

# **Total investment in wind solar and lithium storage**





## Overview

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London, August 26, 2025 – Global investment in new renewable energy projects hit a record \$386 billion in the first half of 2025, up 10% from the previous year. How much funding is there for lithium-ion battery energy storage?

No wonder there is so much attention on the funding of lithium-ion battery energy storage systems (BESS). The DOE announced over \$3 billion in BESS grants in 2024 for 25 selected projects across 14 states. BESS provides up to four hours of energy storage. That's a good start.

What percentage of lithium-ion batteries are used in the energy sector?

Despite the continuing use of lithium-ion batteries in billions of personal devices in the world, the energy sector now accounts for over 90% of annual lithium-ion battery demand. This is up from 50% for the energy sector in 2016, when the total lithium-ion battery market was 10-times smaller.

How has the inflation Reduction Act impacted battery storage?

With the rise of solar and wind capacity in the United States, the demand for battery storage continues to increase. The Inflation Reduction Act (IRA) has also accelerated the development of energy storage by introducing investment tax credits (ITCs) for stand-alone storage.

What is the share of renewables in total capacity expansion in 2024?

The share of renewables in total capacity expansion has increased significantly in 2024 and reached 92.5%, compared to 85.8% in 2023. The renewable share of total installed power capacity also rose by more than three percentage points from 43.1% in 2023 to 46.4% in 2024.

What are the options for long duration energy storage (LDEs)?

Here are some of the main options for long duration energy storage (LDES). Mechanical energy storage solutions are among the most mature of the LDES



options. This category includes two primary forms of mechanical technologies: compressed air energy storage (CAES) and pumped hydro systems.

How has the IRA accelerated the development of energy storage?

The Inflation Reduction Act (IRA) has also accelerated the development of energy storage by introducing investment tax credits (ITCs) for stand-alone storage. Prior to the IRA, batteries qualified for federal tax credits only if they were co-located with solar. Wind.



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### Clean Energy Investing in America

The new incentives offer companies significant opportunity to invest in new utility-scale wind, solar, and storage projects and manufacturing facilities, while passing on savings to American ...

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### How to Efficiently Store Clean Energy: Exploring the Best Battery

**Lithium-Ion Batteries** Lithium-ion batteries are renowned for their high energy density and long cycle life, making them an excellent choice for small to medium-scale solar ...

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### Global Renewable Energy Investment Still Reaches New Record ...

London, August 26, 2025 - Global investment in new renewable energy projects hit a record \$386 billion in the first half of 2025, up 10% from the previous year. However, asset finance for utility ...

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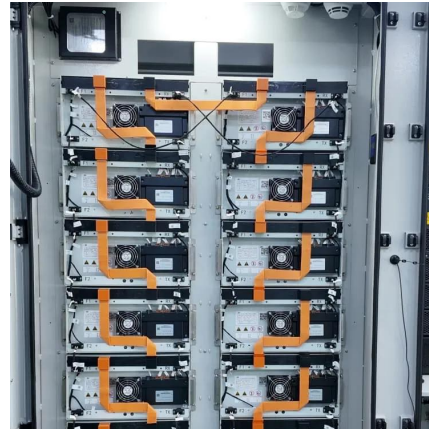
### Renewable Capacity Highlights 2025

Solar and wind energy continued to dominate renewable capacity expansion, jointly accounting for 96.6% of all net renewable additions in 2024. And 2024 marks the highest annual increase in



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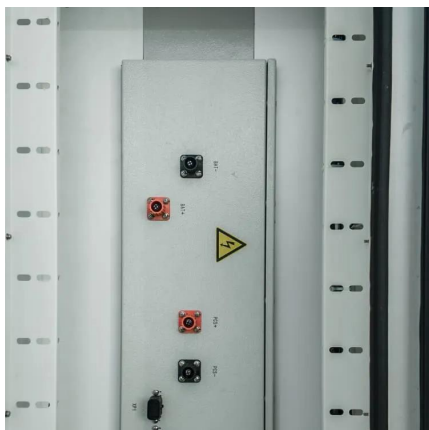
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### Solar Market Insight Report Q3 2025

4 days ago · 1. Key Figures The US solar industry installed 7.5 gigawatts direct current (GW dc) of capacity in Q2 2025, a 24% decline from Q2 2024 and a 28% decrease since Q1 2025. Solar ...

