

Date: 13 Nov 2025

FYI - Fusion News/Alerts

Central solenoid - 5th module (out of 6) installed

<https://www.iter.org/node/20687/5th-module-out-6-installed>

[Latest ITER Newline: <https://www.iter.org/whatsnew/476>]

UK-Saudi to boost fusion tech

<https://www.neimagazine.com/news/uk-saudi-to-boost-fusion-tech/>

UK must change approach in order to win fusion race, says report

<https://www.world-nuclear-news.org/articles/uk-must-change-approach-in-order-to-win-fusion-race-says-report>

[Related Paper] Future for Fusion Roadmap Commercial Fusion with FLARE

https://assets.nationbuilder.com/stonehaven/pages/2107/attachments/original/1762938838/FLF_Stonehaven_Future_Fusion_Roadmap_Report.pdf

Commercial fusion is a global quest

<https://www.photonics.com/Articles/Commercial-fusion-is-a-global-quest/p5/a71570>

Europe and Japan install a powerful section in LIPAc

<https://fusionforenergy.europa.eu/news/lipac-upgrade-superconducting-radio-frequency/>

UC awards \$8 million to solve next big scientific and engineering challenges in fusion energy

<https://www.universityofcalifornia.edu/news/uc-awards-8-million-solve-next-big-scientific-and-engineering-challenges-fusion-energy>

Germany bets billions on nuclear fusion for energy future

<https://www.dw.com/en/nuclear-fusion-germany-bets-billions-on-technology-for-energy-future/a-74522109>

HL-3 tokamak sets plasma record

<https://www.neimagazine.com/news/hl-3-tokamak-sets-plasma-record/>

Improving ground-based plasma thruster tests for space-based applications

<https://www.aip.org/scilight/improving-ground-based-plasma-thruster-tests-for-space-based-applications>

Local governments scramble to host 'artificial sun' lab to develop fusion energy

<https://koreajoongangdaily.joins.com/news/2025-11-11/business/economy/Local-governments-scramble-to-host-artificial-sun-lab-to-develop-fusion-energy/2441549>

Harnessing intricate, self-organized plasma patterns to destroy PFAS

<https://news.engin.umich.edu/2025/11/harnessing-intricate-self-organized-plasma-patterns-to-destroy-pfas/>

Germany launches €18 billion High-Tech Agenda

<https://sciencebusiness.net/news/sovereignty/germany-launches-eu18-billion-high-tech-agenda>

Paving the path toward clean energy

<https://ecology.wa.gov/blog/november-2025/paving-the-path-toward-clean-energy>

Measuring the Sun's Opacity

<https://physics.aps.org/articles/v18/s144>

CERN creates cosmic “fireballs” that could reveal the Universe's hidden magnetism

<https://www.sciencedaily.com/releases/2025/11/251107010252.htm>

Nearby brown dwarf's 'weather' mapped in unprecedented detail

<https://phys.org/news/2025-11-nearby-brown-dwarf-weather-unprecedented.html>

DOE seeks proposals for AI data centers at Paducah

<https://www.ans.org/news/article-7525/doe-seeks-proposals-for-ai-data-centers-at-paducah/>

Commission adopts 2026 European Innovation Council work programme, putting forward €1.4 billion to boost Europe's deep tech innovation

https://ec.europa.eu/commission/presscorner/detail/en/ip_25_2612

Electrified atomic vapor system enables new nanomaterial mixtures

<https://phys.org/news/2025-11-electrified-atomic-vapor-enables-nanomaterial.html>

How to detect hidden stars using elemental signatures

<https://cen.acs.org/analytical-chemistry/spectroscopy/detect-hidden-stars-using-elemental/103/web/2025/11>

Russia and India discuss potential new nuclear energy projects

<https://www.world-nuclear-news.org/articles/russia-and-india-discuss-possible-new-nuclear-energy-projects>

The new space race: the technicalities of putting nuclear power on the moon

<https://www.power-technology.com/features/the-new-space-race-the-technicalities-of-putting-nuclear-power-on-the-moon/>

Recent Peer-Reviewed Articles of Interest

Kinetic particle-in-cell modeling of proton-driven fast ignition in DT and alternate fuels

<https://pubs.aip.org/aip/pop/article/32/11/113901/3371406/Kinetic-particle-in-cell-modeling-of-proton-driven>

Neutron spectrum analysis considering nuclear elastic scattering in beam-injected JT-60SA relevant deuterium plasma

<https://iopscience.iop.org/article/10.1088/1361-6587/ae1c6e>

Neutral pressure gauges with carbide cathodes for magnetic fusion

<https://iopscience.iop.org/article/10.1088/1361-6587/ae1bd4>

Investigation of radiated-power for low aspect ratio fusion plasmas

<https://iopscience.iop.org/article/10.1088/1361-6587/ae1bd2>

Challenges and approaches to interpretive modeling of boundary plasma and neutral transport in a closed, pumped divertor

<https://iopscience.iop.org/article/10.1088/1741-4326/ae1bb9>

[Of Interest]

Mike Kramer: Navigating power deals in the new data economy

<https://www.ans.org/news/2025-11-07/article-7479/mike-kramer-navigating-power-deals-in-the-new-data-economy/>

IAEA at COP30: Nuclear Energy, Technology and Science Shaping a Sustainable Future

<https://www.iaea.org/newscenter/news/iaea-at-cop30-nuclear-energy-technology-and-science-shaping-a-sustainable-future>

IAEA and AtkinsRéalis Sign Partnership to Support Women in Nuclear Energy

<https://www.iaea.org/newscenter/news/iaea-and-atkinsrealis-sign-partnership-to-support-women-in-nuclear-energy>

UK's first large-scale plastic film recycling centre to be built in Darlington

<https://www.thechemicalengineer.com/news/uk-s-first-large-scale-plastic-film-recycling-centre-to-be-built-in-darlington/>