

Government procurement price of standalone energy storage in India



Overview

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 Incentive (PLI) schemes to make battery storage affordable.

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s already surpassed the total issuance in 2024. The Viability Gap Funding (VGF) scheme, which offers up to 30% support for capital expenditure of standalone Battery ESS (BESS) projects, has primarily driven this acceleration. This initiative has addressed declining costs and also made projects more.

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 National Electricity Plan 2023, there will be a need for approximately 74 GW/411 GWh of energy storage.

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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.

Standalone energy storage system (ESS) projects in India are gaining more attention as they account for 64% of the total tenders issued in the first quarter (Q1) of 2025. According to a new report by the Institute for Energy Economics and Financial Analysis (IEEFA) and JMK Research & Analytics.

The Government agrees that in the initial phase of adoption of energy storage technologies, market mechanisms and innovative economic models will be required for development and deployment of energy storage technologies which would be most beneficial to the country in the long-term. The following. Which energy storage system projects are gaining attention in India?

Standalone energy storage system (ESS) projects in India are gaining more attention as they account for 64% of the total tenders issued in Q1.

How much does battery-based energy storage cost in India?

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 Incentive (PLI) schemes to make battery storage affordable.

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.

Which initiatives have been taken to promote growth of energy storage technologies?

The following initiatives have been taken to promote growth of energy storage technologies: Legal status for Energy Storage Systems (ESS) has been issued by Ministry of Power (MoP) on 29th January 2022 wherein ESS has been designated as a Power System element which can be utilized as a Generator, Transmission or Distribution element.

How many energy storage systems are needed in 2023?

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 National Electricity Plan 2023, there will be a need for approximately 74 GW/411 GWh of energy storage systems (ESS) by 2031-32.

What is revised scheme for flexibility in generation & scheduling of power stations?

Revised Scheme for Flexibility in Generation and Scheduling of Thermal/ Hydro Power Stations through bundling with Renewable Energy and Storage Power has been notified vide order dated 12th April 2022. Bidding Guidelines for Battery Energy Storage Systems (BESS) have been notified by MoP vide Resolution dated 10th March 2022.

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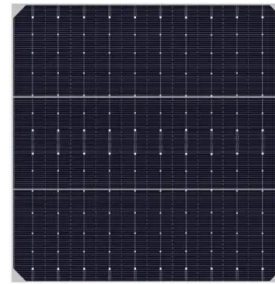


CENTRAL ELECTRICITY REGULATORY COMMISSION ...

Petition No. 138/AT/2024 : Petition under Section 63 of the Electricity Act, 2003 for adoption of tariff for Pilot Projects of 500 MW/1000MWh Standalone Battery Energy Storage Systems in ...

India's Energy Storage to Grow 5X by 2032, Driven by INR4.79 ...

India is rapidly emerging as a global hub for energy storage, driven by strong government support and a vision to achieve climate resilience and grid stability. At the heart of ...



Battery Storage is here: A game-changer for India's ...

A report by JMK Research in 2023 commented on the rise of grid-scale energy storage systems (ESS) via demand-driven tenders, and how this was becoming important for the grid integration of

Renewable Energy based

The factors such as declining prices of lithium-ion batteries and government initiatives to promote energy storage deployment are likely to drive the

India BESS market.



Request for Selection (RfS) Document for setting up of Pilot ...

Request for Selection (RfS) Document for setting up of Projects of 400 MW/800 MWh Standalone Battery Energy Storage Systems with Additional Green shoe Option of 400 MW/800 MWh in ...

Grid-scale energy storage system bids in India are ...

Tenders for energy storage systems are likely to include innovative business models like energy trading, emphasise alternative technologies, and mandate the use of locally produced batteries. Energy ...



 **LFP 12V 100Ah**



India launches 500MWh BESS tender, as competition ...

NTPC is among the government-owned entities that have been holding tenders in India for battery storage, either standalone or in hybrid pairing with generation facilities, along with others, such as the Solar Energy ...

Procurement Of 300 Mw/1200 Mwh Standalone Battery Energy Storage ...

This tender is from the country of India in Asian region. The tender was published by Uttar Pradesh Power Corporation Limited on 12 Aug 2024 for Procurement Of 300 Mw/1200 Mwh ...



Jan-2025 Implementation Of Standalone 250mw/500mwh Battery Energy Storage

Bid for tender to Jan-2025 Implementation Of Standalone 250mw/500mwh Battery Energy Storage System (bess) Project, Including 12 Years Comprehensive Om At Dvc Maithon. by DAMODAR ...

