWh.

• Press the **SET** key again. The word "SAVE" will appear on the screen and your electricity price will be saved. *(Visit* ***http://www.eia.doe.gov/electricity/ep m/table5_6_b.html*** *for a list of average electricity prices across all 50 states.)*

Step Three:
Press the **MENU** button until the cost screen appears. The initial number that appears is the total cumulative cost you have generated since plugging in the appliance. Pressing the UP and DOWN buttons will show you the different cost projections based on different time periods (hour, week, month, year).

If you continue to press the menu key, you will come across a screen with the following labels:

- **Rate –** the price of electricity you programmed into the meter using the directions provided.

- **kWh –** the total kilowatt hours of electricity that have been consumed since the watt meter was last reset. (Note: unplugging the watt meter will not erase recorded data.)

- **Elapsed time –** the amount of time that the watt meter has been plugged into an electrical outlet since the last time it was reset (read in hour: minutes).

- **Volt –** the voltage of household electrical outlets in the United State is 120 V (when you plug in your watt meter into an electric outlet, the volt reading will be a number very close to 120.)

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For more information, please visit:
http://sustainability.psu.edu/watt-meters

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