

# Calculate Your Energy Usage at Home



Cactus Moon Education, LLC.  
Understanding Green Technologies

Appliance	Volts	X	Amps	=	Watts	X	Hours/day	=	Watt-Hours
Dishwasher		X		=		X		=	
Refrigerator		X		=		X		=	
Coffee-Maker		X		=		X		=	
Microwave		X		=		X		=	
Toaster		X		=		X		=	
Television		X		=		X		=	
DVD Player		X		=		X		=	
Wii		X		=		X		=	
X-Box		X		=		X		=	
Satellite Dish		X		=		X		=	
Vacuum Cleaner		X		=		X		=	
Ceiling Fan		X		=		X		=	
Hair Dryer		X		=		X		=	
Curling Iron		X		=		X		=	
Computer		X		=		X		=	
Printer		X		=		X		=	
Monitor		X		=		X		=	
Cell Phone Charger		X		=		X		=	
Air Conditioner		X		=		X		=	
Light Bulbs		X		=		X		=	
		X		=		X		=	
		X		=		X		=	
		X		=		X		=	
		X		=		X		=	

Each electrical appliance in your home uses electricity. There should be a label on the appliance that tells you how many Watts it uses. If the label doesn't show the number of Watts it may show you the number of Volts and Amps. You can calculate the Watts by multiplying the Volts by the Amps. Then put in how many hours the appliance is used per day. Multiply the Watts by the hours and you will get the Watt-hours. Once you have your total Watt hours, divide that total by 1000 to give you your total kiloWatt hours (kWh).

Example: If your microwave uses 1200 Watts, and you use it for 2 hours per day, the energy consumption will be  $1200 \times 2 = 2,400$  Watt-hours or 2.4 kWh

To calculate your light bulb usage, check the Watts on the light bulbs and estimate how many lights you have on, and for how many hours.

Extra rows are added so you can list additional energy users.

Trivia – Did you know that the word “Watt” is the last name of the man (James Watt) who invented the Steam engine that Thomas Edison used to generate electricity?