

Portable ESS system project financing options in India 2025





Overview

Is ESS the cornerstone of India's utility-scale ESS auctions?

“The transition to low-cost. Standalone Energy Storage Systems (ESS) are emerging as the cornerstone of India’s utility-scale ESS auctions, making up 64% of the total tenders floated between January and March 2025, according to a new report by the Institute for Energy Economics and Financial Analysis (IEEFA) and JMK Research & Analytics.

How many GW of ESS are there in 2025?

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 cases of ESS such as Standalone ESS, renewable energy + ESS, and Firm and Dispatchable Renewable Energy (FDRE).

How many GW of ESS capacity did Indian agencies tender in 2025?

The report highlights that Indian agencies collectively issued tenders for 6.1 gigawatts (GW) of Standalone ESS capacity during the first quarter of 2025.

Should GoI promote other ESS Technologies in India?

Other ESS technologies: Currently in India, due to limited technological adoption, only BESS and PSP are being established on widescale. GOI should promote other ESS technologies such as supercapacitor, molten salt and thermochemical storage through production linked incentive schemes for manufacturers and viability gap funding for developers.

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 favourable policy changes for the ESS sector?



Some of these favourable policy changes for the ESS sector are as follows (2):
ESS Legal Status: The Electricity (Amendment) Bill introduced in 2022 provided that ESS developers can lease or sell storage capacities to utility companies and can also themselves buy and store electricity for future sale.



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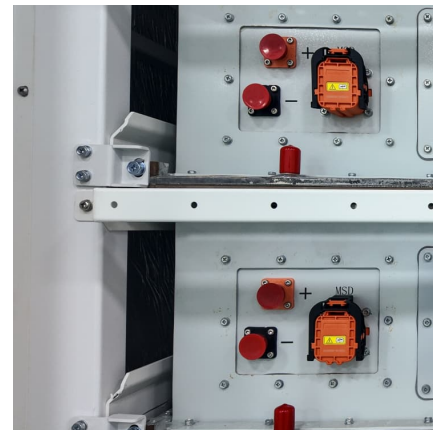


BW ESS Secures Debt Financing for 100MW Bramley BESS Project ...

Global energy storage owner-operator BW ESS has secured debt financing for its 100MW / 331MWh Battery Energy Storage System (BESS) located in Bramley, Hampshire. ...

Flooded with options? The status of pumped storage projects in India

The guidelines also state that Power Finance Corporation (PFC), Rural Electrification Corporation (REC), and Indian Renewable Energy Development Agency ...



Policy Updates: MoP promotes ESS adoption to accelerate India...

In a significant move to accelerate India's transition towards a cleaner power system and promote storage, the Ministry of Power (MoP) has introduced two key policy ...

Energy Storage Market in India

Solar and wind power supply fluctuates, Energy storage systems (ESS) play a crucial role in smoothening out this intermittency and enabling a continuous supply of energy when needed.



Thus, for sustainable renewable energy ...



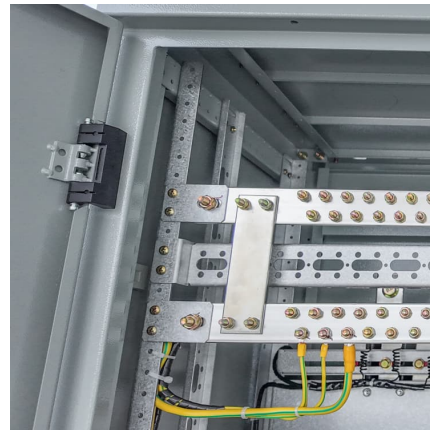
[NTPC REL Invites Bids for 1,200 MW Solar Projects ...](#)

NTPC Renewable Energy (NTPC REL) has invited bids to set up 1,200 MW interstate transmission system (ISTS)-connected solar power projects integrated with a 600 MW/2,400 MWh (600 MW x 4 hours) energy ...



Evolution of Grid-Scale Energy Storage System Tenders in ...

Realising the importance of ESS, the government has come up with several initiatives and policy support for the sector. The government has waived Inter-state transmission system (ISTS) ...



[Electricity Law in India: 2025 Draft Rules on ESS Rights](#)

Explore how India's 2025 Draft Electricity Rules empower consumers to own, lease, and operate Energy Storage Systems under evolving electricity law in India.





[Energy Storage Systems \(ESS\) Projects and Tenders](#)

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Solar Power Projects with 600MW ESS Under Tariff-Based Bidding

NHPC Limited Selection of solar power generators for setting up 1200 MW (1.2 GW) ISTS-connected solar power projects with 600 MW / 2400 MWh energy storage systems ...



Standalone energy storage systems dominate utility-scale tenders in Q1 2025

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 ...



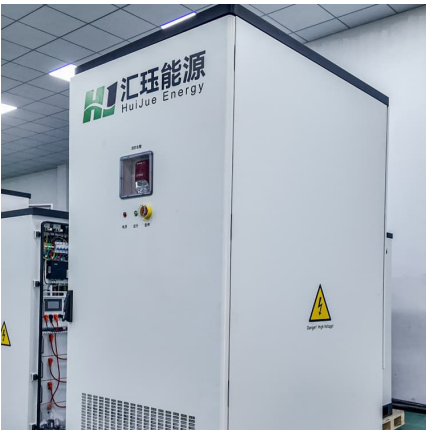
India tenders record 73GW utility-scale renewables as challenges ...

