

**JH Solar**

# **Oversupply of energy storage cell projects**



## Overview

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The global cell shipments in 2022 reached 144 GWh, while the installed capacity amounted to only 44 GWh, a gap of more than three times. InfoLink estimates that the cell shipments in 2023 will exceed 230 GWh, with a grid-connected capacity coming in at 95 GWh. This figure indicates that the gap.

While oversupply remains a feature of the lithium-ion battery production landscape, large production volumes are accelerating innovation and enhancing energy storage competitiveness. S&P Global analysis reveals that balance is likely to return to the global market in the coming years as stationary.

Spyros Foteinis highlights the acknowledged problem that an insufficient capacity to store energy can result in generated renewable energy being wasted (Nature 632, 29; 2024). But the risks for power-system security of the converse problem — excessive energy storage — have been mostly overlooked.

For many regions, oversupply of renewable electricity during sunny and windy periods with low grid demand creates its own economic and operational challenges. In California, more than 2.7 TWh of renewable energy—primarily solar—was curtailed last year during such conditions. And in the Midwest.

A recent report by SBICAPS projects that India will add 30 GW of energy storage capacity (battery storage, pumped storage, etc) through standalone and firm and dispatchable renewable energy (FDRE) projects by June 2027.

This would bring the country's total storage capacity to 36 GW—far exceeding. How will battery overproduction and overcapacity affect the energy storage industry?

Photographer: Krisztian Bocsi/Bloomberg Battery overproduction and overcapacity will shape market dynamics of the energy storage sector in 2024, pressuring prices and providing headwinds for stationary energy storage deployments. This report highlights the most noteworthy developments we expect in the energy storage industry this year.

How do battery storage systems improve grid resilience?

ing supply and demand (see Figure 9). However, battery storage systems helped bridge the gap by providing stored energy when solar generation was unavailable, demonstrating their importance in enhancing grid resilience and ensuring uninterrupted energy supply, especially in regions heavil.

Why is energy storage oversupply a problem?

The expansion is driven mainly by local governments and lacks coordination with new energy stations and the power grid. In some regions, a considerable storage oversupply could lead to conflicts in power-dispatch strategies across timescales and jurisdictions, increasing the risk of system instability and large-scale blackouts.

Is excessive energy storage a problem?

Spyros Foteinis highlights the acknowledged problem that an insufficient capacity to store energy can result in generated renewable energy being wasted (Nature 632, 29; 2024). But the risks for power-system security of the converse problem — excessive energy storage — have been mostly overlooked.

Is energy storage a viable option in 2024?

Utility-scale Energy Storage: Forecasted for 2024, new installations are set to reach 55GW / 133.7GWh, reflecting a solid 33% and 38% increase. The decline in lithium prices has led to a corresponding reduction in the cost of energy storage systems, bolstering the economic feasibility of utility-scale energy storage and revitalizing tender markets.

Why are energy storage battery prices falling?

Thanks to an oversupply of lithium carbonate and energy storage battery cells, the prices of energy storage battery cells have plummeted from RMB 0.9/Wh at the beginning of 2023 to below RMB 0.4/Wh, and they are expected to remain at this low level for the foreseeable future.

## Oversupply of energy storage cell projects

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### Oversupply of energy storage inverters

Established in 2012, AERON Energy is a provider of photovoltaic energy storage systems and products, mainly supplying photovoltaic energy storage inverters, energy storage batteries, and ...

### Energy storage safety and growth outlook in 2025

The push toward clean energy targets in 24 states also creates compelling opportunities for energy storage. While established markets like California, Texas and Arizona set the pace, the growing ...

12V 10AH



CE UN38.3 (MSDS)



### Scaling the solar supply chain to 50GW annually: ...

To sustain the rapid growth of demand for solar energy, improving grid integration and energy storage solutions is vital. This is the key bottleneck to the deployment of large-scale utility projects.

### The Energy Storage Fiasco -

Energy from the wind and the sun -- they're clean and green and free. OK, there's the small problem of intermittency. But clearly the intermittency problem can easily be ...



## Lithium battery oversupply, low prices seen through 2028 despite energy

Dive Brief: The global market for lithium-ion batteries is expected to remain oversupplied through 2028, pushing prices downward, as lower electric vehicle production ...

## How viable is battery storage as a solution to Egypt's electricity

Egypt is exploring the potential of energy storage through batteries to combat our electricity oversupply problem: As Egypt continues to suffer from a major oversupply of ...



## Cell Reports Sustainability: Cell Reports Sustainability

The low-supply scenario encompasses clearly defined and active or soon-to-be-active projects, while the high-supply scenario also includes projects with less-certain viability due to uncertain ...

## Enel sells 49% stake in Italy battery storage projects for EUR1.1 billion

Enel has sold a 49% stake in its subsidiary that will own and operate 1.7GW of battery energy storage projects in Italy to investor Sosteneo.

