

New Infrastructure Solar Panel Project



Overview

The experiment officially launched in 2025 under the title Project Nexus, and it involves a 115-foot-wide canal covered in solar panels, with the intention of having the canal and solar panels essentially functioning in a mutually beneficial relationship. There are more than 8,500 major solar projects currently in the database, representing over 359 GWdc of capacity. Their total planned capacity is 58,663 MW. An irrigation district in California's Central Valley region has installed arrays of solar panels atop a series of canals to demonstrate how such systems can generate electrical power . Project Nexus includes the installation of solar panel canopies over various sections of Turlock Irrigation District's (TID) irrigation canals. Project Nexus serves as a proof of concept to pilot and further study solar-over-canal design, deployment, and co-benefits on behalf of the State of . The U. Department of Energy estimates the nation will experience 800 annual hours without electricity by 2030 if infrastructure improvements don't happen. The current grid deals with high demand and uses outdated hardware.

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[Installing solar panels over water canals is as smart as it sounds](#)

A novel project in California demonstrates the many overlapping benefits of solar canals when land is scarce and water is in short supply

[Solar panels built over California canals generate power, save water](#)

An irrigation district in California's Central Valley region has installed arrays of solar panels atop a series of canals to demonstrate how such systems can generate electrical power and,



['Solar canals': Bright solution for California water, energy needs?](#)

"We are excited to see top research institutions come together to help deploy solar panels over water canals - a big idea with great potential. Science-driven collaborations like this

California's New Energy Experiment Is Working And It Changes

Now, Project Nexus promises to open up a new pathway altogether for the benefits of solar power. Project Nexus is a state-funded, \$20 million project with a focus on finding the best



[More Power, More Water: Solar-Over-Canal Projects Are Coming to](#)

WHAT YOU NEED TO KNOW: California is



Solar Projects in California

On this page, you can explore our database of solar projects in California. Each month, we track projects in development and update our list of the largest solar projects expected to come online in California.



[World's 10 biggest solar power projects transforming energy future](#)

Miles-long rows of solar panels humming under the desert sun, powering whole regions. This list cuts through the noise, ambitious announcements, and glaring projections.



6 solar innovations reshaping sustainable infrastructure

pioneering innovations to generate clean electricity while conserving water, and we're teaming up with the Biden Administration to advance



Major Solar Projects List - SEIA

The Major Solar Projects List is a database of all ground-mounted solar projects, 1 MW and above, that are either operating, under construction or under development. The list is for



Project Nexus

Project Nexus serves as a proof of concept to pilot and further study solar-over-canal design, deployment, and co-benefits on behalf of the State of California using TID infrastructure and

Six developing technologies could relieve electric grid demand with more solar power access in the coming years



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