Types of Solar Systems

Grid-tied PV System

The sun's energy is delivered to the solar modules.

Solar modules convert the sunlight into direct current (DC) electricity.

An inverter converts the DC electricity into alternating current (AC) electricity.

The AC electricity can now be used to power your home.

Any excess electricity you generate is sent back to the grid and you receive a credit, which you can use when your electrical requirements exceed your production.

Off-Grid PV System

The sun's energy is delivered to the solar modules.

Solar modules convert the sunlight into DC electricity.

A charge controller is used to protect the batteries from being overcharged.

The battery bank, is charged during the day, and this stored energy is then used at night.

A battery-based inverter converts the DC electricity from the batteries, or straight from the charge controller into AC electricity.

The AC electricity can now be used to power your home.

Hybrid PV System

The sun's energy is delivered to the solar modules.

Solar modules convert the sunlight into DC electricity.

A charge controller is used to protect the batteries from being overcharged.

Batteries are charged and store energy for use during power outages.

A battery-based inverter converts the DC electricity from the batteries, or straight from the charge controller, into AC electricity.

During a grid power outage, your backed-up loads will be powered by the batteries.

The AC electricity can now be used to power your home.

Any excess electricity you generate is sent back to the grid and you receive a credit, which you can use when your electrical requirements exceed your production.

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