



# The solar power station generator is buried deep underground





## Overview

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This innovative design places a standard light water reactor inside a one-mile-deep borehole, leveraging the natural rock coverage to enhance safety and reduce infrastructure costs.

This innovative design places a standard light water reactor inside a one-mile-deep borehole, leveraging the natural rock coverage to enhance safety and reduce infrastructure costs.

The reactor was built in 1963 to power Ågesta, a ritzy suburb of soaring trees and sparkling lakes. Its builders thought they were being smart by excavating an air-tight cavern half as tall as the Statue of Liberty, then squirreling away the reactor beneath 50 feet of solid bedrock. Not only would.

By utilizing the natural geological properties at that depth, this method eliminates the need for massive concrete structures used in aboveground reactors. Deep Fission's SMRs are deployed a mile underground, within 30-inch boreholes. (Representational image) liuzishan/iStock Offering a unique.

Over the years, there have been suggestions they could be buried in concrete vaults deep underground in Yucca Mountain or dumped into the deepest parts of the ocean. The primary justification seems to be the “out of sight, out of mind” principle. Perhaps I have watched to many Jacques Cousteau.

The United States leads the world in geothermal electricity-generating capacity —just over 4 gigawatts. To generate power from geothermal systems, three elements are needed: Heat —Abundant heat found in rocks deep underground, varying by depth, geology, and geographic location. Fluid —Sufficient.

Deep Fission adds an underground twist to conventional nuclear reactor technology. California-based startup Deep Fission is introducing its underground nuclear power concept to place a standard light water reactor inside a one-mile-deep borehole. With natural rock coverage and thermal resources, a.

California-based nuclear startup company Deep Fission, which is proposing to place microreactors deep underground, announced its emergence from stealth mode and a USD4 million pre-seed investment round. Deep Fission aims to locate 15



MWe pressurised water reactors (PWRs) about one mile (1.6 km).



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### [Solar power 101: What is solar energy? . EnergySage](#)

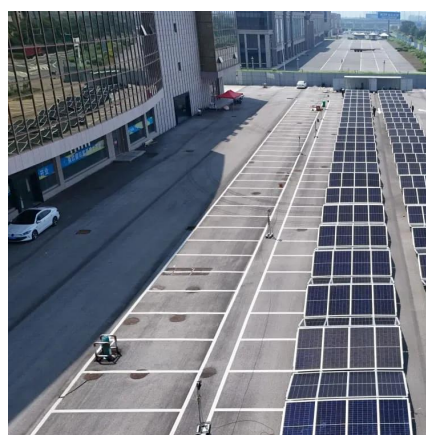
What is solar energy? Solar energy comes from the limitless power source that is the sun. It is a clean, inexpensive, renewable resource that can be harnessed virtually ...

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### Deep Fission plans to bury nuclear reactors deep underground

Instead of sprawling surface complexes, Deep Fission envisions a fleet of buried reactors that disappear into the landscape, serving energy-hungry customers like cloud campuses and ...

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### [Underground Energy: How This Mile-Deep Nuclear Reactor Works](#)

California-based startup Deep Fission is introducing its underground nuclear power concept to place a standard light water reactor inside a one-mile-deep borehole.



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### Solar explained

People have used the sun's rays (solar radiation) for thousands of years for warmth and to dry meat, fruit, and grains. Over time, people developed technologies to collect solar energy for ...

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### PVWatts Calculator

NREL's PVWatts ® Calculator Estimates the energy production of grid-connected photovoltaic (PV) energy systems throughout the world. It allows homeowners, small building owners, ...

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### [US company designs 'groundbreaking' ...](#)

One startup is planning to place a nuclear reactor one mile below the Earth's surface to generate cleaner energy.

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### Deep Fission Introduces

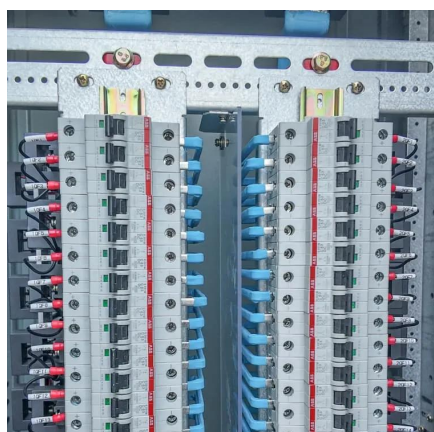


## Underground Nuclear Technology to

...

By situating a nuclear reactor underground, Deep Fission aims to eliminate the need for expensive containment domes and pressure vessels typically associated with surface ...

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## Deep Fission's reactors buried 1-mile-underground to supply power

Offering a unique approach to powering data centers through nuclear energy, Deep Fission and Endeavour Energy have announced a strategic partnership. Their agreement ...

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California-based startup Deep Fission is introducing its underground nuclear power concept to place a standard light water ...

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Learn how different kinds of geothermal power plants tap into geothermal resources--consisting of fluid, heat, and permeability found deep ...

