

Worksheet

Energy Use



KILL-A-WATT METER

Before you begin: Plug the Kill-A-Watt meter into any standard outlet, then plug in an appliance. Leave the appliance plugged into the meter for at least an hour to get a reading. For appliances that cycle on and off, such as refrigerators or cable boxes, leave the meter plugged in at least overnight.

1. While the meter is plugged in, press the pink button marked "KWH" (on the far right) once to display the kilowatt hours used since the meter began recording. Enter this number in Column A.
2. While the meter is still plugged in, press the pink KWH button again to display the number of hours the meter has been recording. Enter this number in Column B.
3. Divide Column A by the number in Column B to determine the average kWh for one hour. Enter the result in Column C.
4. Check your utility bill for the most recent rate of electricity and distribution charges for your residence. Enter this number in Column D.
5. Multiply Column C by the number in Column D to determine the cost per hour to operate the appliance. Enter the result in Column E.
6. Enter the number of hours you operate the appliance per day in Column F.
7. Multiply Column E by the number in Column F to determine your cost per day to operate. Enter the result in Column G. Use this number to calculate your cost per week ($\times 7$), per month ($\times 30$) or per year ($\times 365$).

Appliance	A kWh recorded from Kill-A-Watt	÷ B Hours recorded from Kill-A-Watt	= C Average kWh for one hour	x D Cost per kWh	= E Cost per hour to operate	x F Hours operated per day	= G Cost per day to operate
<i>Example: 60 watt bulb</i>	.60	10	.06	.08 *	.0048	10	\$.048
Lamp with incandescent bulb							
Lamp with compact fluorescent bulb							
Cell phone charger							
Stereo							
Television							
DVD player							
Cable box/satellite receiver							
Video game system							
Computer							
Modem or router							
Printer							
Refrigerator							
Microwave							
Toaster							
Coffee maker							
Window A/C unit							
Fan							
Space heater							

* .08 is an example. Rates will vary depending on the rate of electricity and distribution charges for your home.



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