





Hybrid Solar System

Hybrid solar systems generate power in the same way as a common grid-tie solar system but use special hybrid inverters and batteries to store energy for later use. This ability to store energy enables most hybrid systems to also operate as a backup power supply during a blackout, similar to a UPS system.

Traditionally the term hybrid referred to two generation sources such as wind and solar but in the solar world the term 'hybrid' refers to a combination of solar and energy storage which is also connected to the electricity grid.

HYBRID SOLAR SYSTEM Solar Panels convert sunlight instantly into DC electric power Charge Controller controls the amount of electricity that is converted to the battery system Main Switch Box controls the power from solar or Inverter converts DC power from provided power. Utility Meter spins backto standard household AC wards when solar electiricty power for use in the home generation exceeds electricity consumption. Battery Bank where energy is stored until it is used by the home. Consumer Loads the amount of electricity used by the household.

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Hybrid System Advantages

- Allows you to store excess solar or low cost (off-peak) electricity.
- Allows use of stored solar energy during peak evening times (known as self-use or load-shifting)
- Most hybrid inverters have backup power capability.
- Reduces power consumption from the grid (reduced demand)
- Enables advanced energy management (ie. peak shaving)



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