ContainerPower Energy Solutions

India Electric Energy Storage Power Station

Overview

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.What is the status of pumped storage projects in India?

The status of pumped storage projects in India Energy storage is critical towards ensuring grid reliability, security, and cost optimisation given India’s growing share of renewable energy in its power purchase mix.

Where is India's first large scale battery energy storage facility located?

This led to the establishment of India's first large scale battery energy storage (BESS) facility set up alongside a 100-megawatt (MW) solar power plant in Rajnandgaon, in India’s eastern state of Chhattisgarh.

How much battery energy storage capacity is available in India?

Between 2022 and May 2025, India auctioned approximately 12.8GWh of battery energy storage system (BESS) capacity for both hybrid and standalone applications. However, only about 219MWh of BESS capacity is reported to be operational, leaving a large pipeline of projects under construction.

What are the challenges in development of energy storage systems in India?

Identification of challenges in development of energy storage systems in India. Backed by various promotional schemes and policies of the government, share of renewable energy sources (RES) is increasing in a faster way in India. Country has to promote the exploitation of renewable resources for a sustainable power system and economy.

How electrical energy can be stored?

Electrical energy can be stored using different storage schemes like mechanical storage, electrochemical storage, electromagnetic storage, electrostatic storage, thermal storage etc. Depending on the characteristics,

convenience and fiscal benefits some of them are preferred for large scale storage.

Why is energy storage important in India?

The technical system characteristics of the Indian power system are favorable for energy storage to reduce operating cost and improve system reliability. Storage can provide energy arbitrage, ancillary services, and potentially defer transmission investments, but existing policy and regulatory barriers may limit these opportunities.

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