



Can nuclear wastewater be used to generate solar power





Overview

Can nuclear waste be used like a battery?

Adapted from images used courtesy of Wikimedia Commons and Canva OSU's College of Engineering developed the technology, which can be called a "nuclear photovoltaic battery" or "gammavoltaic battery. ". Energy can be harvested from nuclear waste using scintillator crystal-based "batteries. " The United States stores more than 88,000 metric tons of spent nuclear fuel, and approximately 275,000 tons are distributed in 14 countries worldwide. Nuclear power plants, which generate about 20% of all electricity produced in the United States, produce almost no greenhouse gas emissions. But it also comes with a major catch: radioactive waste that remains dangerous for thousands of years. This challenge has overshadowed nuclear energy's potential, even as the. Ohio State researchers have developed a novel battery that harnesses gamma radiation—typically considered a harmful waste product—to generate usable electricity.



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[Nuclear power plant waste heat opens a window of next-generation](#)

This review serves as a resource for decision-makers, offering insights into the strategic use of NPP waste heat in desalination to address water scarcity while promoting energy efficiency ...

[US to turn wastewater into freshwater with nuclear power](#)

Wind and solar power work great at their peak but face intermittency issues, leading to no power supply when demand is the highest.



[Nuclear waste could be a source of fuel in future reactors](#)

Researchers are modeling the efficiency and cost of converting nuclear waste to tritium. This rare fuel is key for clean energy from future nuclear fusion reactors. Today's nuclear power ...



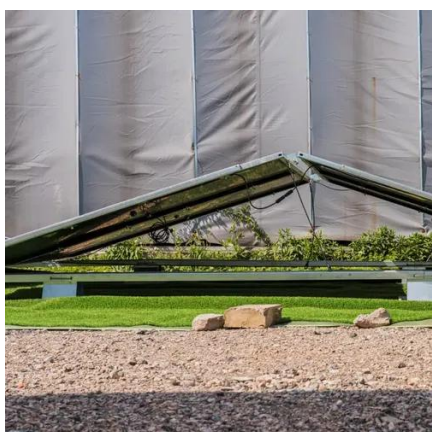
[Nuclear waste site could generate renewable energy. How to comment](#)

A nuclear waste repository near Carlsbad could be used to generate "clean energy" as federal official sought input from the public for the project.



Turning Nuclear Waste Into Electricity

Unlike conventional batteries that degrade over time, nuclear waste remains radioactive for thousands of years. A properly designed scintillator-based battery could theoretically provide ...



Turning Nuclear Waste Into Power

Imagine a world where nuclear power is as clean as renewables, where countries no longer fight over oil and gas because energy is abundant and cheap, and where nuclear waste ...



[Destroying nuclear waste to create clean energy? It can be done](#)

ADS technology advances the double promise of boundless clean electricity, together with the destruction of highly toxic long-term nuclear waste. Its inherent safety will allow power plants ...

[Scientists Reveal Battery That Can Be Powered by Nuclear Waste](#)



Researchers in the US used ambient gamma radiation given off by nuclear waste to generate enough energy to run microchips. This kind of power is currently limited to small sensors, ...



[Scientists design novel battery that runs on atomic waste , Nuclear](#)

The researchers said these batteries would be used near where the nuclear waste is produced, such as in nuclear waste storage pools or nuclear systems for space and deep sea ...

[Scientists Turn Nuclear Waste into Electricity with New Micro-Battery](#)

Ohio State researchers have developed a novel battery that harnesses gamma radiation--typically considered a harmful waste product--to generate usable electricity. The ...





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