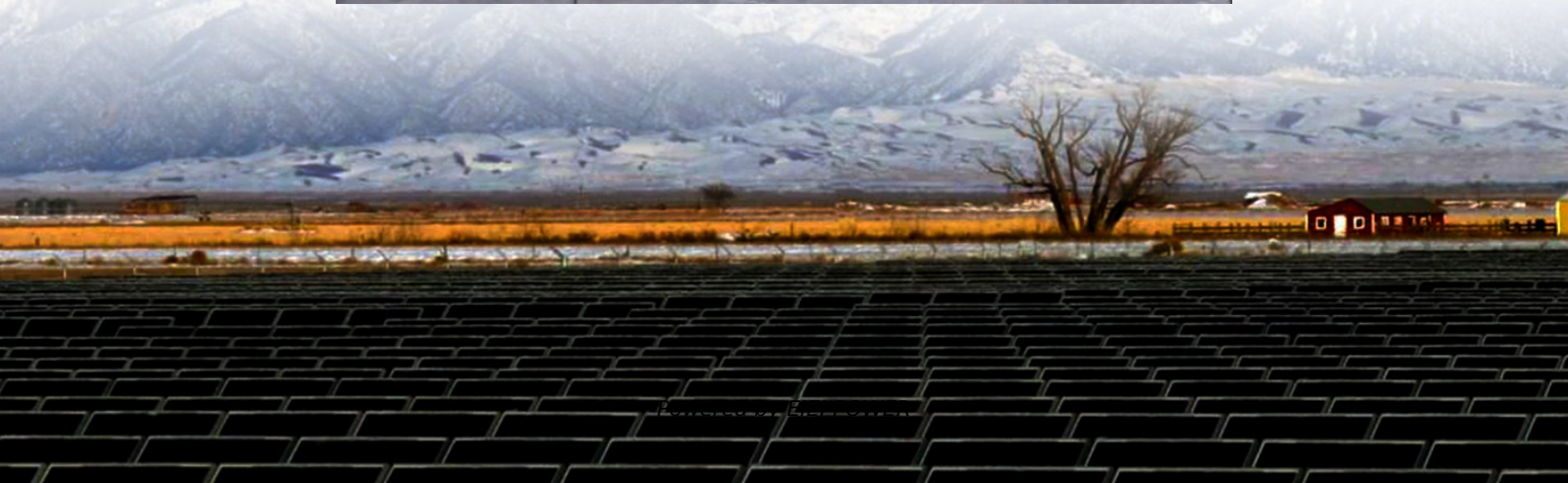


Earthquake-resistant solar-powered container for wastewater treatment plants





Overview

Are solar photocatalytic wastewater treatment plants environmentally friendly?

There do exist very few medium scale solar photocatalytic wastewater treatment plants which are environment friendly compared to the existing conventional systems. Treatment of wastewater using solar energy reduces the use of conventional power there by reduces emission of GHG.

What is the difference between solar energy and wastewater treatment plant?

The solar Energy faces the drawback to treat wastewater only during day time, whereas wastewater treatment plants are underperformed during night. Need for energy storage systems increases the overall cost of the WWT plant.

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.



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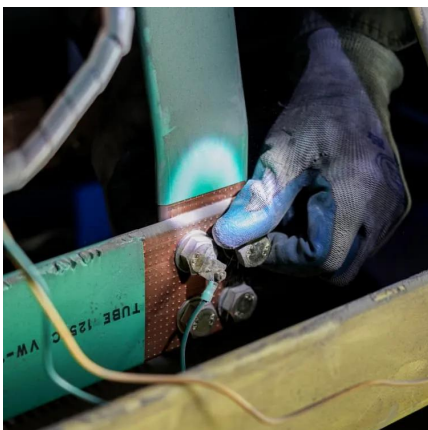
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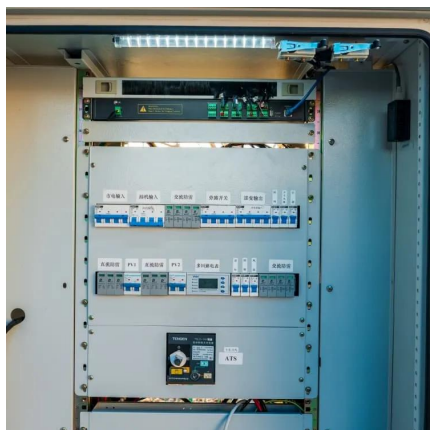
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