

Global PV Storage Insights

Successful bid price of household energy storage project in India 2025



Overview

Specifically, recent auction results for storage have been record-breaking: the latest tender for standalone battery energy storage systems (BESS) with two hours' duration in April 2025 saw a winning bid of 2.8-2.85 lacs/MW/month, without any subsidy like the Viability Gap Funding.

Specifically, recent auction results for storage have been record-breaking: the latest tender for standalone battery energy storage systems (BESS) with two hours' duration in April 2025 saw a winning bid of 2.8-2.85 lacs/MW/month, without any subsidy like the Viability Gap Funding.

ems (Standalone ESS) emerging as a key enabler. As the country rapidly scales up variable renewable energy (VRE), Standalone ESS offers a dispatchable solution to address the intermittency of renewables, su andalone ESS functions as an independent asset. Utilities, grid operators or third-party.

Recent energy storage auctions in India reveal record-low prices, with unsubsidized standalone battery storage bids at 2.8 lacs/MW/month and solar+storage bids at 3.1–3.5 INR/kWh Our analysis, based on implied solar and storage costs from these bids and bottom-up global cost estimates, shows that a.

□Of the total ESS capacity, 40% is under various stages of execution, 27% is cancelled and 30% is under tendering process □As of April 2025, BESS capacity of 400 MWh is operational, with ~0.5 GWh worth capacity expected to come online by Q2 2025 Source: Tender nodal agency websites, press.

Standalone Energy Storage Systems (ESS) made up 64 per cent of India's utility-scale tendering in early 2025, highlighting their growing role in the country's renewable energy shift, according to a report by the Institute for Energy Economics and Financial Analysis (IEEFA) and JMK Research &.

In the first half of 2025, India saw strong policy and regulatory support for energy storage systems (ESS), including guidelines for Pumped Hydro, Solar + ESS, and FDRE. Rajasthan mandated ESS for captive projects, and the Ministry of Power extended ISTS waivers and announced VGF for 30 GWh.

National and regional agencies in India tendered for 9.5GW of utility-scale energy storage in the first quarter of 2025, with more than two-thirds for standalone systems. According to a new report from JMK Research and the Institute for Energy Economics and Financial Analysis (IEEFA), tenders for. What are the latest auction results for battery energy storage in India?

India. Specifically, recent auction results for storage have been record-breaking: the latest tender for standalone battery energy storage systems (BESS) with two hours' duration in April 2025 saw a winning bid of 2.8-2.85 lacs/MW/month, without any subsidy like the Viability Gap Funding.

How will India's utility-scale tendering impact energy storage systems?

India's utility-scale tendering sees 64% growth in standalone Energy Storage Systems, driven by government support and renewable energy shift.

How much does a battery energy storage system cost in India?

"In recent auctions, battery energy storage system tenders in Maharashtra and Rajasthan secured tariffs as low as IR219,000-221,000 per megawatt (MW) a month (US\$2,561-US\$2,586/MW/month), representing almost a 40% reduction compared with non-VGF projects with similar specifications," Sharma said.

How many GW of energy storage systems have been tendered?

According to a new report from JMK Research and the Institute for Energy Economics and Financial Analysis (IEEFA), tenders for standalone energy storage systems (ESS) comprised 64% (6.1GW) of the total capacity put out to competitive solicitation between January and March of this year.

How much ESS capacity is operational in 2025?

Of the total ESS capacity, 40% is under various stages of execution, 27% is cancelled and 30% is under tendering process As of April 2025, BESS capacity of 400 MWh is operational, with ~0.5 GWh worth capacity expected to come online by Q2 2025 Source: Tender nodal agency websites, press releases, compiled by Debmalya Sen.

How many GWh of ESS capacity tenders have been shared?

BOO 66% EPC 23% BOOT 7% Others 4% As of April 2025, 153 GWh of ESS Capacity tenders has been shared of which 56 GWh is in various stages of

execution and 55 GWh is in tendering process with 39 GWh tenders cancelled
Technology Breakup of Tenders (GWh) 2018 - 2022 Note: Captures only
projects/ tenders in competitive bidding domain.

