ContainerPower Energy Solutions

Indian Telecommunication Energy Storage Battery

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.Are battery energy storage systems right for India?

But India’s evolving electricity landscape has created an environment where battery energy storage systems (BESS) can earn strong returns from power exchanges, while offering critical system-level support to the grid. Batteries are increasingly recognised as the multitool of the power sector transition.

Is battery energy storage the linchpin of India's renewable future?

Battery Energy Storage is the linchpin of India’s renewable future. From raw material security to AI-driven smart grids, every element of the ecosystem is evolving. With Amara Raja and startups at the forefront, and strong policy support, India is poised not just to adopt but to lead the global BESS revolution by 2035.

Can battery energy storage help India achieve a 50% non-fossil installed capacity?

India’s clean energy transition is accelerating, with ambitious goals of achieving 50% non-fossil installed capacity by 2030. This vision cannot succeed without large-scale energy storage. Battery Energy Storage Systems (BESS) provide the crucial flexibility: they capture excess solar and wind power when available and release it when needed.

Is battery participation in India's wholesale power and ancillary services market a good idea?

As more variable renewable energy enters India’s electricity grid, coinciding with sharp declines in battery costs, new business cases are emerging for BESS. One particularly promising opportunity is battery participation in India’s wholesale power and ancillary services market.

What is India's energy storage capacity?

As of March 2024, India has reached a significant milestone with its cumulative installed energy storage capacity at 219.1 MWh, or approximately 111.7 MW. This achievement underscores India’s strong commitment to advancing energy storage technologies and enhancing its energy infrastructure.

What is the history of energy storage in India?

The Evolution of Energy Storage Early Era: India’s first large-scale storage was pumped hydro (≈6.4 GW installed; ~61 GW potential). For decades, lead–acid batteries dominated in telecom, UPS, and small solar applications. Global Breakthrough: The 1990s brought lithium-ion batteries (Li-ion), initially for consumer electronics and later EVs.

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