



## SOLAR PRODUCTS

Maaya Systems Pvt Ltd has helped families and businesses across our Country / State to become energy independent. Maaya Systems Pvt Ltd has always been on providing quality products and exceptional service to you. We are committed to continually improving our products and services and our aim is to match consumer needs with our leading technologies to deliver holistic solutions. We believe in giving you power. The power not to be the victim of ever-increasing energy bills. The power of the latest technology. That is why we provide some of the world's leading power-saving technology Products From LED light to Solar that use a fraction of a regular LED bulb's electricity to Photo Voltaic systems that produce power from the sun. We believe it is possible to find energy solutions that are both green and affordable. We have built our reputation on quality and commitment to our customers.

We are a service oriented company. When you purchase a system from us, our experienced engineering staff will advice on system sizing, equipment selection, installation and operation.

### General information on solar cell technology

Solar cells directly convert sunlight into electricity by means of the photo voltaic effect. This occurs when photons are absorbed by a solar cell which generates a voltage across its terminals. Cells are connected in series within a solar module to provide sufficient voltage to operate a system. Modules can be connected in series and parallel to increase the system power. This solid state process provides a clean, silent, non polluting and reliable source of electrical energy.

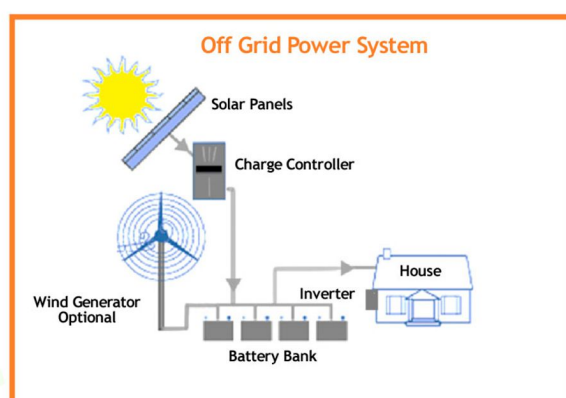
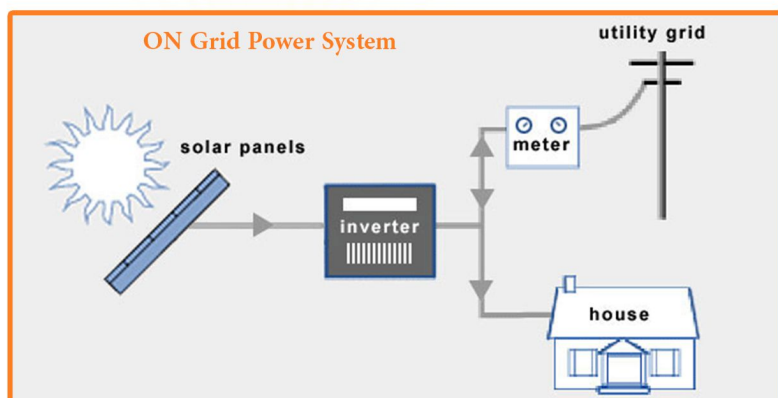


## ON GRID SOLAR SYSTEM

A grid-tied electrical system, also called 'tied to grid' or 'ON grid tie system', is a semi-autonomous electrical generation or grid energy storage system which links to the mains to feed excess capacity back to the local mains electrical grid.

When insufficient electricity is generated, electricity drawn from the mains grid can make up the shortfall.

With the opportunity to feed back into the grid in certain areas, its a great opportunity to reduce your electricity consumption with your local provider.



## OFF GRID SOLAR SYSTEM

The term off-grid refers to not being connected to a grid, mainly used in terms of not being connected to the main or national electrical grid. In electricity, off-grid can be stand-alone systems (SAS) or mini-grids typically to provide a smaller community with electricity. Off-grid electrification is an approach to access electricity used in countries and areas with little access to electricity, due to scattered or distant population.

It can be any kind of electricity generation. The term off the-grid (OTG) can refer to living in a self-sufficient manner without reliance on one or more public utilities. The downside of Off Grid systems, or Island systems, lies in the cost of batteries. Batteries have a limited life span when used continuously. Large battery systems are required to unsure depth of discharge is limited.