



# How Solar Works

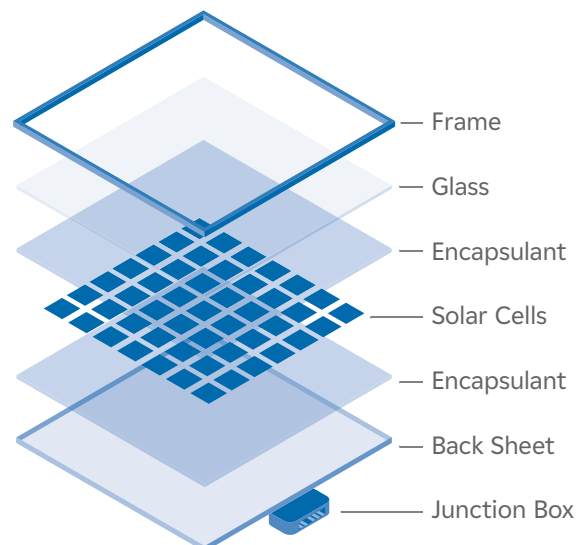
Electricity is central to our modern lives, and there are many ways of generating it - but there are some big differences among the technologies used to create power. Solar, or photovoltaic (PV), power has many advantages: it doesn't create any pollution, it uses a limitless renewable resource, and the "fuel" is free, making it the most affordable source of electricity today.

## From Sunshine to Electricity

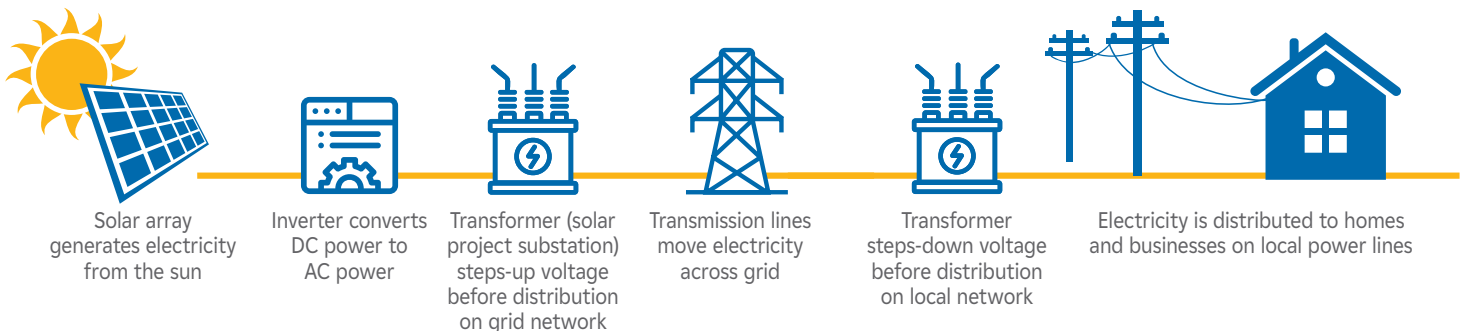
Solar panels contain sheets of solar cells that are sandwiched between layers of other materials. The solar cells are made of semiconductor materials that are also arranged in layers. When sunlight shines on the panels, the solar cells convert the solar energy into direct current (DC) electricity. Next, inverters on the panels convert the DC electricity to alternating current (AC) electricity, which is the form of electricity that is transmitted on the electrical grid.

The AC electricity from each panel in a solar array is gathered using a collection system and fed through a transformer, which ensures that the power is at the correct voltage to be delivered to the grid. The panels are supported by racking systems, which typically enable the panels to change their angle and "track" the sun as it moves across the sky so they can generate as much clean energy as possible.

## PARTS OF A SOLAR PV PANEL



## FROM SOURCE TO DEMAND



Let's connect.



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