- Offset part or all of your power bills to future-proof your home
- Warranties are with CSR Bradford (70 years old) for peace of mind
- CSR has global purchasing power, National company, local staff
- 25 year limited performance warranty on panels
- 10 year inverter warranty, with dual input for future panel expansion
- 5 year workmanship warranty
- Bradford buys direct from the manufacturer, so you get national pricing without the middle-man costs!
- High quality inverters and solar panels for your long-term investment
- Local specialist renewable energy electricians do the install
- Independent MPP tracking (optimised performance from sub-arrays)
- Home Efficiency Group is a locally owned & managed company

Home Efficiency Group is proud to be an agent for:

Bradford™ solar

Specialists at Grid-Connect Solar Power Systems

Home Efficiency Group can provide you with a free onsite assessment of your roof space to evaluate its suitability for solar panels, and an estimate of the electricity that you will generate. We will assess your roof pitch, shadows that are cast on your roof, roof orientation and meter box, among other things.

Is it a good time to invest in a solar power system? Government "rebates" (which are actually called STC's, more like a renewable energy currency) still apply, the price of panels has dipped recently and the efficiency of the panels has increased. Tasmania currently (as at Aug 2013) has the best feed-in tariffs in Australia… Yes – it is a good time to invest!

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SOME OF OUR OTHER SERVICES:

Condensation Control | Ducted Air Circulation | Insulation | Roof Heat Recovery | Roof Ventilation

Please contact us to arrange a free, no-obligation onsite assessment: 1300 96 80 60 or info@homeefficiencygroup.com.au

See our retail outlet at 275 Wellington St, South Launceston or our showroom at 309 Liverpool St, Hobart.

How many solar panels do I need?

The aim of solar panels is to create enough solar power throughout the year to offset your annual Aurora Energy bills, either partially or wholly. The more solar panels on your roof, the more electricity is generated when the sun shines on them. Solar Power that is not consumed is sold into the electricity grid, and your account is given a credit. The amount you are PAID per unit of electricity generated is equivalent to the amount you BUY your unit of electricity for (currently 27.885c/kWH). This credit can then be used to offset power consumption at night time and during high energy consumption times of the year, usually winter.

To determine approximately how many panels you require to offset your power bills this, there are four main considerations:

1) **What is the total amount of your annual electricity bill?**
2) **How much suitable space do you have on your roof?**
3) **Which direction are your roof surfaces facing?**
4) **How much shadow does your roof experience?**

What is the total amount of your annual electricity bill?

Add up the total of all of your Aurora Energy bills over a 12 month period. Once you have this, compare this figure to the "Solar Dollar" figures in either the OPTION A or OPTION B sections in the table, below. The options will depend on the amount of shadow and the aspect of your roof.

How much suitable space do you have on your roof?

CNPV 250W solar panels are approx 1m wide and 1.6m long. In general, the more northerly-facing and shadow-free your roof space is, the greater the electricity generation potential. As houses situations vary, we have put in a conservative lower figure (based on Clean Energy Council guidelines) and an optimal figure. Things to be mindful of at your home include shadows caused by: trees, other houses, hills, flag poles, telegraph poles, chimney's, satellite dishes, antenna's and other parts of your roof etc. Shadow can greatly reduce the efficiency of the whole solar panel system, even if it is only covering some of the panels.

Which direction are your roof surfaces facing?

A northerly aspect to a roof is optimal for harvesting the sun's rays. A purely easterly or westerly facing roof decreases the efficiency of the system by approximately 15%, with north-west or north-east experiencing an approximate 7.5% drop in efficiency due to poorer sunlight access. For non-optimal roof orientations, apply the more conservative solar dollar figures in OPTION A.

