

POWER CONSUMPTION ASSESSMENT

To enable us to estimate the power required for your proposed or existing power system, we need to know what appliances, equipment or lighting you wish to use, and how long you would use them on a daily or weekly basis. In addition we also need to know the power consumption for each of these items. Most electrical equipment has a stamp or a plate (usually underneath or on the back of the unit) showing its power specifications. This information is generally shown as wattage (W), but may also be written as amperage (A) or volt-amps (VA).

Please fill out the table below with your intended energy usage. Try to be as thorough as possible because our quotation can only be as accurate as these figures.

Name: _____

Telephone: _____

Postal Address: _____

System Address: _____

Location	Power Typical (Watts)	Power Yours (Watts)	Qty	Average hours Per day Typical	Average hours Per day Yours	Total energy use Typical (Watts)	Total energy use Yours (Watts)
KITCHEN							
Lighting	36			1		36	
Refrigerator	1500			Per/24 hour		1500	
Toaster	1500			0.15		225	
Microwave	1200			0.25		300	
Other							
Dining Room							
Lighting	18			1		18	
Other							
Lounge							
Lighting	36			5		180	
Television	100			3		300	
VCR/DVD	40			0.3		12	
Sound System / Radio	30			3		90	
Computer: Laptop or Desktop, printer etc	250			1		250	
Vacuum cleaner	1000			0.3		300	
Other							
Laundry							
Lighting	18			0.07		1.26	
Washing Machine	500			0.3		150	
Clothes Dryer	2400			0.16		333	
Iron	1500			0.3		450	
Pressure pump	350			0.5		175	
Other							
Peak Watts	10,478.00			Watt Hours	per day	4,320.26	

Location						
Garage						
Lighting	36			0.07		2.52
Other						
Other						
Other						
Study						
Lighting	18			1		18
Other						
Bedroom 1						
Lighting	18			1		18
Other						
Bedroom 2						
Lighting	18			1		18
Other						
Bedroom 3						
Lighting	18			1		18
Other						
Bathroom						
Lighting	18			1		18
Other						
Peak watts	10,604.00			Watt Hours	per day	4412.78

Do you have mains connection Y N
 Distance to nearest mains point
 Quote for mains connection Y N
 Do you own a petrol or diesel generator Y N

The completed table above allows us to design a power system to your specific needs; all lighting is based around 9watt low energy lamps. Alternatives to electricity need to found for home heating, hot water and cooking food. Once these large loads are accounted for all other appliances which may have to be purchased should be of low power consumption.

Where average daily use does not constitute a full hour, then a partial hour must be calculated, this is achieved by the dividing the minutes by 60.

For example: laundry lights at 20 watts used for 4 minutes per day would be $4/60 = 0.07$
 $0.07 \times 20 = 1.4$ watts.

Please do not hesitate to contact us for further information or assistance.

Sunshine Coast Solar Centre Team