

Energy Requirements Estimation Sheet

In order to select an appropriate energy system for your requirements, it is necessary to calculate your average daily electricity consumption in watt-hours. Energy = power multiplied by time, so follow these simple steps :

Step one

Obtain the power rating (in watts) of each light and appliance that you wish to use (normally found on the name plate) and record in column one. If the appliance is only rated in amps, then multiply the amps by the mains voltage to find watts.

Step two

Carefully estimate the daily running time of each light and appliance in hours and record in column two. Be realistic, but remember, this is the bottom line as far as the size and cost of your energy system is concerned. Note : Refrigerators and freezers have a compressor running time of between 30 and 70% depending on the ambient temperature and the thermostat setting

Step three

Multiply the figures in columns one and two together and total the resulting watt-hours.

Lighting

Location	Wattage	Daily Hrs	Watt Hrs
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Location	Wattage	Daily Hrs	Watt Hrs
Kitchen			
Family Room			
Lounge			
Hallway			
Bedroom1			
Bedroom2			
Bedroom3			
Bathroom			
Toilet			
Laundry			
Workshop			
Exterior			
Other			
Total Daily Lighting Load			

Appliances

Appliance **Wattage** **Daily Hrs** **Watt Hrs**

Refrigerator			
Freezer			
Microwave			
Blender			
Washer			
Steam Iron			
Sewing Machine			
Vacuum			
Television			
Video			
Stereo			
Computer			
Power Tools			
Pressure Pump			
Other			
Total Daily Appliance Load			

Add the lighting and appliance totals together _____

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