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Western states brace for a uranium boom as the nation looks to recharge its nuclear power industry

After years of federal efforts to revive nuclear power, old mines are stirring again in Wyoming, Texas and Arizona, while new ones line up for permitting expedited by a Trump executive order.

By Jake Bolster, Dylan Baddour & Wyatt Myskow, Inside Climate News | November 10, 2025 9:50 am

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Inside Climate News

From [Inside Climate News](#):

BAIROIL, Wyo.—The remote dirt road through dusty fields of sagebrush that John Cash drove along in June seemed to pass little of economic value. But his car was, in fact, rattling towards the top-producing uranium mine in Wyoming.

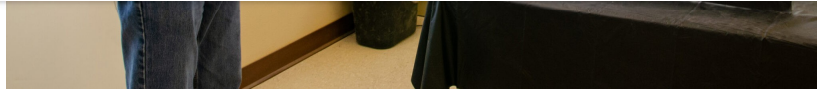
In 2022, the Lost Creek Mine became the first of several such sites across the West to restart operations as the U.S. scrambles to reestablish a domestic supply chain for nuclear fuel.

Cash, the CEO of UR Energy, which operates the Lost Creek Mine, believes more mines will come online in the years ahead.

“This [area] is loaded with uranium,” he said amid the vast, arid expanse of Wyoming’s Great Divide Basin. “I promise you right now, if I drilled a hole right here, we would hit uranium.”



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Jake Bolster / Inside Climate News

John Cash holds a map of UR Energy's Lost Creek production facility, permitted to extract 1.2 million tons of uranium.

Newly revived mines are also humming in Texas and Arizona, their owners hopeful that a boom in demand lies ahead. Ten uranium mines operate in the country today, up from three in 2021, according to data from the U.S. Energy Information Agency. Company announcements and public records show dozens of others on standby for reopening or queued up for permitting in Colorado, Utah and New Mexico, with [at least four](#) currently fast-tracked for approval under recent executive orders.

“We’re right at the edge of a good little uranium mining boom,” said Travis Deti, executive director of the Wyoming Mining Association. “We’ve been off the playing field for decades on some of this stuff.”

For more than a generation, many of these sites sat dormant, stifled by a cheaper imported

Lately, a buzzing landscape of nuclear startups has stirred excitement with announcements of ambitious plans for advanced reactors to power artificial intelligence and other heavy industries across the country. But almost all of these companies are waiting for the U.S. to rebuild a nuclear fuel supply chain before they can even power up their prototype units.

“Expectations for uranium demand have been growing,” said William Freebairn, an associate editorial director at S&P Global Commodity Insights. “But this kind of demand is slow to show up.”

