

# Controlled nuclear fusion solar power generation

Can nuclear fusion be used as an energy source?

A team at the National Ignition Facility (NIF) in California announced it had extracted more energy from a controlled nuclear fusion reaction than had been used to trigger it. It was a global first and a significant step for physics--but very far from enabling practical exploitation of fusion as an energy source.

What is nuclear fusion?

Nuclear fusion is a process in which two atomic nuclei come together to form a heavier nucleus, releasing an enormous amount of energy. It is the same process that powers the Sun and other stars.

Could nuclear fusion power the Sun?

The sun, along with all other stars, is powered by a reaction called nuclear fusion. If this can be replicated on earth, it could provide virtually limitless clean, safe and affordable energy to meet the world's energy demand. (Image: NASA/SDO/AIA)

Could nuclear fusion be the future of electric power generation?

The demonstration of electric power generation by 2050 is targeted. Nuclear fusion is the power of the sun and all shining stars in the universe. An artificial sun on the Earth, that is, controlled nuclear fusion, has a very attractive potential to offer an environmentally friendly and intrinsically safe energy source.

Does nuclear fusion contribute to energy transition by 2050?

Role of nuclear fusion in power sector studied by energy system optimization model. Techno-economic characterization presented for three fusion technology concepts. Constraints for fusion technologies developed based on a capacity growth model. Fusion does not contribute to energy transition by 2050.

What is the control of nuclear fusion?

Therefore, the control of nuclear fusion means how to heat the fuels to this extremely high temperature and keep them. The scientific assessment of a fusion reactor has been almost completed by more than 60-year research, and the development stage is shifting to the assessment of engineering and technological feasibility.



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