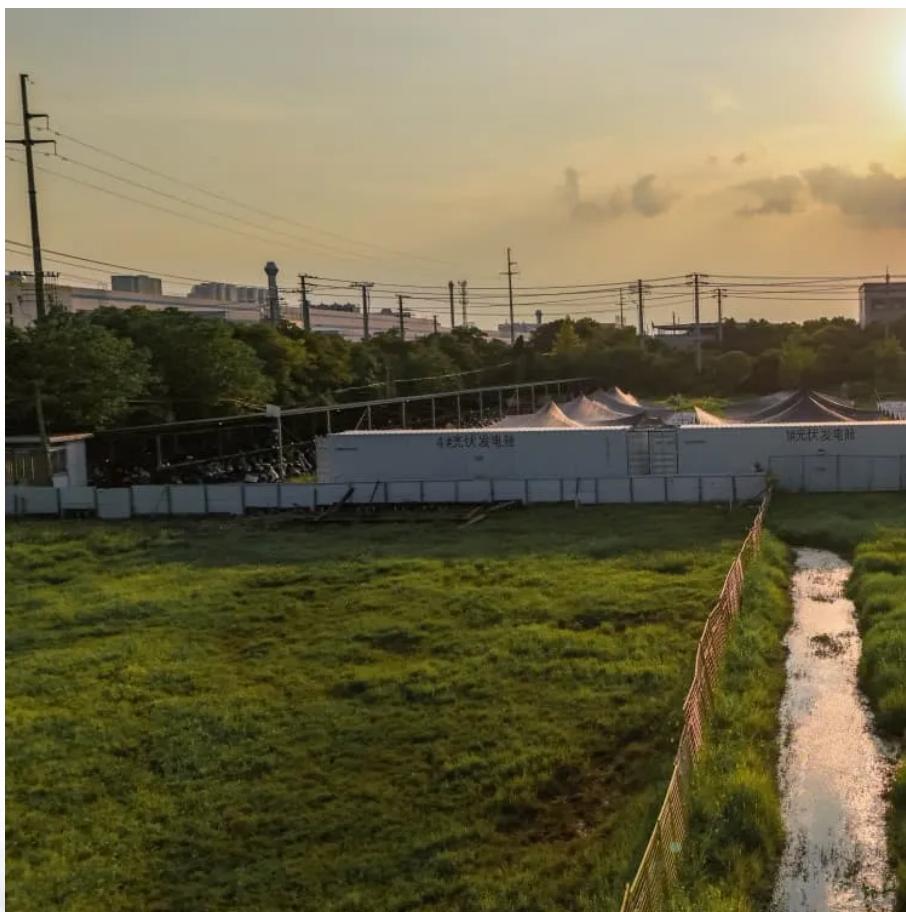




BUHLE POWER

Wholesale Price of 150-foot Photovoltaic Container for Wastewater Treatment Plants





Overview

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 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.

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+ projects are there?

According to the 95 PV+ projects, the evolution of cumulative numbers and installed power capacity are depicted in Fig. 2 (a). The first publicly reported PV+ project in the water sector started operation in 2013 in Beijing .



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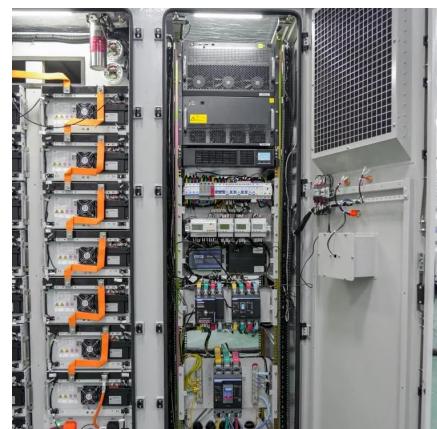


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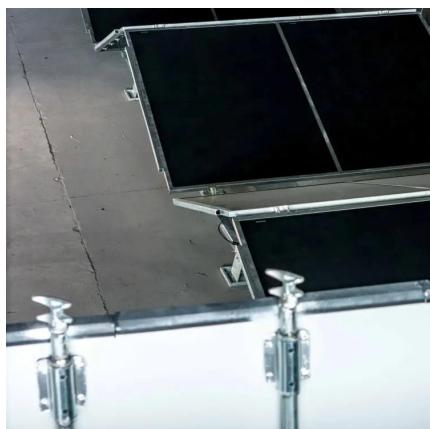
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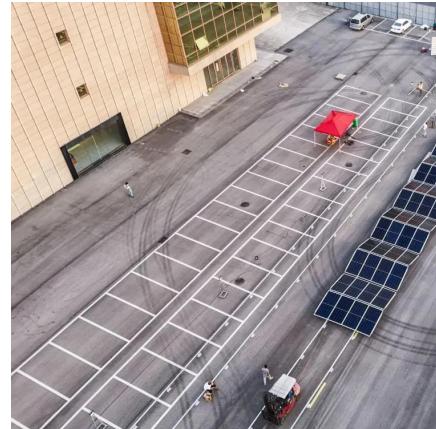
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