India has seen an increase in tenders seeking hybrid solar-wind and energy storage systems (ESS) capacity in 2024. Chart: IEEFA. India has issued a record 73GW of ...



[BESS - Battery Energy Storage System , Volvo Energy](#)

BATTERY ENERGY STORAGE SYSTEM - POWERING THE FUTURE A Battery Energy Storage System (BESS) has the potential to become a vital component in the energy landscape. As the ...



[Standalone Energy Storage Surges in India's Market](#)

India's clean energy ambitions are driving rapid growth in Standalone Energy Storage Systems (ESS), with 6.1 gigawatts (GW) of tenders floated in the first quarter of 2025, ...

[How to finance battery energy storage , World ...](#)

Battery energy storage systems can address the challenge of intermittent renewable energy. But innovative financial models are needed to encourage deployment.





Portable ESS Solutions_TCPC

This solution is suitable for outdoor power consumption scenarios such as family travel, outdoor exploration, outdoor operations, emergency rescue, and emergency backup. The portable ...

List of Upcoming Grid-scale/Utility Scale Energy Storage System (ESS)

Search all the announced and upcoming GUSESS projects, bids, RFPs, ICBs, tenders, government contracts, and awards in India with our comprehensive online database.



[Energy Storage Systems \(ESS\) Projects and Tenders](#)

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Energy Storage Systems (ESS) Overview

3 ???· Energy Storage Systems (ESS) Overview India has set a target to achieve 50% cumulative installed capacity from non-fossil fuel-based energy resources by 2030 and has pledged to reduce the emission intensity of its ...



BW ESS Secures SEK 628 Million Loan from Nordea Bank for ...

BW ESS has secured a SEK 628 million green loan agreement with Nordea Bank for its 211 MW/211 MWh portfolio of operational battery storage assets in Sweden, owned ...



[Standalone ESS India Presentation , PDF](#)

Key players include JSW Energy, Greenko, and IndiGrid, while challenges such as project cancellations and weak manufacturing persist. The VGF scheme significantly reduces tariffs, ...



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

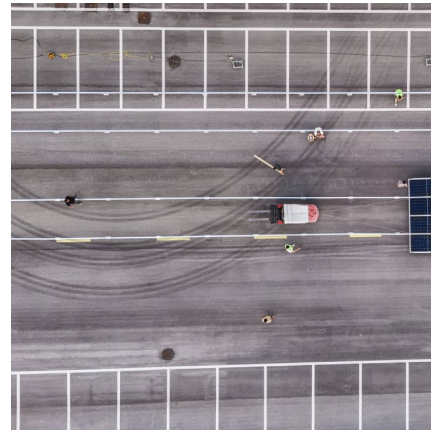
The report also highlights that the government's viability gap funding (VGF) scheme--offering up to 30% capital support for standalone BESS projects--has been a major ...





Presentation

A fracturing of exchange prices reaffirms the need for Energy Storage Systems In May'25, power exchanges observed an unprecedented market bifurcation: spot prices for electricity during ...



SECI Invites Bids For 2000 MW Solar Projects With 4000 MWh ...

The Solar Energy Corporation of India (SECI) has released a new Request for Selection (RfS) on June 12, 2025, inviting bids from developers to set up 2,000 MW of ISTS ...

Battery Energy Storage Systems

Energy storage systems (ESS) play a crucial role in smoothening out this intermittency and enabling a continuous supply of energy when needed. Thus, for sustainable renewable energy ...



Energy storage systems: The key to unlocking India's net-zero goals

Budget 2025 should provide the required push in the form of incentives and tax breaks to foster faster implementation of ESS to keep up with the capacity ramp up of RES in ...



[The standalone energy storage market in India, IEEFA](#)

Beyond contracting delays, the sector faces structural hurdles related to supply chains, manufacturing and financing. India's installed BESS capacity remains limited, with most ...



[ESS Essential for India's Grid Stability Amid ...](#)

ESS Essential for India's Grid Stability Amid Renewable Growth- SBI CAPS' Report SBI Caps' report highlights the vital role of energy storage systems (ESS) in stabilising India's power grid, projecting significant growth in ...

[BW ESS Secures SEK 628 Million Loan from Nordea ...](#)

BW ESS has secured a SEK 628 million green loan agreement with Nordea Bank for its 211 MW/211 MWh portfolio of operational battery storage assets in Sweden, owned in partnership with Ingrid Capacity. The transaction ...





[BESS - Battery Energy Storage System , Volvo Energy](#)

BATTERY ENERGY STORAGE SYSTEM - POWERING THE FUTURE A Battery Energy Storage System (BESS) has the potential to become a vital component in the energy landscape. As the demand for renewable energy and electrification ...

[Financing For Projects And Infrastructure: RBI's New](#)

The Reserve Bank of India (Project Finance) Directions, 2025 aims to provide a clear and standardized framework for regulation of project finance in India, thereby enhancing ...



Project Finance 2024

Project financing is based on long-term cash flows being generated by projects after commissioning, and there is an acute requirement for more long-term capital to provide ...

India's first utility-scale, standalone battery energy ...

BSES Rajdhani Power Ltd's 20 MW/ 40 MWh project is India's first utility-scale standalone battery energy storage system to obtain regulatory approval under Section 63 of the Electricity Act, 2003. The project is supported ...



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