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 ...



500 MW/2,000 MWh standalone battery energy storage systems ...

Bid for tender to 500 MW/2,000 MWh standalone battery energy storage systems (BESS) by Rajasthan Floats in India. Access documents, deadlines, and CPV details on Tender Impulse..



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

Executive Summary 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 ...



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.

Standalone energy storage projects nearly 65% of issued Q1 ...

Standalone energy storage system (ESS) projects in India are gaining more attention as they account for 64% of the total tenders issued in the first quarter (Q1) of 2025.





'Battery energy storage market in India is on the cusp of ...

By supporting the deployment of these storage technologies, GEAPP is not only promoting BESS adoption but also aiding in strengthening India's energy system for the long ...

BESS Support Grows: VGF Scheme Expanded for 30 GWh in India ...

Share this: VGF Scheme Expands to Support 30 GWh of New Standalone BESS Development in India In a major policy push to support grid-scale energy storage, the ...



Setting Up Of 500 Mwh Standalone Battery Energy Storage ...

This tender is from the country of India in Asian region. The tender was published by Government of Bihar- >Bihar State Power Generation Company Limited->BSPGCL on 25 Apr 2025 for ...

India: 'Critical inflection point' for standalone energy ...

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 ...

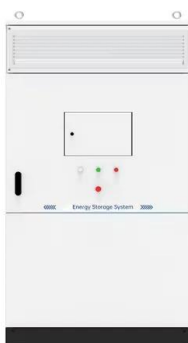
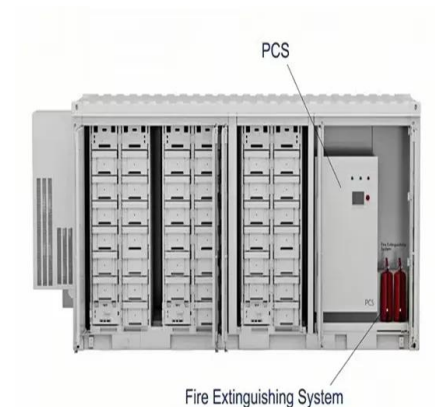


[NEW DELHI ./ Petition No. 138/AT/2024](#)

IN THE MATTER OF: Petition under Section 63 of the Electricity Act, 2003 for adoption of tariff for Pilot Projects of 500 MW/1000MWh Standalone Battery Energy Storage Systems in India ...

Guidelines for Procurement and Utilization of Battery Energy ...

"This has been possible with the downward trend of cost of solar panels and newer technology options like battery energy storage systems. In fact, the reduction in cost projections is very ...



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 ...

India's Top Battery Energy Storage Tenders in 2024 [Infographics]

The share of solar and wind energy in India's power mix was over 30% as of September 2024. The demand for utility-scale energy storage systems in India is primarily from ...



BATTERY ENERGY STORAGE PURCHASE AGREEMENT ...

WHEREAS: Ministry of Power, Government of India has issued "Guidelines for Procurement and Utilization of Battery Energy Storage Systems as part of Generation, Transmission and ...

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 ...



PROCUREMENT UNDER TARIFF-BASED GLOBAL ...

Bid for tender to PROCUREMENT UNDER TARIFF-BASED GLOBAL COMPETITIVE BIDDING REQUEST FOR SELECTION (RFS) DOCUMENT FOR SUPPLY OF ENERGY FROM 250 ...



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



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

New Delhi , 08 May 2024 -- In a significant step forward for India's energy transition, the Delhi Electricity Regulatory Commission (DERC) has granted regulatory approval of India's first commercial standalone Battery Energy ...



Two solar-plus-storage and ESS tenders launched in India

India's National Thermal Power Corporation has launched a tender for 1,200MW of solar PV with 600MW/2,400MWh of energy storage systems.





Plummeting Solar+Storage Auction Prices in 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, ...

Energy Storage Technology

Waiver of ISTS Charges on Hydro Pumped Storage Projects (PSP) and BESS Projects, commissioned up to 30.06.2025, has been provided vide order dated 23rd November ...



Energy Storage Archives

4 ???· Chhattisgarh DISCOM Invites Bids for 760 MWh Battery Energy Storage Systems
 Chhattisgarh State Power Distribution Company (CSPDCL) has invited bids to develop 380 MW/760 MWh of standalone battery energy ...

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