

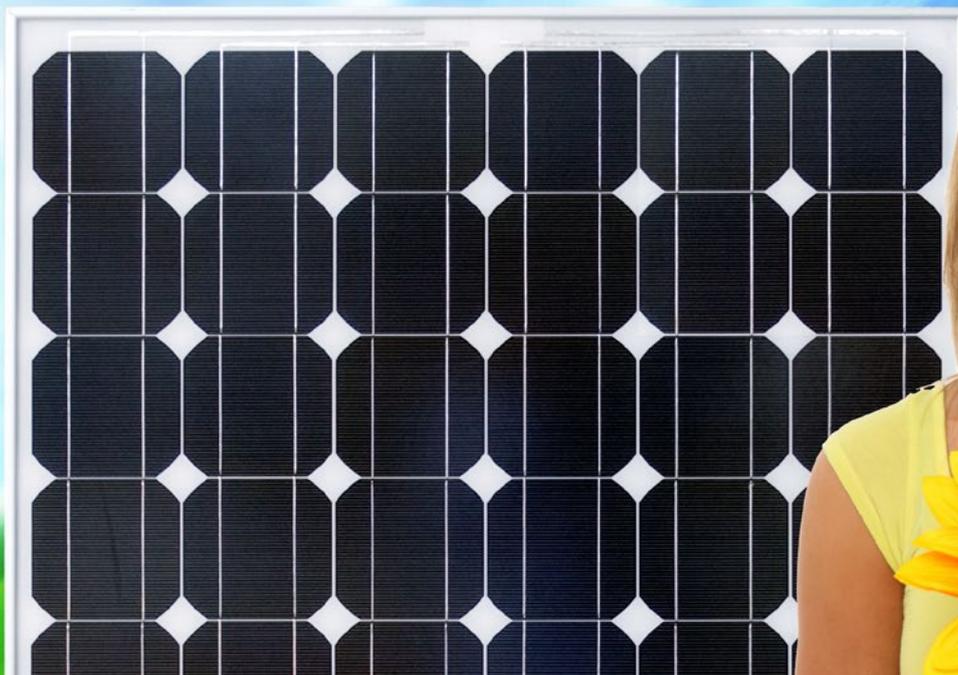
# Clean, free electricity from the sun



Solar Power Systems from Chromagen

# Solar generated electricity...

## Giving you the power to SAVE



### Efficient living with Chromagen

Chromagen Pty Ltd is a proudly Australian owned and operated company with a mission to provide sustainable environmental solutions for Australian consumers.

Founded in 1962, the Chromagen brand is now a major international player in thermal solar technology. Their world-class solar hot water systems are sold to over 35 countries and are recognised across the globe for their high quality, reliability and durability.

Today Chromagen Pty Ltd distributes a wide range of residential and commercial solar and energy solutions, including quality solar power systems. In Australia, Chromagen has a nation-wide presence with a network of offices, dealers and services agents across the country, so you can count on local experience, solutions and service.

### Harness the sun, for a brighter future

The Earth's fossil fuels resources are declining at a rapid rate. Fossil fuels are not only finite; they produce harmful greenhouse gases which some scientists warn will lead to global warming. The ever-increasing cost of fossil fuels-generated electricity is also placing a heavy financial burden on regular Australians.

The sun however, produces an abundance of clean, renewable energy that will always be there. By installing a solar power system you can harness this free energy, reducing greenhouse gas emissions and taking control of your power bills...giving a brighter future to your family.

### Grid-connected solar power systems

A solar power system produces free electricity from the sun by converting sun light into electricity using the photovoltaic (PV) effect.

Grid-connected systems are connected to the power grid to ensure power is always available to your house. In these systems, solar panels are mounted on the roof with best exposure to the sun (generally North to North-West). Multiple panels are connected together to form an array. The more panels you install, the more electricity the system will generate.

The solar panels produce DC electricity (Direct Current) which must be converted to usable AC (Alternating Current) by a power inverter to be used with common household appliances.



