



Solar Energy Simplified

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You Need a PV System to Generate Solar Energy

Solar energy has been around for quite some time. In fact, now is the best time to get it if you want to cut your electric bill and do your share to protect the environment.

For that to happen, you will need to buy a PV system. This is designed to reduce or eliminate the amount of electricity you purchase from the utility especially when there could be a price increase in the next few months.

The best part about the PV system is that it generates clean electricity which is clean, reliable and renewable since it does not emit any harmful gases into the atmosphere.

The PV system must be placed in an area that is free from any obstruction otherwise, it will not be able to capture the sun's rays. A lot of experts say that the south facing roof is best while the east and west is sufficient. If the roof is not available, it can be mounted on the ground.

You should know that PV systems come in various sizes so you should get the one that matches our electrical needs. If you consume about 6,500 kilowatts a year, then a PV system within the 3 to 4 kilowatt range is right for your home. You can measure this by reviewing your past electric bills and making some projections.

Naturally, the size of the PV system will determine the amount of space needed. If you do not use that much electricity, 50 square feet may be sufficient. However, a larger system may require a little over 600 square feet. Just remember that a kilowatt of electricity requires an area of 100 square feet.

Solar energy is converted with the help of an inverter since this is what changes direct current to alternating current. You will also need batteries so excess energy may be stored so you can still use solar energy during the evening or during a power outage.

The size of the PV system is also in direct proportion with the cost. Most cost from \$9 to \$10 per watt and when you include installation, the bill may reach be from \$10,000 to \$20,000.

The cost of the PV system should not discourage you from investing in solar energy. People who use it are able to get tax rebates and it will also increase the value of your home. With that, the only thing to do now is to call a reputable solar energy provider.

One other thing you should know about the PV system is that this should also be connected to your grid. For this to work, you have to enter into an interconnection agreement with your utility.

This agreement will address the issue with regards to the terms and

conditions under which your system is tied up with them. This also includes what is known as net metering which allows you to bank any surplus electricity that your system generates on the electric grid in the same manner that you will be charged accordingly should you consume more electricity than what you have banked.

You need a PV system to generate solar energy. You just need to know what size of a system you require so this can be installed by your solar provider.

An Overview on the Interesting Facts about Solar Energy

There are lots of interesting facts about solar energy. Educating yourself about this will prove to be beneficial in the long run. You can share the information to your loved ones. You can teach them of ways on how they can help to conserve the energy. You can also do your share to help this method to advance if you are a genius in the field. But if you are an ordinary citizen who only wants to enjoy, then feast on. But remember that you also have responsibilities to the environment that you must accomplish in order to do your part in the whole scheme of things.

The Facts that Matter

1. Solar radiation makes it possible for the energy coming from the sun to be used as power source and energy that can in turn be used for many purposes. The technology on this aspect is characterized in two ways. They can either be passive or active. This will depend on the methods that are used to get, convert and allocate sunlight.

What are active solar techniques? These utilize pumps, photovoltaic panels and fans to renovate sunlight into useful resources. These aim to increase the energy supply that is why these can also be referred as supply side technologies. The passive solar techniques, on the other hand, use only selected resources with constructive thermal properties, utilize the kind of spaces that can circulate air naturally and apply the position of buildings

and structures towards the sun. These will lessen the need for other sources and can also be referred as the demand side technology.

2. Solar energy has influenced many factors that surround people. This can be referred in planning and designing buildings. This process can be rooted back at the early days of the architectural history. The Greeks and the Chinese first used such factor in building and constructing their architectural pieces and on their planning methods.

3. Solar energy is also being utilized by the agricultural sector because they rely heavily on its benefits in order to gain more harvest. They developed ways in order to plant the kind of crops that will grow according to the amount of sun that they will be getting for the season. This can also be used to dry the crops, pump water, brooding of chicks and to dry animal manures that can later be used as fertilizers.

4. On seasons like the Little Ice Age, fruit walls were used by French and Chinese farmers to be able to collect and store solar energy to help them keep the plants warm and to speed up the process of ripening of fruits. These walls serve as the thermal masses. The fruit walls that were first developed were perpendicular to the ground and faced the south direction. Over time, innovations were done and slopping walls were used to gain more advantage from the sun.

5. To convert the solar light into heat, people have developed greenhouses. These enable the production and cultivation of specialty crops all year

round. Such innovation made it possible for crops to be produced in untimely seasons and in places where you think that those plants won't grow.

And these are only some of the interesting facts about solar energy. These give you a good peek at how wonderful nature is and how people have developed ways to use it to advance in many aspects of their lives.

Analyzing the benefits of solar energy

We all know that using solar energy is a good thing to do. We have heard, and there are quite a number of them, all about the benefits of solar energy and we can't agree why we can't turn this alternative form of energy source to a primary one. But despite the advantages, solar power has yet to fully make it in the mainstream. Let's go back and discuss a couple of the advantages of solar energy and see why keep going back to fossil fuels for energy resource.

In the long run, solar power saves money. Initial costs of installation and operations may be more expensive than other energy forms but after settling the expenses, you have an energy resource that is free. Nobody charges for using sunlight, right? The return of investment can also be shorter depending on how much energy you use. You won't spend too much on maintenance either plus those photovoltaic cells can last for 15 to 20 years. There are no mechanical or moving parts to oil and maintain nor are there parts that need to be replaced yearly.

Of course solar power is environmental friendly. First its renewable not like fossil fuels which according to studies will be gone in four to five decades. The process of converting energy to usable electricity does not involve the release of toxic chemicals which can harm the environment. Carbon dioxide, nitrogen oxide, sulphur dioxide, lead, and mercury emissions will

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