

### Sunny Solar Energy Incentives

As Australia and the world confront the climate change challenge head-on over the next decade, solar energy will play a vital role in any successful strategy. Australia's geography gives us an excellent opportunity to harness the most natural, sustainable and clean energy in our homes and buildings – the energy from the sun. Photovoltaic production has been doubling every two years, increasing by an average of 48 percent each year since 2002, making it the world's fastest-growing energy technology.

The Australian Government has committed to assist Australians join the solar energy revolution. The Solar Homes and Communities Plan provides cash rebates for the installation of solar photovoltaic systems on homes and community use buildings. If you install a system (and you satisfy a means test) you are currently eligible for a federal government rebate of up to \$8000. To qualify for the rebate you must use accredited designers and installers. Powercom's team of engineers and technicians are officially accredited by the Clean Energy Council and the solar panels we use in our systems are certified to international standards.

Note: These rebates may be subject to change. For up-to-date details of this initiative, visit the Department of Environment, Water, Heritage and the Arts website.

[www.environment.gov.au/settlements/renewable/pv](http://www.environment.gov.au/settlements/renewable/pv)

### Our Company

The Powercom Group delivers much more than just solar power solutions. Our group of four related companies: **Powercom Consultants**; **Powercom Systems**; **Novaris**; and **Datacall** have expertise in electrical engineering, construction of communications systems, broadcasting, lightning protection and electronics design.

### Monitoring & Control

You can choose to compliment your new Powercom solar power system with a Datacall cellular based monitoring and control system. This technology provides you with complete up-to-date information about the power your system is generating, battery voltages and power usage. It also keeps you informed through security alerts, critical power supply alerts and monitors the power generated by your solar power system over time.

### Power Surge Protection

Our manufacturing division Novaris, produces surge protection equipment to filter the harmful effects of power surges. The Novaris range is far superior to any you will find in retail shops and Powercom highly recommends that this surge protection equipment be integrated with your new solar power system.

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**POWERCOM**

**Engineered Solar Solutions**

## POWERCOM - Engineered Solar Solutions

Powercom has been designing and constructing innovative climate friendly solar energy solutions since 2001. Our experienced team has installed custom-built solar powered communications systems on remote Pacific Islands, designed solar display units for Aurora Energy and powered homes and businesses with our solar grid-connect and stand-alone systems.

### Complete Solar Solution Service

Powercom provides more than just the 'nuts and bolts' for your solar power system. With almost 10 years experience in the solar industry, we are able to offer a complete solar solution service.

**Survey.** Before installing your new solar power system we conduct a comprehensive survey and analysis of your site. Using these details our team will provide you with expert advice about the system that best suits you and your budget.

