

Utility-scale energy storage india

“The regulatory approval of the BRPL BESS project marks a significant milestone in our efforts to integrate renewable energy sources into the grid and enhance reliability for our consumers. This project exemplifies our commitment to embracing cutting-edge technologies to meet the evolving needs of our customers while advancing towards a cleaner, more sustainable energy future,” said a BSES spokesperson.

India’s urgent need for BESS integration in the distribution grid is underscored by the country’s substantial Variable Renewable Energy (VRE) penetration, which exceeds 12% in certain regions. The BRPL BESS project is the first commercial standalone BESS project at the distribution level in India to receive regulatory approval for a capacity tariff and will play a pivotal role in facilitating the uptake of low-cost VRE by the New Delhi Utility (BRPL).

GEAPP’s role in the project extends beyond financing. Through technical and commercial expertise, GEAPP collaborated closely with BRPL to demonstrate the value of BESS at the DISCOM level. The concessional loan provided by GEAPP ensures an end tariff that is attractive to regulators, paving the way for future BESS projects in the country.

The benefits of the BESS project for DISCOMs are multifaceted, ranging from reduced power procurement costs and enhanced grid stability to deferred capacity upgrades and improved resource adequacy. Furthermore, the project sets a regulatory precedent for BESS integration, unlocking the pathway for future projects across the country.

Commenting on the development, Saurabh Kumar, Vice President India, GEAPP said, “We are proud to support the pioneering BRPL BESS project, which demonstrates the viability of battery energy storage solutions and sets a new standard for affordability in the energy sector. Through our concessional financing and strategic partnerships, we are driving innovation and sustainability in India’s energy landscape.”

The project SPV Kilokari BESS Pvt. Ltd will be paid by BRPL through a fixed-capacity tariff (in INR/MW/month terms), on availability basis irrespective of the actual consumption, demonstrating its efficacy, and making it attractive for potential investors. The SPV is owned by IndiGrid and Ampere-hour Energy.

“We are delighted to have achieved the key milestone of regulatory approval for our first utility-scale standalone BESS project in an unprecedented timeframe. BESS is a key focus area for us, recognizing its indispensable role in shaping the future of clean energy in India. We are very happy to partner with BRPL and GEAPP and are committed to deliver this project on committed timelines with their consistent



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support,” commented Harsh Shah, CEO of IndiGrid.

As an ideal replicable example for other geographies, this project's business model demonstrates the viability of third-party-owned BESS solutions supported by concessional financing. This model, combined with rigorous monitoring and knowledge-sharing mechanisms, provides a blueprint for sustainable energy deployment worldwide that can be shared with interested countries, developers, and other partners through the BESS Consortium.

BSES Rajdhani Power Limited (BRPL) is a joint venture between Reliance Infrastructure Limited and Govt of NCT of Delhi with a 51%:49% shareholding. Spanning a geographical area of around 691 sq kms, BRPL is the largest of the three private distribution companies (discoms) in Delhi. The company supplies electricity to over 3 million customers, covering a population base of over 12 million in South and West Delhi.

IndiGrid [BSE: 540565 | NSE: INDIGRID] is the first Infrastructure Investment Trust ("InvIT") in the Indian power sector. It owns 37 power projects, consisting of 46 transmission lines with more than ~8,468 ckms length, 13 substations with ~17,550 MVA transformation capacity and ~855 MWAC (~1.1 GWp) of solar generation capacity. IndiGrid has assets under management (AUM) of over ~INR 282 billion (~USD 3.4 billion). The investment manager of IndiGrid is wholly owned by KKR.

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