May 2013 Pricing for Polycrystalline CNPV Panels

				OPTION A: East-West facing, or moderate shadow scenario			OPTION B: North facing, minimal or no shadow scenario		
Solar Power System Size	**No of panels**	**Installed Base Cost, incl Govt Incentives**	**Aurora Power-One Inverter Size(s)**	**Solar Dollars Generated****	**Payback Period (Yrs)**	**Investment Return**	**Solar Dollars Generated.**	**Payback Period (Yrs).**	**Investment Return.**
1.5 kW CNPV Panels	6	$ 3,053	2000W	$ 414	7.4	13.6%	$ 496	6.1	16.3%
2.0 kW CNPV Panels	8	$ 3,520	2000W	$ 552	6.4	15.7%	$ 662	5.3	18.8%
2.5 kW CNPV Panels	10	$ 4,400	2500W	$ 689	6.4	15.7%	$ 827	5.3	18.8%
3.0 kW CNPV Panels	12	$ 4,950	3000W	$ 827	6.0	16.7%	$ 993	5.0	20.1%
3.5 kW CNPV Panels	14	$ 5,968	3600W	$ 965	6.2	16.2%	$ 1,158	5.2	19.4%
4.0 kW CNPV Panels	16	$ 6,600	4200W	$ 1,103	6.0	16.7%	$ 1,324	5.0	20.1%
4.5 kW CNPV Panels	18	$ 7,425	5000W	$ 1,241	6.0	16.7%	$ 1,489	5.0	20.1%
5.0 kW CNPV Panels	20	$ 7,975	5000W	$ 1,379	5.8	17.3%	$ 1,655	4.8	20.7%
5.5 kW CNPV Panels	22	$ 8,773	6000W	$ 1,517	5.8	17.3%	$ 1,820	4.8	20.7%
6.0 kW CNPV Panels	24	$ 9,570	6000W	$ 1,655	5.8	17.3%	$ 1,986	4.8	20.7%
6.5 kW CNPV Panels	26	$ 10,368	5000W & 2000W	$ 1,793	5.8	17.3%	$ 2,151	4.8	20.7%
7.0 kW CNPV Panels	28	$ 11,165	6000W & 2000W	$ 1,930	5.8	17.3%	$ 2,317	4.8	20.7%
7.5 kW CNPV Panels	30	$ 11,963	6000W & 2000W	$ 2,068	5.8	17.3%	$ 2,482	4.8	20.7%
8.0 kW CNPV Panels	32	$ 12,760	6000W & 2000W	$ 2,206	5.8	17.3%	$ 2,648	4.8	20.7%
8.5 kW CNPV Panels	34	$ 13,558	6000W & 2500W	$ 2,344	5.8	17.3%	$ 2,813	4.8	20.7%
9.0 kW CNPV Panels	36	$ 14,355	6000W & 3000W	$ 2,482	5.8	17.3%	$ 2,978	4.8	20.7%
9.5 kW CNPV Panels	38	$ 15,153	6000W & 3600W	$ 2,620	5.8	17.3%	$ 3,144	4.8	20.7%
10.0 kW CNPV Panels	40	$ 15,950	6000W & 4200W	$ 2,758	5.8	17.3%	$ 3,309	4.8	20.7%

* Prices factor in STC's (Small Scale Technology Certificates), and do not include regional travel, tilt frames (for low pitch or flat roofs), meter box upgrades (if required), split array or multi-storey fees. Prices subject to change and an onsite inspection and quote presentation. E&OE.

** The conservative figures in the OPTION A column are based on Clean Energy Council of Australia figures (equivalent to 3.5 hours of Peak Sunlight per day on average for solar zone 4 - Hobart). They are conservative figures based on a house not having a direct north-facing roof and a degree of shadow on the roof. OPTION B is where there is a north-facing roof with no (or minimal) shadow, equivalent to 4 hours of Peak Daylight per day on average.

The Solar Dollar figures are calculated by kW x Avg Peak Sunlight Hours x Grid Feed-in Tariff of $0.2828 for 2/3 of the time, with 1/3 of the time feeding back into the grid at 8c per KWH. Prices based on CNPV 250W Polycrystalline panels.

Collecting Suitable Information for a Quotation

Want a formal quotation on your home for a grid-connect solar power system? Please call us on **1300 96 80 60** to arrange a free onsite quotation. Alternatively, if you would like one remotely, then simply email info@homeefficiencygroup.com.au with (a) a picture of your meter box, (b) a picture of the northerly-facing roofs of your home, (c) your National Meter Identifier number, or NMI, located near the top of your Aurora Energy statement (it starts with 8000 typically) and (d) your Drivers License number (required by Aurora Energy in their paperwork), along with your address and contact details. This document does not constitute a quotation.

Please contact us to arrange a free, no-obligation onsite assessment: 1300 96 80 60 or info@homeefficiencygroup.com.au

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