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For immediate release

NTPC Awards state-of-art 'Long Duration Electrical Energy Storage' CO2 Battery Project to Triveni Turbine Limited

Noida, January 29, 2025: NTPC Ltd., India's largest integrated power generation company, has announced the launch of CO2 battery energy storage technology, making it a significant milestone in its journey towards sustainable and innovative energy solutions. The project shall be executed on Turnkey basis by Triveni Turbine Limited along with their technology partner M/s. Energy Dome.

The plant will be set up in NTPC Kudgi plant premises with a capacity of 160MWhr. This project shall be a part of NTPC's broader strategy to diversify its energy portfolio and increasing the renewable power generation in its total capacity. Also, CO2 Battery is consistent with the Government of India initiative of 'Make in India' and 'Atmanirbhar'.

Commenting on the development, **Shri. Gurdeep Singh, Chairman & Managing Director – NTPC**, said "This is a landmark development in the domain of 'Long Duration Energy Storage' (LDES). NTPC is proud to be in the technology forefront and setup the 'CO2 Battery' at NTPC Kudgi. With several advantages viz. very long lifetime (>25 year), no need of critical minerals viz. Lithium, Cobalt, topography agnostic, minimal performance degradation - unlike Battery Energy Storage System (BESS) where intricate electrochemistry is involved, very high depth of discharge (100%) - successful demonstration of this technology shall open new vistas in the field of 'Electrical Energy Storage'."

Mr. Dhruv M Sawhney, Chairman & Managing Director – Triveni Turbines, observed "We are delighted to win this landmark order from NTPC that aims to accelerate India's energy transition efforts by making renewable energy (RE) dispatchable. It is a testament to our expertise in designing and developing innovative, energy-efficient solutions addressing our customers' demands. Our CO2-based products and solutions underscore Triveni Turbine's commitment to growth and excellence through strategic opportunities that align well with our existing solutions and strengths. Our long-term partnership with Energy Dome, aims to deliver sustainable alternative green storage of energy also aligns well with our energy transition solutions."

Claudio Spadacini, Founder & CEO, Energy Dome further added, "The best projects are those that create win-win opportunities. Our long-term collaboration with Triveni Turbines and NTPC to deploy the CO2 Battery achieves this by advancing NTPC's decarbonization goals and round-the-clock (RTC) power delivery while strengthening India's local supply chain through domestic sourcing. This project not only demonstrates the potential of sustainable innovation but also establishes a key global reference for our transformative technology, contributing to a cleaner and more resilient energy future."

About Triveni Turbine Limited

Triveni Turbine Limited (TTL) is a focused, growing and market-leading corporation having core competency in the area of industrial heat & power solutions and decentralized steam-based renewable turbines up to 100 MW size. The Company is amongst the leading manufacturers of industrial steam turbines both in India and globally. The Company delivers robust, reliable and efficient end-to-end solutions. The Company's ability to provide high-tech precision engineered-to-order solutions has made it one of the most trusted names within the sector.

Triveni Turbines manufactures steam turbines at its world-class manufacturing facilities in Bengaluru, India and assists its customers with their aftermarket requirement through its global servicing offices. With installations of 6000+ steam turbines across over 20 industries, Triveni Turbines is present in over 80 countries around the world. It was demerged from its parent Company, Triveni Engineering and Industries Limited (TEIL) in 2010. TEIL held 21.85% equity capital of TTL since the demerger until 2022. On September 21, 2022 TEIL fully divested its stake in TTL.

Triveni Turbine Limited offers steam turbine solutions for Industrial Captive and Renewable Power. The Company provides renewable power solutions specifically for Biomass, Independent Power Producers, Process Co-generation, Waste-to-Energy, Waste Heat Recovery and District Heating. Its steam turbines are used in diverse industries, ranging from Sugar, Distilleries, Steel, Cement, Textiles, Chemicals, Oil & Gas, Pulp & Paper, Petrochemicals, Fertilisers, Solvent Extraction, Metals, Palm Oil to Food Processing and more. Apart from manufacturing, the Company also provides a wide range of aftermarket services to its own fleet of turbines as well as turbines and other rotating equipment such as compressors, rotors, etc. of other makes supported by its team of highly experienced and qualified service engineers.

Triveni Turbines' market leadership has been built on a foundation of strong and continuously evolving research, development and engineering capabilities. The customer centric approach to R&D, along with a keen focus on delivered product and life-cycle cost has allowed Triveni Turbines to set benchmarks for efficiency, robustness and up-time of the turbine. A strong internal team, strengthened by collaborative associations with globally leading design and research institutions, has placed Triveni at the forefront of a technically challenging field dominated by large multi-nationals.

For further information on the Company, its products and services please visit www.triveniturbines.com

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