



# California renewable energy after nuclear closure

Permitting is crucial to deploy renewable energy power plants, which are essential to meet the state's climate goals. ... Stationary power plants 50 MW or greater using any source of thermal energy, excluding fossil or nuclear fuels. ... the operation life, and the decommissioning and eventual closure. Also, per California Code of Regulations ...

They are the only remaining nuclear capacity in California following the premature retirement in 2013 of units 2 and 3 at Southern California Edison's San Onofre plant. San Onofre unit 1, a single PWR, operated from 1968 to 1992, while the single-unit Rancho Seco PWR plant was closed in 1989 in response to a local referendum, held shortly after ...

The California Legislature has just taken the first step toward possibly extending the life of the Diablo Canyon nuclear power plant, the state's last nuclear facility, past its scheduled closure.

Citing searing summer temperatures and expected energy shortages, California lawmakers approved legislation aimed at extending the life of the state's last-operating nuclear ...

"The California Air Resources Board said in 2014 that the state's carbon dioxide emissions had increased by 9 million metric tons in the 12 months following the 2012 closure of two San Onofre ...

A "lack of urgency" in California. When nuclear plants do shut down, climate advocates agree that replacing them with clean energy sources is crucial. That's the problem in California, where ...

California's clean energy and storage additions are impressive, but there is still much to be done to meet the state's 100% clean energy mandate. The California Public Utilities Commission's latest integrated resource plan calls for an additional 56,000 MW of new clean generation by 2035 to meet grid reliability and state greenhouse gas ...

California energy officials have voted to extend the operation of the Diablo Canyon Power Plant through 2030, extending the life span of the state's last nuclear plant an additional five years.

One of California's largest energy utilities took a bold step in the 21st century electricity revolution with an agreement to close its last operating nuclear plant and develop more solar, wind ...

California Gov. Gavin Newsom said the state will submit an application for a piece of the Biden administration's \$6 billion in funding to potentially keep the PG&E-owned Diablo Canyon Nuclear ...

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The ...

For Immediate Release: February 22, 2022. SACRAMENTO-- Data from the California Energy Commission (CEC) shows that 59 percent of the state's electricity came from renewable and zero-carbon sources in 2020.. The CEC estimates that in 2020, 34.5 percent of the state's retail electricity sales were served by Renewables Portfolio Standard (RPS)-eligible ...

Keeping the last remaining nuclear power plant in California open can help the state achieve its climate goals and save money to boot, according to a 114-page assessment compiled by a joint study team from Stanford University and the Massachusetts Institute of Technology. But Pacific Gas & Electric, the operator of the Diablo Canyon Power Plant, says it ...

California state lawmakers worked late into Wednesday night to pass an aggressive climate legislation package, including \$54 billion in new spending on clean energy and drought ...

Only California would consider closing a perfectly good nuclear plant that emits no carbon dioxide emissions and replace it with intermittent renewable energy that needs back-up power from a flexible fossil fuel such as natural gas. California's laws to get 50 percent of its electricity from renewable energy and to double its energy efficiency--both by 2030--are driving ...

On the same day Phillips 66 announced the Los Angeles refinery closure, a California jury found that the company had misappropriated confidential information from a potential acquisition to establish a competing renewable fuel business, ordering them to pay \$604.9 million to Propel Fuels, a retailer of low-emission fuels in California.

As California's last nuclear facility -- the 2.2 GW Diablo Canyon power plant -- approaches its scheduled retirement date, some energy experts worry that the state hasn't ...

The report's findings spurred the Washington Post's editorial board to declare that shutting the plant down would be the "the definition of climate incoherence.". The report's authors recommend delaying the closure of Diablo Canyon by 10 years, to 2035. Doing so, they predict, would yield a 10% reduction over 2017 levels in carbon emissions generated by California's ...

An energy void left by the closure of Massachusetts' only nuclear power plant has been filled largely by natural gas - a reality hugely counteractive to much of New England's ambitious climate goals to slash emissions and reduce dependence on fossil fuels. Data from the Environmental Protection Agency shows emissions from New England's power plants have ...

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"As California accelerates our efforts to bring renewable energy generation and storage online, the State is also focused on maintaining energy reliability in the face of increasingly frequent ...

The phase-out policy, which led to the closure of roughly half (12 GW) of Germany's nuclear capacity in 2011, was welcome news in a country with a long history of anti-nuclear sentiment, even as nuclear power produces electricity with no greenhouse gas emissions, and thus facilitates meeting carbon neutrality targets.

**RENEWABLE ENERGY** Renewable energy includes biomass, geothermal plants, small hydroelectric (under 30 MW), solar, and wind. In 2019, California produced 64,336 GWh of electricity in renewable energy (in-state generation), 44 percent of which was solar (CEC 2019a). California has met the goal of 33 percent renewable energy by 2020 and is working ...

The plant's closure should instead serve as an impetus for California do more to accelerate the shift to renewable energy and set a realistic course to meet the state's target of getting 100% ...

The latest data from the California Energy Commission shows that in 2021, 59% of the state's energy came from renewable and zero-carbon resources. But to fully meet our goals, it will take investment from both the public and private sectors, and modernizing our rules to ensure we can build the clean energy projects we need to power our state. ...

The legislature also approved SB 846, a bill to extend the life of the Diablo Canyon nuclear plant's two units through the end of the decade, based on a Newsom administration proposal.

**Definitions.** California Energy Mix: Total in-state electric generation plus Northwest and Southwest energy imports  
California Power Mix: Percentage of specified fuel types derived from the California Energy Mix for use on the annual Power Content Label  
In-State Generation: Energy from power plants physically located in the state of California  
Northwest Imports: Energy ...

The state's electricity grid now relies much less on gas and nuclear and much more on renewable energy than it did in 2001. ... are spinning this as a failure of California's transition to ...

Keeping the last remaining nuclear power plant in California open ... "We are not in a position in the near-term future to go to 100% renewable energy, ... Diablo Canyon's scheduled closure ...

California Gov. Gavin Newsom may seek to delay closing Pacific Gas and Electric Co.'s 2,240-MW Diablo Canyon nuclear plant thanks to a new \$6 billion civil nuclear credit program established by the U.S. Energy Department that uses funds from the bipartisan infrastructure law enacted in 2021.

Nuclear power accounted for 9.3% of California's electricity in 2020; natural gas was by far the primary



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source at about 37%, according to the California Energy Commission. California gets ...

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