

Will Chevron build its first solar-to-hydrogen production facility in California?

Chevron (CVX 0.70%) recently revealed plans to build its first solar-to-hydrogen production facility in California. The project would turn non-potable water from its existing operations into an emissions-free fuel source with help from the sun. The clean hydrogen will help support the state's growing need for lower-carbon energy.

What is Chevron New Energies?

Chevron New Energies is a business unit focused on commercialization opportunities in hydrogen, carbon capture, and offsets. It also supports ongoing growth in biofuels. Chevron New Energies' initial focus will include these areas, and additional details about these efforts will be provided by Chevron when it presents its energy transition plan to investors on September 14.

Is Chevron launching a commercial electrolytic hydrogen project in California?

While the California plant will be the first Chevron-only commercial electrolytic hydrogen project, it's not the energy giant's first foray into the lower carbon fuel. Last September, Chevron acquired a majority interest in ACES Delta, a joint venture with Mitsubishi Power. ACES Delta is developing the Advanced Clean Energy Storage project in Utah.

What kind of water does Chevron use?

Chevron will use "produced water," which is water produced as a byproduct of its other operations. While that water isn't fit for drinking, it's suitable for producing hydrogen. The company will produce hydrogen through a process called electrolysis. It uses electricity to split water into hydrogen and oxygen.

Is Chevron making another investment in the emerging hydrogen fuel sector?

Chevron is making another investment in the emerging hydrogen fuel sector. Chevron (CVX 0.70%) recently revealed plans to build its first solar-to-hydrogen production facility in California. The project would turn non-potable water from its existing operations into an emissions-free fuel source with help from the sun.

Can Chevron make hydrogen?

Chevron is investing in its first solo hydrogen production facility. It will use solar energy and undrinkable water produced from its existing operations to make the emissions-free fuel. Hydrogen is one of many lower-carbon opportunities it's pursuing.

The milestone was reached through collaboration with Solar Turbines, a subsidiary of Caterpillar. "Solar Turbines is committed to supporting Chevron's efforts to reduce greenhouse gas emissions to help meet climate ...

A new solar field is now producing lower carbon energy for our operations in Hayhurst, New Mexico. This is

the first project in Chevron's renewable power agreement with ...

Solar thermal company BrightSource Energy built the project for Chevron. Chevron claims its Coalinga solar-enhanced oil recovery project is the largest of its kind in the world.

across a range of alternative and renewable energy sources, including wind, solar and biofuels, as well as energy efficiency technologies. We conduct internal research and ...

Chevron believes in the value of delivering large-scale hydrogen solutions that support a lower carbon world. We aim to deliver lower carbon energy to a growing world by creating a profitable, large-scale, lower carbon ...

Under the four-year agreement, Chevron seeks to source more than 500 megawatts (MW) of its existing and future electricity demand from renewable sources. This represents the latest, and largest, advance in ...

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Oil giant Chevron said it expects its new solar-to-hydrogen project in California to produce about 2.2 tons of hydrogen per day by 2025.

Chevron and Caterpillar-owned Solar Turbines are working together to adapt a low-emissions turbine engine partially fueled by hydrogen. Blending hydrogen with traditional fuels to power the engine could help reduce its ...

Chevron, a major player in the petroleum refinery industry, has announced a groundbreaking move into the hydrogen business. The California-based giant aims to set up a new facility designed to produce low-carbon ...

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US supermajor Chevron has accelerated its efforts in the energy transition with the launch of a new business focused on scalable, low carbon business opportunities, but this will not include...

Chevron New Energies, a unit of oil and natural gas giant Chevron, plans to build its first 5 MW hydrogen production plant in California's Central Valley. The installation will churn out more than 2 tons of hydrogen daily, ...

"What has changed is the cost of wind and solar power, which is becoming more competitive, and the technology, which has also progressed substantially," Chevron ...

Turning undrinkable water into clean fuel. Chevron plans to develop a 5-megawatt (MW) hydrogen production facility in California. The oil company plans to use solar energy, land, and non-potable ...

Chevron has installed a solar field to power one of its Colorado oil and gas facilities. Curtis Rueter, a Chevron project manager, is on a mission to help the company meet a growing demand for energy in lower carbon ways. ...

The project aims to create lower-carbon energy by utilising solar power, land and non-potable produced water from Chevron's existing assets at the Lost Hills oilfield in Kern County. According to the company, the low ...

Solar Turbines is working with Chevron on a turbine engine partially fueled by hydrogen. (Image: Chevron) Chevron and Solar Turbines said they are working together to adapt a low-emissions turbine engine partially ...

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Chevron New Energies, a division of Chevron USA Inc., is developing a 5-MW hydrogen production project in California's Central Valley. The project aims to create hydrogen using solar power and non-potable ...

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