

MW scale storage system project financing options in India 2025



Overview

Are battery energy storage systems the future of energy in India?

Harsh Shah, Managing Director, IndiGrid, said, “Battery Energy Storage Systems are central to the future of energy in India. They bridge the intermittency of renewables, reduce fossil fuel dependency, and unlock flexible, reliable power delivery.

How will VGF support energy storage projects in India?

Each state will receive VGF assistance of INR 27 lakh/MWh to support the deployment of energy storage projects, which are expected to stabilize the grid and support the growing share of renewable energy in their power mix.

How many MWh will India have by 2027-28?

The capacity has been raised from 4,000 MWh to 13,200 MWh by 2027-28, aligning with India's broader goal of achieving 500 GW of renewable energy capacity by 2030.

How many GWh of Bess capacity will India need by 2027?

According to the Central Electricity Authority (CEA), India requires 37 GWh of BESS capacity by 2027 and 236 GWh by 2031-32. So far, 13.2 GWh of BESS capacity has been approved under the ongoing VGF scheme. This content is protected by copyright and may not be reused.

How many power projects does indigrid own?

It owns 43 power projects, consisting of 53 transmission lines with more than ~9,336 ckms length, 16 substations with ~25,050 MVA transformation capacity, ~1.15 GWAC (~1.5 GWp) of solar generation capacity, and 450 MW / 900 MWh of Battery Energy Storage Systems. IndiGrid has assets under management (AUM) of over ~₹ 319 billion (~USD 3.7 billion).

How will the battery storage subsidy scheme work?

Under the scheme, subsidies will be disbursed in five tranches: 10 percent at financial closure, 45 percent upon commissioning, and 15 percent annually over the next three years post-commissioning. This structured financial support is expected to drive private sector participation and accelerate battery storage adoption across the country.

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Energy Storage: Connecting India to Clean Power on ...

Executive Summary The rapid expansion of renewable energy has both highlighted its deficiencies, such as intermittent supply, and the pressing need for grid-scale energy storage ...

Press Release: Press Information Bureau

Under the scheme, projects will be approved during a period of 3 years (2023-24 to 2025-26). The disbursement of funds will extend up to 2030-31 in 5 tranches.



Tamil Nadu awards first large-scale battery storage project to NLC

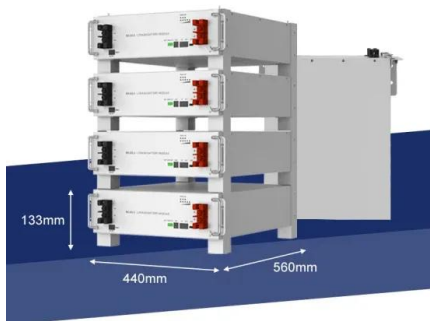
The project awarded by Tamil Nadu Green Energy Corporation Limited (TNGECL) is the first large-scale battery storage system to come up in Tamil Nadu after the ...



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 ...



India's first utility-scale, standalone battery energy storage project

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 ...

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

The cost per MW of a BESS is set by a number of factors, including battery chemistry, installation complexity, balance of system (BOS) materials, and government ...



India raises subsidized battery target to 13.2 GWh

The Indian government has increased the battery energy storage target of its viability gap funding (VGF) program to 13.2 GWh. The subsidy scheme provides financial support for up to 40% of battery energy ...

Powering up renewables with battery energy storage ...

India's battery energy storage systems (BESS) market is poised for significant expansion, driven by ambitious renewable energy (RE) targets and an increasing need for grid stability. Government initiatives and technological ...



SECI signs 125 MW/ 500 MWh battery storage sale ...

Solar Energy Corp. of India Ltd has signed the battery energy storage sale agreement with Kerala State Electricity Board (KSEB) for a 125 MW/ 500 MWh grid-connected standalone battery energy storage system (BESS) ...



Energy Storage Systems (ESS) Projects and Tenders

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 NEW AND 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 ...



New England's Largest Utility-Scale Battery Energy Storage System ...

21 ????· Plus Power announced it is now operating its Cranberry Point Energy Storage facility in Carver, Massachusetts, the largest utility-scale standalone battery energy storage ...



100MW Solar PV Power Plant with 40MW/120MWh ...

PROJECT SIZE: 100 MW Solar PV Power Plant with 40MW/120MWh Battery Energy Storage System
Project Bifurcation: 100MW AC, with 40MW/120MWh Battery Energy Storage System
Project type: Solutions for Power Producer ...

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

...

The Stationary Energy Storage India (SESI) 2025 conference brought together 200+ global leaders, signaling robust policy, investment, and innovation momentum. With ...





India's Ambitious Plan: 74 GW Battery Energy ...

