
Sarajevo Water Plant Uses Extra-Large Solar-Powered Container

Can solar energy be used in a multi-effect desalination plant?

Author to whom correspondence should be addressed. This study addresses the increasing demand for sustainable water production by investigating the integration of solar energy into a multi-effect desalination (MED) plant located in Zuara, Libya.

Can a desalination plant be operated using a thermal energy storage system?

This proposal examines the feasibility of operating the desalination plant by supplying steam from solar collectors throughout the entire day, using a thermal energy storage system. Therminol VP-1 is an ultra-high temperature synthetic heat transfer fluid that is suitable for various applications owing to its excellent heat transfer properties.

Can solar-powered MED plants produce sustainable water?

The thermal storage mode facilitated continuous, clean desalination at a higher cost (USD 0.97/m³) and required the largest solar field area. This study demonstrates the potential of solar-powered MED plants for sustainable water production, particularly in regions characterized by abundant sunlight and water scarcity.

Can solar power be used for water treatment plants?

Due to the quest for power supply from renewable, cheap, and non-gaseous emission sources coupled with the attempts to combat the shortage of potable water in rural areas, much research on the interface of solar energy power systems with water treatment plants has been reported.

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Also, even though solar-powered water treatment technologies are still in the early stages of research, and very rare studies based on real plants have been conducted, existing ...

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