

New Delhi Electrochemical Energy Storage Industry





Overview

What is India's energy storage demand?

MNRE had earlier estimated a storage demand of about 2.3 TWh–540 GWh from pumped-storage plants and 1,840 GWh from battery energy storage services. As of June 2025, India's energy storage capacity stood at 490 MWh.

Which chemistries will dominate the ESS market in India?

market in India alongside the energy-based one. In the near term, BESS and PHS will continue to dominate the ESS landscape in India, with storage duration determining their applicability in a particular scenario. However, ongoing research and development efforts in various BESS chemistries, such as sodium-ion and redox flow, aim to extend it.

How ESS will impact India's energy transition?

Technologies such as PHS and gravity storage. Standalone ESS will play a pivotal role in India's energy transition by enhancing grid flexibility and security. Its ability to provide freedom in end-use applications while reducing risks for technology providers makes it a cornerstone of the.

How is India's ESS market evolving?

Entering a more dynamic phase of market evolution. India's grid-scale Standalone ESS market is rapidly expanding, with increasing participation from established energy giants and new entrants (Figure 7). Large Independent Power Producers (IPPs) such as JSW Energy, Greenko and Torrent Power are leveraging their existing power s



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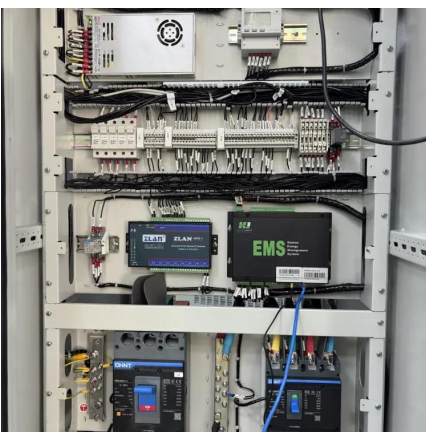


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