

Does fishery complementary photovoltaic (FPV) power plant affect radiation and energy flux?

Meanwhile, the underlying surface of PV in land is significantly different from those in lake. The fishery complementary photovoltaic (FPV) power plant is a new type of using solar energy by PV power plant in China. The studies of the impact of FPV on the balance of both radiation and energy flux have been less presenting.

Are fishery complementary photovoltaic power plants a new surface type?

The deployment of photovoltaic arrays on the lake has formed a new underlying surface type. But the new underlying surface is different from the natural lake. The impact of fishery complementary photovoltaic (FPV) power plants on the radiation, energy flux, and driving force is unclear.

What are the coordinates of the fishery complementary photovoltaic demonstration base?

The central coordinates of study area 32°17'57" N, 119°47'39" E, and the altitude is 2 m. The fishery complementary photovoltaic demonstration base is composed of four ponds of 5.7-8.9 acre. The FPV is located on the central the pond with about the water depth from 2.5 m to 3 m.

Why is temperature difference important in fishery complementary PV power plant?

The difference in temperature in various water layers benefits the cultivation of different fish in the fishery complementary PV power plant. Fig. 6.

Where is fishery complementary FPV located?

The model base of the fishery complementary FPV is located in northern Yangzhong, Jiangsu, China. This city has a mean annual temperature of 17.1 °C. The mean annual precipitation and the accumulated sunshine hours are 791.8 mm and 1792.2 h, respectively.

Does a PV plant in a lake affect radiation and energy?

The total installed power generation of PV plant is accelerating in recent years. But the studies of the impact of PV plant in lake on radiation and energy were less reported. Meanwhile, the underlying surface of PV in land is significantly different from those in lake.

The installation process may temporarily disturb the aquatic ecosystem and fish habitats. While reduced light intensity can be beneficial, it might adversely affect certain species that rely on ...

The fishery-solar hybrid power station uses paddy and pit resources to realize the complementary development of fishery and photovoltaic power generation without occupying agricultural, ...

Fish-lighting complementary photovoltaic power station organically combines aquaculture and renewable



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energy. In this study we aimed to develop a solar photovoltaic that is not confined to land. We used a shade ...

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Photovoltaic (PV) power plants have shown rapid development in the renewable sector, but the research areas have mainly included land installations, and the study of fishery ...

Energies 2020, 13, 4822 2 of 11 Joint Research Center, more than 20% of the world's energy consumption will be solar photovoltaic power generation in 2040 [7]; solar photovoltaic power ...

Effects of fishery complementary photovoltaic power plant on near-surface meteorology and energy balance Peidu Li a, b, Xiaoqing Gao a, *, Zhenchao Li a, Tiange Ye a, b, Xiyin Zhou a, ...

Project Name: Fishing and light complementary photovoltaic power station. Project Content: The fishing and light complementary photovoltaic power station uses the vast area of the fish pond ...

China has built its largest fishery and photovoltaic complementary power project in the city of Wenzhou in eastern Zhejiang Province. The Taihan project covers a surface area of approximately 4.7 ...

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