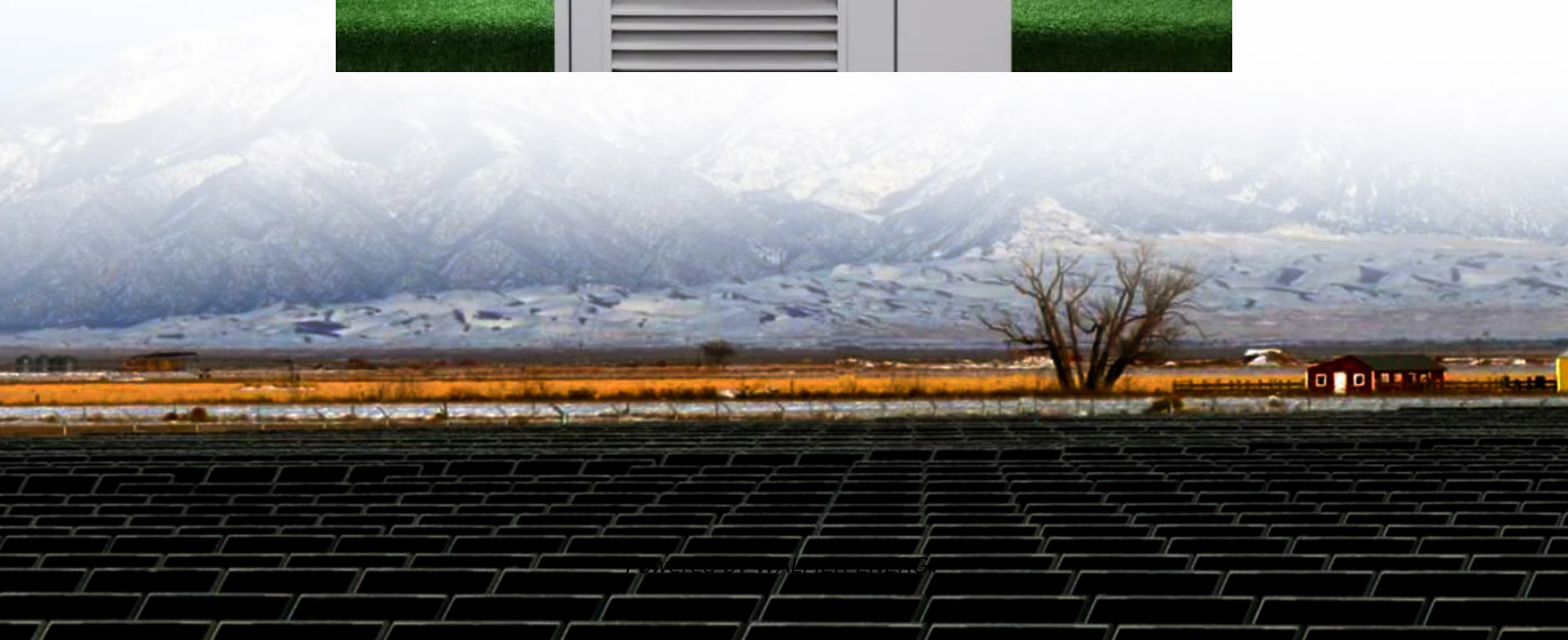


Off-grid price of energy storage containers for Indian mines





Overview

How much does a battery energy storage system cost in India?

“In recent auctions, battery energy storage system tenders in Maharashtra and Rajasthan secured tariffs as low as IR219,000-221,000 per megawatt (MW) a month (US\$2,561-US\$2,586/MW/month), representing almost a 40% reduction compared with non-VGF projects with similar specifications,” Sharma said.

How many GW of energy storage systems have been tendered?

According to a new report from JMK Research and the Institute for Energy Economics and Financial Analysis (IEEFA), tenders for standalone energy storage systems (ESS) comprised 64% (6.1GW) of the total capacity put out to competitive solicitation between January and March of this year.

How is India's grid-scale ESS market diversifying?

India’s grid-scale Standalone ESS market is also witnessing a diversification of players, with both established power sector giants and new entrants actively participating. Large independent power producers (IPPs) such as JSW Energy, Greenko, and Torrent Power are leveraging their experience to lead deployments.

How much energy does India need in 2032?

To support this, the country needs to integrate storage of 74 GW / 411 gigawatt-hours (GWh) (27 GW / 175 GWh of pumped storage and 47 GW / 236 GWh of BESS) by 2032 as per NEP-14. As of June 2024, India had 500 MWh of operational BESS and a development pipeline of 121 GWh — 62 GWh under execution and 59 GWh in the tendering stage.



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