

Understanding Solar Electricity Vs Solar Energy

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Often times, users seek clarity between solar energy and solar electricity. Solar Energy is very broad in scope while generating solar electricity is a gap filling exercise to make supply meet demand in human consumer electrical energy space.

This means solar energy can be utilized (and is actually being utilized) by nature to perform many of its crucial functions. Photosynthesis is an extremely crucial phenomenon in nature, for example. The Sun, according to Astrophysicists, might be around for another 800 million years, making solar energy comparatively eternal and renewable. Solar electricity on the other hand, is purely a demand-supply game and will be relevant so long as it is economical to produce and transmit. The use of solar energy, thus, may outlive the use of solar electricity, just in case the solar electricity generation becomes uneconomical.

Solar electricity is obtained mainly in two different yet related processes. One, you will focus solar radiation to impact the chemicals in a photovoltaic cell (PV cell) and cause electricity to generate, which then will be captured, accumulated, transformed and distributed. In the other process, you will solar energy to directly heat water, generate steam and then drive a bunch of electrical generators that produce electricity.

Since a single photovoltaic (PV) cell does not practically meet the demand, engineering projects create arrays of PVs over large open spaces, to tap the solar radiation for conversion process. This engineering feat requires planning, tight input quality assurance, uncompromised inspection, and reliable testing methodologies.

Once the erected solar PV array system is ready to produce electricity, the next decision would be to finalize the destination of this electricity. One option is to 'enrol' this power with larger regional transmission grids, the other to directly hook up with a 'load' or consumption spot. This really depends on the commercial (power purchase) agreements that the producer entered in to with potential users of electricity.

Maintenance of these vast PV array systems requires specialized knowledge and training. *Nature Born* has the progressively enhancing capabilities not only to establish the solar power generation systems but to maintain them impeccably as well.