

## SolarTech Power Solutions

# How many energy storage power stations are there in India



## Overview

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The total installed power generation capacity in India as on 30th September 2025 is around 501 GW, with sector wise and type wise break up as given below. [1] For the state wise installed power generation capacity, refer to States of India by installed power capacity. Hydroelectric power plants.

India installed over 341 MWh of battery energy storage systems (BESS) in 2024, marking an over sixfold increase from the 51 MWh installed in 2023, according to Mercom India Research's newly released report India's Energy Storage Landscape. With these additions, India's total installed battery.

India has set a target to achieve 50% cumulative installed capacity from non-fossil fuel-based energy resources by 2030 and has pledged to reduce the emission intensity of its GDP by 45% by 2030, based on 2005 levels. The incorporation of a significant amount of variable and intermittent Renewable.

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242.63 GW Total Installed RE capacity + Hydro(As on Aug'25) Average Thermal PLFs 68.54% (FY 25) 65.74% (Apr'25-Aug'25)(Excluding oil & gas-based).

India's total installed power capacity reached 476 GW as of June 2025. Power

shortages dropped from 4.2% in 2013-14 to 0.1% in 2024-25. Over 2.8 crore households were electrified, per capita electricity consumption increased by 45.8%. Non-fossil fuel sources now contribute 235.7 GW (49%) of total.

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