



CITY IN FOCUS



2MW Floating Solar Plant, Mudasarlova Reservoir, Visakhapatnam, June 2019

Reduced evaporation from water reservoirs

Improvements in water quality, through decreased algae growth

Easy installation and deployment in sites with low anchoring and mooring requirements

Resilient to varying wind speed and changing levels of the reservoirs.

3613.5 MWh of Electricity Generated/Year.

Reduction in 3,080 tons of CO2 Emissions per year

Rs. 2,30,90,265 saved in Electricity Bills/Year

Environmental impact of this plant is equivalent to 1,38,600 mature trees.

VISAKHAPATNAM

PROJECT	Floating Solar power plant
Type/ Thematic Area	Energy & Green Building
CONTACT	KVN Ravi , SE Engineering Department, GVMC

The Greater Visakhapatnam Smart City Corporation Limited (GVSCCL) has built the grid-connected floating solar power plant at the Mudasarlova reservoir over 20 acres, with an investment of around Rs 11.36 crores. With a capability to generate about 2 MW of power, the plant is deemed as the country's biggest floating solar power plant in 2019.This project was also chosen for award under the 'Innovative Idea' category at 3rd National Apex Conference of Smart Cities CEOs in January 2020. According to the Greater Visakhapatnam Municipal Corporation (GVMC) officials during field visit, the plant has been annually saving at least Rs 2.3 crore on electricity bills, thereby, recovering the investment made in nearly six years time.

Floating solar photovoltaic (FPV) installations open up new opportunities for scaling up solar generating capacity, especially in cities with high population density and competing uses for available land. They have certain advantages over land-based systems, including utilization of existing electricity transmission infrastructure at hydropower sites, close proximity to demand centers (in the case of water supply reservoirs), and improved energy efficiency due to cooling effects of water, thus providing better performance.

** Views are expressed in consultation with city officials during field visit*

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VAISHNAVI SHANKAR

Fellow and Lead, Capacity Building (acting)
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Link: <https://linktr.ee/ccube>



In the C-Cube Blog, Ms Vaishanavi Shankar, Fellow and Lead Capacity Building (acting), Climate Centre for Cities, NIUA writes about Enabling Local Action For Building Climate Resilience. Read blog [here](#)

ANNOUNCEMENTS



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