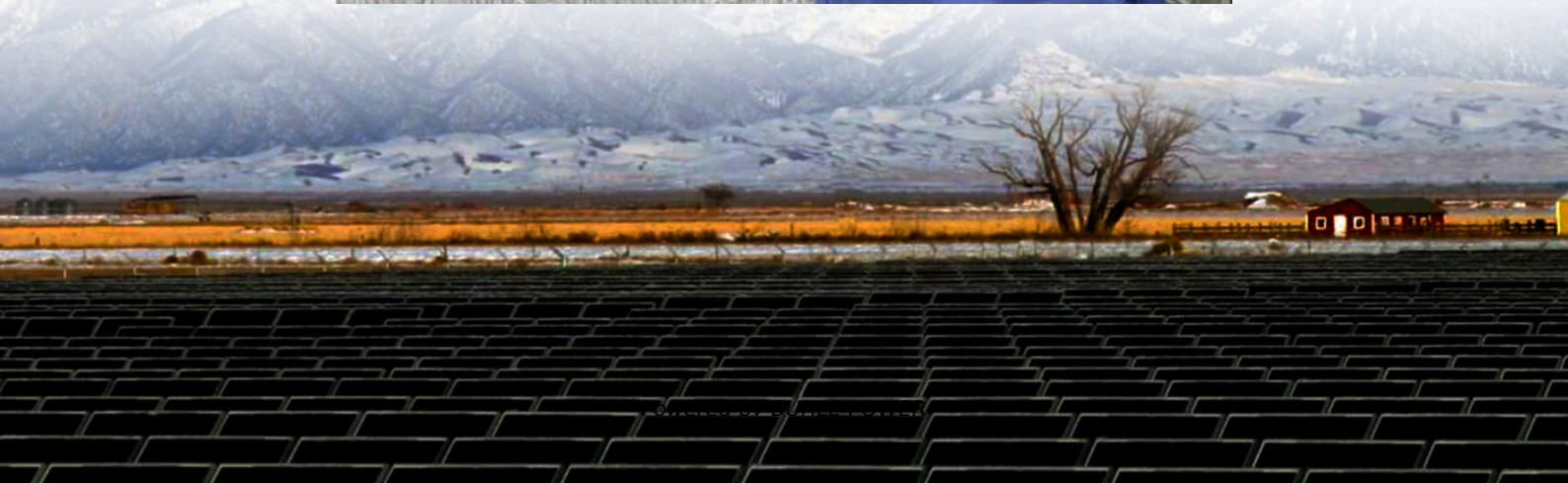


80kWh Off-Grid Solar Container for Wastewater Treatment Plants





Overview

Can solar energy be used in wastewater treatment?

The work within SHC Task 62 shows solar energy's great potential in wastewater treatment. Nevertheless, there is still the need to take further action. Using separation technologies such as membrane distillation in combination with solar process heat represents an innovative leap in the industry.

Are solar photons a viable solution for wastewater treatment?

In addition to thermal technologies, decontamination, and disinfection processes are paramount in wastewater treatment. Developing new decontamination and disinfection systems using solar photons must gain significant attention and visibility as a promising solution for achieving effective and sustainable disinfection.

Can solar thermal collectors be used for wastewater treatment?

Applications in various industrial sectors for solar water treatment. One research focus area of the Task was the combination of solar thermal collectors with technologies for wastewater treatment. This work aimed to create an innovative and, above all, economically attractive solution for industry.

Can solar water decontamination and disinfection systems use direct radiation?

Because temperatures of 35°C to 40°C are required on the evaporation side of the MD plant, this application is perfectly suitable for solar energy. In addition to thermal technologies, SHC Task 62 analyzed technologies that use direct radiation (UV/VIS) in solar water decontamination and disinfection systems.



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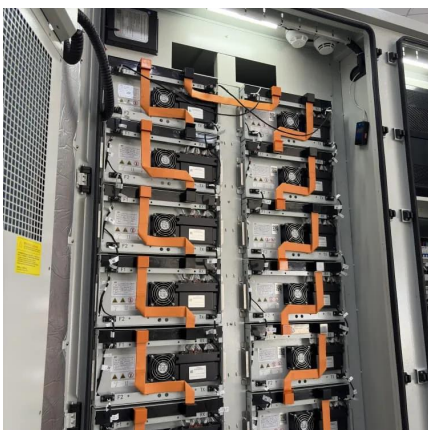


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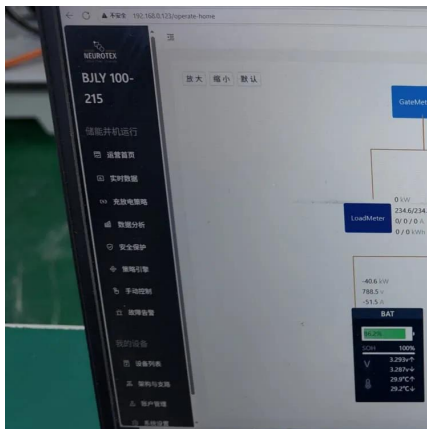
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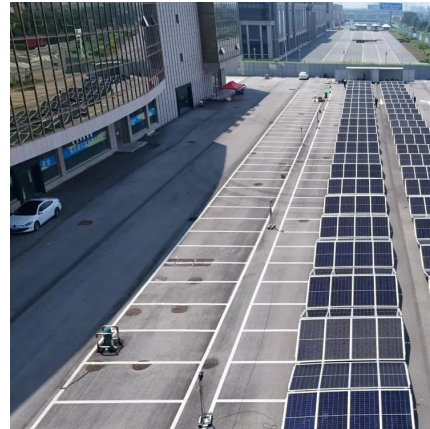
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