

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.

How much solar power does California have?

California had almost 31,800 megawatts of solar power as of the first quarter 2021, generating about 24 percent of the state's electricity according to the Solar Energy Industries Association. California has the largest solar market in the United States.

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.

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 .

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.

An anonymous reader quotes a report from the Washington Post: In sunny California, solar panels are everywhere. They sit in dry, desert landscapes in the Central ...

Solar and wind curtailment is a problem in California. While some curtailment should be expected in the power grid with significant solar and wind generation, we see too ...

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 entirely to...

It sinks into negative territory in the middle of the day because California has so much solar power that it's selling some to other states. Advertisement The 94.5% record may have been fleeting ...

California's solar boom is going so well that grid operators are facing unprecedented challenges in managing excess supply. ... wind and geothermal has proven tricky. Too much electricity flooding ...

Gas" market share has declined gradually since its 2012 high, while solar's shot up steadily -- last year, the two nearly intersected. This year could be the first time that solar ...

The short answer is that energy innovators weren't going to create and install solutions for solar energy's variability until they knew the utilities and regulators had...

California Has Too Much Solar Power. That Might Be Good For Ratepayers - Read online for free. California set two renewable energy records last week: the most solar power ...

The state of California has set an ambitious goal of getting all of its energy from clean sources by 2045. As the Times investigation makes clear, there are several factors at play that could make that challenging -- including ...

There's too much solar energy in California, which opens the possibility of new energy innovation. California Has Too Much Solar Power -- And That's a Good Thing | The ...

California is breaking renewable energy records: Nearly every day for the last six weeks, its grid has run on solar, wind, and other clean energy sources for hours at a time. Innovation by Design ...

"The solar excess contributes to electricity rates in California that are the highest in the continental United States. Only Hawaii has higher electricity rates, a function of its isolation and need to import fuels for power generation." ...

Cloudy Future Solar energy supplies over a quarter of California electricity, according to the Solar Energy Industries Association. That bright spot, though, comes with a strange but significant ...

The state was responsible for nearly a fourth of utility-scale American solar power generation in 2023. California has an even larger share of the nation's small-scale market, with many homes ...

California, which leads the nation in solar power energy, is among those states to have too much leftover energy that is now being wasted. In 2022, 2.4 million megawatt-hours ...

California should meet as much of that increased demand as possible from rooftop solar and batteries, and make up the difference with solar farms. That will reduce the need for the utility to spent ratepayer money on ...

Over the past two decades, California has become a juggernaut of solar energy production. But that doesn't mean its residents are reaping huge benefits. A new analysis by Los Angeles ...

California has installed a lot of distributed solar PV. And California legislators are not crazy to feel that way. Wyoming and Utah are fighting tooth and nail against Obama's Clean Power Plan. Wyoming is deeply invested in coal production. ...

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 ...

Too Much of a Good Thing / Earth & Energy. California Now Has So Much Solar Power That Electricity Prices Are Going Negative During the Day. by Frank Landymore. ...

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