

Why are California's solar power curtailments increasing?

California's solar power curtailments have been increasing due to the growth in solar power to meet the state's aggressive clean energy goals. As of the first quarter 2021, California had more than 31,800 megawatts of solar, generating almost 24 percent of the state's electricity according to the Solar Energy Industries Association.

Is California oversupply of solar power causing problems?

A new analysis by Los Angeles Times staff writer Melody Petersen found major problems in the state's current solar economy. Oversupply of solar power is causing California's operators to regularly halt production or even pay electricity traders to take power off their hands. Sometimes, other states snag the extra energy for cheap.

Are California's solar farms wasting energy?

Despite the high prices, the Times found that California's solar farms have curtailed production -- meaning slowed or stopped -- of more than 3 million megawatt hours over the past 12 months. That's more than twice the amount from 2021, per the outlet, and is enough wasted energy to power 518,000 average Californian homes for a year.

What if California didn't pay utilities for solar energy?

The waste would have been even larger if California had not paid utilities in other states to take the excess solar energy, documents from the state's grid operator show. That means green energy paid for by California electricity customers is sent away, lowering bills for residents of other states.

Should California stop producing solar energy?

California is now producing so much solar energy that the state must increasingly ask solar farms to stop producing to prevent overloading the electric grid. In the last 12 months, power that would have fueled 518,000 California homes for a year has been curtailed or thrown away.

Why is California reducing solar power production?

The curtailment has two causes, according to the United States Energy Information Administration. In some cases, power lines in the state don't have capacity to take on and deliver energy; in others, generation exceeds customer demand. Either way, California's grid operator tells solar producers to cut production using price drops or direct orders.

The real game changer would be if, in the future, the widespread use of batteries and other forms of storage could save any excess solar power generated during the day -- meaning the power ...

California boasts some of the biggest solar farms in North America, with three huge plants opened in the mid-2010s. The state was responsible for nearly a fourth of utility-scale American solar ...

California's curtailments have been increasing every year, driven by growth in solar power to meet the state's aggressive clean energy goals. California had more than 31,800 megawatts of solar as of the end of the first ...

A controversial proposal is being floated in Sacramento that would, once again, change the rate owners of rooftop solar are compensated for the excess energy they produce.

When California's solar farms generate more power than can be consumed or stored--often during peak sunlight hours--the excess electricity is exported at lower-than ...

"Solar on Palm Desert Walmart" by Walmart Corporate is licensed under CC BY 2.0 In a major clean energy benchmark, wind, solar, and hydro exceeded 100% of demand on California's main grid for 69 ...

The new solar payments come at the same time that California is trying to stop using fossil fuels to produce energy, with a state goal of 100% carbon-free electricity by ...

In November, the California Solar and Storage Association (CALSSA) ... The goal is to get people to store solar power generated during midday periods, when California is awash in excess solar power, and ...

As California works towards its ambitious clean energy vision, an almost counterintuitive challenge has emerged: The state is, at times, generating more solar than it can handle.

With a glut of solar power at times, CAISO has two main options to avoid a system overload: order some solar and wind farms to temporarily halt operations or divert the excess ...

In the last 12 months, California has curtailed production of enough solar energy to power 518,000 homes for a year. Californians, whose ...

Has California's enthusiasm for solar power gone too far? That question is being asked as the state is curtailing large amounts of solar generation and paying other states to ...

However, it still does not have enough capacity to protect consumers from rolling blackouts during periods of peak demand, especially when solar energy may not be available.. ...

Bernadette Del Chiaro, CaliforniA Solar & Storage Association. ... Because solar customers, largely middle class or wealthy, are being paid near-retail prices for their excess power, they are not paying their fair share of fixed ...

And California also has paid other states to take power." The problem has grown substantially since 2017. Last month's LA Times article reported, "Arizona's largest public utility reaped \$69 million in savings last year ...

This results in excess energy that California cannot use. To manage this, California exports surplus power to other parts of the Western United States. In extreme cases, they ...

California is making so much solar energy that large commercial operators are increasingly forced to stop production, raising questions about the state's costly plan to shift ...

The increasing oversupply of solar power has created a situation where energy traders can buy the excess at prices so low they become negative, said energy consultant ...

"The solar industry and clean energy supporters are still reviewing the CPUC's proposed decision, but based on an initial analysis, it would cut the average export rate in California from \$0.30 per kilowatt to \$0.08 per kilowatt ...

Clean energy keeps exceeding California's grid demand. SACRAMENTO - With more, diverse sources of clean energy brought online at breakneck speed in recent years, California continues to power nearly 40 ...

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