

FYI - Fusion News/Alerts

Equipping sector modules - The stage is set

<https://www.iter.org/node/20687/stage-set>

[Latest ITER Newslines: <https://www.iter.org/whatsnew/471>]

New AI enhances the view inside fusion energy systems

<https://www.pppl.gov/news/2025/new-ai-enhances-view-inside-fusion-energy-systems>

New prediction model could improve the reliability of fusion power plants

<https://news.mit.edu/2025/new-prediction-model-could-improve-reliability-fusion-power-plants-1007>

Kyoto Fusioneering Shares Progress on UNITY-1: the Integrated Blanket and Thermal Cycle Facility

<https://kyotofusioneering.com/en/news/2025/10/07/3450>

Powering Fusion: Inside The Supply Chain Sprint For The Next Energy Era

<https://www.forbes.com/councils/forbestechcouncil/2025/10/03/powering-fusion-inside-the-supply-chain-sprint-for-the-next-energy-era/>

First JET tiles removed, studied for impact of high-powered plasmas

<https://world-nuclear-news.org/articles/first-jet-tiles-removed-revealing-impact-of-high-powered-plasmas>

Impact of years of fusion experiments revealed by JET

<https://www.niauk.org/impact-of-years-of-fusion-experiments-revealed-by-jet/>

Germany boosts funding for fusion research

<https://www.world-nuclear-news.org/articles/germany-boosts-funding-for-fusion-research>

CFS secures US\$1bn deal with Eni to deliver fusion energy

<https://www.thechemicalengineer.com/news/cfs-secures-us-1bn-deal-with-eni-to-deliver-fusion-energy/>

Laboratory breakthrough recreating star formation mechanism wins prestigious John Dawson Award

<https://www.pppl.gov/news/2025/laboratory-breakthrough-recreating-star-formation-mechanism-wins-prestigious-john-dawson>

TUNL Researchers Recreate Historic Fusion Measurement

<https://tunl.duke.edu/news/tunl-researchers-recreate-historic-fusion-measurement>

Tokamak Energy signs strategic HTS collaboration with Gauss Fusion

<https://tokamakenergy.com/2025/10/07/tokamak-energy-signs-strategic-hts-collaboration-with-gauss-fusion/>

The Unconventional Path to Fusion Energy Commercialization: MasterMove Podcast

<https://mastermove.io/greg-piefer/>

Double-shell implosions open new paths for fusion science

<https://www.aip.org/scilights/double-shell-implosions-open-new-paths-for-fusion-science>

Carlos Alejandro: How to Build a Viable Fusion Energy Industry

<https://www.fundacionbankinter.org/en/noticias/carlos-alejandro-how-to-build-a-viable-fusion-energy-industry/>

A Smooth Plasmon Accelerator

<https://physics.aps.org/articles/v18/s125>

In the Eye of the Plasma Storm

<https://news.rub.de/english/2025-10-07-physics-eye-plasma-storm>

Ohio State's Nuclear Reactor Laboratory awarded \$1M ARPA-E grant to support commercial fusion reactor research

<https://mae.osu.edu/news/2025/10/ohio-states-nuclear-reactor-laboratory-awarded-1m-arpa-e-grant-support-commercial-fusion-reactor-research>

Clean Energy Superpower Mission areas of research interest

<https://www.gov.uk/government/publications/clean-energy-superpower-mission-areas-of-research-interest/clean-energy-superpower-mission-areas-of-research-interest>

Bill Gates: 'The Future of Energy Is Subatomic'

<https://www.powermag.com/blog/bill-gates-the-future-of-energy-is-subatomic/>

Printable aluminum alloy sets strength records, may enable lighter aircraft parts

<https://news.mit.edu/2025/printable-aluminum-alloy-sets-strength-records-may-enable-lighter-aircraft-parts-1007>

Fighting for the health of the planet with AI

<https://news.mit.edu/2025/fighting-health-planet-ai-priya-donti-1007>

Swedish partnership for nuclear-powered data centres

<https://www.world-nuclear-news.org/articles/swedish-partnership-for-nuclear-powered-data-centres>

Radioactive BEC could form a 'superradiant neutrino laser'

<https://physicsworld.com/a/radioactive-bec-could-form-a-superradiant-neutrino-laser/>

Recent Peer-Reviewed Articles of Interest

Special Issue on the IFMIF-DONES Fusion Neutron Source

<https://iopscience.iop.org/collections/nf-180925-01>

Magnetic Field and Plasma Asymmetries Between the Martian Quasi-Perpendicular and Quasi-Parallel Magnetosheaths

<https://doi.org/10.1029/2025GL118172>

Learning plasma dynamics and robust rampdown trajectories with predict-first experiments at TCV

<https://www.nature.com/articles/s41467-025-63917-x>

Analytical representations of thermodynamic functions of Thomas–Fermi model

<https://pubs.aip.org/aip/pop/article/32/10/102705/3366477/Analytical-representations-of-thermodynamic>

Extending shelf life: cold plasma as a tool to preserve long-term germination potential of pea seeds

<https://www.nature.com/articles/s41598-025-18952-5>

[Of Interest]

Program prepares U.K. students for nuclear careers

<https://www.ans.org/news/article-7391/program-prepares-uk-students-for-nuclear-careers/>