

The DOE fusion energy program helps researchers coordinate across the many fundamental scientific and technical disciplines that are involved with fusion, including plasma ...

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.

Fusion energy and energy storage represent two of the most promising technologies in the quest for a sustainable future. Fusion energy, often referred to as the "holy grail" of energy ...

For decades, nuclear fusion has been described as the holy grail of clean power, a way to generate vast amounts of energy by mimicking the reactions that light the sun. In the past year, a cluster ...

Fusion energy is projected to play a significant role in meeting the world's growing demand for clean, baseload power. For the first time, the IAEA World Fusion Outlook includes global ...

Developments in government and industry indicate that fusion energy could begin contributing to national grids in the 2030s, marking a shift from experimentation to deployment.

Fusion energy could bring the clean, near-infinite power of stars into human hands. But as the old saying goes, with great power comes great responsibility, especially when that power might ...

Nuclear fusion is the energy source of stars, including our sun. It occurs when two atomic nuclei, such as hydrogen isotopes, combine to form a new nucleus, which releases energy. ...

Together, the colossal projects are China's most ambitious efforts yet to harness an energy source that could transform civilization: fusion.

Solar, wind, and other renewables are critical parts of the solution, but they are intermittent and dependent on storage technologies that are still maturing. Fusion promises ...

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