

## Average BESS price per 250MW in Poland



## Overview

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As expected, Poland's latest capacity market auctions have highlighted a significant shift towards the battery energy storage systems (BESS) beside the fact that the de-rating factor has been significantly decreased. The auction held by Polskie Sieci Elektroenergetyczne S.A. (PSE – an electricity.

As of most recent estimates, the cost of a BESS by MW is between \$200,000 and \$450,000, varying by location, system size, and market conditions. This translates to around \$200 - \$450 per kWh, though in some markets, prices have dropped as low as \$150 per kWh. Key Factors Influencing BESS Prices.

The 27th Enex Trade Fair, held on February 18-19, 2025, in Kielce, Poland, underscored the pivotal role of Battery Energy Storage Systems (BESS) in the nation's energy landscape (Targi Kielce). This year's event saw a significant presence of Tier 1 BESS Original Equipment Manufacturers (OEMs).

The Battery Energy Storage Systems (BESS) market in Poland is experiencing significant growth and transformation in Q1 2025. Key investments from major industry players, such as LG Energy Solution and Greenvolt Group, underscore a robust commitment to enhancing Poland's energy storage capacity.

The results of Poland's recent capacity market auction have been revealed, with a clearing price significantly lower than the previous years and IPP Greenvolt saying it won the lion's share of around 1.7GW of BESS awarded contracts. The auction which took place last month (December 2023) cleared at.

While the final results are awaited in January 2025, industry insiders feel the

capacity market auction can catalyze about 2.5 GW of BESS capacity. (Illustrative Photo; Photo Credit: (Petrmalinak / Shutterstock.com) Conducted by Polskie Sieci Elektroenergetyczne (PSE), the capacity market (CM). Will the capacity market kickstart the large-scale Bess market in Poland?

The capacity market is set to kickstart the large-scale BESS market in Poland by providing the basic building blocks of the business case, according to numerous delegates interviewed by Energy-Storage.news at Energy Storage Summit Central Eastern Europe (CEE) 2023 in Warsaw in September.

How much does energy storage cost in Poland?

The CM has been a big driver of the grid-scale energy storage market in Poland. The closing price at the end of the event was PLN 264.90/ kW (\$65/ kW) per year. With such pricing, gas projects stand to become uneconomical, paving the way for battery storage systems to secure contracts.

How many MW rated energy storage systems are there in Poland?

The capacity obligations for these projects ranged from 1.2 MW to 153 MW rated power, with an average capacity of around 30 MW. The decision to reduce the de-rating factor for energy storage systems in the last capacity market auction in Poland from 95 percent to 61 percent did not prove detrimental to the market.

How much does Bess cost?

The cost of BESS has fallen significantly over the past decade, with more precipitous drops in recent years: This is nearly a 70% reduction in three years, owing to falling battery pack prices (now as low as \$60-70/kWh in China), increased deployment, and improved efficiency.

How many GW of Bess capacity has been awarded in 2029?

The Polish capacity market auction for 2029 which awarded more than 8 GW of capacity contracts was a success for battery energy storage projects. While final results are yet to be released in January, industry insiders assess that the procurement exercise could have catalyzed around 4.2 GW of BESS capacity pre-derating.

How much Bess capacity has been pre-derating?

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that the procurement exercise could have catalyzed around 4.2 GW of BESS capacity pre-derating. A derating factor is a multiplier applied to the actual generation capacity of a unit to determine the maximum size of contract it can secure in the capacity market auction.

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### Table 1 . Costs Estimation for Different BESS ...

Download Table , Costs Estimation for Different BESS Technologies. from publication: Break-Even Points of Battery Energy Storage Systems for Peak Shaving Applications , In the last few years

### Clean Horizon reports "crazy" opportunity in Polish ...

For utility scale BESS in 2025, Poland is the place to be. After the liberalisation of the ancillary services market in June 2024, prices initially fluctuated wildly, but have settled at an attractive level. And battery revenues, ...



### Greenvolt wins 1.2GW of BESS contracts in Poland ...

The results of Poland's recent capacity market auction have been revealed, with a clearing price significantly lower than the previous years and IPP Greenvolt saying it won the lion's share of around 1.7GW of BESS ...

### What is the Cost of BESS per MW? Trends and 2025 Forecast

As of most recent estimates, the cost of a BESS by MW is between \$200,000 and \$450,000, varying by location, system size, and market

conditions. This translates to ...



## Potential and challenges of Battery Energy Storage (BESS): The ...

3 On the other hand, modelling the current scenario with limited to just two sources of income i.e. CM and wholesale arbitrage resulted in negative NPV and IRR. It was concluded that before ...

## Poland's new capacity market auction could hamper ...

The draft parameters for this year's capacity market auction in Poland could make the rollout of battery energy storage systems (BESS) much more difficult. The document proposes a significant reduction to the BESS ...

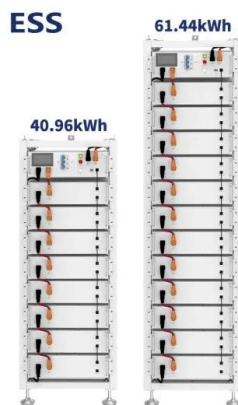


## Energy storage costs

Small-scale lithium-ion residential battery systems in the German market suggest that between 2014 and 2020, battery energy storage systems (BESS) prices fell by 71%, to USD 776/kWh.

## Pacific Green secures 50MW BESS contract in Polish capacity ...

Pacific Green has secured its first capacity market contract in Poland for a 50MW / 200MWh battery energy storage (BESS) project. The contract, awarded in last week's ...



