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Solar panels are useful for both home and business use and CNPV create a range of solar panels for various needs. Here we will look at why using solar panels is so advisable, how there are so many advantages, and a little bit at how they work and the science behind them.

Types of Solar Panel

First of all, note that there are in fact two main types of solar panel. These are 'solar voltaic' and 'solar thermal' solar panels and they are very different. Most people are interested in solar voltaic for their needs. These work by catching light in order to excite tiny particles and cause chemical reactions that result in a current forming that can be converted for home use via a transformer. This then gives you a current that you can use to power your lights, your heating and everything else. Conversely solar thermal panels work slightly differently and are used for a different purpose. Solar thermal panels work by absorbing the heat from the sun rather than the light (hence the word thermal in the title) and they then use this heat in order to heat up tiny tubes that carry water. These small bits of water are moved around the surface area of the solar panels and this then allows them to be heated up by the warmth. After that they can then subsequently be channeled into a swimming pool or a heating system in a home or car and this allows you to create heat. You can't however convert this into energy to power electrical devices.

There are some other distinctions to make between solar panels. For instance you get active and passive panels, and these vary in that active panels will follow the sun in order to get the best amount of heat and light at all times, whereas passive ones just sit still. The former absorbs the most light, but the latter requires the least energy in and of itself and is less complicated.

Benefits

The benefits to you of using solar panels are astronomical and it is highly beneficial to do so. The big benefit with solar panels is that they can absorb light which is completely free and convert this into energy. That then means that you aren't costing yourself a penny when you power things from these devices and this means that despite the cost of installation you actually make huge savings through solar energy. Furthermore another benefit is that it means you aren't reliant on an external form of energy. If there were to be a power cut, or if your energy provider stopped providing for some reason, you would still have energy to continue life as normal.

Ethics

On top of this though using solar panels is great for the environment and it is a great way to feel good about yourself. This is because you are no longer reliant on fossil fuels which means that you a) aren't depleting a finite source of fuel and b) aren't creating damaging carbon emissions.

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