New Delhi: India is targeting a battery energy storage system (BESS) capacity of 74 GW by 2031-32, even as the current installed capacity remains at just 205 MW, Union Power Minister Manohar Lal Khattar said on ...

IndiGrid Commissions India's First Regulated Utility-Scale ...

IndiGrid, one of India's foremost power sector Infrastructure Investment Trusts (InvIT), has announced the successful commissioning of the country's first regulated utility ...



SJVN Invites Bids for 375 MW/1,500 MWh Standalone BESS in ...

SJVN has issued a request for selection for the development of a 375 MW/1,500 MWh standalone battery energy storage system (BESS) in Uttar Pradesh under the build-own ...



Levelized Cost of Storage for Standalone BESS Could ...

The report adopts a two-pronged approach to estimate the cost of Li-ion based MW scale battery storage systems in India. The report takes the case of solar projects in Nevada, which are coming online in 2021, with 12-13% ...



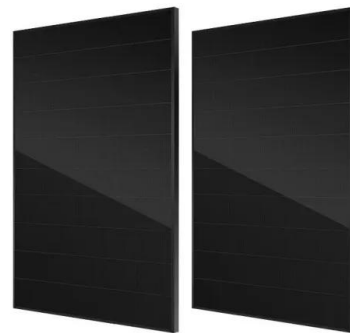
The Standalone Energy Storage Market in India 1

Key Findings 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 ...



Grid-Scale Battery Storage: Costs, Value, and Regulatory ...

Grid-Scale Battery Storage: Costs, Value, and Regulatory Framework in India Webinar jointly hosted by Lawrence Berkeley National Laboratory and Prayas Energy Group



India Energy Storage Deployment

Adoption of grid-scale energy storage systems for enhancing grid stability, defer capacity upgrades and improving resource adequacy. A stable and efficient power grid is no ...



IndiGrid, IFC partner to build 180 MW/360 MWh ...

The project will enhance grid stability and ensure power availability during peak demand, supporting Gujarat's ambitious renewable energy targets. IFC has committed INR 4.6 billion (around \$55 million) in long ...



Mizuho Closes Landmark Financing for KKR and Infracapital's 400 MW

March 19, 2025 Mizuho EMEA is pleased to announce the successful financial close of the financing of Eccles Battery Energy Storage System (BESS) Project, a 400 MW / 800 MWh ...



Monthly RE Update - June 2025

Our Monthly RE Update June 2025 report on RE industry covers: Monthly RE Update June 2025 - Tenders Issued New RfS Issued: About 6,800 MW of RE tenders was ...



Battery Storage Unlocked: Lessons Learned From Emerging ...

Lessons Learned from Emerging Economies The Supercharging Battery Storage Initiative would like to thank all authors and organizations for their submissions to support this publication. This ...



A 2025 Update on Utility-Scale Energy Storage ...

While the energy storage market continues to rapidly expand, fueled by record-low battery costs and robust policy support, challenges still loom on the horizon--tariffs, shifting tax incentives, and supply chain uncertainties ...



Review of Grid-Scale Energy Storage Technologies Globally ...

The literature on grid-scale energy storage in India examines its role as part of India's energy mix in the power sector, as well as studying batteries in the context of electric vehicles given the ...

Government Triples Battery Storage Target to 13,200 ...

The VGF scheme, initially approved for three years (2023-24 to 2025-26), offers capital subsidies to attract investment in large-scale energy storage projects. Under the scheme, subsidies will be disbursed in five ...



Project Finance Brief: ContourGlobal Acquires 888 MW Solar Plus Storage

Aypa Power, a Blackstone portfolio company that develops, owns, and operates utility-scale energy storage and hybrid renewable energy projects, announced the closing of a ...

IFC and IndiGrid Partner to Build India's Largest Utility ...

Battery energy storage is critical for diversifying India's energy mix and ensuring clean power is available when demand is highest. IndiGrid has been a trusted partner to IFC in advancing sustainable and inclusive ...



India offers \$631.5 million to support 30 GWh of ...

The funding will come from the Power System Development Fund. The scheme will provide financial support to 15 states and NTPC, allocating INR 1.8 million/MWh for each project.

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. ...

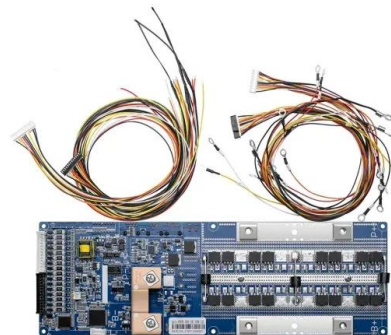


Battery Energy Storage Systems

BSES Rahdhani Power Limited (BRPL) and Global Energy Alliance for People and Planet (GEAPP) together have launched India's first ever commercial standalone BESS, expected to ...

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 ...



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