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Solar energy is one of the most powerful sources of energy that is unfortunately underutilized. With the rising cost of electricity – from its production, transmission, and usage – it no longer becomes practical to be spending so much on this alone. Especially when an alternative is available, one that is transmitted freely and leaves little to no waste material.

At Alliance Solar, we work hard to bring that energy to your homes and businesses. We aim to provide you with the alternative power source that is cost-effective, environment-friendly, and practical.

Alliance Solar is among Australia’s reputable solar companies offering solar power installation services to residential and commercial areas. We are renowned in Australia for our excellent service, meticulous craftmanship, and manufacturing warranties. Our services do not end when your solar panels are already installed, as we are fully committed to serving you every step of the way.

Our Vision

At Alliance Solar we envision more and more solar-powered homes in the urban, suburban and rural communities harnessing the maximum potential energy resources that are readily available to all. We seek to encourage homes and businesses to turn to cost-effective and long term savings through solar power panels.

Our Mission

To provide high quality solar PV panels and installation services to residential and commercial clients, and educate them on the benefits and advantages of using solar power for their household and business needs.

How We Do It

Simply put, we work to change sunlight into electricity, with the use of solar cells. Our solar panels are installed into your roof, which collects sunlight particles called photons. These solar panels then convert them into electrons, which are in the form of direct current (DC) power. An inverter then transforms this DC power into alternating current form, which you can now use to power your home.

**About Us> About Solar**

Alliance Solar is a 100% Australian owned company with a staff of more than 50 employees. We are committed to helping both families and business establishments set up their own solar energy system. This will help them save on their electricity bills through harnessing solar energy, a cost-effective, inexhaustible and renewable energy source.

We offer high quality solar panels at affordable cost. Our team of efficient and certified installers throughout the rural and urban areas of Australia is composed of electricians who are highly professional and skilled at their job. Even after installation of your solar panels is completed, we are continuously committing our support and services at your convenience.

How Alliance Solar can work for you

In 2001, Federal Government launched the Mandatory Renewable Energy Target (MRET). This program requires that by the year 2020, renewable energy must have a 20% share of the total electricity supply in Australia. Electricity retailers and industrial operations are then required to purchase electricity from renewable sources, in the form of the previous Renewable Energy Certificates (RECs), or currently the Small-scale Technology Certificates (STCs). Establishments which produce electricity from renewable energy sources, such as wind, hydro, geothermal, landfill gas, and solar PV and solar thermal which produce electricity are entitled to these STCs, and therefore have an opportunity to generate income from them.

The Solar Credits Scheme was introduced by the Federal Labour Government in 2009 to provide subsidies to homes, companies, and non-profit organizations in the form of Small-scale Technology Certificates or STCs. A certain number of STCs were awarded to homes and establishments depending on the size of solar panel systems they have installed. Basically, every 1MWh you produce entitles you to 1 STC which Alliance Solar sells to energy companies for you, and this is accumulated for a period of 15 years.

The Solar Credits Scheme is funded by the government. Under this scheme, a certain number of STCs are given to establishments with solar powered electricity depending on the size of the installed system and the on which region you live in. Generally, values range from A$900 for a 1.5kW size system, to A$18,000 for a 30kW size system. Alliance Solar is responsible for claiming this STC values on your behalf.

Income Generation thru Solar Power System

Feed-in Tariffs were implemented by several states to increase the generated amount of PV power. The feed-in tariff is the amount paid for every kilowatt Hour of excess energy produced by your system that is sold back to the power grid. This amount depends on the electricity retailers and state provision.

To sell power back to the grid, a bi-directional meter will be installed in your home to record the amount you are exporting to and importing from the electricity retailer. This will be charged to you by the electric company at cost.

The states also impose a limit to the system size that you can have installed in your property if you want to qualify for feed-in rebates. The allowed system size is generally from 5kW to 30kW only. If your system exceeds this size, you will not be eligible for tariff.

If you wish to use the solar power system to only meet your household’s energy needs, a small 1.5kW - 3kW system is advisable. This will produce enough supply for you, with little excess to sell back to the grid.

If you wish to generate a high feed-in tarrif with your system, we recommend the biggest solar panel system possible and advise you on how to utilize your electricity to maximize your excess supply to sell back to the grid.

