

<div class="df\_qntext">Should offshore solar PV development be considered in Hainan Island in 2022?

Recommendations for future offshore solar PV development suggest considering the southwest waters of Hainan Island, where the proportion of annual PV power generation to power consumption of the island in 2022 is nearly 225%. 1. Introduction 1.1. Low-carbon transition and offshore solar PV energy

<div class="df\_qntext">Do offshore solar PV resources exist in the South China Sea?

This approach takes into account both the characteristics of the offshore solar PV resources and ocean environmental factors. The findings reveal a particularly robust offshore solar PV resource presence primarily in the South China Sea, where the annual mean SPD exceeds 220 W/m<sup>2</sup>.

<div class="df\_qntext">Are land resources limiting the development of solar PV arrays?

Concomitant with the continual augmentation of onshore solar PV installed capacity, constraints related to land resources and policy stipulations have emerged as pivotal factors curtailing the widescale development of solar PV arrays.

<div class="df\_qntext">Can offshore solar PV be used in the North Sea?

The success of solar PV projects in the North Sea demonstrates the feasibility of offshore solar PV in overcoming challenging marine conditions. Taiwan's innovative floating solar anchoring solution has effectively addressed nearshore applications with substantial tidal ranges.

<div class="df\_qntext">Is Hainan a good place to invest in solar energy?

Notable exceptions include Tianjin, Jiangsu and Hebei. Hainan's exceptional potential for offshore PV resources makes it an outstanding representation of solar resource development. In Hainan, PV power generation exceeds electricity demand in 2022 by a factor of more than two.

<div class="df\_qntext">Can China install solar panels offshore?

Future outlooks As a global leader in offshore solar PV market, China is also increasingly seeking to install solar panels offshore, with some state-owned enterprises conducting trials up to 30 km from the coast.

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