

Is solar energy efficient in Macau?

However, in the view of Macau-based scholar Wai Ming To, interviewed later in this special report, "Macau is a small city and has many high-rise buildings. Thus, solar energy is not efficient due to the shadowing effect of adjacent buildings and the small ratio of rooftop area to total floor area.

Does offshore wind energy make sense in Macau?

"In our view, as external observers, offshore wind energy in Macau's territorial waters makes sense, as does the development of distributed generation of photovoltaic energy. Macau has a lot of sun and many roofs. There is a potential to develop this vector in the medium-to-long term."

Is natural gas a problem in Macao?

As a member of the Smart Energy Group of UM's State Key Laboratory, which focuses on optimising clean energy use and production, Zhang believes expanding the use of natural gas poses major problems, especially in the city's older districts. "Many buildings and [much of the] infrastructure in Macao are outdated.

As of March 2024, Macau has 9 solar PV systems connected to the network, with a total installed capacity of 3,223 kWp, producing over four million kWh of green energy. It is anticipated that larger photovoltaic systems will be developed in the ...

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Topography for solar PV around Macao, Macao. Macao is located on the southeast coast of China, at the mouth of the Pearl River Delta. The topography of Macao consists mostly of coastal flatlands with hills in the east and south. It's a densely populated urban area with limited open space.

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Its small and densely populated area, however, makes it unsuitable for large-scale solar-power plants, and

Macao has therefore chosen roof-top solar technology as the most effective way to utilize solar energy." (A one-square-meter solar panel can generate about 167 kWh per year in Macau.)

While Macao is not among the leaders in Asia when it comes to solar power generation, the private sector has stepped up to provide an alternative source. In Macao, a company known as Melco, has collaborated with local SMEs in the development of the ...

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