

Wholesale Price of 30kWh Photovoltaic Container for Wastewater Treatment Plants





Overview

What are the solar power utilization scenarios of PV & WWTP projects?

Summary of various solar power utilization scenarios of PV + WWTP projects. Leveraging electricity for hydrogen production via photovoltaic-electrochemical water splitting is another potential utilization scenario [59, 60]. The effluent of WWTPs provides a vast volume of water and oxygen can be simultaneously produced.

How many PV & WWTP projects are there?

Since 2019, hundreds of PV + WWTP projects have been built and are currently in operation nationwide, with the majority located in the Yangtze River Economic Belt. According to 31 case projects, the adoption of PV systems can, on average, supply about 20 % of the electricity required annually.

How much electricity can a wastewater treatment plant generate?

A coefficient of 0.184 is obtained and it means that the space for handling 1 m³ /d of wastewater can lead to 18.4 kWh/a of electricity generation under the current deployment paradigm in China. Generally, 0.33 kWh/d is required to treat 1 m³ volume of wastewater at WWTPs in China , thereby leading to about 120 kWh annually.

How does LZY's photovoltaic power plant work?

LZY's photovoltaic power plant is designed to maximize ease of operation. It not only transports the PV equipment, but can also be deployed on site. It is based on a 10 - 40 foot shipping container. Efficient hydraulics help get the solar panels ready quickly.



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Energy Self-sufficient Wastewater Treatment Plants: ...

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Contribution of solar photovoltaic to the decarbonization of wastewater

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