

**EQACC SOLAR**

# **Solar power with grid backup in America**



## Overview

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How much solar power did the US install in 2025?

LAS VEGAS and WASHINGTON, D.C. — The U.S. solar industry installed nearly 18 gigawatts (GW) of new capacity in the first half of 2025. Even as the Trump administration rolled out a series of anti-clean energy policies, solar and storage still accounted for 82% of all new power added to the grid in its first six months.

Are solar and storage the backbone of America's energy future?

“Solar and storage are the backbone of America’s energy future, delivering the majority of new power to the grid at the lowest cost to families and businesses,” said SEIA president and CEO Abigail Ross Hopper.

Can solar power provide back-up power during a power outage?

By offsetting capital and operational costs through routine day-to-day bill savings, solar-battery systems can provide back-up power during outages without imposing additional expenses on households. Back-up viability refers to a household’s ability to maintain affordable back-up power using solar PV, battery storage or both during grid outages.

How many GW of solar & battery storage will be added in 2024?

Together, solar and battery storage account for 81% of the expected total capacity additions, with solar making up over 50% of the increase. Solar. In 2024, generators added a record 30 GW of utility-scale solar to the U.S. grid, accounting for 61% of capacity additions last year.

## Solar power with grid backup in America

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### Solar, battery storage to lead new U.S. generating capacity

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We expect 63 gigawatts (GW) of new utility-scale electric-generating capacity to be added to the U.S. power grid in 2025 in our latest Preliminary Monthly Electric Generator ...

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### Net Metering, Backup Power, Grid Dependence, Costs, ...

Unleashing the Power of Grid-Connected Systems: Exploring Net Metering, Backup Power, and More The growing interest in renewable energy solutions has propelled grid-connected ...

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### FERC: Renewables made up 88% of new US power ...

Renewables accounted for 88.5% of all new US power generating capacity to September 2025, while natural gas added just 11.2%, reports FERC.

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## Evaluating the potential for solar-plus-storage backup power ...

Adoption of residential behind-the-meter solar photovoltaic-plus-storage systems (PVES) is driven, in part, by customer demand for backup power. Howe...

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## Solar and battery can reduce energy costs and provide

Rooftop solar and battery storage can reduce energy costs and provide affordable back-up power for over 60% of US households, but benefits often bypass the high outage risk ...

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## Solar energy on the rise in America

The Energy Information Administration (EIA) reported that, in 2024, the United States added a record 30 gigawatts (GW) of utility-scale ...

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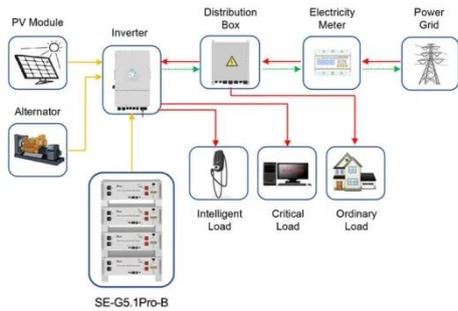
## REPORT: Solar and Storage Dominate New Power Additions

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LAS VEGAS and WASHINGTON, D.C. -- The U.S. solar industry installed nearly

18 gigawatts (GW) of new capacity in the first half of 2025. Even as the Trump administration ...

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Application scenarios of energy storage battery products

## Solar panels and batteries lead US power generation in 2025

Wind Power and Natural Gas: A Mixed Outlook While wind power saw limited growth expectations for 2025--with an addition forecasted at just 7.7 gigawatts compared to ...

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## Solar Battery Backup Storage Systems: All You ...

Solar battery backup storage systems are becoming an increasingly popular addition to home solar power setups. These systems ...

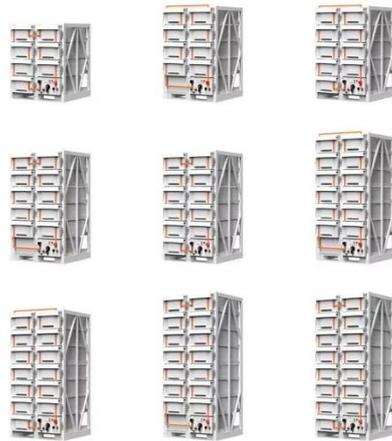
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## Grid-Connected Renewable Energy Systems

In addition, power providers (i.e., electric utilities) in most states allow net metering, an arrangement where the

excess electricity ...

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## Solar energy on the rise in America

The Energy Information Administration (EIA) reported that, in 2024, the United States added a record 30 gigawatts (GW) of utility-scale solar to the grid, accounting for 61% ...

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## Most U.S. households can save money and ...

For most American families, installing solar panels and battery packs can lower electricity costs and manage local and regional power ...

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## Solar is 77.7% of new capacity added to U.S.

The Federal Energy Regulatory Commission (FERC) released its Energy Infrastructure Update, highlighting grid-



scale project additions ...

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## The Best Solar Batteries of 2025: Find Your ...

We rank the 8 best solar batteries of 2025 and explore some things to consider when adding battery storage to a solar system.

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## ERCOT's Market is Transitioning Toward Storage and Solar

9 hours ago Clean Energy ERCOT's Market is Transitioning Toward Storage and Solar Capacity additions to the Texas grid continue to be led by renewables.

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## Hybrid Solar System , Solar Panel System with ...

A Home Solar Panel System with Battery Backup that is connected to the power

grid cuts down your energy bills. Reduce your carbon footprint and ...

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### Solar is 77.7% of new capacity added to U.S. grid in 2025

The Federal Energy Regulatory Commission (FERC) released its Energy Infrastructure Update, highlighting grid-scale project additions through April 2025. Solar ...

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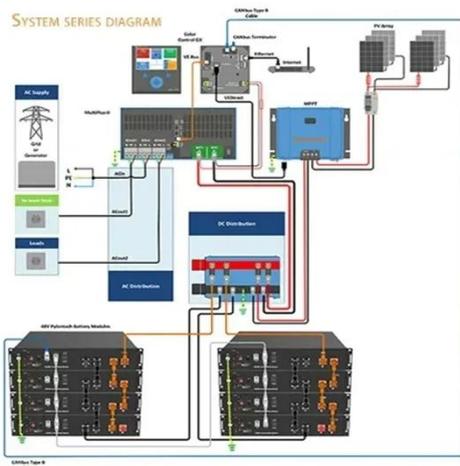
### Smart Energy in Action: JA Solar's first BESS for C& I in Sicily, ...

2 hours ago Intelligent Energy Management: The system utilizes JA Solar's advanced control technology combined with a locally-sourced Italian Energy Management System (EMS) to ...



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### Retrofitting your solar system: can i add a home battery backup ...



Adding a home battery backup solves this significant problem immediately. A battery system allows your solar energy to be stored for later use. It creates a critical microgrid for ...

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## Most U.S. households can save money and weather blackouts with solar

For most American families, installing solar panels and battery packs can lower electricity costs and manage local and regional power outages affordably, a new Stanford ...

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## Solar panels and batteries lead US power ...

Wind Power and Natural Gas: A Mixed Outlook While wind power saw limited growth expectations for 2025--with an addition ...

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## How Solar Battery Backup Is Reshaping the US Power Grid

Learn how solar battery backup systems are transforming the US power grid.

Learn about resilience, savings, modular systems & their role in decentralized energy.

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