

# Prospects of offshore solar power generation

Is offshore photovoltaic power generation the next step of development?

China has the largest fleet of water floating photovoltaic power stations. Water-based PV is typically installed on inland shores, but now offshore areas may become the next step of development. In this paper, the background of offshore photovoltaic power generation and an analysis of existing offshore photovoltaic systems is presented.

What challenges do offshore solar PV systems face?

Offshore solar PV development faces a series of unique challenges compared to land-based PV systems. Firstly, floating offshore PV systems face complex and harsh operational environments.

Can offshore solar photovoltaics deliver cost competitive energy to net zero?

You bet! RWE is now exploring the prospects for stand-alone and hybrid offshore solar photovoltaics to offer new ways to deliver cost competitive energy in our journey to Net Zero. RWE has more than 20 years' experience in the construction and operation of solar power plants.

Does China have an offshore solar PV resource?

China has embarked on the promotion of offshore solar photovoltaic (PV) development along its coastal regions in pursuit of carbon neutrality. An evaluation of the inherent features and exploitative potential of offshore solar PV resource stands as a pivotal measure to the development and utilization of China's offshore solar PV resource.

How has offshore wind power impacted the development of solar PV?

The success of offshore wind power has particularly catalyzed increased emphasis on offshore solar PV development. Several coastal provinces, such as Shandong, Zhejiang, Hainan, and Jiangsu, have introduced supportive policies for offshore PVs.

What is the future of offshore PV?

Future development of offshore PV will increasingly include aquatic PV built on lakes, reservoirs, and dam impoundments.

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