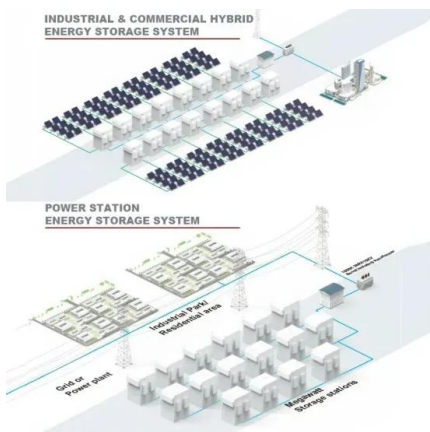
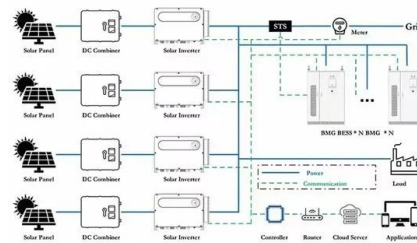


## BNEF report: US\$1.8 trillion of energy transition ...

BNEF's report found that global investment into new renewable energy generation and storage projects rose 8% to US\$623 billion in 2023 compared with 2022.

## Spain's excess supply of solar energy may curb some new projects

? Why it matters for the planet: The oversupply in renewable energy generation risks stalling the development of new solar projects, slowing progress toward reducing reliance ...



## Energy storage overcapacity can cause power ...

But the risks for power-system security of the converse problem -- excessive energy storage -- have been mostly overlooked. China plans to install up to 180 million kilowatts of pumped-storage

## S& P Global: Annual battery cell production passes ...

Solar, wind, and energy storage manufacturers have all entered 2025 facing manufacturing oversupply and fierce competition on price.



## Enel sells 49% stake in Italy battery storage ...

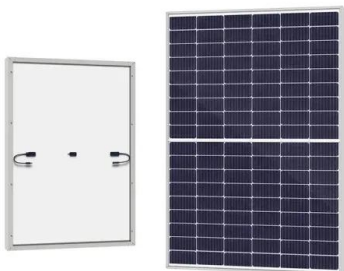
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## Facing the tightening lithium supply challenge in 2025

Fastmarkets projects an oversupply of just 10,000 tonnes in 2025, and swinging to a 1,500-tonne deficit in 2026. "Lithium market conditions - particularly during the latter part of 2024 - led to growing ...

12V 10AH



## Battery energy storage comes of age , Wood ...

Explore how battery energy storage (BESS) is revolutionising renewable energy by enhancing grid stability, reducing curtailment and supporting zero-carbon power generation. Discover key ...

## Global Cost of Renewables to Continue Falling in ...

BNEF's Levelized Cost of Electricity report indicates that the global benchmark cost for battery storage projects fell by a third in 2024 to \$104 per megawatt-hour (MWh), as a glut in supply due to slower electric ...



## Oversupply? Energy storage cell shipments triple installed

Currently, it takes about six months to a year or more to build an energy storage site, which explains why cells shipped in 2022 may not be installed and connected to the grid ...

## Overcapacity in the battery industry

China's drive to build new battery production capacity for electric vehicles and stationary storage is leading to a familiar problem for the Chinese economy; overcapacity.



## Indian Solar Market Faces Module Oversupply Risk, Cell Gap ...

3 ???· Indian Solar Market Faces Module Oversupply Risk, Cell Gap Challenges: SBI Caps The report said that India's solar manufacturing ecosystem has achieved maturity in modules, ...

## Scaling the solar supply chain to 50GW annually: challenges and

To sustain the rapid growth of demand for solar energy, improving grid integration and energy storage solutions is vital. This is the key bottleneck to the deployment of ...



## FREQUENTLY ASKED QUESTIONS ABOUT PROJECT Green turtle

Currently, the difference between supply and demand of energy on the electricity grid is balanced using fossil power plants. Battery parks can take over this role and thus switch off coal and gas ...

## Oversupply of energy storage products in overseas energy ...

The US utility-scale storage sector saw tremendous growth over 2022 and 2023. In 2022, the volume of energy storage installations totaled 11,976 megawatt hours (MWh), which was ...



## Qcells' Historic Investment Supported by

Qcells is one of the world's leading clean energy companies, recognized for its established reputation as a manufacturer of high-performance, high-quality solar cells and ...

## The role of energy storage tech in the energy ...

We need additional capacity to store the energy generated from wind and solar power for periods when there is less wind and sun. Batteries are at the core of the recent growth in energy storage and ...



- LIQUID/AIR COOLING
- ON GRID/HYBRID
- PROTECTION IP54/IP55
- BATTERY /6000 CYCLES

### ESS



## In a world of low-cost batteries, performance matters

Oversupply of lithium-ion battery precursor and active materials - and of lithium iron-phosphate (LFP) batteries, especially in China - has driven energy storage system costs ...

## Account Suspended

The global photovoltaic (PV) market is currently grappling with a severe crisis characterized by oversupply, plummeting prices, and widespread financial losses, contrasting sharply with its ...



## Is there really an oversupply of energy storage

Market fluctuations abroad affect battery pricing for grid storage projects in the US.; Sluggish EV demand in China and an oversupply of lithium on the global market are driving down the price ...

## The age of storage: Batteries primed for India's power markets

The age of storage: Batteries primed for India's power markets Extreme price swings in wholesale electricity markets and growing concerns around grid instability are ...



## Too much solar? How California found itself with ...

How California found itself with an unexpected energy challenge The state is, at times, producing more energy than it can use. That has led it to explore storage options and trim financial incentives.

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