

DOCKETED

Docket Number:	22-IEPR-02
Project Title:	California Planning Library
TN #:	243134
Document Title:	Laura Anne Maish Comments - Avoid surge in carbon emissions
Description:	N/A
Filer:	System
Organization:	Laura Anne Maish
Submitter Role:	Public
Submission Date:	5/18/2022 2:28:01 PM
Docketed Date:	5/18/2022

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Submitted On: 5/18/2022
Docket Number: 22-IEPR-02*

Avoid surge in carbon emissions

My name is Laura Maish. I'm a resident of California and concerned citizen. I'd like to draw your attention to an article published by the Union of Concerned Scientists. <https://ucsusa.org/about/news/nuclear-powers-planned-exit-california-may-trigger-rise-emissions-and-pollution-if>

The UCS states that closing Diablo Canyon Power Plant puts "California" at risk of a 15.5 million metric ton increase in cumulative global warming emissions between now and 2030, roughly equivalent to what 306,000 passenger vehicles would emit over the same time period from natural gas power plants. Additionally, UCS estimated 1,890 metric tons of nitrogen oxide pollution would result from the spike in natural gas power.

"Replacing the Diablo Canyon plant with natural gas fueled power plants is problematic because burning natural gas contributes to global warming pollution and produces nitrogen oxides that create smog and aggravate respiratory health. Natural gas already supplies a substantial portion of California's current electricity needs. It is heavily used during evening hours when demand spikes and renewable power is no longer generated."

In August 2021, Governor Newsom approved the building of 5 new natural gas plants.

This does not makes sense. Any plan to transition to clean energy should NOT include closing down a virtually carbon-free energy source in favor of fossil fuels. DCPD is the only source of 24/7 clean energy.

Governor Newsom has recently suggested that he would reconsider closing DCPD. I urge you to put your weight behind keeping DCPD open so that California residents can be assured of having clean, affordable energy when they need it.
Thank you.

Additional submitted attachment is included below.

Nuclear Power's Planned Exit from California May Trigger Rise in Emissions and Pollution if Regulators Fail to Act Aggressively, Scientists Say

Carbon Emission Surge as High as 15.5 Million Metric Tons Over Next Decade Could Be Avoided

Published Feb 23, 2021

OAKLAND, Calif. (February 23, 2021)—With less than four years left before Diablo Canyon Power Plant near San Luis Obispo starts shutting down the state's last two nuclear reactors, experts at the Union of Concerned Scientists (UCS) say energy regulators have not prepared sufficiently for what happens next.

California is at risk of a 15.5 million metric ton increase in cumulative global warming emissions between now and 2030 if the state's Public Utilities Commission (PUC) does not aggressively plan to replace Diablo Canyon's nuclear generation with clean energy resources, according to a UCS [analysis](#) released today. The study predicts existing natural gas power plants will fill the supply gap, resulting in global warming emissions roughly equivalent to what 306,000 passenger vehicles would emit over the same time period. Additionally, UCS estimated 1,890 metric tons of nitrogen oxide pollution would result from the spike in natural gas power.

“What's most troubling is how avoidable this potential surge in carbon emissions and pollution is and how little has been done at the PUC to prepare for what happens after the reactors shut down,” said [Mark Specht](#), the study's author and an energy analyst at UCS.

When PG&E announced it planned to close the facility in favor of investing in energy efficiency, renewable energy and other zero carbon sources, UCS supported the decision. Nuclear power produces very low carbon emissions, but in order to operate safely and securely, it requires stringent regulatory oversight. The Diablo Canyon Nuclear Plant is one of the nuclear plants in the United States at the highest risk of an earthquake-induced meltdown and would require costly seismic upgrades to reduce this risk.

Replacing the Diablo Canyon plant with natural gas-fueled power plants is problematic because burning natural gas contributes to global warming pollution and produces nitrogen oxides that create smog and aggravate respiratory health. Natural gas already supplies a substantial portion of California's current electricity needs. It is heavily used during evening hours when demand spikes and renewable power is no longer generated.

“If the PUC does not act fast, they will create a situation where the natural gas generation we're trying to get off the grid will be the only obvious short-term solution to fill the gap left by Diablo

Canyon's shutdown," said [Adenike Adeyeye](#), Western States Energy Manager at UCS. "Firing up the state's natural gas plants is a quick fix, but it has immediate and disproportionate health impacts on the people and communities living closest to those plants and the long-term impact of adding millions more tons of carbon pollution to the atmosphere."

Diablo Canyon produces about 16,000 gigawatt-hours of power each year, or 8 percent of California's in-state generation. In 2018, California passed Senate Bill 1090 that requires the PUC to avoid any increase in emissions of greenhouse gases because of Diablo Canyon's retirement.

"The [PUC is waiting](#) until the seventh inning to come up with its game plan," said Specht. "With so much at stake right now as California faces the twin challenges of safety shutoffs during wildfire season and rotating outages during heat waves, not planning for what happens after the reactor retirements is reckless. Furthermore, allowing a surge in natural gas power will be a huge step backward for a state striving towards 100 percent clean energy in 25 years."

The UCS study calls for the PUC to move swiftly and order large procurements of wind, solar and energy storage over the next decade, gigawatts more than has already been planned for. The analysis found that it is even possible for the state to experience a decline in global warming emissions after Diablo Canyon's closure if the PUC targets are aggressive enough.

"By 2025, nuclear power will only be found in California's history books, but climate change will be here and worsening if regulators don't act fast," said Adeyeye. "The PUC can avoid an increase in cumulative emissions and pollution after Diablo Canyon's retirement, but time is running out."