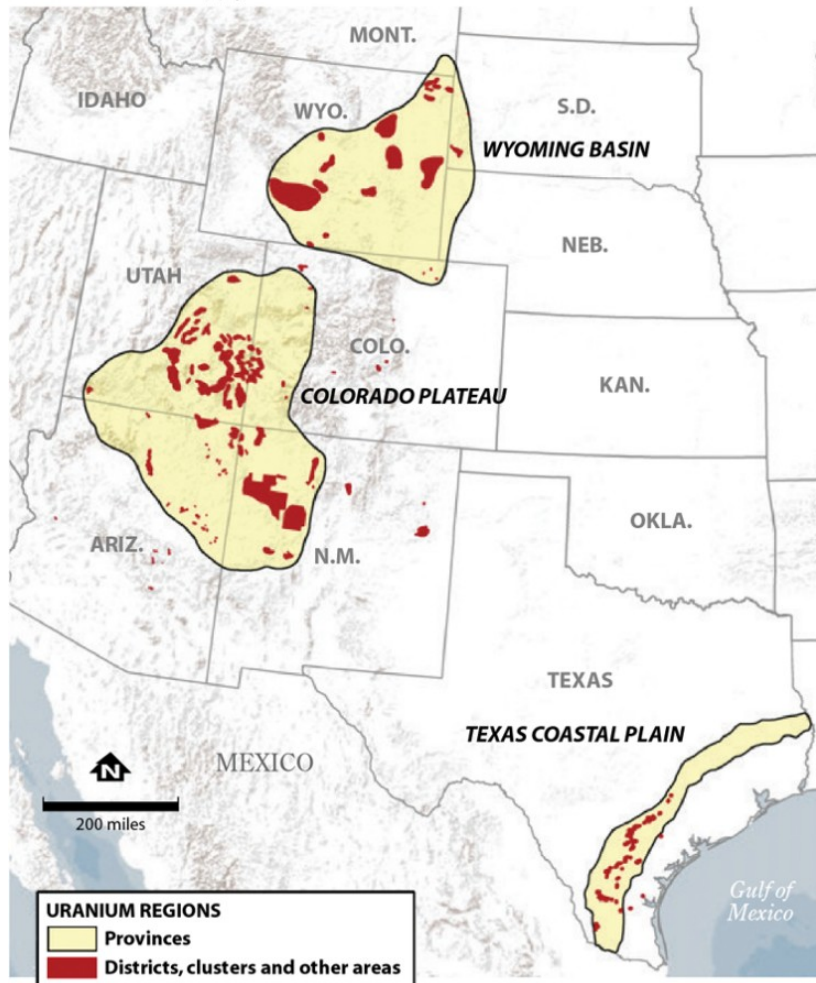
Investor appetite for uranium started to increase around 2022, he said, “as climate concerns became more prominent.” Uranium is processed and enriched into nuclear fuel that provides abundant energy without carbon emissions, although it poses other significant health and safety risks.

Presidential administrations since Barack Obama’s have pushed to increase domestic production of uranium fuel to supply the national nuclear sector, but that goal remains years away.

meeting its nuclear needs with uranium from domestic mines, Freebairn said.

Mining Returns to U.S. Uranium Regions

Since 2022, new mines have opened in Wyoming, Arizona and Texas. Others are fast-tracked for approval in New Mexico, Utah and Colorado as the U.S. seeks to rebuild its nuclear supply chain.



SOURCE: Susan M. Hall et al., *ScienceDirect*

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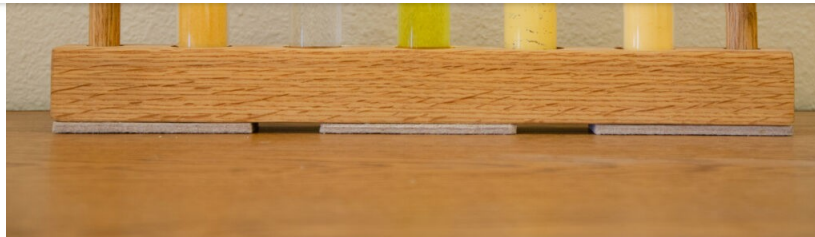
Unlike pit mines, which scrape away acres of earth, most modern uranium extraction projects drill hundreds of wells, inject them with solvents

licensed to produce more than 1.2 million pounds of uranium oxide concentrate annually, according to UR Energy, but uranium miners are still waiting for the development of a domestic nuclear supply chain before ramping up production.

Supply chain bottleneck

For now, American uranium production remains a dribble. Despite recent steep increases, total output in 2024 was less than 2 percent of the country's [peak production](#) in 1981. The U.S. lacks the infrastructure to transform uranium oxide concentrate, known in the industry as “yellowcake,” into the uranium hexafluoride gas used for enrichment. About 99 percent of the feedstock consumed by U.S. power plants is imported, and much of that uranium is enriched in Russia, despite the prohibition on importing Russian uranium then President Joe Biden signed in May 2024. The ban doesn't fully go into effect until 2028.

“Uranium mining, uranium processing and uranium enrichment have all largely been offshored because they could do it cheaper,” said Rusty Towell, director of the Nuclear Energy Experimental Testing Laboratory at Abilene



Jake Bolster / Inside Climate News

After uranium is extracted from the formation, it goes through a series of binding and refining processes before it is turned into yellowcake.