## Europe grid-scale energy storage pricing 2024

This report analyses the cost of lithium-ion battery energy storage systems (BESS) within Europe's grid-scale energy storage segment, providing a 10-year price forecast ...

## How do the costs of battery energy storage systems (BESS) ...

Battery Energy Storage Systems (BESS): Cost: The average cost of BESS ranges from \$400 to \$600 per kWh. Advantages: Li-ion batteries are widely used due to their ...



## Prices in Poland 2025 prices in restaurants, prices of ...

What are the prices in Poland? Wondering how much dinner costs? What is the cost of accommodation? How much money do I need for shopping in a supermarket in Poland? Alicia Roberts recently visited Poland and prepared ...



## Energy Storage Market in Poland: Key Insights from Enex 2025

Poland's energy storage market is growing fast. Discover key insights from Enex 2025 on BESS adoption, investment trends, and grid challenges.



## The rise of bankable BESS projects in Europe

As the renewable energy sector rapidly evolves, battery energy storage systems (BESS) are emerging as a critical pillar for decarbonization. However, with capital constraints and rising market

## Understanding BESS: MW, MWh, and ...

Battery Energy Storage Systems (BESS) are essential components in modern energy infrastructure, particularly for integrating renewable energy sources and enhancing grid stability. A fundamental understanding of ...

ISO 9001 ISO 14001 ISO 45001 CE UN38.3



## BYD to supply 1.6 GWh of battery storage for ...

The Polish arm of Portugal's Greenvolt Group has joined hands with China's BYD on a 400 MW/1.6 GWh battery energy storage system (BESS) deployment in Poland.



## Cost of battery-based energy storage, INR 10.18/kWh, ...

Currently, the cost of battery-based energy storage in India is INR 10.18/kWh, as discovered in a SECI auction for 500 MW/1000 MWh BESS. The government has launched viability gap funding and Production-Linked ...



## Greenvolt wins big at the Polish capacity auction with ...

Greenvolt Group was the biggest winner in the Polish capacity auction held in December 2023. The company was awarded 1.2 GW of capacity for its wholly owned six BESS projects.

## Results Out For Poland Capacity Market Auction For ...

While the final results are awaited in Jan 2025, industry insiders feel the capacity market auction can catalyze about 4.2 GW of BESS capacity on a pre-derated basis.



## Poland's new capacity market auction could hamper ...

The draft parameters for this year's capacity market auction in Poland could make the rollout of battery energy storage systems (BESS) much more difficult. The document proposes a significant

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

Base year costs for utility-scale battery energy storage systems (BESSs) are based on a bottom-up cost model using the data and methodology for utility-scale BESS in (Ramasamy et al., ...

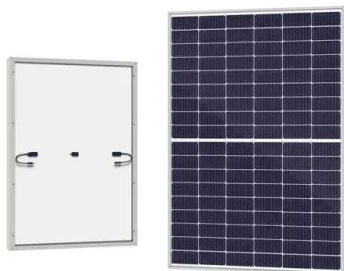


## Understanding MW and MWh in Battery Energy ...

In the context of a Battery Energy Storage System (BESS), MW (megawatts) and MWh (megawatt-hours) are two crucial specifications that describe different aspects of the system's performance. Understanding the ...

## Price list for photovoltaic energy storage system

Let's take a look at the average solar panel battery storage cost, covering different system types and installation prices. Solar PV battery storage costs will depend on a few.



## Cost of electricity by source

The capture rate is the volume-weighted average market price (or capture price) that a source receives divided by the time-weighted average price for electricity over a period.

[16][17][18][19] For example, a dammed hydro plant might only ...

## BESS wins big in Poland capacity market auction for ...

BESS has won big in the Poland capacity market (CM) auction for 2029 delivery, with potentially around 2.5GW of projects winning contracts.

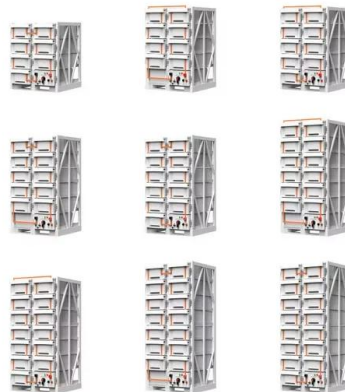


## BESS price of energy storage power station in Poland

State-owned power producer PGE Group has selected LG Energy Solution to provide the BESS for a 263MW/900MWh project it will build in Poland,& #32;for a total of PLN1.555 billion ...

## Prices in Poland 2025 prices in restaurants, prices of food and ...

What are the prices in Poland? Wondering how much dinner costs? What is the cost of accommodation? How much money do I need for shopping in a supermarket in Poland? Alicia ...



## Step-by-Step BOQ for Battery Energy Storage ...

In the rapidly evolving energy landscape, Battery Energy Storage Systems (BESS) play a pivotal role in stabilizing grids, optimizing renewable energy, and ensuring energy reliability. A well-structured Bill of ...

## BESS Capacity Market Poland

Inflation indexed government guarantees for up to 17 years give solid footing to make energy storage a lucrative business in Poland. Our company is able to comprehensively advise on a ...



## **Overview of the Poland Battery Energy Storage ...**

The Battery Energy Storage Systems (BESS) market in Poland is experiencing significant growth and transformation in Q1 2025. Key investments from major industry players, such as LG Energy Solution and Greenvolt Group, ...

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