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India energy storage project connected to the grid



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. Is indigrid launching a standalone battery energy storage system in Delhi?

Last week (4 April), IndiGrid, a power sector infrastructure investment trust, announced the commissioning of a 20MW/40MWh utility-scale standalone battery energy storage system (BESS) in Delhi, India's capital territory.

Does India need a grid-scale energy storage system?

and other conventional power sources. 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 systems (ESS) to facilitate India's.

How will energy storage help India achieve its sustainability goals?

Policy support, falling battery costs, and advancements in storage technology are making large-scale adoption feasible. The integration of energy storage will not only stabilise the grid but also enable deeper renewable energy penetration, helping India achieve its sustainability goals. India's energy landscape is evolving rapidly.

What is energy storage system in India?

. December 2022. Energy Storage Market Landscape in India An Energy Storage System (ESS) is any technology solution designed to capture energy at a particular time, store it and make it available to the off-taker for later use. Battery ESS (BESS) and pumped hydro storage (PHS) are the most w.

What are the challenges faced by India's energy storage system?

lock reliability. Current storage costs pose challenges. Grid infrastructure expansion must align with renewable capacity additions to prevent

congestion. The Government of India set up a 'Round-the-Clock' tender to combine renewable energy with storage, yet implementation is pending. Introducing storage systems at various levels.

Why is battery energy storage important in India?

“Battery energy storage is a key enabler of a resilient and efficient power system in India as the country moves toward a cleaner energy mix. The ability to store and dispatch power intelligently will be essential in maintaining grid stability and optimising renewable integration,” Shah said.

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