

Wind-resistant Solar-Powered Containerized Wastewater Treatment Plant in Pakistan





Overview

What is solar-powered wastewater treatment?

Solar-powered wastewater treatment can vary from simpler one (solar still and SODIS) to mature technology (MD, MSF and RO). Selection of these technologies is very site specific. Solar still and SODIS are suitable for tropical countries having abundant solar energy but lacking investment and skilled manpower.

Is solar energy a viable option for water treatment?

The availability of freshwater has become the primary concern nowadays for modern society. Treatment of wastewater (contaminated by commercial and industrial activities) is an energy-intensive process which depends on the conventional form of energy. Solar energy can provide a viable option for water treatment and has gained an emerging interest.

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.

Can solar-driven water treatment be used in rural areas?

The technical and economic potential assessment for using solar-driven water treatment sets the course for further research and development projects in the most significant industrial sectors and municipal wastewater treatment, but also for use in rural areas (e.g., Africa) for applications like drinking water production.



Wind-resistant Solar-Powered Containerized Wastewater Treatment

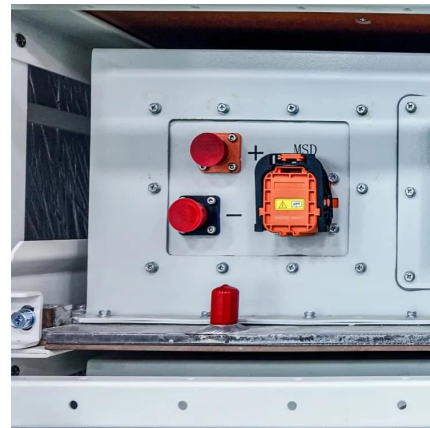


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