

Global PV Storage Insights

Successful bid price of utility scale ESS project in India 2025



Overview

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 Bess tenders have been issued in 2022?

To date, 20 standalone BESS tenders and three pumped hydro energy storage (PHES) tenders have been issued since the first auctions in 2022, comprising 9.33GW of standalone battery storage at 2-hour to 4-hour duration and 19.9GW of PHES at 6-hour to 8-hour duration.

How much ESS capacity is under construction?

Under Construction 18 9.22 33.64 27.45 6.69 Operational 07 0.16 0.40 0.00 0.40 Total 106 43 153 103 51

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What is ESS capacity in India?

led BESS capacity in India is just over 360MWh. Several of the Standalone ESS projects under execution are gigawatt-hours (GWh)-scale and face supply-chain issues with only a handful of vendors available to supply and execute projects at that scale. There is a limited availability of high.

What challenges are facing the young ESS market?

Despite the strong early momentum, the young Standalone ESS market still faces challenges similar to those affecting other areas of India's energy transition.

What are the challenges facing India's ESS market?

argets.12Critical Minerals Availability CrunchAdditionally, India's Standalone ESS market faces a significant challenge in securing a stable and affordable supply of critical minerals such as lithium, cobalt and nickel, which

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[Solar Project Monthly RE Update](#)

The company plans a further investment of up to INR 7.59 million in Cleanmax Kaze by January 2025. Amplus plans to setup solar-wind battery projects in Gujarat by 2025. ...

[What Is ESS Battery Price?](#)

What Is ESS Battery Price? ESS battery pricing varies significantly based on technology, scale, and application. Lithium-ion systems typically range between \$300-\$600 per ...



[Monthly RE Update - April 2025](#)

The last date for the bid submission is 8th May 2025. Monthly RE Update April 2025 - Auctions Completed In March 2025, a total of about 754 MW of renewable energy (RE) ...

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

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) ...



[Roadmap for India: 2019-2032](#)

Energy Storage System Roadmap for India 2019-32 Energy Storage System (ESS) is fast emerging as an essential part of the evolving clean energy systems of the 21st century. Energy ...

India's NHPC awards 1.2 GW of solar-plus-storage at \$0.036/kWh

The renewable energy division of India's National Thermal Power Corporation (NTPC) secured the largest, 300 MW slice of solar generation capacity in the NHPC ...



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. ...

[SMM Analysis]India's SECI Issues Large-Scale Solar Plus ESS ...

[SMM Analysis]On June 19, 2025, the Solar Energy Corporation of India (SECI) issued a Request for Selection (RfS) document, initiating a competitive tendering process. ...



Gensol wins GUVNL's 250 MW/500 MWh standalone

Gensol Engineering Ltd has won the 250 MW/ 500 MWh standalone battery storage tender by quoting the lowest price of INR 3.72 lacs/MW/month.

Energy Storage Systems (ESS) Projects and Tenders

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Standalone energy storage systems account for 64% of tenders: ...

Standalone Energy Storage Systems (Standalone ESS) tenders reached 6.1 gigawatts (GW), which accounted for 64% of all utility-scale energy storage tenders in the first ...

Top 5: Battery Energy Storage Projects ...

Honeywell Automation India Limited (HAIL) has successfully commissioned a microgrid Battery Energy Storage System (BESS) for the Solar Energy Corporation of India's (SECI) project in the Lakshadweep Islands. The ...



Latest Grid-scale/Utility Scale Energy Storage System (ESS) Project

Find All the Grid-scale/Utility Scale Energy Storage System (ESS) Project Contract Awards in India Region with Ease.

What's the size of Energy Storage market in India?

Standalone Energy Storage Systems (ESS) are rapidly emerging as a cornerstone of India's utility-scale energy storage landscape, with recent data showing that ...



India Energy Storage Linked Tenders Tracker 2018 -2025

A total of 0.4 GWh of BESS Capacity is commissioned with 34 GWh (ESS) under execution as of April 2025 Note: Limited to utility scale competitive bid tenders only ...

Q1 2025: ESS Accounts For 64% Utility-Scale Tendering Activity

With continued battery price declines and government support, BESS will likely dominate future Standalone ESS tenders, ensuring faster and more cost-effective energy ...

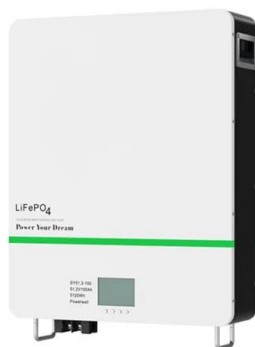


The Standalone Energy Storage Market in India

In the first quarter of 2025, Standalone ESS tenders reached 6.1 gigawatts (GW), which accounted for 64% of all utility-scale energy storage tenders, which included all other use ...

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.



Evolution of grid-scale energy storage system tenders ...

Energy Storage Systems (ESS) will be the next major technology in the power sector over the coming decade. The latest standalone ESS tenders from Solar Energy Corporation of India and NTPC will augment capacity ...

March 2025

India issued a 73 GW utility-scale RE tenders in 2024 India floated tenders for an unprecedented 73 GW of utility-scale renewable energy capacity in 2024, surpassing the 58 GW issued in 2023.



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 ...

India mandates co-locating energy storage with solar projects

India's Ministry of Power has mandated all renewable energy implementing agencies and state utilities must incorporate a minimum of two-hour co-located energy storage ...



Energy Storage Projects Lead SJVN Auction to Record Low

Although most utility-scale "Solar + ESS" tenders issued so far are technology-agnostic, the requirement for solar co-location, along with a short commissioning timeline of 24 ...

Where will lithium-ion battery prices go in 2025?

The rapid decrease in lithium ion battery prices seen in previous years is likely to be slowed down in 2025 due to an uptick in battery material costs. These will in turn be partly offset by falling manufacturing costs ...



Cost Projections for Utility-Scale Battery Storage: 2023 ...

Executive Summary In this work we describe the development of cost and performance projections for utility-scale lithium-ion battery systems, with a focus on 4-hour duration ...

CERC adopts tariff for SECI's 1.2 GW ISTS

The Central Electricity Regulatory Commission (CERC) has adopted the tariff for 1,200 MW interstate transmission system (ISTS)-connected solar PV power projects with 600 MW/1200 MWh energy storage systems ...



India shows urgency for energy storage systems by ...

"ESS trading on power markets is also likely to increase in the coming years, driven by entities aiming to meet their energy storage obligation (ESO) targets and storage developers looking for avenues to sell the excess ...

IEEFA and JMK Research & Analytics Report: India's Standalone ...

The rising demand for Standalone ESS is drawing both established players like JSW Energy, Greenko, and Torrent Power, as well as new entrants such as Pace Digitek, ...



Photovoltaic Solar Energy Monthly RE Update - March 2025

Note: Photovoltaic solar energy includes utility-scale solar, rooftop solar and off-grid/distributed solar segments State wise utility scale solar and wind installed capacity in February 2025 In ...

IEEFA/JMK: India's first grid-scale standalone energy storage ...

Finally, while investors in India are unsure of standalone ESS, successful and timely execution of NTPC and SECI tender projects will help demonstrate the technological ...



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