

India's lithium ion battery storage industry -- which can store electricity generated by wind turbines or solar panels for when the sun isn't shining or the wind isn't blowing -- makes up just 0.1% of global battery storage.

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With ambitious targets to install 1.6 GWh of standalone battery storage systems and integrate 9.7 GW of renewable projects by 2027, India is positioned to play a pivotal role in shaping the future of sustainable energy.

the long term, newer battery chemistries have the potential to significantly shift cost and performance thresholds, leading to a larger market for energy storage by enabling new applications that previously were cost- or technology-prohibitive. The expected scale and growth of the country's battery market are sufficiently large to justify giga-

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The International Energy Agency's India Energy Outlook 2021 anticipates India could achieve 140-200 GW of battery energy storage capacity by 2040, the largest globally. The push for renewable energy, decentralized power systems, hybrid energy deployment, and the need for grid stability and energy security will drive this momentum.

In order to support the energy storage mission of the Government of India, ISGF initiated preparation of an Energy Storage Roadmap for India 2019 - 2032 in association with India Energy Storage Alliance (IESA). The initial objective of the roadmap was to study in detail the grid integration issues related

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