

## Tata Power Solar commissions India's largest floating solar power project of 101.6MWp in Kerala backwaters

**National, June 25, 2022:** Tata Power Solar Systems Limited (Tata Power Solar), a wholly-owned subsidiary of Tata Power, has accomplished a remarkable feat by commissioning India's largest floating solar power project in Kayamkulam, Kerala on a 350-acre water body, backwaters area, having an installed capacity of 101.6 Megawatt Peak. This installation was completed within the stipulated period, despite the arduous challenges of variable water depths, high sea tides, and severe water salinity concerns faced throughout the project's construction duration.

Tata Power Solar successfully built a scaffolding platform on the water body to make the entire solar plant float on water. This project is the first one in the Floating Solar Photovoltaic (FSPV) through Power Purchase Agreement category. This plant boasts a floating inverter platform having a 5 Megawatt (MW) capacity. The large-scale installation and commissioning of this 101.6 MWp capacity solar plant have been the fastest in the FSPV category, with ready a Commercial Operation Date (CoD) certification, which means the project has been noded as complete and operational. The entire project is anchored to the waterbed of Kerala backwater using 134 cast pile foundations that are bored to a depth of 20 meters underwater to support the Central Monitoring and Control Stations (CMCS) and the 33/220 kilovolts switchyard. All this was done by dredging soil strata underwater, wherein the high groundwater was also a deterrent.

The entire array involving floats and solar panel modules had to be towed for 3 kilometers on a sea-linked National waterway, which was 15 meters deep, exposing the solar modules to high winds and gushing tides often reaching a height of about 3.5 meters. To operationalize the project, Tata Power Solar's execution team was successfully able to synchronize the 33/220 Kilovolts Air Insulated Substation (AIS) with 220 Kilovolts existing Gas Insulated Substation (GIS).

**Speaking about this remarkable feat, Dr. Praveer Sinha, CEO, and MD, Tata Power,** said, "The commissioning of India's first and largest floating solar project is an innovative and incremental step toward meeting India's sustainable energy goals. We are incredibly proud of our team's unrelenting efforts in delivering this unique solar project that floats atop a large waterbody."

A power purchase agreement has been signed with a PSU client, wherein the entire power generated from this plant will be used by Kerala State Electricity Board (KSEB). Interestingly, all the solar modules used in this plant were safely transported, unloaded, and stored on a limited parcel of land for about 35 days by Tata Power Solar. In its construction stages, the plant also adequately housed a team of 350 personnel who were tasked with speeding up the project as per contract agreements.

**Mr. Ashish Khanna, President – Renewables, Tata Power,** added, "We are thrilled to commission India's largest floating solar project of 101.6 MWp in Kerala's backwaters. The installation exhibits our determination toward timely project delivery, smooth execution skills, and well-synchronized team effort. This project reinforces Tata Power Solar's commitment to leading India's transition towards a greener future and achieving our collective vision of realizing 500 GW of energy through solar power by 2030."

With the completion of this floating solar project, Tata Power Solar stands as the epitome of accomplishing landmark projects in the country that not only reduce carbon emissions but innovatively exhaust the unutilized area atop a water body to generate energy. This project is also one of the first by Tata Power Solar to be monitored and tracked by 24x7 CCTVs for added security and malfunction detections.

With the commissioning of this project, the company's total utility-scale solar project portfolio touches 9.7GWp.

**About Tata Power Solar :**

Tata Power Solar, with over 32 years of deep domain expertise is one of the pioneering solar manufacturers in the world and India's largest specialized EPC player. Founded in 1989, the company was originally formed as a joint venture between Tata Power and British Petroleum Solar (BP Solar). As a pioneer and market leader in the solar space, headquartered in Bangalore Tata Power Solar now operates independently as a wholly-owned subsidiary of Tata Power. As one of the largest solar manufacturers in India, Tata Power Solar operates a world-class manufacturing unit in Bangalore, with a production capacity of 635MW of modules and 500 MW of cells. It has a portfolio of more than 9.7GWp of ground-mount utility-scale, over 1,000MW of rooftop and distributed generation projects across the country & installed over 70,000 Solar Water Pumps in India to date. It also offers a diverse line of solar solutions for both urban and rural markets – these include rooftop solutions, solar pumps, and power packs, among others. Tata Power Solar is committed to enabling solar everywhere and aims to provide energy access to millions of people across the country via its integrated solar solutions. For more information, visit: [www.tatapowersolar.com](http://www.tatapowersolar.com)

**About Tata Power:**

Tata Power (NSE: TATAPOWER; BSE:500400) is one of India's largest integrated power companies and together with its subsidiaries and jointly controlled entities, has an installed/managed capacity of 13,735 MW. The Company has a presence across the entire power value chain - generation of renewable as well as conventional power including hydro and thermal energy, transmission & distribution, coal & freight, logistics, and trading.

The Company had developed the country's first Ultra Mega Power Project at Mundra (Gujarat) based on super-critical technology. With 4.9 GW of clean energy generation from solar, wind, hydro, and waste heat recovery accounting for 35% of the overall portfolio, the company is a leader in clean energy generation.

It has successful public-private partnerships in generation, transmission & distribution in India viz: Powerlink's 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 1,050 MW Mega Power Project at Jharkhand.

Tata Power is currently serving more than 12 million consumers via its Discoms, under public-private partnership model viz Tata Power Delhi Distribution Ltd. with the Government of Delhi in North Delhi, TP Northern Odisha Distribution Limited, TP Central Odisha Distribution Limited, TP Western Odisha Distribution Limited, and TP Southern Odisha Distribution Limited with Government of Odisha.

With a focus on sustainable and clean energy development, Tata Power is steering the transformation into an integrated solutions providers by looking at new business growth in distributed generation through rooftop solar and microgrids, storage solutions, EV charging infrastructure, ESCO, home automation & smart meters et al.

With its 107 years track record of technology advancements, project execution excellence, world-class safety processes, customer care, and green initiatives, Tata Power is well poised for multi-fold growth and is committed to lighting up lives for generations to come. For more information visit us at: [www.tatapower.com](http://www.tatapower.com)

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