

What is Floatovoltaics?

January 8, 2023 • vajiramandravi.com



About Floatovoltaics:

- **Floatovoltaics, floating solar plants, or FSPV (floating solar photovoltaic) are panel structures that are installed on water bodies like lakes, basins, and reservoirs instead of on solid structures like a roof or terraces.**
- The biggest impetus behind the rise of large-scale FSPV has been that it doesn't take up any land space, which could be then used for construction and agriculture.
- **The world's first large-scale FSPV system was installed in 2011, in Napa Valley, California.**

India:

- In recent years, floating solar power plants have become part of India's plans of solar expansion.

- According to a 2020 study by TERI (The Energy and Resources Institute) reservoirs cover **18000 square Kilometer in India and can generate 280 GW through floating solar panels.**
 - Currently less than **1% of solar installations are floating.**
 - The largest floating solar power plant in India is currently the **Ramagundam in Peddapalli district of Telangana, with a capacity of 100 MW.**
 - Currently a plant is being built on the **Narmada' Omkareshwar Dam in Khandwa, Madhya Pradesh** is being built with a capacity of 600 MW, which will soon be the **largest floating solar power plant in the world.**
 - The project is touted to be worth Rs 3000 crore.
 - **What are the benefits of floating solar panels?**
 - the water's cooling effect makes them more efficient than land-based ones;
 - they don't interfere with desert ecosystems; and
 - they keep precious water from evaporating.
 - Even though reservoirs are artificial ecosystems, they provide habitats for wildlife.
-

Q1) What is the advantage of solar energy?

Solar energy include is a sustainable alternative to fossil fuels and has a low impact on the environment and the potential for any country to produce it

Source: <https://vajiramandravi.com/current-affairs/what-is-floatovoltaics/>

© Vajiram & Ravi. For personal use only.