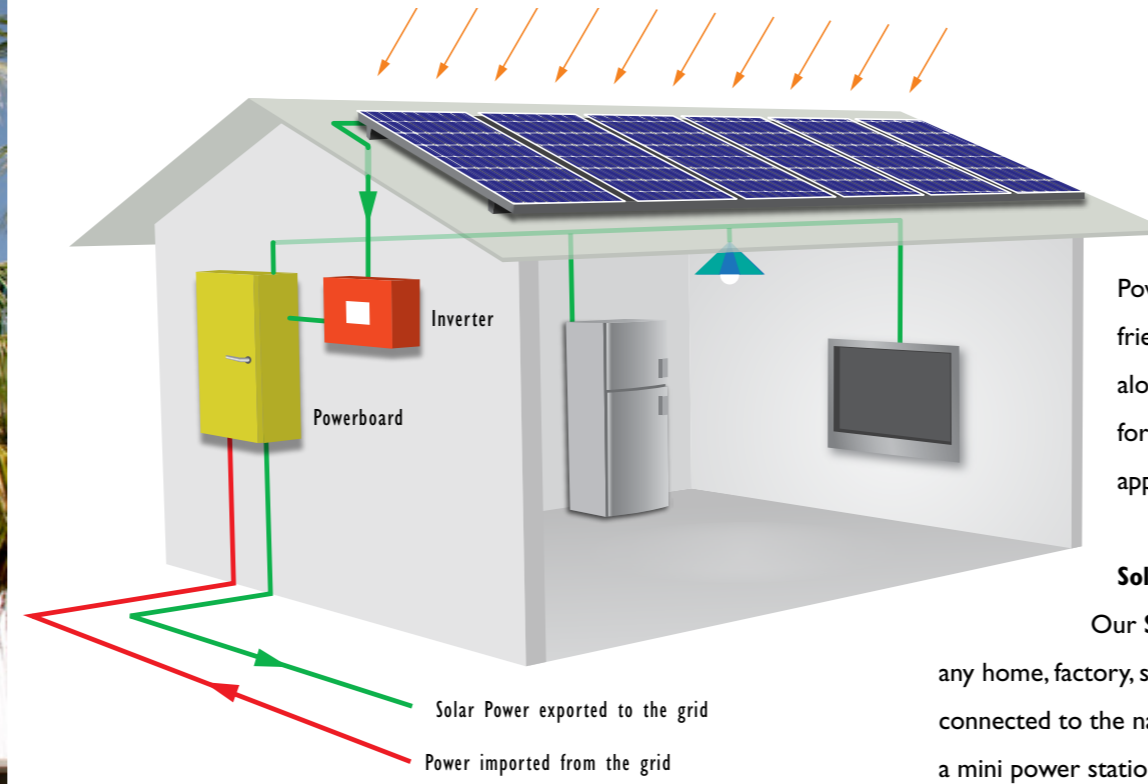
**Design.** We have a range of prefabricated systems to suit most requirements. However if you need something a little different our Clean Energy Council qualified Engineers and Technicians will custom design a system for you. Ranging from 1kW systems for the standard family home or 3kW for a larger home, to larger over 20kW+ systems, our Engineers will make sure that the system you choose does the job you need it to do.

**Manufacture.** We choose the best components available. By using top grade components including high-efficiency solar panels and high-quality inverters we can guarantee the performance and reliability of our systems. To ensure peak performance, we prefabricate and rigorously test all of the key components prior to installation.

**Installation.** We know our solar systems are good but we want them to look good as well. Our designers have taken special care to minimise the visual impact of the systems hardware, particularly the wiring running from the solar panels to the inverter. We are committed to providing the best possible service and quality; so proudly guarantee our systems and installation schedules.



## SolarGrid™



Powercom is a specialist in climate friendly grid-connect and stand-alone solar power systems suitable for both residential and commercial applications.

### SolarGrid™

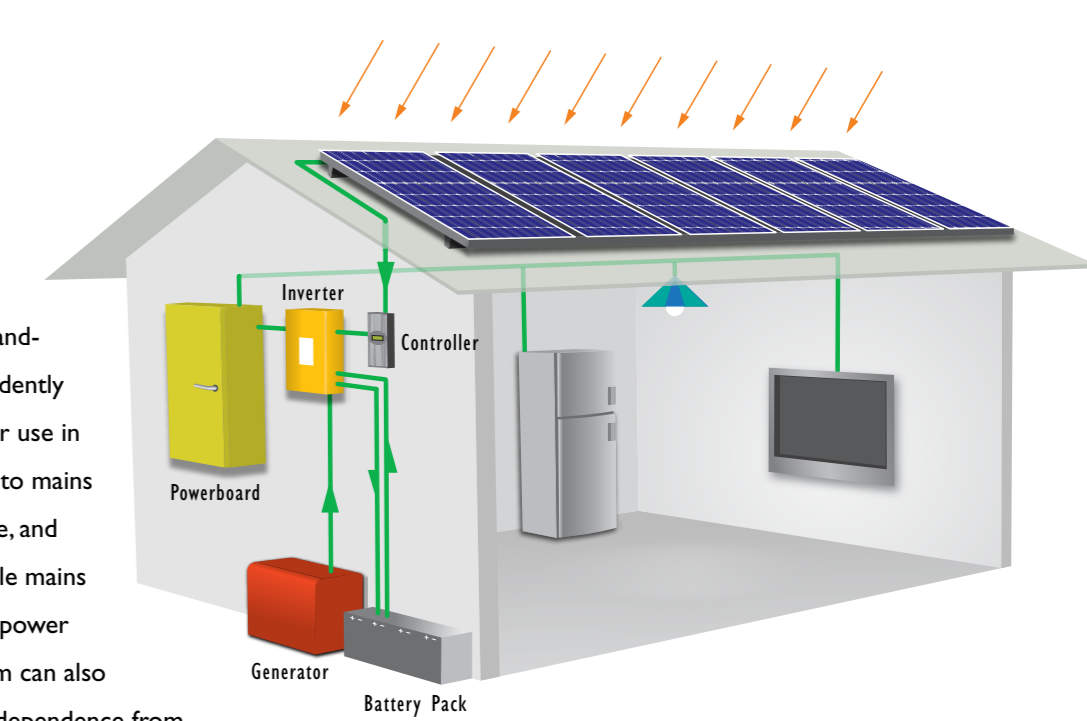
Our **SolarGrid** system is ideal for any home, factory, school or facility that is already connected to the national energy grid. It acts as a mini power station on your roof and provides power to your home or business as you need it. Any surplus power you generate flows back to the national energy grid, earning you energy credits on your electricity account.