Successful bid price of household energy storage project in India 20



REPORT ON ENERGY STORAGE SYSTEMS

This price rationalisation is expected to lead to the realization of sustainable IRR for projects, which should ideally reduce the currently high cancellation rate of tenders and improve lender ...



ESS Technologies: Recent advances and policy developments in energy storage

The adoption of smart grid solutions, vehicle-to-

Government Issues Bidding Guidelines for Pumped ...

The Ministry of Power has issued tariff-based competitive bidding guidelines to procure stored energy from existing, under-construction, or new Pumped Storage Projects (PSP). According to the



List of Upcoming Battery Energy Storage ...

Search all the battery energy storage system (BESS) projects, bids, RFPs, ICBs, tenders, government contracts, and awards in India with our comprehensive online database.

grid integration and hybrid renewable storage projects will further enhance grid stability and energy security. As storage ...



Prayas Energy

India's building sector driven by rapid urban growth is contributing significantly to energy use and carbon emissions. While the Government of India is promoting energy-efficient and ...

SECI awards 420 MW renewables-plus-storage at average price ...

Solar Energy Corp. of India (SECI) has awarded 420 MW of renewable-plus-storage capacity in its 1.2 GW round-the-clock (RTC) power tender. The winning developers ...



Energy Storage Systems (ESS) Overview

3 ???· The challenge with Renewable Energy sources arises due to their varying nature with time, climate, season or geographic location. Energy Storage Systems (ESS) can be used for storing available energy from Renewable ...

The Standalone Energy Storage Market in India 1

Standalone Energy Storage Systems (ESS) are rapidly emerging as a key market, with 6.1 gigawatts of tenders issued in the first quarter of 2025 alone, accounting for 64% of the total ...



Energy Statistics India 2025 , Ministry of Statistics and Program

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The standalone energy storage market in India , IEEFA

Standalone Energy Storage Systems (ESS) are rapidly emerging as a key market, with 6.1 gigawatts of tenders issued in the first quarter of 2025 alone, accounting for 64% of the total utility-scale energy storage ...



1H 2025 Energy Storage Updates

In the first half of 2025, India saw strong policy and regulatory support for energy storage systems (ESS), including guidelines for Pumped Hydro, Solar + ESS, and FDRE. Rajasthan mandated ...

India's First Utility-Scale Standalone Battery Energy ...

NEW DELHI , 8 May, 2025 -- The GEAPP Leadership Council (GLC) today officially announced the launch of India's first utility-scale, standalone Battery Energy Storage System (BESS) project, the largest of its kind in South Asia. ...



There's a sharp surge in energy storage contracts ...

In the last one month, many tenders for energy storage systems have been successfully closed. Here's a list of key tenders won in the last few weeks, their size and the companies that bagged them.

Power Grid Share Price in Focus; Wins TBCB Bid for Uttar ...

...

6 ??? Power Grid Corporation of India Ltd announced that it has emerged as the successful bidder under TBCB to establish an Inter-State Transmission System (ISTS) for evacuating ...



Energy Storage in 2025: What's Hot and What's Next?

The energy storage landscape is changing quickly as scientists work to create better and longer-lasting storage solutions. Experts are focused on improving smart grids to ensure that electricity systems work well and are.

Standalone energy storage systems dominate utility ...

India's utility-scale tendering sees 64% growth in standalone Energy Storage Systems, driven by government support and renewable energy shift.

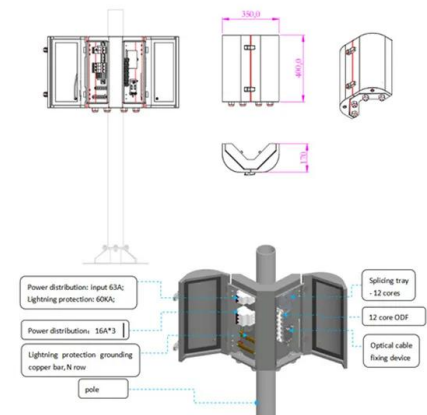


SECI Invites Bids for 125 MW/500 MWh Battery ...

