



Overview

China's EAST (Experimental Advanced Superconducting Tokamak) fusion reactor recently reached an important milestone. Fusion reactors need to keep hydrogen extremely hot and condensed, in the form of plasma, as it's found in the sun. A man takes a picture of a module being assembled at the huge international nuclear fusion project ITER in 2023. The clean energy project aims to generate 500 megawatts of power from 50 megawatts of electricity in the 2030s. Nuclear fusion in the sun occurs when hydrogen is compressed under such extreme heat and pressure that atoms break apart and recombine into heavier elements.



Nuclear fusion solar container tank



China's 'artificial sun' design could boost nuclear fusion power

Scientists testing China's trillion-dollar 'artificial sun' have underlined its potential to advance nuclear fusion, emphasizing that it could greatly improve steady-state, long-pulse, and

Nuclear Waste

Nuclear Waste is a byproduct of running the Fission Reactor, it is Radioactive and if it is released it will contaminate the environment. A Small amount is stored in the Reactor itself but should be piped into ...



US firm makes major breakthrough in effort to replicate sun's energy

Now, Commonwealth Fusion Systems in Massachusetts says it is creating a container to keep a fusion reaction entirely airtight. The company has called this a "vacuum vessel," describing ...



Solar Without Panels, Storage Without Batteries

Their system promises 24/7 dispatchable power at a fraction of the cost of traditional solar and batteries--and it's already being deployed.
???SUPPORT THE SHOW!???



Nuclear Fusion Power

There was some indication that the two projects involving palladium merited further study. Assessing fusion power The use of fusion power plants could substantially reduce the environmental ...

Nuclear fusion breakthrough - what is it and how does ...

Nuclear fusion doesn't need fossil fuels like oil or gas. It also doesn't generate greenhouse gases, which trap the Sun's heat and are responsible for ...



small modular reactors

Member States and many other stakeholders such as future operators, potential industrial users, industries in the nuclear supply chain and academics keep expressing their interest in information ...





Japan made a nuclear reactor the size of a shipping container -- and ...

Designed for small communities and disaster zones, this self-contained nuclear unit delivers up to 1 megawatt of power -- enough to keep an entire town running for years without ...



Chinese nuclear fusion reactor pushes plasma past crucial

Chinese nuclear fusion reactor pushes plasma past crucial limit: what happens next Breaking the plasma density limit brings researchers a step closer to viable fusion reactors.

Nuclear Fuel Rod

The Nuclear Fuel Rod is a Hardmode accessory that is dropped by the Cragmaw Mire. It grants the following effects while equipped: +1 minion slot Immunity to the Irradiated debuff On enemy hits, ...



Nuclear container ship with fourth-generation reactor could soon ...

A study by Lloyd's Register (LR), CORE POWER, and AP Moller - Maersk could soon assess regulatory feasibility and frameworks needed to establish nuclear container ship using a ...



China's 'artificial sun' reactor shatters major fusion limit -- a step

China 's nuclear fusion reactor, dubbed the "artificial sun," has breached a major fusion limit by firing plasma beyond its usual operational range, advancing humanity's slow progress



Inside 3 Fusion Reactors That Could Power the Future

Fusion happens all the time inside the sun. But to recreate the process on Earth, we must control incredibly hot, chaotic matter in an exceedingly dense state. Prototypes of several ...

Europe is building a giant fusion reactor to harness solar energy

In southern France, teams from 35 nations are starting to assemble the core of a huge fusion experiment called International Thermonuclear Experimental Reactor (ITER). Scientists are ...



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Fusion power may run out of fuel before it even gets started , Science

Most fusion scientists shrug off the problem, arguing that future reactors can breed the tritium they need. The high-energy neutrons released in fusion reactions can split lithium into helium ...



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