

Which ESS tenders will increase Indian ESS capacity manifold?

The latest ESS tenders issued by Solar Energy Corporation of India (SECI) and NTPC are the first in India to combine standalone ESS with on-demand use. These two standalone ESS tenders, by SECI and NTPC, have a cumulative storage capacity of 1 GW or 4 GWh. Thus, if executed well, these projects will augment Indian ESS capacity manifold.

What is energy storage systems (ESS)?

Energy Storage Systems (ESS) will be the next major technology in the power sector over the coming decade. The latest standalone ESS tenders from Solar Energy Corporation of India and NTPC will augment capacity manifold and help develop the local ecosystem.

Is ESS Technology still nascent in India?

However, at present, ESS technology is still nascent in India, because of which these standalone ESS tenders will likely face technical, procurement, and regulatory challenges. For example, the NTPC tender requires a 6-hour ESS solution.

What is standalone ESS?

As the country rapidly scales up variable renewable energy (VRE), standalone ESS offers a dispatchable solution to address the intermittency of renewables, support grid stability, and optimise energy usage.

What does ESS stand for?

Standalone Energy Storage Systems (ESS) are rapidly emerging as a key market, with 6.1 gigawatts of tenders issued in the first quarter of 2025 alone, accounting for 64% of the total utility-scale energy storage tendering activity.

What are the challenges facing the ESS industry?

The Standalone ESS industry continues to face persistent challenges such as project cancellations, supply-chain constraints, weak domestic manufacturing and power purchase agreement delays. Players such as IndiGrid and HG Infra Engineering are focused on Battery + ESS (BESS).

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Executive Summary The rapid expansion of renewable energy has both highlighted its deficiencies, such as intermittent supply, and the pressing need for grid-scale energy storage ...

The increasing deployment of lithium-ion (Li-ion) batteries is a key trend shaping the India Energy Storage Systems (ESS) market. For instance, the demand for lithium-ion batteries during the FY2024 was approximately 15 GWh in India, ...

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Conclusion In short, with the global transition to renewable energy, India's energy storage industry is rapidly emerging as a significant player in the global market. These top 10 Energy storage manufacturers in India, such as Exide, Statcon ...

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In a significant development for India's renewable energy sector, a solar project integrated with energy storage has recorded a tariff of INR3.32 per unit--5.8 per cent lower than ...

India's ambitious clean energy transition demands a parallel development in energy storage infrastructure, with Standalone ESS emerging as a key enabler.

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Beyond contracting delays, the sector faces structural hurdles related to supply chains, manufacturing and



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financing. India's installed BESS capacity remains limited, with most ...

Given that ESS technology is in its infancy in India, the current tenders face several technical, procurement, and regulatory challenges. However, the two tenders will act as pilot projects for policymakers and fast-track the ...

Energy Storage System Roadmap for India 2019-32 Energy Storage System (ESS) is fast emerging as an essential part of the evolving clean energy systems of the 21st century. Energy ...

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The Budget 2025-2026 HighLights that are relevant to lithium battery manufacturers for Electric Vehicles (EVs), Energy Storage Systems (ESS), and Material Handling Equipment (MHE): 1. Clean Tech ...

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andalone ESS functions as an independent asset. Utilities, grid operators or third-party entities can own and deploy it flexibly to provide grid balancing, peak shaving and ancillary services, ...

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