The successful bidder will be awarded the project and will be responsible for the delivery of the contracted capacity, as outlined in the Battery Energy Storage Purchase Agreement (BESPA). The total contracted capacity ...

India Accelerates Energy Storage Push with BESS Developments

India strengthens its clean energy transition with major BESS policy updates, project wins, and 8.1 GWh of new tenders in July 2025.



Ministry of Power issues bidding guidelines for pumped storage projects


The Ministry of Power has issued tariff-based competitive bidding guidelines for procuring stored energy from existing, under-construction, or new Pumped Storage Projects ...

Energy Storage: 10 Things to Watch in 2024

By Yayoi Sekine, Head of Energy Storage, BloombergNEF Battery overproduction and overcapacity will shape market dynamics of the energy storage sector in 2024, pressuring prices and providing headwinds for ...

LIQUID COOLING ENERGY STORAGE SYSTEM

EMS real-time monitoring
No container design
flexible site layout



Cycle Life **≥8000** Nominal Energy **200kwh** IP Grade **IP55**



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 opening up new markets for energy storage. Batteries are now a ...

Plummeting Solar+Storage Auction Prices in India ...

Plummeting costs of solar and battery storage in India along with technological improvements are opening new opportunities for clean and low-cost power generation. Recent energy storage auctions in India reveal record-low prices, ...




Power Conversion System

- Single-stage three-level modularization
- Multi-branch input to reduce battery series and parallels connection

India's battery storage boom: Getting the execution right

India's drive for renewables has accelerated the need for storage, but there are many factors to success, writes Charith Konda of IEEFA.

Battery Energy Storage Systems

Industry Overview India is deeply committed to its transition away from traditional fossil fuels and building its non fossil fuel capacity to at least 500 GW by 2030. The country's cumulative ...



Karnataka awards 700 MWh in 1 GWh battery storage tender

The Karnataka Power Transmission Corp. Ltd has allocated 350 MW/700 MWh to three bidders in its tender for 500 MW/1 GWh battery energy storage system (BESS). The ...

NTPC Green Energy wins major battery energy storage project in ...

Listen to This Article NTPC Green Energy Limited (NGEL) on Thursday said it has won a major battery energy storage project in Kerala, following a successful bid in an e ...



India Energy Storage Linked Tenders Tracker 2018 -2025

As of April 2025, BESS capacity of 400 MWh is operational, with ~0.5 GWh worth capacity expected to come online by Q2 2025 Source: Tender nodal agency websites, press releases, ...

Energy Storage Systems (ESS) Projects and Tenders

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 NEW AND RENEWABLE ...



Reliance, Jindal, SAEL, Sembcorp, JBM, Hindustan ...

SJVN's auction to develop 1,200 MW of ISTS-connected solar projects with 600 MW/2,400 MWh energy storage systems has discovered an L1 tariff (lowest bid) of INR 3.32/kWh. SAEL Industries, Jindal India Renewable ...

Ministry of Power Releases TBCB Guidelines for ...

The Ministry of Power (MoP) has issued new tariff-based competitive bidding (TBCB) guidelines for procuring storage capacity from Pumped Storage Plants (PSPs), focussing on increasing transparency and ...



Bondada, Oriana and Pace Win Telangana's 250 MW/500 MWh ...

Successful bidders can avail viability gap funding (VGF) of INR2.7 million (~\$32,114)/MWh or 30% of the project's capital cost, whichever is lower. Telangana aims to ...

Reliance Infrastructure bags NHPCL's Rs 4,000-crore solar-battery project

This successful bid underscores Reliance Group's continued progress and commitment to becoming a leading player in India's renewable energy sector. It marks a ...



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