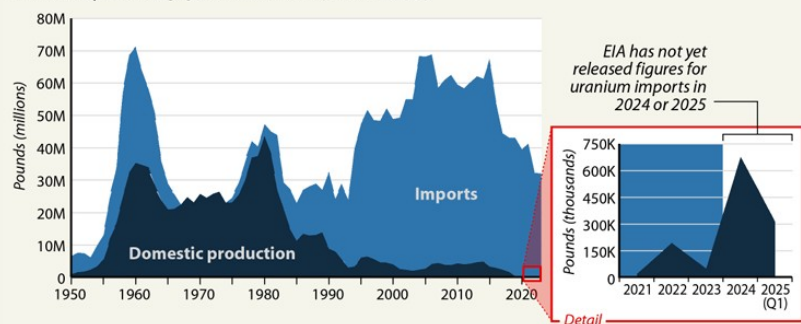
In the U.S., just [one commercial plant](#) converts uranium into the gaseous form required for enrichment and only [one commercial plant](#) enriches that gas into nuclear fuel at the scale required to fuel power plants. No facility can produce significant volumes of the higher-grade fuel used by new reactor designs—[High-Assay Low-Enriched Uranium](#), or HALEU. That also comes primarily from Russia, though the Department of Energy has posted billions in grant funding for private-sector enrichment projects in the U.S.

“The U.S. [government] is moving very fast on this,” said James Walker, CEO of a startup called Nano Nuclear Energy and a former nuclear engineer at the U.K. Ministry of Defense. “Now

A Long Road to Reboot U.S. Uranium

American uranium mining withered to practically nothing as cheap imports captured the market. Now the U.S. wants to revive its uranium sector, but a long road remains to achieve significant production volumes.

U.S. URANIUM SUPPLY TO COMMERCIAL NUCLEAR REACTORS *In millions of pounds of U₃O₈ (triuranium octoxide), 1950-2025 (Q1)*



SOURCE: U.S. Energy Information Administration

PAUL HORN / Inside Climate News

However, even a booming domestic market for nuclear fuel doesn't guarantee that American uranium miners will supply the needed raw material. New enrichment projects could continue to import uranium mined overseas—but government policies are making that harder, including with the Biden administration's [ban on imports](#) of Russian uranium.

"We are making investments to build out a secure nuclear fuel supply chain here in the United States," the announcement of that ban stated.

This year, Trump imposed tariffs on imports from 70 countries, including the top uranium

likely be the case.



Jake Bolster / Inside Climate News

As the price of uranium has increased, UR Energy has drilled more wells.

A flurry of new mines

In Wyoming, home to the nation's richest known uranium deposits, three other companies have recently joined UR Energy in ramping up operations. To the south, in far western Colorado, Canadian firm Anfield Energy [announced plans](#) in August to begin exploratory drilling at an abandoned, 2000-acre pit uranium mine.

In Utah, Anfield's Velvet-Wood project received an [expedited environmental review](#) that lasted just two weeks due to a [March executive](#)



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The reviews of several mines in western New Mexico were also fast-tracked and are expected to conclude in late 2027. They include the [Crownpoint-Church Rock](#) and [La Jara Mesa](#) projects by Australian miner Laramide Resources, as well as Energy Fuels' [Roca Honda](#) project in the Cibola National Forest.

On federal lands, where many of the reopened mines are located, digs for minerals are still governed by the Mining Act of 1872. Originally passed to draw settlers to the West, it declares all mineral deposits “free and open to exploration and purchase.” The law has enabled some mines to open in areas that are culturally important to tribes, critical habitat for vulnerable species or revered for recreational and scenic values, often over local opposition.

Some of the fast-tracked New Mexico mines border the lands of the Acoma and Laguna pueblos. In the nearby Navajo Nation, the new activity has sparked concern.

The Navajo Nation “continues to be affected—not only from abandoned uranium mines and mill



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Navajo land.

