Grid stabilization new delhi

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The 10 MW system at Tata Power Delhi Distribution"s Rohini substation is said to be South Asia"s largest.

The battery system could turbocharge the storage market in south Asia.

The 10 MW grid-connected system, owned by AES and Mitsubishi Corporation, will pave the path for wider adoption of grid-scale energy storage technology across India. It uses the Advancion energy storage platform from Fluence, a joint venture formed by Siemens and AES.

Speaking at the launch, Praveer Sinha, CEO and managing director of Tata Power said: "Grid-scale energy storage will pave the way for ancillary market services, power quality management, effective renewable integration and peak load management of Indian grids."

The project, at Tata Power Delhi Distribution"s substation in Rohini, will provide grid stabilization and protect critical facilities for 2 million consumers served by the company.

Battery-based energy storage enables electricity to be stored and delivered within milliseconds, reducing grid instability and enabling more energy to be captured and delivered on demand.

Fast-ramping energy storage like the Delhi system can be built within months to provide critical flexibility wherever it is needed on India"s grid. By comparison, older technologies such as pumped hydro storage can take years to build and are highly dependent on geographical locations. Battery-based energy storage also uses no water and produces no emissions from its operations.

India has the ambitious goal of installing 225 GW of renewable energy by 2022. Battery-based energy storage provides the flexibility and agility to better integrate intermittent solar and wind energy resources into India"s electric grid and ensure high-quality power for consumers.

"Battery-based energy storage has an essential role to play in helping India realize its vision for a more sustainable energy future," said Andr?s Gluski, AES president and CEO. "AES has been committed to delivering safe, reliable and affordable power in India for the last 27 years and we"re proud to bring the country"s first major grid-scale energy storage solution online, and open the market for the use of battery storage technology in India."

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