



Off Grid – Freedom to Roam!

We create systems that are flexible, based on your needs for today and expandable to meet your future needs. Our decades of experience sizing, specifying components and system integration assure you of the most reliable and easy maintenance power system for today and tomorrow.

Sizing an Off Grid PV System:

The following chart lists typical power consumption demands of common devices which you can use as a guide. After completing the following load worksheet a member of your team at Pacific Energy Company can review it and begin to specify the appropriate equipment for your system.

- List all of the electrical appliances to be powered by your PV system. Record the operating wattage of each item. Most appliances have a label on the back that lists the wattage or amperage (amps x volts = watts). Local appliance dealers and the product manufacturers are other sources of this information. Specify the number of hours per day each item will be used. Enter the number of days per week you will be using each item to determine the total watt-hours per week each appliance will require. Multiply the first four columns to determine the watt-hour usage per day Remember – it is not the quantity of appliances (lights) that you have, it is the quantity that are turned on – and for how long each day.

Please separate AC loads from DC loads. Return completed form to PEC Staff - Fax 805-544-3411.

Load Worksheet for:

AC Loads (wattage examples)	Quant. x	Watts x	Hrs/Day x	Days/wk =	WH/Day	Notes
Refrigerator – 20cf Energy Star		139	9	7		
Microwave Oven (1000-1400w)						
Freezer (350w)						
Coffee maker (300-900w)						
Dishwasher (300-900w)						
Blender (300-500w)						
Toaster (900-1500w)						
Range Hood						
Forced Air Furnace						
Cordless Telephone (7w)x24hrs						
Answering Machine (12w)x24hrs						
Hair Dryer (1300-1500w)						
Shaver (25-75w)						
Vacuum Cleaner (600-1200w)						
Washing Machine – HE (800w)						
Clothes Dryer – Gas (350-500w)						
Television 27" CRT (155w)						
Television 42" LCD (300w)						
Satellite Receiver (38-75w)						
DVD Player (36-45w)						
Am FM Receiver (25-60w)						
Computer CPU (55-100w)						
Computer Monitor LCD (35-55w)						
Inkjet Printer (36-56w)						
Compact Fluorescent Lights (7-30w)						
Incandescent Lights (60-100w)						
Deep Well Water Pump						
Pressure Pump						