

# Behind-the-meter energy storage project in Mumbai India



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## Overview

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The cutting-edge BESS, equipped with advanced 'black start' functionality, will enable a swift recovery of power supply to critical infrastructure, including the metro, hospitals, Airport, and Data Centers, in case of grid disturbances. The company, part of the Tata Group, said yesterday that state regulator Maharashtra Electricity Regulatory Commission (MERC) approved its. In this emerging landscape, two distinct approaches are gaining traction: Front-of-the-Meter (FTM) and Behind-the-Meter (BTM) storage. While both serve the common purpose of balancing supply and demand, their roles, locations, and benefits differ significantly. Understanding these differences isn't. order to find sustainable and equitable solutions. SET-TN is a collaborative initiative by Auroville Consulting (AVC), Citizen consumer and civic Action Group (CAG) amanian and Toine van Megen (Auroville Consulting). Multiple industry experts supported us with information and data on cost of. With increasing government support and clear targets, India's BESS market has increased, and installations rose from 51 MWh in 2023 to over 341 MWh in 2024 (source) The government has mandated co-located storage for new solar projects (at least 2-hour storage or 10% of capacity) and announced. 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.

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### [Behind-the-Meter vs Front-of-the-Meter Storage](#)

This article explores the key differences, applications, and national relevance of BTM and FTM storage models, especially as India seeks to democratize energy through policy, innovation, and localization.

### [LEVELISED COST OF BEHIND-THE-METER STORAGE IN INDIA](#)

As, the stored solar energy can be later self-consumed to reduce grid consumption (i.e., savings in the electricity bill), an LCOSS less than the retail energy tariff of the consumer indicates grid parity for solar plus ...



### [Behind the Meter Energy Storage](#)

With BTM distributed energy sources available, the utility is able to pull power from ESS's at locations where the demand is at its highest while saving the energy in other locations for another time.

### [An Overview of Behind-the-Meter Solar-Plus-Storage Program ...](#)

Dive into the research topics of 'An Overview of Behind-the-Meter Solar-Plus-Storage Program Design: With Considerations for India'. Together they form a unique fingerprint.



### [A review of behind-the-meter energy storage systems in smart grids](#)

This involves selecting an appropriate energy storage type, tailoring power electronics to the system specifications, and installing smart meters to monitor and control power flows.



### [India's First Utility-Scale Standalone Battery Energy ...](#)

The GEAPP Leadership Council (GLC) today officially announced the launch of India's first utility-scale, standalone BESS project.



### [Tata Power to Install 100MW Battery Energy Storage System \(BESS\) in Mumbai](#)

As renewable energy adoption accelerates, BESS plays a pivotal role in enabling a smoother transition. Compared to conventional alternatives, BESS offers a more cost-effective, faster-to-deploy solution with a ...



[Tata Power gets nod to install 100-MW battery energy storage project ...](#)

Tata Power on Monday said it has received an approval from the Maharashtra Electricity Regulatory Commission (MERC) to install a 100-MW battery energy storage system (BESS) project.



[Tata Power BESS to support critical infrastructure in Mumbai](#)

Electric utility and generation company Tata Power has received regulatory approval to deploy a centrally controlled battery storage system in Mumbai, India.



[Top 10 Battery Energy Storage \(BESS\) Companies in India](#)

Explore the top 10 BESS companies in India driving grid stability, renewable integration, and energy storage growth through policy support and large-scale deployments.



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