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## **Solar power**

Solar power, also known as solar electricity, is the conversion of energy from sunlight into electricity, either directly using photovoltaics (PV) or indirectly using concentrated solar power.

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## [Nuclear power is in a hole. To get out, this start-up ...](#)

Deep Fission, based in Berkeley, California, offers the tantalizing promise of ultra-safe underground nuclear reactors that produce power as cheaply ...

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## **Nuclear power is in a hole. To get out, this start-up kept digging**

Deep Fission, based in Berkeley, California, offers the tantalizing promise of ultra-safe underground nuclear reactors that produce power as cheaply as solar farms.

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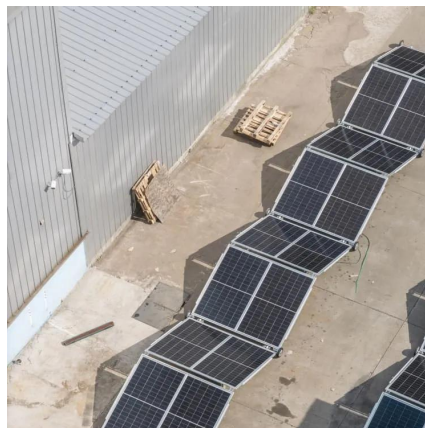
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## Geothermal Electricity Generation, Department of Energy

Learn how different kinds of geothermal power plants tap into geothermal resources--consisting of fluid, heat, and permeability found deep underground--to create a renewable source of ...

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## **Solar energy , Definition, Uses, Examples, Advantages, & Facts**

Solar energy is radiation from the Sun that is capable of producing heat, causing chemical reactions, or generating electricity. The total amount of solar energy incident on ...

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## **Deep Fission To Build Nuclear Power Plants Below The Surface ...**

Deep Fission plans to put just the dirty, dangerous parts of a PWR -- the uranium fuel and most of the radioactive water -- deep underground. The process of creating steam to ...

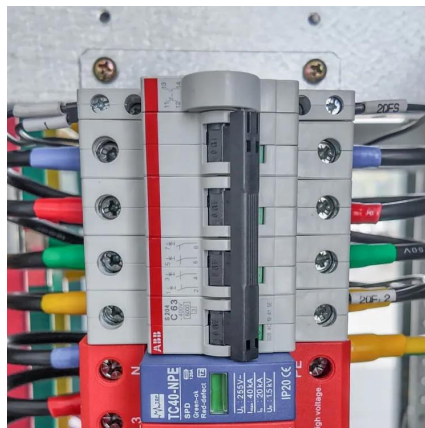
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### [Deep Fission unveils underground reactor concept](#)

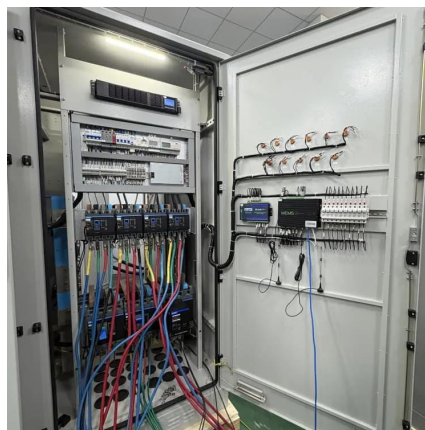
Deep Fission aims to locate 15 MWe pressurised water reactors (PWRs) about one mile (1.6 km) underground in a 30-inch ...

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### [Deep Fission: Revolutionizing Nuclear Energy with ...](#)

With its innovative approach to underground PWRs, Deep Fission is poised to revolutionize the nuclear energy industry, offering a ...

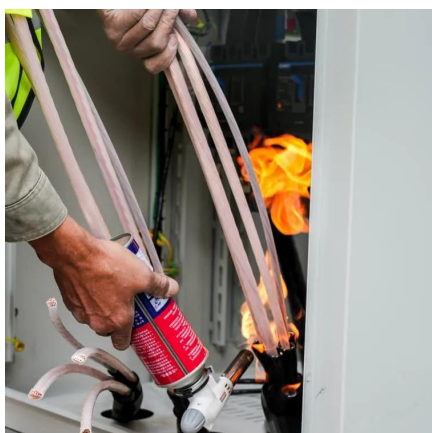
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### [Deep Fission unveils underground reactor concept](#)

Deep Fission aims to locate 15 MWe pressurised water reactors (PWRs) about one mile (1.6 km) underground in a 30-inch borehole. The reactor operates at the same ...

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## Solar Energy



There are two main types of solar energy technologies--photovoltaics (PV) and concentrating solar-thermal power (CSP). On this page you'll find resources to learn what ...

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## US company designs 'groundbreaking' subterranean power station ...

One startup is planning to place a nuclear reactor one mile below the Earth's surface to generate cleaner energy.

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## Deep Fission: Revolutionizing Nuclear Energy with Underground ...

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## [Nuclear ...](#)

By situating a nuclear reactor underground, Deep Fission aims to eliminate the need for expensive containment domes and ...

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