A range of monitoring systems are available to keep track of how much power you generate and how much you are saving.

Depending on the capacity of the system that you install you can balance your power bill so that you have little or nothing to pay. And importantly, an average-sized **SolarGrid** system will reduce your carbon footprint by several tonnes of greenhouse gases per year.



## SolarRemote™



### SolarRemote™

Our **SolarRemote** system is a stand-alone unit that operates independently from mains power and is ideal for use in remote areas where connection to mains power is unavailable or expensive, and in areas that experience unreliable mains power supply including frequent power blackouts. A **SolarRemote** system can also be installed in built-up areas if independence from the national energy grid is your preferred option.

In our **SolarRemote** system the electricity generated by the solar modules is stored in a battery bank. As energy is needed in your home or facility to run lights and appliances for example, the system automatically draws energy from the batteries. An inverter and/or regulator monitors how much energy you have left in your batteries. **SolarRemote** systems can be designed to include a generator for back up in periods of high demand or extended periods of cloudy weather.

An independent monitoring system is installed with every solar power unit to help you keep track of how much power you generate and how much you are saving.



Our **SolarGrid** packages are designed to suit a broad range of users. But if you have specific requirements, our design team can also customise a system to suit your needs.

Average Australian households typically use approximately 20 kilowatt-hours (kWh) of electricity per day. The quickest and easiest way to gauge your own energy usage is to check your latest electricity bill – it displays your current average daily energy usage for the last billing period (usually in kWh) and often also provides a comparison with your previous bills as well. You can use this as a rough guide to which one of our systems will suit you best.

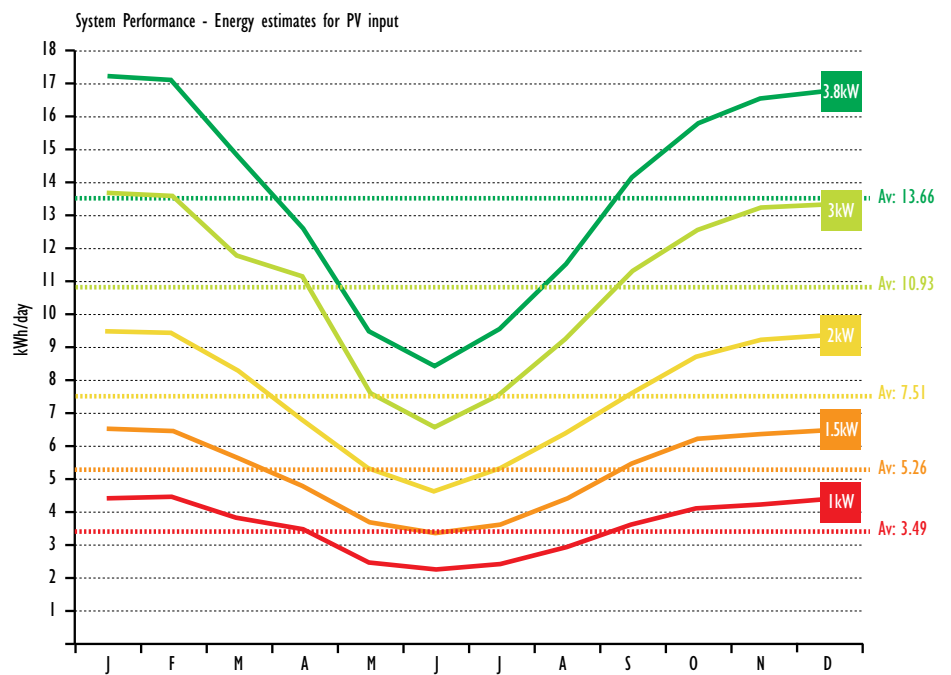
The graph shows the amount of solar energy generated over a 12-month period by five of our most popular packages – 1kW, 1.5kW, 2kW, 3kW and 3.8kW.

