



# Off-grid solar-powered containerized wastewater treatment plant expandable





## Overview

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Southern Water pioneers off-grid wastewater treatment, powered by solar, wind, and battery storage. Learn how this innovative approach reduces carbon emissions and operational costs, setting a new industry standard for sustainability.

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In a groundbreaking move towards sustainability, Southern Water has successfully converted one of its wastewater treatment sites to operate entirely off-grid. This significant achievement not only marks a step forward in the company's commitment to environmental responsibility but also sets a new.

The City of Pendleton, Oregon, is making strides towards sustainability with the recent installation of a state-of-the-art solar canopy at its Wastewater Treatment and Resource Recovery Facility (WWTRRF). This innovative initiative not only aims to reduce energy costs significantly but also.

Wastewater treatment plants serve approximately 75% of Americans—more than 248 million people. However, many people do not recognize the energy burden these facilities create, which can be more than 30% of a municipality's energy bill. Most of this energy comes from fossil fuels. With rising energy.

The City of Pendleton, Oregon, just cut the ribbon on a new solar canopy at its wastewater treatment plant – the first project of its kind in the region. City officials and Ameresco, a Framingham, Massachusetts-based energy solutions provider, launched a 240-kilowatt (kW) solar PV canopy at the.

The solar canopy enhances the performance of our wastewater treatment facility. The solar canopy helps to improve water quality, reduce effluent temperature and support a healthier aquatic ecosystem. Ameresco A new solar canopy installed at a wastewater treatment plant in City of Pendleton, Oregon.

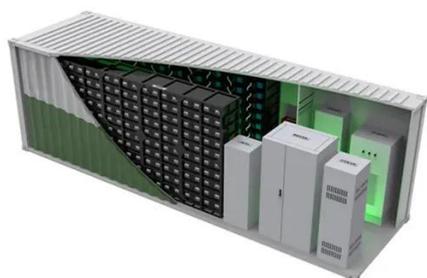
City officials in Pendleton, Oregon, joins distributed energy project developer Ameresco to inaugurate a 240-kW solar canopy at the city's Wastewater Treatment and Resource Recovery Facility (WWTRRF). The project is expected to generate



about 325,000 kWh of electricity annually, offsetting the.



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### [Ameresco Connects New 240-kW Solar Canopy Atop Oregon ...](#)

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### [Growing Impact: Solar-powered water treatment](#)

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what drove them to choose solar, ...



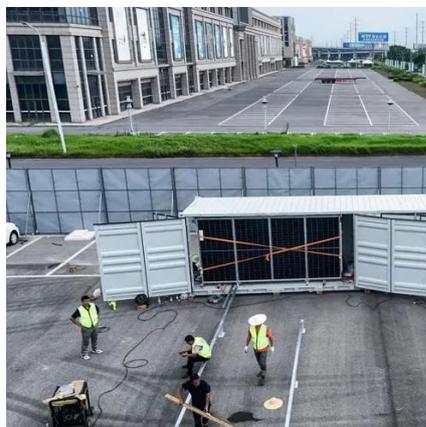
### **This solar canopy cools wastewater and powers a city utility**

Pendleton's wastewater plant just got a solar upgrade that slashes energy use, cuts costs, and cools water - all under one smart canopy.



### [PSE& G Wastewater Treatment Plant: Storm-Resistant ...](#)

As part of this effort, Public Service Electric and Gas Company (PSE& G) identified a wastewater treatment plant in the Borough of Caldwell, N.J. as an ideal site for a solar-plus-storage project.



### **US wastewater plant gets 240-kW solar canopy, cuts power use ...**

It's estimated that the solar canopy can generate 325,000 kWh of electricity annually, offsetting significant energy costs. The first of its kind in the region, the innovative ...





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## Harnessing Solar Energy for Wastewater

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This article provides an overview of harnessing solar energy for wastewater treatment plants, highlighting its relevance and importance ...



### Product Model

HJ-ESS-215A(100KW/215KWh)  
HJ-ESS-115A(50KW/115KWh)

### Dimensions

1600\*1280\*2200mm  
1600\*1200\*2000mm

### Rated Battery Capacity

215KWH/115KWH

### Battery Cooling Method

Air Cooled/Liquid Cooled



## Pendleton powers wastewater plant with 'solar canopy'

The solar canopy is designed to benefit Pendleton in two ways. The solar array on top of the concrete canopy generates power for the energy-intensive process of treating ...



## Wastewater plant transforms with 240-kW solar canopy, slashing ...

A U.S. wastewater plant just cut costs by 30% with a new 240-kW solar canopy. Discover the future of energy!



## Southern Water's Off-Grid Wastewater Plant: A Green Revolution

Southern Water pioneers off-grid wastewater treatment, powered by solar, wind, and battery storage. Learn how this innovative approach reduces carbon emissions and operational costs, ...

## [Wastewater plant transforms with 240-kW solar ...](#)

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## Optimal planning and operation for a grid-connected solar...

Compared to the initial scheme without the solar-wind-hydro system, the design modes of export and curtail reduce electricity costs by 2.15 and 0.87 million CNY, carbon ...





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## [Harnessing Solar Energy for Wastewater Treatment Plants](#)

This article provides an overview of harnessing solar energy for wastewater treatment plants, highlighting its relevance and importance in the context of renewable energy.

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## Contact Us

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