

D-Lab

Energy Worksheet

Due: October 9, 2009

Determine your average daily energy consumption (in kWh). For this assignment, you can take into account only the electricity that you use, though you should be aware that there are additional energy expenditures in terms of transportation, heating, manufacturing processes to make the products that you use, etc. You should submit this as a table showing your energy consumption (power x time) for a few days and then come up with an average value.

Some values that might be useful:

incandescent lights	60 - 150 W (per bulb)
fluorescent lights	15 W (per tube)
laptop computer	20 - 40 W
desktop computer	150 - 200 W
walkman stereo	1 - 2 W
stereo system	20 - 50 W
water heater	1,500 - 2,000 W
dishwasher	1,500 - 2,000 W (includes heating the water)
washing machine	600 - 1,000 W (includes heating the water)
dryer	4,000 - 6,000 W
air conditioner	4,000 - 6,000 W
oven	8,000 - 12,000 W
microwave	750 - 1200 W
refrigerator	500 W
telephone	2 - 5 W
television	80 - 100 W
vcr	20 - 50 W
hair dryer	1000 - 1500 W

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