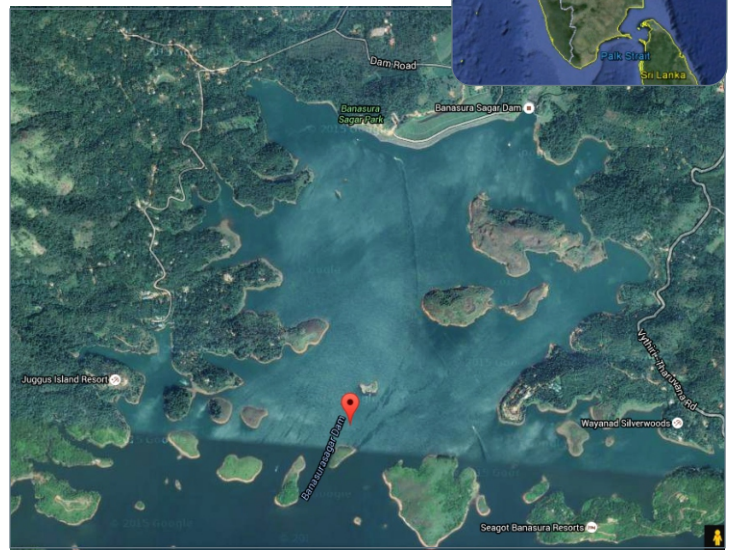


500kW FLOATING SOLAR POWER PLANT

Kerala, India

Kerala State with large stretches of water bodies has huge potential for floating photovoltaic systems. The Kerala State Electricity Board Ltd (KSEBL) has awarded a 500 kWp Floating Grid Interactive Solar Photovoltaic Power Project in the Banasurasagar dam in Wayanad to a consortia led by Adtech Systems Ltd, a Thiruvananthapuram based company. The other members of the implementing consortium are Hyderabad based Radiant Solar Pvt Ltd, Floatels India Pvt Ltd and Regen Power Pty Ltd, an Australian renewable energy company based in Western Australia.



10kW Floating Solar Power Plant installed in Banasurasagar

The project involves Fibersteel based floating structures which are able to adapt to varying reservoir water levels by means of an innovative anchoring system. The floating system was originally developed by Trivandrum based Floatels India Pvt Ltd.

A scaled down (10kW) version of the system has been successfully installed in the same reservoir by Vaatsa Energy Pvt. Ltd a young start-up company in Wayanad with technical support from Floatels. The 500 kWp Project will have 1,938 solar panels each rated at 260 watts manufactured by Radiant Solar and 17 numbers of String type grid feeding inverters from ABB. The plant will generate about 700,000 kWh per year which will be fed directly to the grid.



Predicted monthly electricity generation for the 500 kW floating power plant

Floating solar power plants have been rapidly gaining popularity around the world – they solve issues relating to land usage and reduce water evaporation and the growth of algae. The water also helps to keep the solar panels cool, boosting conversion efficiency and generate more power than land-based solar installations under the same condition.

According to M.R. Narayanan, Chairman of Adtech Systems and Managing Director of Floatels India Pvt. Ltd., "Floating solar power plant is a unique, reliable and eco-friendly solution to address issues related to energy, water conservation and land availability."



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