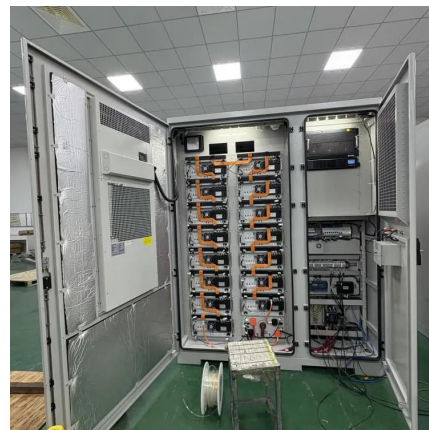
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### Executive summary - Batteries and Secure Energy Transitions - ...

Strong growth occurred for utility-scale battery projects, behind-the-meter batteries, mini-grids and solar home systems for electricity access, adding a total of 42 GW of battery storage capacity ...

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### Top 10 Energy Storage Investors in North America , PF Nexus

Discover the current state of energy storage investors in North America, learn about buying and selling energy storage projects, and find financing options on PF Nexus.

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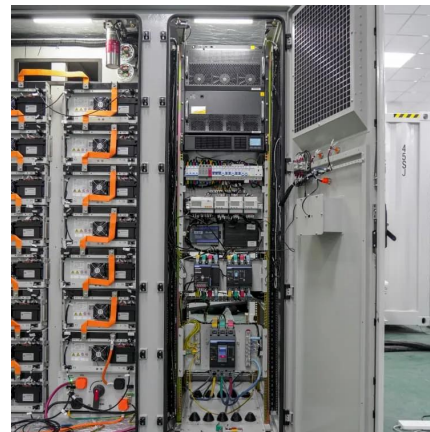




## **Energy investment to hit record \$3.3 trillion in 2025, driven by ...**

The surge is largely propelled by a massive wave of spending on clean energy technologies, which are set to attract \$2.2 trillion -- two-thirds of total investment. This record ...

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## **Utility-Scale Battery Storage , Electricity , 2024 , ATB , NREL**

The 2024 ATB represents cost and performance for battery storage with durations of 2, 4, 6, 8, and 10 hours. It represents lithium-ion batteries (LIBs)--primarily those with nickel manganese ...

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## **Solar and battery storage to make up 81% of new U.S. electric**

With the rise of solar and wind capacity in the United States, the demand for battery storage continues to increase. The Inflation Reduction Act (IRA) has also accelerated ...

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## **The expansion of renewable generation spurs investment, ...**

But longer-term forms of storage are urgently needed to increase the efficiency of a renewable-heavy grid. Here are some of the main options for long duration energy storage ...

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### How much is the total investment in energy storage and new ...

Transitioning from fossil fuels to renewable sources such as solar, wind, and hydro involves a staggering amount of investment. According to recent reports, the total global ...

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### [BESS in North America\\_Whitepaper\\_Final Draft](#)

Battery energy storage - a fast growing investment opportunity Cumulative battery energy storage system (BESS) capital expenditure (CAPEX) for front-of-the-meter (FTM) and behind-the ...

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### Energy storage - an accelerator of net zero target with US

We expect solar/wind plus storage grid parity in 2025E (previously 2027E) owing to faster cost reductions from BESS and solar/wind. There is a growing number of countries targeting net ...

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### [White paper BATTERY ENERGY STORAGE SYSTEMS...](#)

The majority of newly installed large-scale electricity storage systems in recent years utilise lithium-ion chemistries for increased grid resiliency and sustainability. The capacity of lithium ...

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### **Executive summary - The Role of Critical Minerals in Clean ...**

An energy system powered by clean energy technologies differs profoundly from one fuelled by traditional hydrocarbon resources. Solar photovoltaic (PV) plants, wind farms and electric ...

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