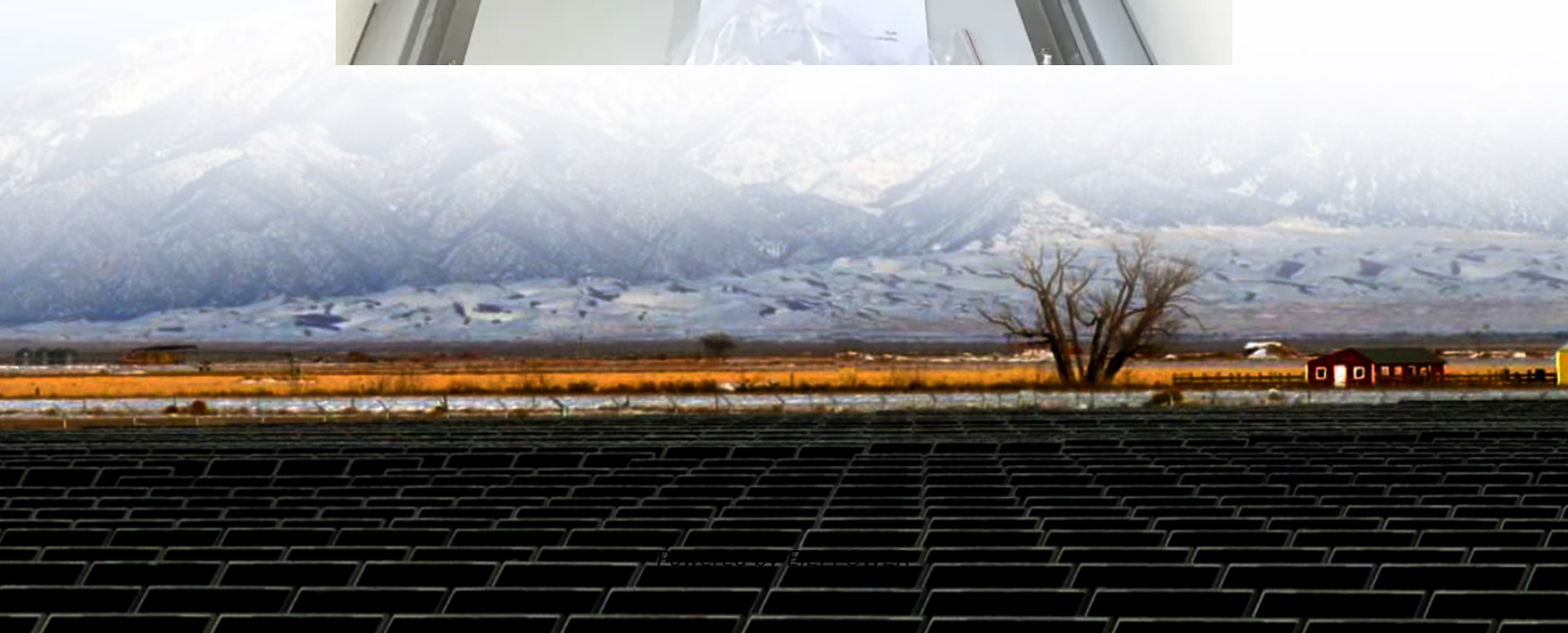


New Delhi Wind Solar and Multi-energy Storage Electricity





Overview

Are battery energy storage systems the future of energy in India?

Harsh Shah, Managing Director, IndiGrid, said, “Battery Energy Storage Systems are central to the future of energy in India. They bridge the intermittency of renewables, reduce fossil fuel dependency, and unlock flexible, reliable power delivery.

How many GW of energy storage will India have by 2050?

India is targeting 1,500 GW of energy storage under the Net Zero Emissions (NZE) by 2050 scenario. According to the NEP, India’s Battery Energy Storage System (BESS) requirement is expected to reach 47.24 GW by 2031-32. A TERI’s study projects that to meet national demand in a no-fossil-fuel scenario, India will need 116.9 GW (6.4 hours) of BESS by 2030 and 116.9 GWh (6.4 hours) of BESS by 2050.

How much energy storage system will India need by 2030?

India’s Battery Energy Storage System (BESS) requirement is expected to reach 47.24 GW by 2031-32. A TERI’s study projects that to meet national demand in a no-fossil-fuel scenario, India will need approximately 50 GW (5.4 hours) of BESS by 2030 and 116.9 GWh (6.4 hours) of BESS by 2050.

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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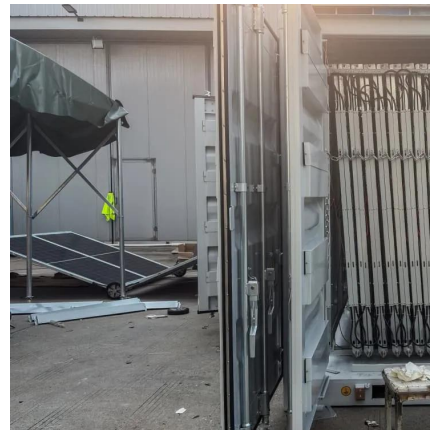
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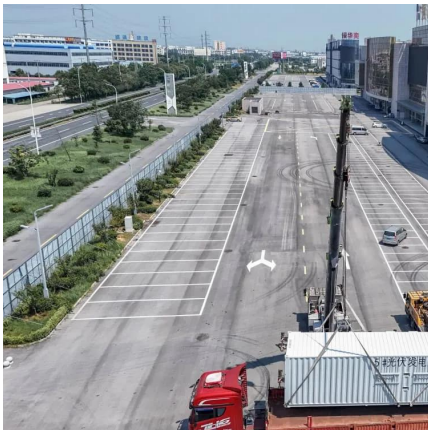
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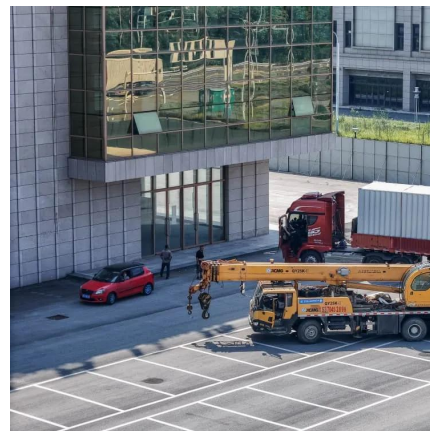


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