

# Reservoirs for solar power generation



## Overview

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The United States has roughly 26,000 reservoirs of various sizes, totaling 25,000 square miles of water. A new study suggests that covering 30% of U.S. reservoir area with floating panels could generate 1,900 terawatt-hours of energy and save 5.5 trillion gallons of water annually.

## Reservoirs for solar power generation

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### The Beautiful Cherry Lake

The water from the lake (reservoir) powers the Dion R. Holm hydroelectric facility power plant. It was built by San Francisco as part of the Hetch Hetchy Project, which supplies drinking water to

### Floating Solar Farms: Energy Production With Global

Discover how floating solar farms turn reservoirs into clean energy hubs, boosting efficiency, saving land, and conserving water worldwide.



### [California Reservoir Levels Today - Real-Time Water Data \(2026\)](#)

Check California reservoir levels today. Real-time water level data for 875 reservoirs, lakes, and rivers including Lake Shasta, Oroville, Folsom & more. Updated daily from USGS.

### [Floating Photovoltaic Solar Panels on Reservoirs: Benefits](#)

Floating photovoltaic (FPV) solar panels are an emerging application of solar power, involving the installation of PV modules on buoyant platforms on water bodies such as reservoirs and



### [Energy production and water savings from floating solar](#)

And the potential is surprisingly large: Reservoirs



[Priest Reservoir Report , California Dams & Reservoirs](#)

Reservoir levels and historical data for Priest, along with water storage capacities and weather forecast.

could host enough floating solar panels to generate up to 1,476 terawatt hours, or enough energy to power approximately 100 million homes



**Camping - Don Pedro Lake Site**

Don Pedro Lake, with over two million acre-feet of water storage, is the fifth largest reservoir in the state of California. Don Pedro is surrounded by a federally licensed project boundary. All lands and water

**CDEC Reservoir Levels Map**

Water storage, both above and below ground is critical to California and to the nation's food supply. These California's Daily Reservoir Levels, per Department of Water Resources' CDEC,



[Stanislaus National Forest , Cherry Lake , Forest Service](#)

Fish and boat on the largest lake on the Forest. Open all year, road access subject to winter closure. Cherry Lake visitors enjoy camping, boating, swimming, fishing and hiking.

[Floating solar: transforming reservoirs into energy sources](#)

By harnessing the sun's power atop reservoirs, lakes, and other water bodies, floating solar installations offer a unique approach to renewable energy generation that maximizes space efficiency and



### Reservoir

Kardzali Reservoir in Bulgaria is a reservoir in the Rhodope Mountains. Some reservoirs such as this in Argos, Peloponnese are made for recreational purposes, rather than storing fresh water.

### [Floating solar panels could power every home in the U.S.](#)

Experts from the National Renewable Energy Laboratory (NREL) have conducted an in-depth evaluation of how much energy floating solar



### Review of the potentials for implementation of floating solar panels on

This paper reviews the current development of the technology, potentials, and best practices. It shows that this technology is feasible and can compete with other power sources,

### THE BEST 10 LAKES in GROVELAND, CA

Best Lakes in Groveland, CA - Last Updated January 2026 - Twain Harte Lake, Pinecrest Lake, Don Pedro Lake, White Pines Park & Lake, Utica and Union Reservoirs, Splash-n-Dash Aqua Park, New



### Global floating PV potential in inland reservoirs



This study aims to fill this gap by analysing FPV configurations-including tracking and bifacial panels-across 249,717 inland

### Floating solar in federally controlled hydropower reservoirs has

Federally controlled reservoirs could host enough floating solar panels to generate up to 1,476 terawatt hours, according to a new study.



### **Major Water Supply Reservoirs**

The CSI link has been disabled to zoom in, for the lack of historical data.

### **Top Reservoirs in Tuolumne County, CA**

Free topo maps of the most popular Reservoirs in Tuolumne County, CA - with GPS coordinates, pictures, and more including Sonora, Phoenix Lake, and Jamestown.



### **Floating Photovoltaic Power Generation**

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