We are committed to helping you decide on which solar power system will work best for you and what will give you the maximum benefits. If you wish to invest in a massive system in order to generate the maximum income possible from exporting electricity or if you only wish to install a system to meet your daily electricity requirements, Alliance Solar will be there to inform you of all the possibilities.

**About Us> Why Solar**

You might be thinking to yourself, why go to all the hassle of having these solar panels installed, when I can afford to pay for my electricity anyway? You would be surprised that it will not only benefit you and your finances, but your children and their future as well. Here’s why.

Benefits of Solar Power

It is a renewable energy source that is readily available. Being a renewable energy source, production involves a relatively simple process with zero by-product and no greenhouse gas emissions. These greenhouse gases cause global warming and climate change. By subscribing to solar energy, you are doing your part in fighting global warming.

Producing electricity for your own use saves you from paying electricity bills at the same time provides an opportunity to earn as you sell your excess production to the grid.

Additional benefits from the government include rebates under the Solar Credits Program, where users are awarded Renewable Energy Certificates, feed-in tariffs, and payment for excess energy production that may be used by other families.

Smaller carbon footprint. Producing electricity from solar panels result in zero waste and air pollution as compared to burning of fossil fuels, which results in tons of toxic fumes released into the atmosphere and affecting the quality of the air we breathe.

Solution to high cost of electric power consumption. Australia currently has the highest cost of electricity in the world. To cut on this high cost, 80-90% of our clients have chosen to have solar panels installed as a means to save on their electricity bills.

Be a pioneer in your community. An initial investment in having solar panel system installed in your home will result in years of free electricity for your household. Be an inspiration in your community and encourage others to follow suit and go for solar energy as well.

Increase your home value. Do you know that homes with solar panels installed are higher in value than most homes? Increase your property’s assessed value by having these solar panels installed

**PRODUCTS:**

Alliance Solar specializes in:

* Grid Connected Solar PV systems installation
* Hybrid Systems or Grid Connected Systems with batteries
* Off-grid standalone Solar PV Systems
* Grid Connected systems with Micro Inverters

Alliance Solar also offers a wide array of high-quality solar panels made by trusted brands such as BLD, Hanover, Trina, Canadian Solar, Phoenix, Jinko among others. They are covered by a 25 year manufacturer’s warranty, with power tolerances of +/- 3%. The photovoltaic modules in these panels produce 90% of their rated power output during the initial 10 years, and not lower than 80% rated power output in 25 years. All the solar panels and inverters we use for our solar panel systems have passed the standards and are approved by the Clean Energy Council.

Our inverters are likewise from trusted brands like Samil Power, JFI (JSI) SMA, Growatt, Olympia, SolaX (hybrid inverter), ZeverSolar, and others. These inverters all have 5 year manufacturer’s warranty.

INSTALLATION

In order to guarantee that we deliver only quality services, Alliance Solar’s installation team are individually certified and accredited by the CEC or Clean Energy Council, and are all highly qualified electricians. We guarantee that all our installations pass these requirements:

* Accreditation guidelines of the CEC
* Accreditation for Code of Practice, Accreditation for Code of Conduct of the CEC
* Clean Energy Regulator’s Guidelines which includes $5M worth of Public Liability Insurance

We have also passed the following Australian Standards :

* PV array installation - AS/NZS 5033:2005
* Wind Action, Structural Design - AS/NZS 1170:2002
* Compliance of PV modules - AS/NZS 5033 (product listed at [www.cleanenergycouncil.org.au](http://www.cleanenergycouncil.org.au/))
* Wiring Rules AS 4777 - AS/NZS 3000:2007
* Lightning Protection - AS/NZS 1768:2007
* Energy systems’ grid connection with the use of inverters -AS 4777:2005
* Stand-alone Power System, Pt. 1: Safety and Installation - AS/NZS 4509:2009
* Secondary batteries used with Stand-alone system - AS 4086.2:1997
* Wiring Rules - AS/NZS 3000:2007

**FAQ**

1. Why should I choose solar panels?

Aside from being environment-friendly and cutting back on greenhouse gas emissions, solar power systems will benefit you by reducing your electricity bill. By producing your own electricity, you cut back on the commercial electricity you need to buy. Secondly, by producing excess electricity that you sell back to the grid, you are providing other households with green electricity, and reduce their power expenses as well. This also benefits your property as solar panels can greatly increase the value of your home.

