

BESS Price for Energy Storage Building in India

How much does battery-based energy storage cost in India?

Currently, the cost of battery-based energy storage in India is INR 10.18/kWh, as discovered in a SECI auction for 500 MW/1000 MWh BESS. The government has launched viability gap funding and Production-Linked Incentive (PLI) schemes to make battery storage affordable.

What is India's storage requirement from Bess in 2026-27?

According to the National Electricity Plan (NEP) 2023, unveiled by the Central Electricity Authority (CEA), India's storage requirement from BESS will rise to 34.72 GWh in 2026-27. Due to increased renewable energy production, this requirement is expected to reach 1840 GWh by 2047.

How much does ESS cost?

FOR MINIMAL ADS. BESS are a type of ESS. Cost of BESS system to be Rs 2.20-2.40 crore/MWh for 4,000 MWh capacity. VGF of up to 40% of capital cost provided by Centre. Projects approved in 3 yrs, disbursement in 5 tranches. Implementation to reduce 1.3 MT of CO2 emissions.

Are energy storage projects being built in India?

According to a report published by the Lawrence Berkeley National Laboratory (LBNL), a large number of energy storage projects are being built worldwide, and there is a significant interest among policymakers in India as well.

What are battery energy storage systems (Bess)?

Battery energy storage systems (BESS) have solved a key challenge for renewable energy, addressing the fluctuating nature of sources like solar and wind. Globally, new solar and wind projects are now integrating modern energy storage systems to ensure a reliable energy supply.

How much will Bess cost in 2023-26?

"The cost of BESS system is anticipated to be in the range of INR 2.40 to INR 2.20 crore per MWh during the period 2023-26 for development of BESS capacity of 4,000 MWh, which translates into capital cost of INR 9,400 crore with a budget support of INR 3,760 crore," Power Minister R K Singh said in a written response to a query in Lok Sabha.

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