Successful bid price of VRFB energy storage project in India 2030

What does VRFB stand for?

Source: Shutterstock Indian power utility National Thermal Power Corporation (NTPC) has invited bids for the commissioning and integration of a 600 KW/3,000 KWh Vanadium Redox Flow Battery(VRFB) system for long-duration energy storage (LDES) at NTPC Energy Technology Research Alliance (NETRA) center in Greater Noida.

Is VRFB a viable battery storage technology in India?

It is interesting to note a BESS tender exclusively calling for VRFB technology in India,where battery storage is still at a very nascent stage of commercialisation,with VRFB lagging far behindlithium-ion and pumped storage technologies.

How much does battery-based energy storage cost in India?

Currently,the cost of battery-based energy storage in India is INR 10.18/kWh,as discovered in a SECI auction for 500 MW/1000 MWh BESS. The government has launched viability gap funding and Production-Linked Incentive (PLI) schemes to make battery storage affordable.

How much FDRE will India need in 2023?

an 8 gigawatts(GW) of FDRE tenders issued in 2023 alone. As the sector expands and matures along with renewable energy,such as pumped hydro and green hydrogen,ESS will be crucial for India to meet its needs of at least 500GW of non-fossil fuel capacity by 20

How much energy does India need for energy storage?

viable means for implementing energy storage solutions. The Central Electricity Authority's (CEA) latest optimal generation mix report indicates that India will need at least 41.7 gigawatt(GW)/208.3 gigawatt-hour (GWh)

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