

# APPLIANCE USE TABLE

NAME.....TELEPHONE.....

ADDRESS.....

Do you have mains connection? YES  NO

Distance to nearest mains point..... Quote for mains connection..\$......

Do you have a petrol or diesel generator? YES  NO

What is your preferred system?  SOLAR  WIND  MICRO HYDRO  HYBRID

APPLIANCE	POWER CONSUMPTION		QTY	AVERAGE HOURS PER DAY		TOTAL ENERGY USE	
	TYPICAL	YOURS		TYPICAL	YOURS	TYPICAL	YOURS
<b>KITCHEN</b>							
Lights	20			1		20	
Vestfrost Fridge/Frzer	1000			Per/24 hr		1000	
Microwave	1200			0.25		300	
Toaster	1500			0.15		225	
Other						0	
<b>LAUNDRY</b>							
Lights	20			0.07		1.4	
Iron	1500			0.3		450	
Washing Machine	500			0.3		150	
Dryer	2000			0.3		600	
Sewing Machine	150			0.07		10.5	
Water Pumps	350			0.5		175	
Other						0	
<b>LOUNGE</b>							
Lights	20			5		100	
Television	80			3		240	
Video Recorder	40			0.3		12	
Stereo	30			3		90	
Radio	10			3		30	
Vacuum Cleaner	1000			0.3		300	
Other						0	
<b>BEDROOM 1</b>							
Lights	20			1		20	
Other						0	
<b>BEDROOM 2</b>							
Lights	20			1		20	
Other						0	
<b>BEDROOM 3</b>							
Lights	20			1		20	
Other						0	
<b>BATHROOM</b>							
Lights	20			1		20	
Other						0	
<b>GARAGE</b>							
Lights	20			0.3		6	
Power Tools	400			0.3		120	
Other						0	
<b>PEAK WATTS</b>	9080			<b>WATT HOURS/ DAY</b>		3909.9	

# Explaining Appliance use table/Remote Area Power calculation

Further to your inquiry regarding alternative power systems please find enclosed an appliance use table for you to complete.

It is important for us to get a clear indication of your system loads so we may size a system to meet your individual needs. As discussed alternatives need to be found for heating hot water and cooking food, once these large loads are accounted for refrigeration is the next consideration. For this reason the appliance use table indicates Vestfrost low energy refrigeration.

The appliance use table also details all lighting at 20 watts, this is achieved by using low energy bulbs. Most modern appliances can be included in an alternative power system, including smart drive washing machines, stereos, computers, facsimile machines and microwaves. Dishwashers can also be included provided the hot water is heated from another source.

The appliance use table is designed as a quick and easy way for our clients to assess what appliances they have and how often a day they would be used. The consumption figures are averages, but as power usage varies with different models and brands it is important that where possible the customer details the actual power rating of their appliances. These figures are generally given somewhere on the appliance and will be detailed in Amps or watts, both these figures are adequate for us to make our calculations.

With a bit of practice the math behind the calculations is very simple.

Your power consumption	Quantity	Average hours per day	Total energy use.
20 watts	x 4	x 3	240 W/hrs

Where average daily use does not constitute a full hour then time in minutes divided by 60 gives the figure that determines how much power is used per day.

For instance laundry lights 20 watts.

Only used for 4 minutes per day.  $4/60 = .07$

$.07 \times 20 = 1.4$  watts ( $.07 \times 60 = 4.2$  minutes per day).

The more information you can offer about system use the more detailed we can be with our quotation and advice on system use.

If you require further information or assistance please do not hesitate to contact us.