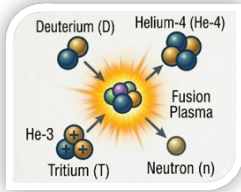


Nuclear Fusion: The Power of Stars on Earth

A physical process that releases massive amounts of clean and safe energy

Reaction physics

The fusion of deuterium and tritium at extreme temperatures converts a small part of their mass into energy



What is?



Learn with AI



Quiz

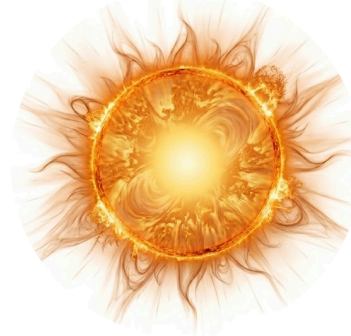
Advantages and challenges

The challenge of this clean, limitless energy is to produce more energy than the reactor consumes to operate



Fuel: seawater and lithium

The process uses hydrogen isotopes from seawater and lithium



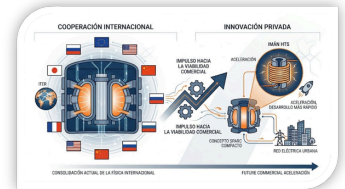
What do you need?

150 millions of °C, extreme magnetic confinement and resilient materials



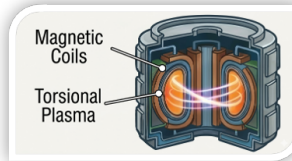
Current status

International cooperation lays the scientific foundation, and private innovation accelerates its commercial viability



The tritium cycle

Fusion reactors are designed to produce their own tritium from lithium



When will fusion arrive?

Current efforts aim to prove that it can become a commercial reality by the middle of the century