2. What is a grid-connected solar panel system?

A solar power system is said to be grid-connected if it is joined to the commercial electricity grid. This is the case in most urban and suburban areas where commercial electricity is available. On the other hand, a stand alone solar panel system is one that is not connected to the grid. This is usually the case in remote rural areas. A bi-directional meter monitors electricity that is drawn from the commercial grid, as well as excess generated electricity that is fed back into the grid.

3. What are the other benefits of having a solar panel system?

Having a solar panel system helps reduce Australia’s dependence on coal-generated electricity. This results in reduced CO2 specifically greenhouse gas, that causes global warming. This also reduces the amount of water electricity companies need to generate coal-based power. The current amount used by these companies in producing electricity is at 130 billion litres. Having your own solar panels also reduces the load placed on our electricity grids, an excess of which causes major power blackouts.

 4. How much will a solar power system cost?

The cost of installing solar power systems is greatly reduced by the Government’s Mandatory Renewable Energy Target (MRET) initiative. Call us for a free estimate of your solar panel requirements.

5. How much roof space is needed to install solar panels?

This depends on the size of the solar panel system that will be installed. If you will install a 1.5kW system, we will need 12 sq meters of roof space for this. Roof orientation is preferably north-facing, and this area should be un-shaded to maximize solar energy collection. This solar panel system is modular, and arrangement can be adjusted to best fit your roof.

6. Is the solar panel unit covered by warranty?

Yes, parts and labor are covered by 1 year warranty on non-structural products, including cables, wirings, and install.

7. What if my unit becomes damaged or vandalised?

Contact us at Alliance Solar immediately if this happens.

8. Do the solar panels and inverters pass both Australian and international standards?

Yes, the panels have been tested and meet the standard IEC61215 and IEC61730, and the inverter complies with standard AS/NZ4777.

9. Are your electricians who will install the product qualified?

Yes, all our installers are licensed electricians who are certified in Design and Installation of Photovoltaic systems by the Clean Energy Council.

10. Are solar systems as effective in winter?

Solar Photovoltaic systems are dependent on sunlight and ultra violet rays, not heat. While there may be shorter hours of sunlight during winter, the actual power conversion is not affected by the change in season. During summer, your solar system will benefit greatly from the extended daylight hours.

11. Does Alliance Solar’s systems come with a battery?

    No, our systems do not have a battery included as this is totally interactive with the grid. Batteries are only provided for remote area power (RAP) systems that are not grid connected.

12. In case of blackouts, will the system take over the supply of the house?

No. For safety precautions, solar units are shut down in case of power interruptions.

13. What is STC?

STCs are Small-scale technology certificates, a points awarded to eligible renewable energy systems installations that may be traded for rebates, tariff, etc.

14. How can I have my home installed with a solar power system?

    Here are a few easy steps:

    STEP 1: Have your latest electricity bill ready and contact us for a free quotation.
    STEP 2: Schedule an installation date and sign an agreement with Alliance Solar.
    STEP 3: Installation will be done at your home within four weeks.
    STEP 4: We will send the necessary documents to your electricity provider or grid connection.
    STEP 5: Your system will be activated and your house will start exporting green energy to the grid.

15. How long will the installation procedure take?

The length of installation depends on the size of the solar power system. It normally takes 4-5 hours.

16. Are there any finance options that we can avail of?

Alliance Solar offers up to 40 months zero interest payment plans. For further details, contact Alliance Solar at 1300 960 776.

17. How long will installation take place after I make my booking?

This will take up to 4 weeks.

18. What is the payment method?

Prior to installation, payment by credit card is required; if payment is on the day of installation, payment is by money order or by cheque. If you opt to avail of the interest free financing with Alliance Solar, application should already be approved by the date of installation.

19. Can the size of an installed solar PV system be increased in the future?

This depends on the size and capacity of your inverter and your roof space. If you have plans of expanding your solar system in the future, we will advise you at the beginning to install a bigger inverter. However, be advised that an increased solar power system size could affect your feed-in tariff eligibility.

20. Do I need to be present on the date of installation?

Yes, you need to be there.

21. What can we expect to happen in case of a blackout?

As a safety precaution, during a blackout your solar power system will be shut down. This is a mandatory safety measure put in place for the protection of anyone working on the grid system. Your solar PV system will resume generation as soon as the power grid is restored.

 22. What happens to the system at night?

Since the solar PV systems can produce electricity only when sunlight is available, they cannot produce electricity at night. You will need another electricity source at night.