Noel Lyn Smith / Inside Climate News

Dozens of Indigenous men worked as uranium miners and millers when the mineral was removed during the Cold War era. Members of the Navajo Nation, Hopi Tribe and Pueblo of Laguna speak in Window Rock, Ariz., on June 10 about how their lives were affected by uranium mining, radiation exposure and fallout from nuclear weapons tests.

Numerous peer-reviewed studies of the Navajo Nation have shown widespread [groundwater contamination](#) by uranium, as well as [other elements](#) released by the mining process, including arsenic, vanadium, manganese and lithium.

“Though uranium mining ceased on the Navajo



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urine samples of Navajo women are almost three times higher than the national median and are associated with significantly increased risks of preterm births, according to studies [in 2020](#) and [2023](#).

Navajo people's cancer diagnosis rate is 6.3 times higher for gallbladder cancer, 3.2 times higher for stomach cancer, 1.9 times higher for kidney cancer and 1.8 times higher for liver cancer than white populations in New Mexico and Arizona, according to a [2023 report](#) from the Navajo Epidemiology Center.

On the eastern edge of Navajo land, at the [Church Rock site](#), a dam failure in 1979 released [94 million gallons](#) of waste fluids into the Rio Puerco, the largest radioactive material spill in U.S. history. Church Rock is among the sites currently undergoing expedited environmental review to resume production.

"These communities are still trying to clean up from the last time this happened," said Amber Reimondo, the energy director at the Grand Canyon Trust, a nonprofit advocating for protection of the Grand Canyon and Colorado



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Pinyon mine, nestled among pinyon pine trees in the Baaj Nwaavjo I'tah Kukveni National Monument, less than 20 miles from the Grand Canyon's south rim in Arizona.

EcoFlight

Less than 20 miles from the Grand Canyon's south rim and located within Arizona's Baaj Nwaavjo I'tah Kukveni National Monument, is Energy Fuels' Pinyon Plain Mine. Local tribes, environmentalists and researchers fear the mine will contaminate the Grand Canyon's regional aquifers.

The mine operator, Energy Fuels, began trucking its uranium product through Navajo territory in July 2024, but was forced to stop after the tribal government issued an order banning unauthorized transport of radioactive material.

"Anyone bringing those substances onto the



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Later, the tribal government and Energy Fuels negotiated an agreement to [resume transport](#) of uranium from the Pinyon Plain Mine across the Navajo lands.

“Energy Fuels is pursuing an aggressive plan to quickly increase short-term U.S. uranium supply,” company CEO Mark Chalmers said in a [press release](#) this year announcing record production at Pinyon Plain.

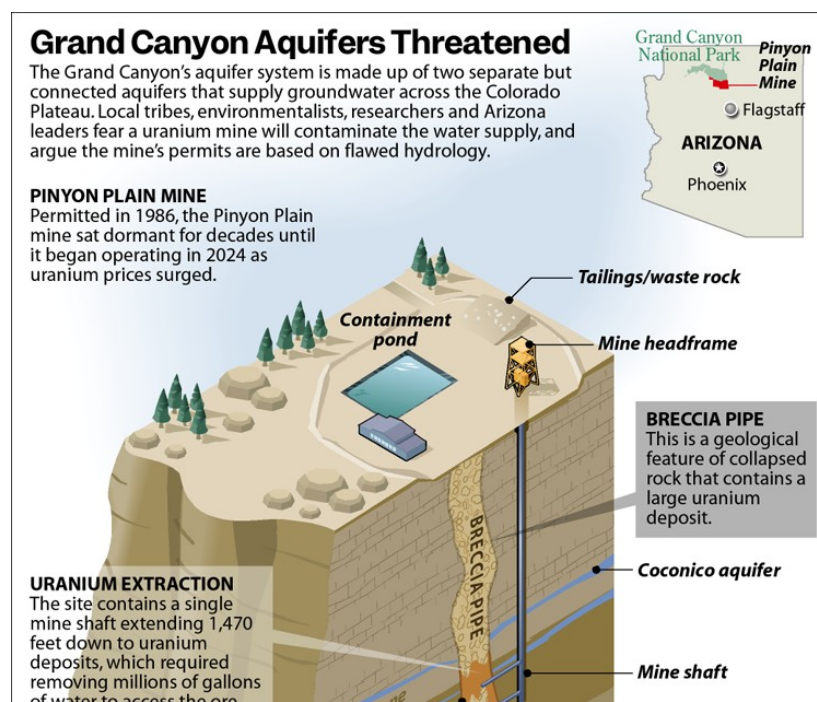
Energy Fuels did not respond to requests for comment. The company has a long list of mines it’s working to bring back online across Arizona, New Mexico, Utah and Wyoming, according to public announcements.

