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Indian battery cabinet production integrated system



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. Why are battery energy storage systems important in India?

As India accelerates its shift toward clean and sustainable energy, Battery Energy Storage Systems (BESS) have become vital for supporting the country's power infrastructure. From balancing the grid to enabling round-the-clock use of solar and wind energy, battery storage solutions are transforming the way we store and use electricity.

Will India build a large-scale integrated battery manufacturing facility?

Following the recent PLI scheme announcement, many established battery players, as well as fresh entrants to the space in India, have announced plans to build large-scale integrated battery manufacturing facilities, or giga-factories, by either expanding existing assembly plants or building brand new facilities (PV Magazine 2021).

Why is India focusing on indigenisation of battery cell manufacturing?

The complex global supply chains of batteries necessitate India to focus on scaling and stabilising domestic manufacturing. Indigenisation of battery cell manufacturing contributes 11-25% of the final cell value, with 22-61% coming from upstream component manufacturing and material processing.

How big is India's battery manufacturing capacity?

A battery manufacturing capacity of nearly 500 GWh was deployed in 2020, with about 40 per cent of this capacity consisting of large battery giga-factories (Moores 2021). While a few Indian companies have already begun domestic battery pack assembly, as we mentioned before, this has not kept pace with the growing Indian storage market.

Can India develop a battery manufacturing ecosystem?

India's import bill for batteries touched USD 1.8 billion in 2022, with over 85% imports from China. As India aspires to develop a battery manufacturing ecosystem, it is important to identify potential opportunities across the entire manufacturing value chain. This will help policymakers to cultivate a resilient domestic manufacturing industry.

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.

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