## It Will Cost Up to \$21.5 Billion to Clean Up California's Oil Sites. The Industry Won't Make Enough Money to Pay for It.

## Mark Olalde/ProPublica • Published Jun 3, 2023 7:00 PM EDT

A recent study found that the cost of cleaning up California's onshore oil and gas

industry will be triple the industry's projected profits. Environment

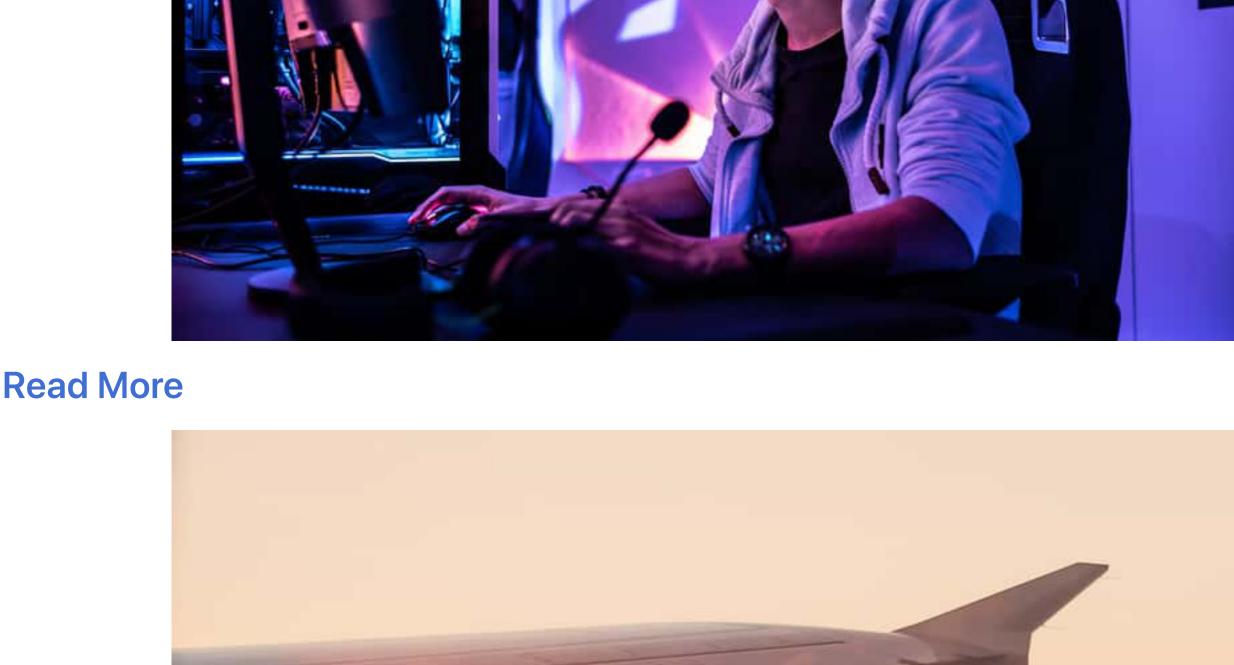


stories like this one in your inbox. Co-published with LAist and KVPR.

