

# What are photovoltaics

What is photovoltaic (PV) technology and how does it work? PV materials and devices convert sunlight into electrical energy. A single PV device is known as a cell. An individual PV cell is usually small, typically producing about 1 or 2 watts of power.

The solar panels that you see on power stations and satellites are also called photovoltaic (PV) panels, or photovoltaic cells, which as the name implies (photo meaning "light" and voltaic meaning "electricity"), convert sunlight directly into electricity.

Solar PV systems generate electricity by absorbing sunlight and using that light energy to create an electrical current. There are many photovoltaic cells within a single solar module, and the current created by all of the cells together adds up to enough electricity to help power your home.

3 days ago; Solar cell, any device that directly converts the energy of light into electrical energy through the photovoltaic effect. The majority of solar cells are fabricated from silicon--with increasing efficiency and lowering cost as the materials range from amorphous to polycrystalline to crystalline silicon forms.

A photovoltaic (PV) cell, commonly called a solar cell, is a nonmechanical device that converts sunlight directly into electricity. Some PV cells can convert artificial light into electricity. Sunlight is composed of photons, or particles of solar energy.

Solar technologies convert sunlight into electrical energy either through photovoltaic (PV) panels or through mirrors that concentrate solar radiation. This energy can be used to generate electricity or be stored in batteries or thermal storage.

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