Our 1kW entry-level package is a very economical system and is a perfect option for introducing solar power into your energy mix. It generates approximately 3.5 kWh of power per day. That represents an average saving on energy consumption of 17% and a greenhouse gas emission reduction of close to 1600kgs per year.

Our 3.8kW systems provide on average 13.6kWh per day, ample power to supply a larger household or support the power needs of the commercial office space. You reduce your power consumption by over 50% and your greenhouse gas emissions by close to 4800kg per year.

Integrating further energy efficiencies with one of our **SolarGrid** packages, such as efficient light globes and heat pumps, will further reduce overall power consumption.

For further information, call Powercom today on (03) 6229 7966.



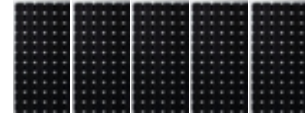
This graph is based on solar radiation in Hobart from Clean Energy Council approved data sources, on a clear day with the solar panels optimised for performance at 32° to the roof.

Note: Clouds and seasonal changes, roof orientation, shading from surrounding trees and how clean the array is will affect the overall performance of the system.

## SolarGrid™ Packages

### 1kW Package – 1075Watts

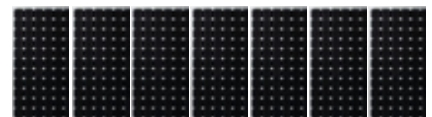
5 Sunpower 215Watt solar modules  
+ Sunny Boy 1100 inverter  
+ Mounting kit + cabling + design and installation  
Roof Area: 6.2m<sup>2</sup>    Weight: 75kg



1kW

### 1.5kW Package – 1505Watts

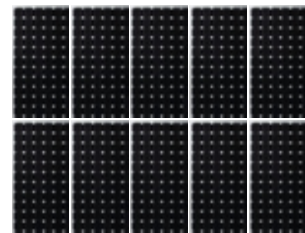
7 Sunpower 215Watt solar modules  
+ Sunny Boy 1700 inverter  
+ Mounting kit + cabling + design and installation  
Roof Area: 8.7m<sup>2</sup>    Weight: 105kg



1.5kW

### 2kW Package – 2150Watts

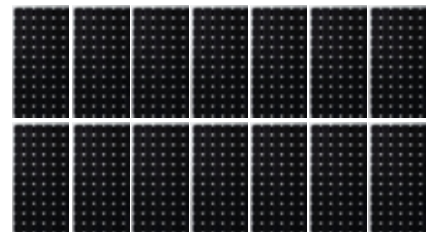
10 Sunpower 215Watt solar modules  
+ Sunny Boy 2500 inverter  
+ Mounting kit + cabling + design and installation  
Roof Area: 12.4m<sup>2</sup>    Weight: 150kg



2kW

### 3kW Package – 3010Watts

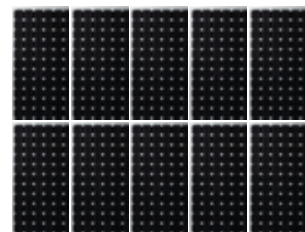
14 Sunpower 215Watt solar modules  
+ Sunny Boy 3300 inverter  
+ Mounting kit + cabling + design and installation  
Roof Area: 18.6m<sup>2</sup>    Weight: 210kg



3kW

### 3.8kW Package – 3870Watts

18 Sunpower 215Watt solar modules  
+ Sunny Boy 3800 inverter  
+ Mounting kit + cabling + design and installation  
Roof Area 22.4m<sup>2</sup>    Weight: 270kg



3.8kW

All packages can be customised with additional solar modules to increase the capacity of the system.  
Contact us at [solar@powercomgroup.com](mailto:solar@powercomgroup.com) for additional Powercom SolarGrid packages.