

COUNT YOUR WATTS

First, check off the electric appliances you use in your home.

Second, next to each appliance write down the number of hours you (and your family and friends) use the appliance. For a more accurate picture or if an appliance is not listed below, look on the back of the appliance.

In the future you can use this knowledge when you go shopping. After this experiment you might like the idea of an old fashioned hand-cranked egg beater.

How many hours per day do you use each appliance? <u>Figure here.</u>		<u>TOTAL</u>
<input type="checkbox"/> AC		
<input type="checkbox"/> 7000 BTU	1000 (2200 to start)	
<input type="checkbox"/> 10,000	1500 (5000 to start)	
<input type="checkbox"/> blender	300	
<input type="checkbox"/> CD player	35	
<input type="checkbox"/> ceiling fan	65 – 175 watts	
<input type="checkbox"/> clock radio	50	
<input type="checkbox"/> coffee maker		
<input type="checkbox"/> 4 cup	650	
<input type="checkbox"/> 10 cup	1200	
<input type="checkbox"/> grinder	100	
<input type="checkbox"/> computer, desktop		
<input type="checkbox"/> CPU	120 awake, > 30 asleep	
<input type="checkbox"/> monitor	150 awake, > 30 asleep	
<input type="checkbox"/> printer	60 – 75	
<input type="checkbox"/> computer, laptop	50 – 75	
<input type="checkbox"/> cook pot	900 – 1300	
<input type="checkbox"/> cook top range	800 – 8000	
<input type="checkbox"/> dehumidifier	785	
<input type="checkbox"/> dishwasher	1200 – 2400 (dryer)	
<input type="checkbox"/> disposal	750 – 1300	
<input type="checkbox"/> DVD player	35	
<input type="checkbox"/> electric kettle	1500	
<input type="checkbox"/> electric fry pan	1200	
<input type="checkbox"/> electric grill	1300	
<input type="checkbox"/> food processor	500 – 900	
<input type="checkbox"/> furnace blower	750 – 1200	
<input type="checkbox"/> game console	100	
<input type="checkbox"/> hair dryer	900 – 1875	
<input type="checkbox"/> hair straightener	170 – 200	
<input type="checkbox"/> hot plate	1200	
<input type="checkbox"/> humidifier	800 to start, 400 to run	
<input type="checkbox"/> induction cook top	1300	

___ instant hot water	500 (on sink)
___ iron	1000 – 1800
___ juicer	30 - 250
___ microwave oven	1100 – 2000
___ mini chopper	70 – 260
___ oven	4400
___ refrigerator + '93	600 – 725
___ freezer	500 – 800
___ rice cooker	700 – 1500
___ stand mixer	1000
___ stereo	30 – 100
___ satellite dish	30 +
___ space heater	750 – 1500
___ sump pump	1300 – 4100
___ table fan	230
___ tankless hot water	1200 – 9000
___ tea machine	1500
___ televisions	
___ 12" b & w	30
___ 19"	160
___ 27"	113
___ 36"	133
___ 53" – 61"	170
___ Flat screen	120
___ toaster	800 – 1400
___ toaster oven	1225
___ VCR	40 – 60
___ vacuum	300 – 1440
___ video games	30 – 165
___ waffle iron	1200
___ warming tray	300
___ washer	920
___ water heater (40 gal.)	4500 – 5500
___ water bed	120 – 380
___ well pump	1400 – 4000
___ whole house fan	240 – 750

Figure 10 – 20% extra!

5% for phantom loads (warm chargers): TV, toothbrush,
cell phone, portable phone, computer speakers, etc.

15% for lighting

TOTAL OF ALL WATTS USED: _____

PLUS TOOLS:

Most electric tools draw between 240 watts for a small drill or jig saw up to 1800 watts for a 8 _" circular saw.

Motors when they start up use 3 to 7 times more watts in the first second than when they are running. There are two technologies that help with motors: 1) variable speed motors, 2) a device to "clean" your electricity where it comes into the building. Whole house air conditioning systems can be installed that run on super low a lot of the time. You may want to become acquainted with variable speed motors and motors that have no friction magnets. Look for these in new machinery.

The volume level coming from a stereo, TV or musical amplifier uses very different amounts of electricity. My young friend says "Play acoustic."

Always check your water heater temperature and set it as low as you can. Going away? Turn it way down.