## How grid-connected solar electricity works:

1. Solar-electric panels generate electricity when exposed to sunlight
2. These panels are connected to an inverter to convert the electricity for household use
3. The solar-generated electricity is consumed immediately by your appliances.
4. At night, or when your power consumption exceeds solar generation, your power is again drawn from the grid. Any surplus solar electricity is fed into the power grid



Illustration of Solar PV system

## Financial Incentives

Did you know there are financial incentives available if you install Solar Power on your home? Chromagen's range of solar power systems qualify to generate Small-scale Technology Certificates (STCs) under the Federal Government REC's program. An STC is a tradable commodity, generated by the installation of renewable energy systems such as solar power. Australian consumers can use these STCs to reduce the point of sale price of their system, making the switch to solar generated electricity even more affordable. For more information about how STCs apply to your purchase, contact Chromagen for advice.

## Feed-in Tariffs

In some Australian states the surplus electricity fed into the grid can be purchased by your electricity retailer by way of a State Government stipulated Feed-in Tariff. This Feed-In Tariff will allow you to earn money from the solar power that you don't use and increase your savings. For the latest information on Feed-in Tariff's in your state, please consult your electricity retailer or visit our website [www.chromagen.com.au](http://www.chromagen.com.au)

## The solar advantage:

- Reduces your household power consumption and carbon emissions
- Reduces demand for fossil-fuel generated electricity
- Minimises the impact of rising electricity costs
- May increase the resale attractiveness of your home
- Silent operation & very low maintenance
- Eligible for Government Small-scale Technology Certificates (STCs)
- Satisfaction from helping the environment

## Our systems

The more panels you fit on your roof, the more electricity your system can generate, and the greater your savings.

Chromagen offer a wide range of quality solar power systems from leading manufacturers to meet your specific needs.

Our range includes common residential-sized systems from 1.5kW through to 5kW output, as well as high output systems for commercial applications such as farms, schools, factories and municipal facilities.

For the latest technical specifications on solar power panels and inverters from Chromagen, please visit our website at [www.chromagen.com.au](http://www.chromagen.com.au)





solar & energy solutions

## Which solar electricity system is right for me?

### How to use this table:

1. Locate the closest city to where you live
2. Compare the daily generation on the table to the average daily power consumption on your bill. Note: The average Australian home consumes around 18kWh per day.

The number of panels you install dictates the output capacity of your solar power system. Selecting 1.5 kW system will generate around 35% of your consumption\*, however if your budget allows it, you can select a higher output 5kW system which will generate around 116% of your household consumption\*. (\*Based on Zone 3)

City	STC Zone	Daily System Generation (kWh)			
		1.5kW System	3kW System	4kW System	5kW System
Adelaide	3	6.3	12.6	16.8	21.0
Alice Springs	2	7.5	15.0	20.0	25.0
Brisbane	3	6.3	12.6	16.8	21.0
Cairns	1	6.3	12.6	16.8	21.0
Canberra	3	6.5	12.9	17.2	21.5
Darwin	1	6.6	13.2	17.6	22.0
Hobart	4	5.3	10.5	14.0	17.5
Melbourne	4	5.4	10.8	14.4	18.0
Perth	3	6.6	13.2	17.6	22.0
Sydney	3	5.9	11.7	15.6	19.5



Data Source: CEC GC Design Guidelines. PV Array 1kWp facing true north and a tilt angle of 20° with an average inverter / wiring efficiency – 0.92, using long term average solar irradiation and temperature data from the Australian Solar Radiation Data Handbook.

## Why Choose Chromagen?

- Use only high efficiency Monocrystalline panels and quality grid-connect inverters from leading manufacturers
- Panels manufactured to ISO 9001 international quality standards
- 25 year limited performance warranty on solar panels / 5 Year limited warranty on grid-connect inverters
- Panels registered with the Clean Energy Council
- Installed by only accredited Clean Energy Council electricians.
- Chromagen Pty Ltd is 100% Australian owned and operated
- We operate a national sales & service network

## Other quality products from Chromagen:

Solar Hot Water Systems | Eternity Continuous Flow Gas Hot Water | Midea Hot Water Heat Pumps

**Your local Dealer / Distributor is:**



**Chromagen Pty Ltd | [chromagen.com.au](http://chromagen.com.au) | [info@chromagen.com.au](mailto:info@chromagen.com.au) | 1300 367 565**

VICTORIA | NEW SOUTH WALES | QUEENSLAND | NORTHERN TERRITORY | WESTERN AUSTRALIA | SOUTH AUSTRALIA