

This article explains what fusion energy is, its current state, and the pending obstacles that need to be overcome before we see fusion power plants connected to the grid.

Most experts agree that we're unlikely to be able to generate large-scale energy from nuclear fusion before around 2050 (the cautious might add on another decade).

The processes by which stars, such as the Sun, produce energy is well-known to be based on nuclear fusion, and there has been a long-held ambition to reproduce this on Earth.

If all goes as planned, which is no sure thing, the 400-megawatt plant would become the world's first fusion plant providing steady power to the grid--enough to power about 300,000 homes.

The film describes the physics of fusion on a basic level and how experimental and theoretical scientists are gradually approaching profitable energy production through nuclear fusion.

This discussion will explore what fusion solar energy entails, its advantages, the scientific principles underlying it, and the latest developments in the field, including fusion commercialization efforts by ...

This article explains how nuclear fusion works, the latest developments in clean energy research, and why this technology could shape the future of global power generation.

We're building the world's first fusion power plant and creating a new era of plentiful, zero-carbon electricity from fusion.

Scientists are working to replicate fusion on Earth as a means to generate electricity for the power grid. Fusion energy would provide the benefit of a lasting power source that doesn't produce greenhouse ...

OverviewTerminologyBackgroundPlasma behaviorMethodsCommon toolsFuelsMaterial selectionFusion power is a potential method of electric power generation from heat released by nuclear fusion reactions. In fusion, two light atomic nuclei combine to form a heavier nucleus and release energy. Devices that use this process are known as fusion reactors. Research on fusion reactors began in the 1940s. As of 2025, the National Ignition Facility

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