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## System Sizing Worksheet

The first step to sizing your solar electric system is to determine your average daily power consumption (expressed in watt hours per day). By using the following worksheet you can keep track of each appliance and light you use, and the amount of time you use it. Remember, be as accurate as possible, and consider ways you can conserve power. The number you arrive at will determine the size system you will need. If you have any difficulties with this worksheet, or want some design assistance, please [send us your worksheet](#). We will contact you as soon as we receive your worksheet and contact information.

1. Choose the appliances you use in the spaces provided. If you use one that is not listed, enter it in the spaces provided.

2. In the second column enter the watt usage of each appliance. Most appliances have a power tag on the back with this information, if there isn't one, use the estimates provided on our [power usage](#) chart. A useful formula for this step is:

**Amps x Volts = Watts.**

3. In the third column write the number of hours per week that each appliance and light will be used. For lights, add up the number of hours each type of bulb is on. For example, if you have two 60W bulbs on 3 hours each day, write down 42 hours. Remember that some appliances are only used for a few minutes at a time, such as garage door openers or microwaves. Also, keep in mind that some appliances will be used more or less according to the season (ex: fans). Generally, we size a system according to winter usage, as during the summer months increased power usage is usually offset by an increase in the number of peak sunlight hours. This means you should only include either your heating source OR your cooling source in your calculation, as it is unusual to have both heating and cooling running at the same time.

4. Multiply the wattage of the appliance times the hour per week it is used. This gives you the total amount of power that particular appliance uses.

### Daily Watt Hours Calculator

Appliances Used	Watts	X	Hrs/Wk	=	WH/Wk
Blender	300	X		=	
CD Player	35	X		=	
Ceiling Fan	40	X		=	
Coffee Maker	1000	X		=	
Computer	170	X		=	
Dishwasher	1400	X		=	
Dryer (gas)	350	X		=	
Evaporative Cooler	600	X		=	
Furnace Blower	700	X		=	
Garage Door Opener	350	X		=	
Garbage Disposal	450	X		=	
Hair Dryer	1200	X		=	

