

## Tata Power Collaborates with AES and Mitsubishi Corporation to Power Up South Asia's Largest Grid-Scale Energy Storage System in India

- *10 MW energy storage system at Tata Power Delhi Distribution's Rohini Substation to provide better peak load management, system flexibility and reliability to more than 2 million consumers*

**New Delhi/ Mumbai February 13, 2019:** Tata Power, [The AES Corporation](#) (NYSE:AES) and Mitsubishi Corporation today inaugurated India's first grid-scale battery-based energy storage system in Rohini, Delhi. The 10 Megawatt 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. Fluence, a market-leading supplier of energy storage technology jointly owned by Siemens and AES, supplied its state of the art Advancion Technology for the project.

Battery-based energy storage enables electricity to be stored and then delivered within milliseconds, reducing instability of the electric grid and enabling more energy to be captured and delivered on demand. India has the ambitious vision of installing 225 GW of renewable energy generation 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.

This 10 MW project is located at Tata Power Delhi Distribution Ltd.'s (Tata Power-DDL) sub-station in Rohini, Delhi and will provide grid stabilization, better peak load management, add system flexibility, enhance reliability and protect critical facilities for 2 million consumers served by the company.

Fast-ramping energy storage like the Delhi system can be built in a matter of months to provide critical flexibility to wherever needed on India's grid. In comparison, older technologies such as

pumped hydroelectric energy 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.

*“Tata Power’s collaboration with AES and Mitsubishi is one of the significant milestones in the Indian power sector,” said Mr. Praveer Sinha, CEO and Managing Director of Tata Power. “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.”*

*“At Tata Power-DDL, we continually strive to integrate new technologies for strengthening our network to provide reliable and quality power supply to our consumers,” said Mr. Sanjay Banga, CEO of Tata Power-DDL. “This, India’s first grid scale battery based storage system, will address our key challenges in the areas of peak load management, system flexibility, frequency regulation and reliability of the network.”*

AES and Mitsubishi partnered together on the 10 MW system to accelerate the adoption of battery-based energy storage technology in India.

*“Battery-based energy storage has an essential role to play in helping India realize its vision for a more sustainable energy future,” said Mr. Andrés Gluski, AES President and Chief Executive Officer. “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.”*

Integrating solar and wind power with storage can increase renewable resources’ value by providing firm, predictable blocks of energy, much in the same way as traditional methods of generation.

*“We are honored to work alongside Tata Power, Tata Power-DDL, and AES in inaugurating this historic project,” said Mr. Tsunehiro Makabe, General Manager of Mitsubishi Corporation’s Environmental Energy Business Department. “As South Asia’s largest grid-scale energy storage system, we are confident that it will play a key role in enhancing the flexibility and reliability of India’s power grid.”*

*“Fluence is proud to support Tata Power-DDL in their efforts to continuously improve network by adopting new technologies such as Fluence’s Advancion energy storage platform,” said Mr. Stephen Coughlin, CEO of Fluence. “This historic project is a major step forward and will showcase the*



*valuable role energy storage will play in enabling India to achieve its sustainable energy goals. Fluence brings to the project more than a decade of experience deploying and operating grid-scale battery-based energy storage projects, with over 730 MW deployed or contracted around the world. ”*

Mr. PK Pujari, Chairman, CERC inaugurating South Asia's Largest Grid-Scale Battery Energy Storage System (BESS) at TATA Power-DDL's substation at Rohini, New Delhi today in the presence of Mr. Praveer Sinha, CEO & Managing Director, TATA Power, Mr. Andres Gluski, President and CEO, AES Corp, Mr. Yoji Taguchi, Chairman & MD, Mitsubishi Corporation India, Mr. TK Pandey, Principal Resident Commissioner of Odisha Government in New Delhi

#### **About Tata Power Delhi Distribution Limited:**

Tata Power Delhi Distribution Limited is a joint venture between Tata Power and the Government of NCT of Delhi. Tata Power-DDL distributes electricity in North Delhi and serves a populace of 7 million. Tata Power-DDL has been the frontrunner in implementing power distribution reforms and is acknowledged for its consumer-friendly practices. Since privatization, the Aggregate Technical & Commercial (AT&C) losses in Tata Power-DDL areas have shown a record decline. Today, AT&C losses stand at 8.4% which is an unprecedented reduction of over 84% from an opening loss level of 53% in July 2002. To learn more about Tata Power-DDL, please visit [www.tatapower-ddl.com](http://www.tatapower-ddl.com).

#### **About Tata Power:**

Tata Power is India's largest integrated power company and, together with its subsidiaries & jointly controlled entities, has an installed capacity of 10857 MW. A pioneer in the field, it has a presence across the entire power value chain: Generation of renewable as well as conventional power including hydro and thermal energy; transmission & distribution, trading and coal & freight logistics. With renewable energy assets in solar and wind accounting for 22% of the company's portfolio, Tata Power is a leader in clean energy generation. In

line with the company's view on sustainable and clean energy development, Tata Power is steering the transformation of utilities to integrated solutions by looking at new business growth in EV charging & storage, distributed generation & rooftops, microgrids and home automation & smart meters.

It has successful public-private partnerships in generation, transmission & distribution in India namely: 'Tata Power Delhi Distribution Ltd.' with Delhi Vidyut Board for distribution in North Delhi; 'Tata Power Ajmer Distribution Ltd.' with Ajmer Vidyut Vitran Nigam Ltd. for distribution in Ajmer; 'Powerlinks Transmission Ltd.' with Power Grid Corporation of India Ltd. for evacuation of Power from Tala hydro plant in Bhutan to Delhi; 'Maithon Power Ltd.' with Damodar Valley Corporation for a 1050 MW Mega Power Project at Jharkhand. Tata Power is serving more than 2.6 million distribution consumers in India and has developed the country's first 4000 MW Ultra Mega Power Project at Mundra (Gujarat) based on super-critical technology.

With growing international focus, Tata Power's global presence includes strategic investments in Indonesia through a 30% stake in the coal company PT Kaltim Prima Coal (KPC); 26% stake in mines at PT Baramulti Suksessarana Tbk (BSSR); in Singapore through Trust Energy Resources; in South Africa through a joint venture called 'Cennergi' to develop projects in sub-Sahara Africa; in Zambia through a 50:50 joint venture with ZESCO for 120 MW Hydro project; in Georgia through AGL which is a joint venture with Clean Energy, Norway & IFC for development of 187 MW hydro project; in Bhutan through a hydro project in partnership with The Royal Government of Bhutan.

With its 103 years track record of technology leadership, project execution excellence, world-class safety processes, customer care and driving green initiatives, Tata Power is poised for multi-fold growth and committed to 'lighting up lives' for generations to come.

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