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The experimental data obtained establishes an important foundation for the development of clean fusion energy.

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Nuclear fusion needs very high temperature and great pressure, and since the latter can't be achieved on earth, people can only raise the temperature, which, according to current theory, must reach at least 100 million C.

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Therefore, the Chinese artificial sun's successful achievement of 100 million C can be said to reach the ignition condition of nuclear fusion.

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Nuclear fusion is arguably the best way for human beings to get energy. In terms of raw materials, deuterium and tritium required for nuclear fusion are almost inexhaustible in the ocean. Besides, nuclear fusion does not produce any radioactive waste, so it is extremely environmentally friendly.

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China independently designed and constructed the EAST in 2006. The facility is 11 meters tall, with a diameter of 8 meters, and a weight of 400 tons. The country is the first in the world to design and develop such an equipment on its own.

2006???????????? EAST????11????8???400????????????????????

"The development of science and technology makes future life full of infinite possibilities," an internet user said on Chinese social media platform Sina Weibo.

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