

Tata Power Renewable Energy Limited Lights up Asia's Largest Tea Estate with Innovative Solar Power Technology

- The first-ever installation of on-ground bifacial modules captures sunlight from both sides of the panels, leading to increased energy generation
- Generate an estimated 1.5 MUs of energy annually; reduces carbon footprint of 29420 lakh tonnes of CO₂, equivalent to planting 47,000 teak trees

National, January 29th 2024: Tata Power Renewable Energy Limited (TPREL), a leading player in India's renewable energy sector and a subsidiary of The Tata Power Company Limited, has successfully commissioned a pioneering 1040 kW Bifacial Solar System project with Chengmari Tea Estate, Asia's largest tea estate. This marks the first-ever installation of on-ground bifacial modules in eastern India.

Despite the challenging monsoon conditions over a period of 3.5 months, the project involving the installation of approximately 1,900 modules was completed within an impressive six-month timeframe and is expected to generate an estimated 1.5 MUs of energy annually for the Tea Estate.

Speaking on the project commissioning, Mr. Deepesh Nanda, MD & CEO, Tata Power Renewable Energy Limited, said, *"TPREL takes great pride in announcing the successful commissioning of this innovative Bifacial Solar System project at Asia's largest tea estate. The innovative Bifacial technology, capturing sunlight from both sides of the solar panels, represents a significant leap forward in enhanced clean energy generation. We are proud to be at the forefront of this revolution, pushing the boundaries of technological excellence and environmental stewardship."*

The recent inauguration ceremony, attended by around 100 tea garden workers and owners, underscored the transformative impact of TPREL's commitment to clean and sustainable energy practices in the region. The initiative is projected to significantly reduce the region's carbon footprint, with an estimated annual decrease of 29,420 lakh tonnes of CO₂, equivalent to planting 47,000 teak trees.

Mr. Gajendra Sisodia, General Manager, Chengmari Tea Estate, said, *"Chengmari Tea Estate has always been a symbol of quality and tradition. Today, we add another feather to our cap as we step into a greener future. We are immensely grateful to Tata Power Renewables for their commitment and expertise in turning this vision into reality. This project is not just about harnessing solar power; it's about setting a precedent for sustainable practices in the industry. Together, we are making a lasting positive impact on the environment and paving the way for a more sustainable future for all."*

With this addition, the total renewables capacity of TPREL reached 9,012 MW (PPA capacity is 7,626 MW), which comprises 4,752 MW of projects in different phases of development and an operating capacity of 4,260 MW, including 3,241 MW in solar projects and 1,019 MW in wind projects.

About Tata Power Renewable Energy Limited:

Tata Power Renewable Energy Limited (“TPREL”) is a subsidiary of The Tata Power Company Limited and is one of the country’s most significant renewable energy players. TPREL is a developer of renewable energy projects (including solar, wind, hybrid, round-the-clock (RTC), peak, floating solar, and storage systems including battery storage) that it owns, operates, and maintains. It also offers comprehensive green energy solutions for rural and urban areas like turnkey, EPC and O&M solutions for various business segments like utility-scale projects, solar rooftop, and solar pump systems. Along with its extensive portfolio of renewable solutions, it has a state-of-the-art solar cell and module manufacturing plant of 530 MW solar cells and 682 MW modules in Bengaluru and plans to set up a Greenfield to set up a Greenfield 4.3 GW solar cell & solar module plant in Tamil Nadu. In addition, TPREL also provides electric vehicle (EV) charging solutions across various segments and other advisory solutions across the renewable sector. As on date, TPREL’s total renewable utility capacity is 9,012 MW* (PPA capacity is 7,626 MW) including 4,752 MW projects under various stages of implementation and its operational capacity is 4,260 MW, which includes 3,241 MW solar and 1,019 MW wind. Presently, the company’s solar EPC portfolio is more than 12.8 GWp of ground-mount utility-scale, over 1.8 GW of rooftop and distributed ground-mounted systems, and over 1,00,000 solar water pumps. TPREL aims to provide energy access to millions of people across the country via its integrated green energy solutions. Know more: www.tatapowersolar.com.

About Tata Power:

Tata Power is a leading integrated power company and a part of Tata Group, India’s largest multi-national business conglomerate. The company has a diversified portfolio of 14453 MW, spanning across the entire power value chain - from renewable and conventional energy generation to transmission & distribution, trading, storage solutions and solar cells and module manufacturing. As a pioneer of clean energy transition in India, Tata Power has 5593 MW of clean energy generation, which constitutes 39% of its total capacity. The company has also committed to achieve carbon neutrality before 2045. Tata Power has established India’s most comprehensive clean energy platform, with offerings such as rooftop solar, microgrids, storage solutions, EV charging infrastructure, home automation et al. The company has also attracted global investors to support its growth and vision. Tata Power has successfully partnered with public and private entities in generation, transmission & distribution sectors in India, serving approx. 13 million customers across the country. To know more about Tata Power, visit www.tatapower.com

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