

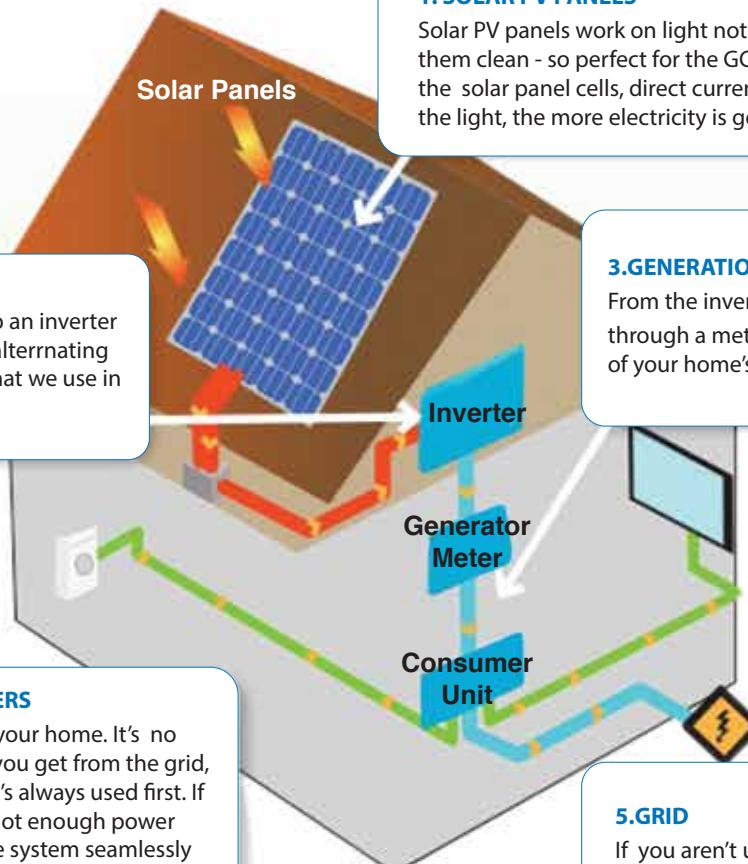


GRID-CONNECTED SYSTEM THE FEED-IN TARIFF SCHEME

Grid-connected or 'Grid-interactive' or two way Grid Interconnection solar power systems are the very latest technology, and can be likened to having your own solar power station located on your house roof, that silently generates green electricity for your own use. Grid-Connected Solar Power Systems work in parallel to the grid, providing the best possible combination of reliability, pricing and sustainability benefits.

FROM YOUR ROOF TO YOUR TOASTER!

So just how does the power of the sun get harnessed to help make your breakfast?



2. INVERTERS

The DC current flows to an inverter which converts it into alternating current AC, which is what we use in our homes.

1. SOLAR PV PANELS

Solar PV panels work on light not just direct sun and rain keeps them clean - so perfect for the GCC weather. When light shines on the solar panel cells, direct current begins to flow. The stronger the light, the more electricity is generated.

3. GENERATION METER & CONSUMER UNIT

From the inverter, the electricity flows through a meter to your consumer to the rest of your home's electrical system

4. MAINS ELECTRIC METERS

This solar energy powers your home. It's no different than the power you get from the grid, except that it is free and it's always used first. If it's night time or there is not enough power from your Panels, then the system seamlessly switches to the grid-to make sure everything runs smoothly.

5. GRID

If you aren't using all your power the electricity from your parents flows into the grid so someone else can use it.

As the grid power is always available, it is therefore not essential that the solar power system be sized to exactly match what your daily power usage is. If you generate more power than what you use, the balance excess power is fed back into the grid. When your system doesn't produce enough power, then you get power from the grid (e.g. night time). Grid interactive solar systems eliminate the need for a battery. In effect, the grid serves as your battery. This means that maintenance costs for your system will be less. It should be noted that without battery storage a grid connected system will shut down when there is no power on the grid.

Generally in all countries, to install a grid connected system, the consumer needs to get the permission from the local Utility Company. The local utility company has rules and procedures that must be followed to connect any Solar Power System to the grid safely and legally.

The feed-in Tariff is a government regulated initiative which was introduced in order to increase levels of renewable energy.

The Tariffs give you three financial benefits:

- A payment for all the electricity you generate, even if you use it yourself
- Additional bonus payments for electricity you export into the grid (= subject to technical compliance or regulation under the feed-in Tariff Scheme)
- A reduction on your standard electricity bill, from using energy you produce yourself



We can offer various grids connected Solar Power Systems to suit your requirement and budget.

THE QUALITY BENEFITS OF GRID-CONNECTED PV SOLAR SYSTEM

What will you gain from switching to solar ?

- » **Big financial savings...** As they do not require a battery system, comparatively easier to install and No maintenance needed.
- » **Effective utilization of Generated power...** There are no storage losses involved.
- » **Reduced or eliminated electricity bills from an environmental-friendly image...** The new feed-in tariffs where you sell the surplus electricity you generate back to the grid, are projected to give you an annual tax free return of 10-16% on that investment for a 20-25 year period and a break even time of about 5-8 years. And that's on top of the cash you will be saving every single day by generating your own electricity. In order to understand how the financial return is achieved, it is necessary to explain the government backed scheme known as the Feed in Tariff.
- » **Reduce your carbon footprint...** Switching to green energy is one of the easiest and quickest ways to reduce your carbon footprint. Solar power is a 'clean' energy resource and an average solar PV system will replace 'dirty' fuel sources and save around 20% of a home's carbon footprint per year.
- » Let your roof work for you by generating clean and safe energy
- » Secure your position in a world of "GREEN" supply chain requirements
- » Potentially increase the value of your home ... More than a third of people say they would be willing to pay more for a home where some of its energy supply came from renewable resources. (Energy Saving Trust survey, 2009) ...



The performance of solar PV systems is impossible to predict with certainty due to the variability in the amount of solar radiation (sunlight) from location to location and from year to year. This estimate is based upon the government's standard assessment procedure for energy ratings of buildings (SAP) and is given as guidance only. It should not be considered as a guarantee of performance.



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