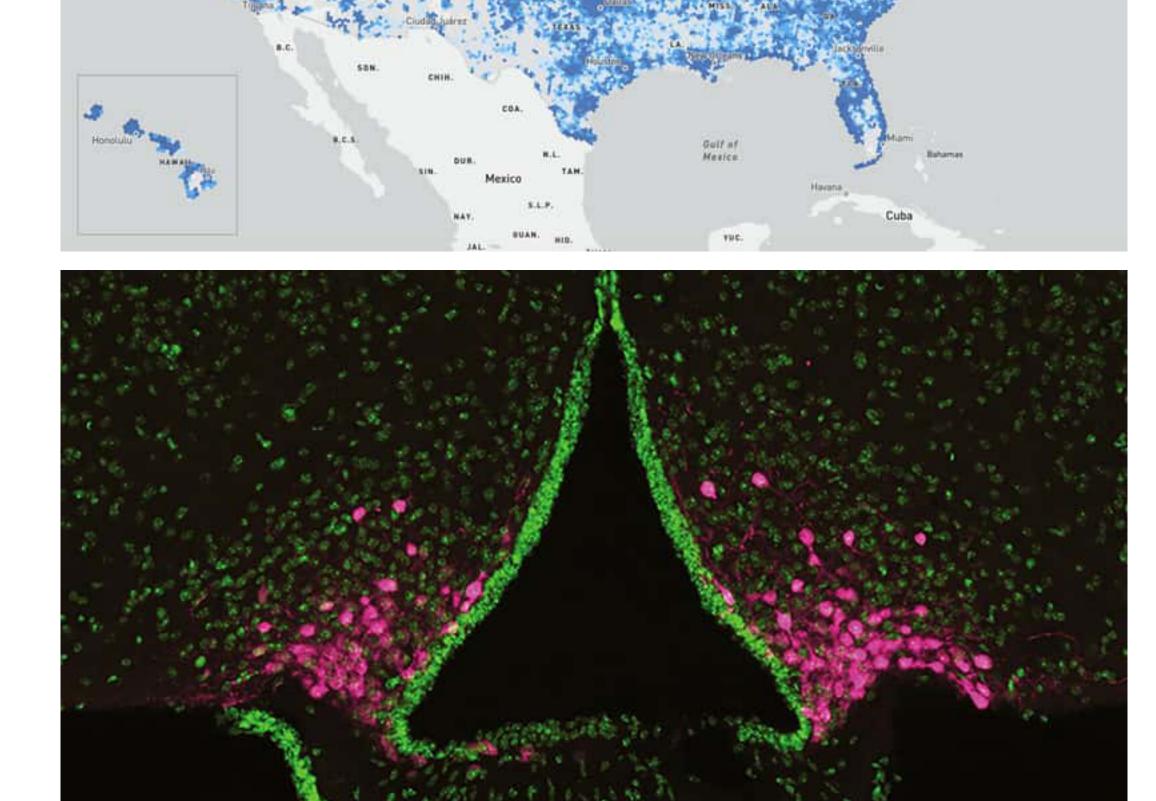
Top Stories by *Popular Science* 

winning investigative newsroom. Sign up for The Big Story newsletter to receive





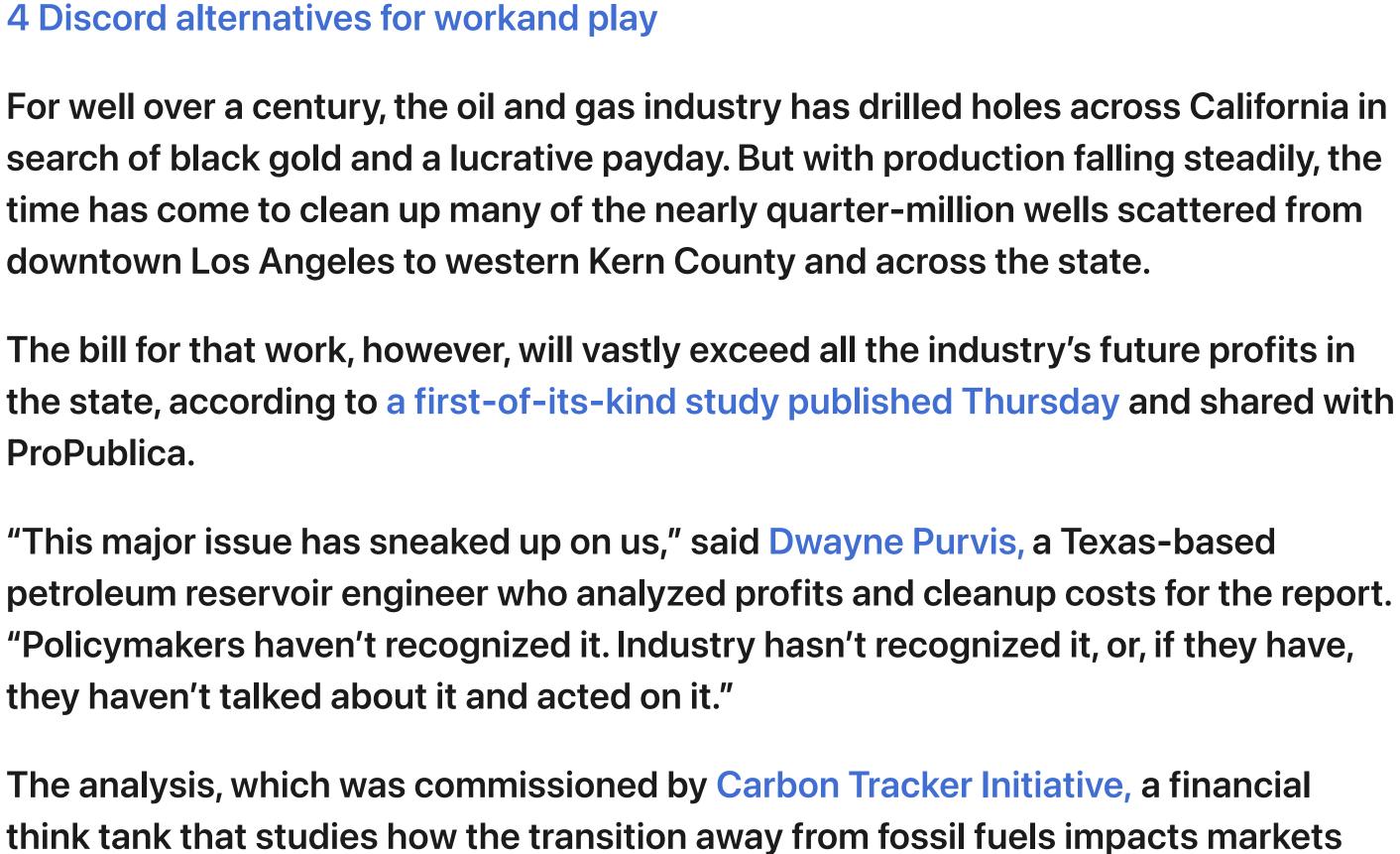




Download

Search by Address

Enter address



and the economy, used California regulators' draft methodology for calculating the

costs associated with plugging oil and gas wells and decommissioning them along

with related infrastructure. The methodology was developed with feedback from

cost at least \$13.2 billion, based on publicly available data. Adding in factors with

Meanwhile, California oil and gas production will earn about \$6.3 billion in future

Compounding the problem, the industry has set aside only about \$106 million that

state regulators can use for cleanup when a company liquidates or otherwise walks

away from its responsibilities, according to state data. That amount equals less than

Taxpayers will likely have to cover much of the difference to ensure wells are

slightly more uncertainty, like inflation rates and the price of decommissioning miles of pipeline, could bring the total cleanup bill for California's onshore oil and gas industry to \$21.5 billion.

profits over the remaining course of operations, Purvis estimated.

plugged and not left to leak brine, toxic chemicals and climate-warming methane. "These findings detail why the state must ensure this cost is not passed along to the California taxpayer," state Sen. Monique Limón, a Santa Barbara Democrat who has written legislation regulating oil, said in a statement. "It is important that the state collect funding to plug and abandon wells in a timely and expeditious manner."

Representatives of the state's oil regulatory agency, the California Geologic Energy

and data transparency group FracTracker Alliance, said of the report's findings. "It's a lot for the state, even a state as big as California." **Industry in Decline** 

High oil prices have translated to huge profits for the industry in recent years, but

Carbon Tracker's report found that's likely to be short-lived. Only two drilling rigs

were operating in the state at one point this year, meaning few new wells will be

Judson Boomhower, an environmental economist and assistant professor at the

University of California, San Diego who has studied California's oil industry, said

to electric. But, he said, Carbon Tracker's estimates for environmental liabilities

there are inherent uncertainties in estimating future oil revenues. For example, one

variable is how quickly the country shifts from internal combustion engine vehicles

coming online, and more than a third of all unplugged wells are idle.

