

30kW Photovoltaic Energy Storage 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.

What is the power capacity of PV+ system in wangxiaoying WWTP?

Among them, the PV+ system in Wangxiaoying WWTP, starting operation in 2018, has an installed power capacity of 10.8 MWp , making it the largest PV+ project at that time.

What are the practical applications of PV systems in the water sector?

In addition to GHG emission reduction potential, economic performance is another important factor to consider in practical applications of PV systems in the water sector. As such, ROI, PBP, and MAC of these cases are calculated and analyzed .



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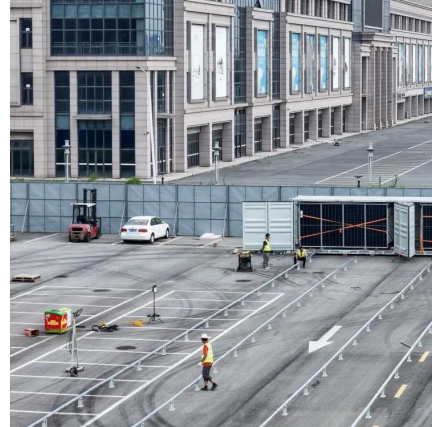
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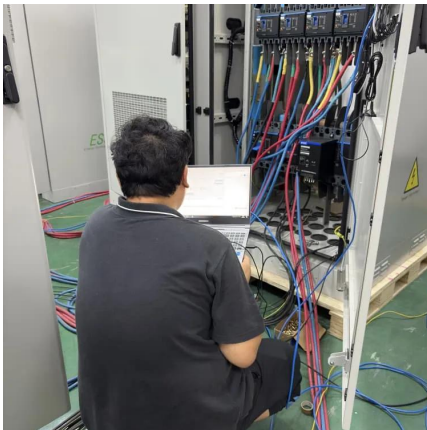
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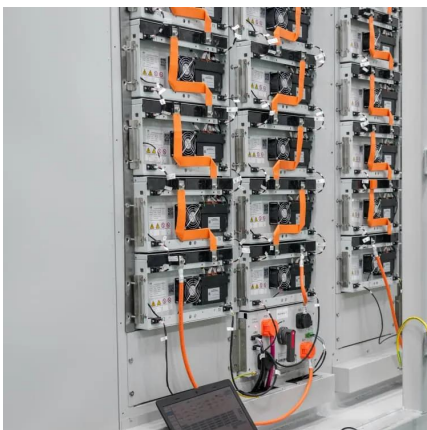
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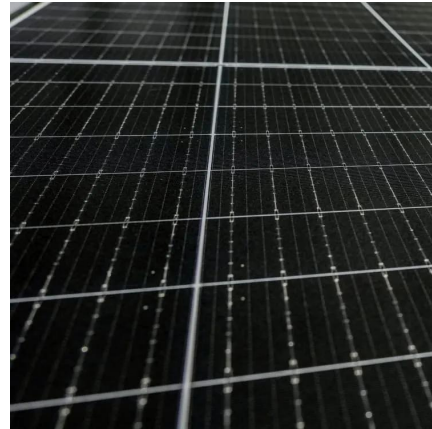
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