

# Precision Wind Technology

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## HOW MUCH POWER DO YOU NEED?

Before you do anything else, you need to determine exactly how much power you need. Once you have this information, you will better understand your own energy requirements and help an installer to accurately advise you how best to replenish that energy. Please note that some appliances may use more or less power than stated, you need to suss that one out.

### Your Home.

Appliance.	Typical Watts.	How Many?	Hours Each day.	Your Watts.	Watts x hours.
Fluorescent light. 40					
Tungsten light.	40/60/100				
Radio.	50				
Stereo.	100				
TV.	100				
VCR.	50				
Computer.	200				
Refrigeration.	100/400				
Freezer.	300				
Microwave.	1000				
Iron.	1000				
Sewing machine. 100					
Washing machine.	500				
Vacuum cleaner.	600				
Food processor.	200				
Power tools.	750				
Ceiling fan.	100				
Other.					
.....					
.....					
.....					
.....					
<b>TOTAL</b>					

Will you be inverting for this power? If so how much? \_\_\_\_\_

How many days autonomy do you require? \_\_\_\_\_

What is the lowest temperature you would expect at your site? \_\_\_\_\_

### Your details.

Name..... Address:..... ..... Phone: Work:..... Home:..... Email:.....
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Okay, here we go with some basic alternate energy stuff. So let's get down to your system requirements.

The number of people living in a dwelling is no concern to us when assessing your alternate power needs, on the other hand, the amount of power consumed is of supreme important. One person inverting DC power, inverting for a TV, microwave and other appliances all day will use much more power than a family of six who only use their lights and TV or stereo for three hours each evening, (as we do). Anyone living on alternate power has to be power conscious, use nothing unnecessarily, that's life on alternate energy unless you have ample power, (and money) supply.

In regard costs:

Each system needs to be individually designed to suit your individual needs. However, as a rough rule of thumb, if you need 1000 watts of power per day, the solar array alone will set you back around \$2000.00. + controller, + batteries, (+ inverter if required) + wiring and installation. Remember, in a good wind site, one small wind turbine, such as an **Air X**, can provide the power of many solar panels and greatly reduce the cost of your power supply.

Weather conditions in your particular area can greatly affect your choice of power supply. Some areas have very little wind thus wind power may not be viable. Most coastal locations around Australia make wind power very viable. Even in these windy locations, if you are living full time on alternate power I would recommend you have some solar power or increase the size of your battery banks to see you through a couple of windless days. A small petrol generator may be a good alternative to this as a back up power supply. The bureau of meteorology should be able to give you information on hours of sunlight, average wind speeds etc for your proposed area.

Regarding quality of equipment: Our wind generators are of the very best quality and we endeavour to deliver customer service second to none. Don't skimp on quality with any of your equipment especially if your alternate situation is to be permanent, your alternate lifestyle will be even more rewarding with reliable equipment, hence less frustration.

Practicality:

Is it practical for you to go alternate? The burning question!

If you live where grid power is available at your door, it is definitely not a financial proposition to go alternate. If it is going to cost you 20 or \$30000.00 to get connected, then it is definitely worth a look. In my own case, I would go alternate no matter what because I believe that all the money in the world is no good to me on a shrivelled up, dried, UV battered planet. We are on the grid at "Yarrageh" but will be selling power back to Country Energy, our power supplier. Some may ask, "How can you afford to do that"? I simply ask, "How can we afford not to"?

Sheet 1, will help you determine your power needs. Be honest with yourself about your power use. Take a bit of time filling it out, maybe even average out your usage over a month or so. If you are on the grid, check out your power bill, it will tell you exactly how much you use on a daily basis.

Enjoy.

Authorised Australian distributor of Air and Whisper wind turbines.

Sales, repairs, spare parts, upgrades and warranty service.

Sharp Solar, Selectronics Inverters, Plasmatronics Solar controllers, Waeco re Fridgeration and more.