Groundwater concerns

Permitted in 1986, the 14-acre Pinyon Plain Mine sat dormant for decades, like hundreds of other sites in the country, waiting for uranium prices to rebound. When they did, the U.S. Forest Service cleared it to begin operations for the first time last year although it last cleared federal environmental review almost 40 years ago. The decision prompted protests from local tribes, Arizona Gov. Katie Hobbs and Attorney General

1,700 feet down to the uranium deposits, and the company removed millions of gallons of groundwater to access the ore. The mine and others like it pose threats to the region's network of interconnected aquifers that stretches across the Grand Canyon region, according to [research published last year by](#) Karl Karlstrom and Laura Crossey, Emeritus professors of earth science at the University of New Mexico.

“Energy Fuels doesn’t know how much their mining is contaminating the deep aquifer, and USGS doesn’t know, and we don’t know,” Karlstrom said. “Caution is needed.”



formations holding water, the upper Coconino aquifer and the lower Redwall-Mauv aquifer, aren't connected. But ample regional science shows that's not true, they said; water moves between them.

The Redwall-Mauv aquifer feeds springs across the region, some of which provide drinking water for the Havasupai Tribe.

"Current well data are insufficient to rule out a connection between the two aquifers," wrote the Environmental Protection Agency in a [review of the mine](#) following Karlstrom and Crossey's study. But the agency noted that USGS data from the mine's well sites show elevated levels of uranium and arsenic contamination, and that it is unclear how or if it will spread.

"The potential for groundwater contamination resulting from operations at the Pinyon Plain Mine site cannot be assessed fully without additional investigations," the EPA review concluded.

The uranium mining revival has churned up similar concerns in the savannah of South Texas.



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2020.

One rural groundwater conservation district is fighting the renewal of an old, unused mining permit UEC holds for a site in Goliad County.

“We are extremely concerned that UEC’s uranium mining activities will lead to groundwater contamination,” said [a request for a hearing on the mine permits](#) filed by the district with Texas’ environmental regulator late last year.

Dylan Baddour / Inside Climate News

The site of Uranium Energy Corporation’s inactive mine in Goliad County.

Faultlines and abandoned oil wells connect the



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per year, according to Art Donham, vice president of the Goliad County Groundwater Conservation District. But mining is exempt from groundwater permitting requirements under Texas law, he said.

“This may cause more wells in the area to go dry,” the district wrote in comments to the state.

In August, the Texas Commission on Environmental Quality voted unanimously to grant the district’s request for a hearing on the permit. UEC did not respond to requests for comment.

Separate state [permits](#) authorize UEC to inject up to 105 million gallons of mining wastewater underground for disposal every year at its Goliad site. UEC has four other projects under development in South Texas.

The company, which calls itself “America’s largest and fastest growing supplier of uranium,” also owns sites in New Mexico and Wyoming, where its Christensen Ranch mine [began production](#) last summer and its Sweetwater Uranium Complex was selected in August for the



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where Cash, UEC Energy's CEO, was surveying his company's project.

Before UEC can even develop the site, the expedited review is expected to take 18 months, according to a federal [permitting tracker](#).

Drilling uranium

On a hot morning in June, three men and a 25-foot-tall winch pulled piping from the ground at the Lost Creek mine in Wyoming. They had just completed a new uranium well.

Cash, a trim man with brown hair lightly graying on the sides, inspected a slab of wood containing samples of wet earth taken every five feet down the well. A chunk he scooped up was a deep green, indicating it probably contained uranium.

