



Procurement of 100-foot Off-Grid Solar Containers for Wastewater Treatment Plants





Overview

REC Solar designed, engineered, procured and constructed the 2.16 MW ground mount solar array on a repurposed portion of a 48-acre buffer property near Central San's Martinez wastewater treatment plant. The solar array now generates energy that is fed directly into the PG&E grid.

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With decentralized wastewater treatment, there's no need for costly sewage pipelines to carry wastewater to a distant, central wastewater treatment plant. Instead, a small, self-contained plant is installed on-site or close to the point of use. It's the perfect solution for construction and mining.

A Request for Proposal (RFP) is a formal bid document to ask vendors to provide proposals for desired projects, as required by many public agencies (federal, state, local). A solar RFP outlines the photovoltaic (PV) product or service requirements, the contract terms, and bidding process. RFPs are.

Small wastewater treatment plants (WWTPs), which treat less than 1 million gallons per day (MGD), make up 79% of wastewater utilities in the United States and play a crucial role in our communities. WWTPs and drinking water systems account for approximately 2% of energy use in the United States.

However, water treatment and sanitation plants consume a significant amount of energy — about 4% of the U.S.'s total supply. This makes solar energy an exciting opportunity in this industry. It provides an efficient, sustainable power source to keep this critical infrastructure operating at a lower.

In addition to these pressing concerns, a staggering 80% of wastewater is discharged into the environment without proper treatment, causing significant environmental damage and posing severe threats to human health. Highly industrialized and densely populated areas have traditionally relied on.

ling pathway toward sustainable facility management. This conference will feature



real-world case studies demonstrating successful solar applications, technical discussions, and financial insights on how solar power can be effectively applied to water and wastewater treatment plants. Attendees will.



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[Benefits of Using Solar Energy for Water ...](#)

Discover how sanitation and wastewater facilities benefit from using solar energy. Learn the advantages, case studies, and future ...

[Wastewater Treatment for Off-Grid Locations, Fluence](#)

Fluence offers highly efficient decentralized wastewater treatment solutions with its Aspiral(TM) line of containerized plants based on membrane aerated biofilm reactor (MABR) technology for ...



[Renewable Energy Contract Development Best ...](#)

The purpose of this RFP template is to provide guidance for the procurement of solar PV. This template contains information on ...

[Off-Energy Grid Modular & Distributed Wastewater](#)

...

Upgrade to an off-sewer, off-energy grid modular wastewater treatment. Augment an existing system, add redundancy to your infrastructure, or ...

...



Transitioning Small Wastewater Treatment Plants to Solar with ...

The transition to solar energy presents a practical and sustainable solution for WWTPs to reduce their dependence on grid electricity, cut operational costs, and improve the resilience of their ...

Benefits of Using Solar Energy for Water Treatment Facilities

Discover how sanitation and wastewater facilities benefit from using solar energy. Learn the advantages, case studies, and future innovations.



Utilization of solar energy for wastewater treatment: Challenges ...

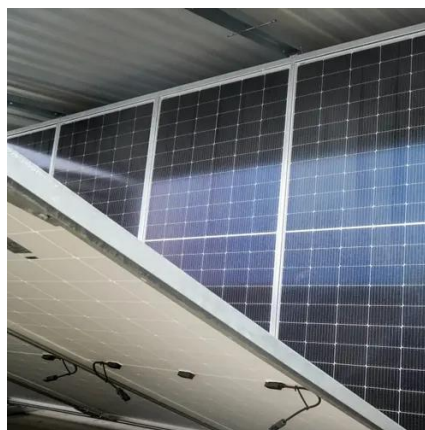
For treating domestic wastewater, solar desalination technologies adopted for purifying brackish water into potable water is presented along with key challenges and remedies.



Singlair® Solar



The Singlair Solar system delivers an environmentally friendly solution for onsite wastewater treatment by utilizing renewable solar energy to ...

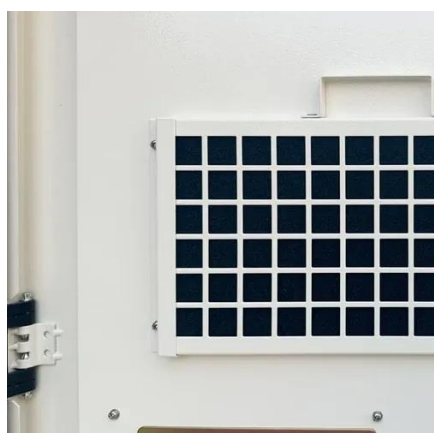


[SOLAR APPLICATIONS FOR WATER & WASTEWATER ...](#)

City of Pendleton and Ameresco Incorporating Floating Solar Systems at Water Treatment Facilities

[Wastewater Treatment for Off-Grid Locations](#)

Fluence offers highly efficient decentralized wastewater treatment solutions with its Aspiral(TM) line of containerized plants based on membrane aerated ...



[Addendum Number 1 Request for Proposals - Procurement ...](#)

Addendum Number 1 Dated: November 20, 2025
Request for Proposals - Procurement of Solar + Storage for Wastewater Treatment Facility RFP
Schedule:

[Wastewater Treatment in Remote and Off-Grid Areas](#)



Wastewater treatment in remote and off-grid areas poses unique challenges due to limited infrastructure and resources. This article explores the relevance and importance of ...



Wastewater Treatment in Remote and Off-Grid ...

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Off-Energy Grid Modular & Distributed Wastewater Treatment

Upgrade to an off-sewer, off-energy grid modular wastewater treatment. Augment an existing system, add redundancy to your infrastructure, or provide sanitation where needed with ...



Renewable Energy Contract Development Best Practices

The purpose of this RFP template is to provide guidance for the procurement of solar PV. This template contains information on project background, scope of work, proposal ...

Single Phase Hybrid

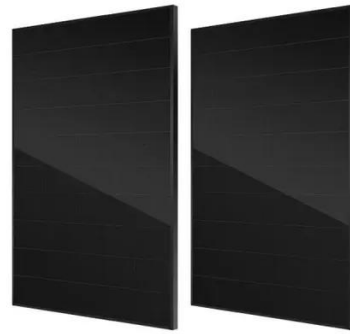


- 5 Year Warranty Period
- Global Leading Inverter Brand
- World Single Phase PV Inverter Supplier

Singlair® Solar



The Singlair Solar system delivers an environmentally friendly solution for onsite wastewater treatment by utilizing renewable solar energy to generate electricity. Solar power is a 100% ...





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