Fees on current oil and gas production will offset some of the liabilities, but they're

"It really scares me," Kyle Ferrar, Western program coordinator with environmental

nowhere near enough to address the shortfall quantified by the new report.

As ProPublica reported last year, the major oil companies that long dominated in California and have the deep pockets necessary to pay for environmental cleanup are selling their wells and leaving the state, handing the task to smaller and less well-financed companies. Roughly half of the wells drilled in California have changed hands through sales and

bankruptcies since 2010, according to data Ferrar analyzed.

Ventura and Santa Barbara.

Additionally, the report did not quantify the emerging risk of "zombie wells," which were plugged years ago to weaker standards and are likely to leak if they aren't

replugged. That's an expensive endeavor, as the average cost to plug one well in

California — to say nothing of cleaning up surface contamination — is \$69,000,

declines, 58% of all future profits from drilling oil and gas in the state are likely to companies don't put money towards it now, they're not going to have money to do it later."

Environmental policies could accelerate the industry's decline. California voters will

decide on a ballot initiative in 2024 that would reinstate large buffer zones between

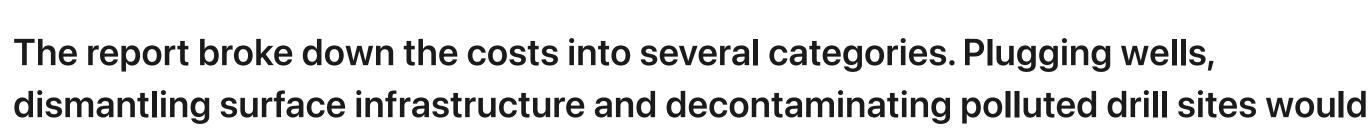
paying jobs in the shift away from climate-warming fossil fuels. Spending large sums to plug old wells would create short-term employment for oil field workers. As California faces the consequences of its failure to quickly clean up aging oil and

are either low-producing or already orphaned and will soon need to be decommissioned.

"California's going to be a test case or the leading edge of this," Boomhower said.

"This same problem is eventually going to manifest everywhere."

gas infrastructure, there are likely several million more wells around the country that



the industry.

1% of the estimated cost.

Management Division, did not respond to ProPublica's request for comment on the report's findings. Rock Zierman, CEO of the California Independent Petroleum Association, an industry trade group, said in a statement that companies spent more than \$400 million last year to plug and clean up thousands of oil and gas wells in the state. "This demonstrates their dedication to fulfilling their obligations and mitigating the environmental impact of their operations," he said.

track with his research. "It's a state in the twilight of its production period, and that means big liabilities," Boomhower said. He added that now is the time for regulators to prevent companies from offloading their wells to "thinly capitalized firms" unable to shoulder the cleanup.

Smaller companies are often one bankruptcy away from their wells being orphaned, meaning they're left to taxpayers as companies dissolve. The Biden administration recently committed \$4.7 billion in taxpayer funds to plug orphan wells. And the industry's environmental liabilities in California are far bigger than Carbon Tracker's report quantifies.

Purvis only included environmental liabilities associated with onshore oil and gas

production. Billions of dollars more will be needed to plug offshore wells, remove

rigs and reclaim artificial islands used for drilling off the coast of Long Beach,

according to Purvis' research. But some California wells have already begun failing, including in neighborhoods in Los Angeles.

Time is running out to rectify the funding shortfall, for example by increasing the

"They're Not Going to Have Money to Do It Later"

money companies must set aside for well plugging.

communities and oil wells, limiting drilling.

Carbon Tracker's report — using state production data and financial futures contracts on the New York Mercantile Exchange — estimated that as production come over the next two years. "We have our backs up against the wall in California right now," Ferrar said. "If

Purvis said acting quickly to plug wells would also "stimulate economic activity" and help smooth the transition for oil and gas workers who stand to lose well-

