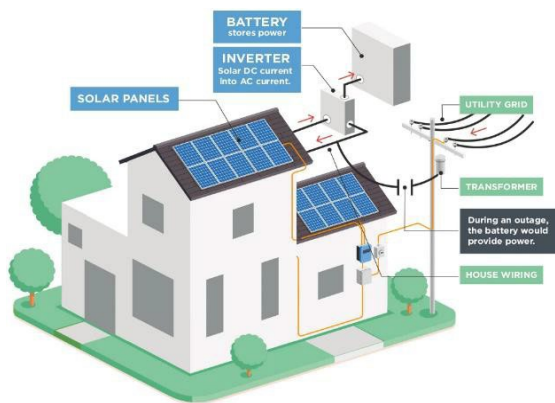


Solar Battery Storage Systems

Clean Energy When the Grid Is Up. Resilient Power When the Grid Is Down.

Solar and Battery Storage System

A solar battery storage system is an integrated energy system that combines solar photovoltaic panels with battery energy storage to generate, store and discharge electricity for use during periods when the electric grid goes down. It can operate as part of a microgrid when designed and fitted with the right controls and equipment, to facilitate the operational needs of critical facilities in the event of grid outage.



Resilience Benefits

- Provides backup power for essential equipment.
- Provides an alternative source of electricity.
- Reduce fuel dependence during power outages.

Sustainability Benefits

- Generates renewable electricity.
- Reduces reliance on fossil-fuel based electricity.
- Reduces greenhouse gas emissions.

Energy Management Benefits

- Stores electricity for later use.
- Reduces peak electricity demand.
- Provides benefits during normal grid operation.

Climate Hazards and Potential Benefits of Solar Battery Storage System

Climate Hazards	Potential Benefits
Extreme heat	Support critical cooling equipment.
Winter storms	Maintain selected heating and household loads.
Heavy rainfall/flooding	Maintain critical electrical equipment where safely located.
High winds	Provide backup during grid outages.

FAQs

- *How long will the battery last?*
Battery longevity depends on battery size, household loads and solar availability.
- *What can it power?*
It can power critical appliances and equipment selected by business or homeowners.
- *What are the potential limitations?*
Weather, battery capacity, household demand and cost.
- *Is it right for my home or facility?*
Consider energy use, outage history, critical needs, property characteristics and financial considerations.

Why do solar battery storage systems matter?

They provide an additional source of electricity which helps maintain essential functions when the grid is down due to flooding, severe weather, and other climate stressors. This safeguards electric power and ensures that the impact of these disruptions to everyday life and business, vital to our communities, are minimized.



PRINCE WILLIAM
Sustainability