

What are the fusion energy storage batteries





Overview

Can fusion produce electricity?

Fusion can potentially provide a safe, abundant, zero-carbon-emitting source of reliable primary energy. To reach the point where fusion can reliably produce electricity and other forms of energy for commercial, industrial, and residential use, scientists and engineers must tackle a number of remaining scientific and technological challenges.

Is fusion energy a reality?

Fusion energy promises an abundant source of clean and safe electricity. With billions of dollars already invested, we have been making unprecedented progress towards making fusion energy a reality. But what is it exactly, what's the current status, and what are the next steps?

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Is fusion a viable source of energy?

Fusion may also potentially provide a combined source of energy in the form of heat and power for hydrogen production, industrial heat, carbon capture, and desalination. At the same time, fusion has both technology gaps (e.g., materials and fuel cycle) and potential risks that need to be managed.

Could fusion be a zero-carbon energy source?

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 something extraordinary: a virtually limitless, always-on, zero-carbon source of energy.



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