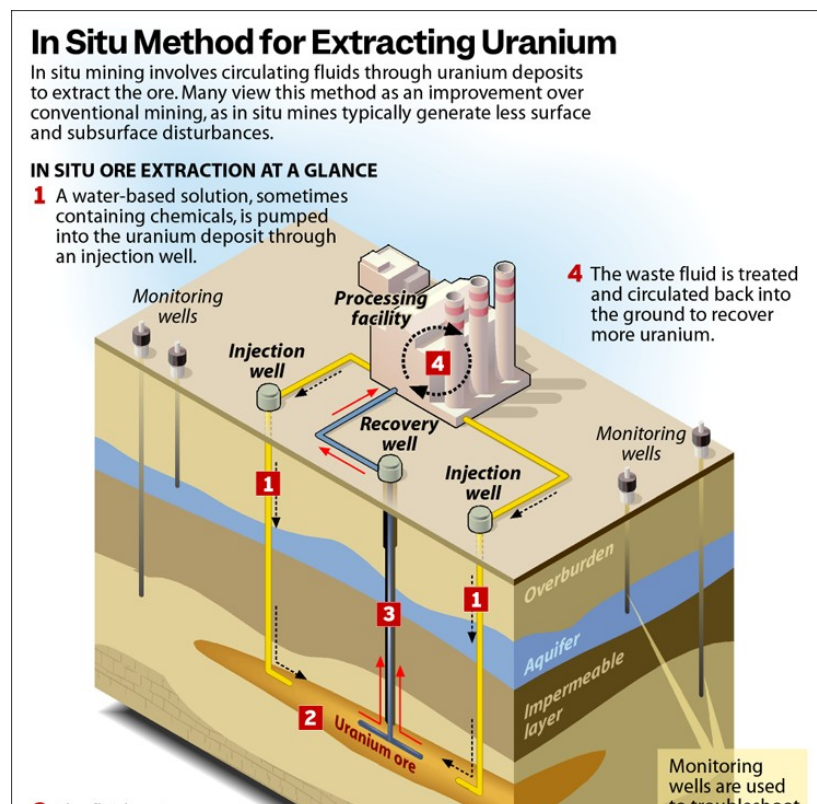
“For a geologist, it’s like reading a book,” said Cash, who has a master’s degree in geology and geophysics from Missouri University of Science and Technology.

Lost Creek extracts uranium using in-situ recovery—ISR mining—a process pioneered in Wyoming in the 1960s. Over the eons, water

back to the surface through the center pipe, it's full of uranium.

Wells' surface impacts bother Cash, he said, looking out over the site. "I wish we could do this with less disturbance."

But if this was an open pit mine, a crater would displace the vegetation on the surface and "this would all be gone in perpetuity," he added. Instead, the company will replant native sagebrush and grasses, Cash said.





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the base ingredient of nuclear fuel.

Water that isn't reused, about 21,600 gallons a day, according to Cash, is treated and disposed of underground.

Lost Creek has detected groundwater contaminated by what the company injects—moving “where it shouldn't move”—four or five times since 2013, Cash said. If left alone, it could spread to freshwater sources. This is “exceedingly rare,” and each time it has happened, UR Energy has successfully prevented an escape, he said.

Employee and environmental safety are among Cash's top concerns, but he feels U.S. nuclear regulations often hamper innovation and curb profit margins. He chaffed at the fact that UR Energy was required to install and maintain a full-blown weather station at Lost Creek, and wondered why his company had to take groundwater that was already undrinkable and make it slightly cleaner, but still unpotable, before disposal.

“We need to be protective,” he said. “But we



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ever develop.

“There’s a lot more work we need to do,” Cash said.

Noel Lyn Smith contributed to this story.

Correction: A previous version of this story misstated the amount of uranium the Lost Creek Mine can produce. The mine is licensed to produce 1.2 million pounds of uranium oxide concentrate a year, rather than having a capacity to produce 2 million pounds per day.

