

Date: 22 Apr 2026

Magnets - Feeder milestone: first-phase assembly achieved

<https://www.iter.org/node/20687/feeder-milestone-first-phase-assembly-achieved>

[Latest ITER Newline: <https://www.iter.org/whatsnew/497>]

Generative model explores tungsten microstructure under fusion conditions

<https://www.ans.org/news/2026-04-20/article-7948/generative-model-explores-tungsten-microstructure-under-fusion-conditions/>

Policy paper - UK Fusion Energy Ltd Strategy (accessible version)

<https://www.gov.uk/government/publications/uk-fusion-energy-ltd-ukfe-strategy/uk-fusion-energy-ltd-strategy-accessible-version>

US, China forge rival fusion chains as Europe weighs role

<https://asiatimes.com/2026/04/us-china-forge-rival-fusion-chains-as-europe-weighs-role/>

First Light Fusion wants to operate a net gain inertial fusion machine in 2027

<https://www.ans.org/news/article-4694/first-/>

UK awards GBP100 million in contracts for prototype fusion plant

<https://www.world-nuclear-news.org/articles/uk-awards-gbp100-million-in-contracts-for-prototype-fusion-plant>

PSFC showcases technologies applicable to both fusion and geothermal energy during representative's visit

<https://news.mit.edu/2026/psfc-showcases-technologies-applicable-to-fusion-and-geothermal-0421>

A star in a shoebox: compact fusion reactors

<https://www.computing.co.uk/feature/2026/a-star-in-a-shoebox-compact-fusion-reactors>

F4E welcomes European Commissioner for Energy and Housing Dan Jørgensen

<https://fusionforenergy.europa.eu/news/f4e-welcomes-european-commissioner-for-energy-and-housing-dan-jorgensen/>

Nuclear Fusion: A Leap for Humanity

<https://rosatomnewsletter.com/2026/04/20/nuclear-fusion-a-leap-for-humanity/>

Fusion power may struggle to compete with renewables on cost

<https://eandt.theiet.org/2026/04/20/fusion-power-may-struggle-compete-renewables-cost>

Fusion's Credibility Problem: Why Two Startups Are Going Public Before Proving Their Physics

<https://spacedaily.com/sd-w-fusions-credibility-problem-why-two-startups-are-going-public-before-proving-their-physics/>

F4E launches the 2026 Technology Transfer Demonstrator Call

<https://fusionforenergy.europa.eu/news/f4e-launches-the-2026-technology-transfer-demonstrator-call/>

STEP fusion digital backbone expands

<https://www.neimagazine.com/news/step-fusion-digital-backbone-expands/>

Laser-plasma accelerator drives free-electron laser for record 8 hours

<https://phys.org/news/2026-04-laser-plasma-free-electron-hours.html>

Powerful Lasers Reveal How Matter Becomes Plasma in Trillionths of a Second

<https://scitechdaily.com/powerful-lasers-reveal-how-matter-becomes-plasma-in-trillionths-of-a-second/>

The 'dumb machine' promising a clean energy breakthrough

<https://www.bbc.com/news/articles/c5yvm11xrn6o>

NRL Celebrates 60 Years of Plasma Physics Innovation

<https://www.navy.mil/Press-Office/News-Stories/display-news/Article/4464151/nrl-celebrates-60-years-of-plasma-physics-innovation/>

Researchers directly observe muonic molecules critical to muon catalyzed fusion

<https://phys.org/news/2026-04-muonic-molecules-critical-muon-catalyzed.html>

New study bridges the worlds of classical and quantum physics

<https://news.mit.edu/2026/new-study-bridges-classical-and-quantum-physics-0421>

New methods can help study the phenomenon of turbulence

<https://phys.org/news/2026-04-methods-phenomenon-turbulence.html>

US tests spin-polarized fuel in 180-million-degree Fahrenheit tokamaks for fusion power

<https://interestingengineering.com/energy/spin-fuel-plasma-fusion-power>

A year in orbit: ISS deployment tests radiation detectors for future space missions

<https://www.ans.org/news/article-7865/a-year-in-orbit-iss-deployment-tests-radiation-detectors-for-future-space-missions/>

US targets 5 GW more nuclear power through low-cost finance

<https://www.reuters.com/business/energy/us-targets-5-gw-more-nuclear-power-through-low-cost-finance--reeii-2026-04-21/>

Milestone for Zeno Power's space nuclear battery

<https://www.ans.org/news/2026-04-21/article-7965/milestone-for-zeno-powers-space-nuclear-battery/>

Russia advances Primorye NPP licensing

<https://www.neimagazine.com/news/russia-advances-primorye-npp-licensing/>

Recent Peer-Reviewed Articles of Interest

A comparative study of industrial and open-source SCADAs to optimize the design of control systems for the IFMIF-DONES plant

<https://www.nature.com/articles/s41598-026-48987-1>

Multifunction plasma genus holographic antenna for near/far-field focusing using a single structure

<https://www.nature.com/articles/s41598-026-47001-y>

[Of Interest]

ISRO and TIFR Sign MoU for Collaboration in Space Science and Related Technologies

https://www.isro.gov.in/ISRO_and_TIFR_Sign_MoU_for_Collaboration_n_Space_Science.html

Surging AI needs and geopolitical supply shocks herald nuclear energy revival

<https://www.weforum.org/stories/2026/04/nuclear-energy-crisis-strait-of-hormuz-wef-small-modular-reactor/>