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# **Water plant uses ultra-high efficiency San Diego smart photovoltaic energy storage container**





## Overview

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Can San Diego develop a pumped storage energy project?

When energy demand is high, the stored water is released downhill to turn turbines that produce energy. The Water Authority and City of San Diego are evaluating the feasibility of developing a pumped storage energy project at the City of San Diego's San Vicente Reservoir near Lakeside.

Could solar power be stored in San Diego's San Vicente Reservoir?

Pumping water into a smaller reservoir in the surrounding mountains could store excess solar power until it's needed, when the sun sets. The San Diego County Water Authority has an unusual plan to use the city's scenic San Vicente Reservoir to store solar power so it's available after sunset.

Can energy storage devices integrate renewable resources with water systems?

Therefore, the feasibility of using energy storage devices such as batteries or water storage devices for the optimal integration of renewable resources with the water system was investigated. In (Zeineb et al.), a PV unit, a wind turbine, and a battery have been integrated as a hybrid system for pumping the water systems.

How many megawatts of energy will the San Diego Water Authority store?

When completed, the project could store 4,000 megawatt-hours per day of energy and provide enough energy for about 135,000 households. For more information, visit the San Diego County Water Authority website.



## Water plant uses ultra-high efficiency San Diego smart photovoltaic



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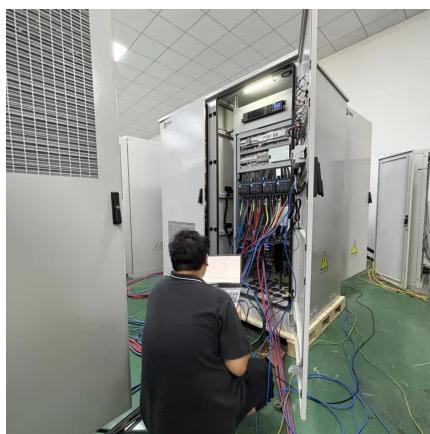
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San Diego has an ambitious plan to store renewable energy, using extra solar power to pump water up a mountain. This old-style "water battery" technology could be set for ...

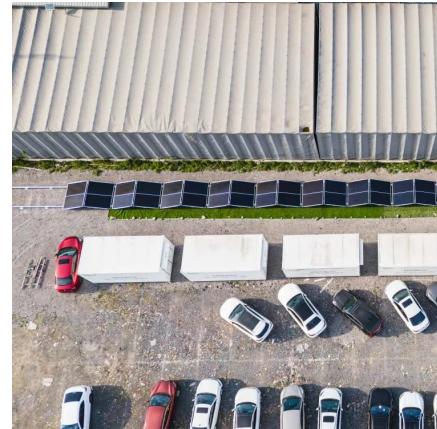
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## Renewable energy integration in sustainable water systems: ...

This review confirms the potential of achieving smart and sustainable water systems by simultaneously considering the use of renewable resources, conducting energy ...

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