

FYI - Fusion News/Alerts

Fusion World - A flurry of government plans

<https://www.iter.org/node/20687/flurry-government-plans>

India: Like other ITER Members, is exploring concepts for a demonstration reactor, DEMO, that will test technologies for a fusion reactor. The country is considering a four-stage approach to establish power performance, tritium breeding, fuelling over long-pulse operations, and technology integration on the way to the pilot plant (see more details [here](#)). At a recent event at ITER ([India Fusion Day](#)), government and industry representatives cited participation in ITER as a key element in India's fusion research plans and the foundation for an Indian nuclear fusion industry.

[Reference Paper] **A staged approach to Indian**

DEMO [\[https://iopscience.iop.org/article/10.1088/1741-4326/ad0797\]](https://iopscience.iop.org/article/10.1088/1741-4326/ad0797)

[Latest ITER Newline: <https://www.iter.org/whatsnew/475>]

Helical Fusion marks milestone in progress toward fusion power

<https://www.ans.org/news/article-7500/helical-fusion-marks-milestone-in-progress-toward-fusion-power/>

New insurance for nuclear fusion projects

<https://www.neimagazine.com/news/new-insurance-for-nuclear-fusion-projects/>

DIFFER and Fontys Hogeschool work together on divertor triage for fusion

<https://www.differ.nl/news/l.int-lectorate>

UKAEA opens tritium fuel cycle facility training simulator

<https://www.world-nuclear-news.org/articles/ukaea-opens-tritium-fuel-cycle-facility-training-simulator>

Bipartisan commission report urges national fusion strategy

<https://www.ans.org/news/2025-10-31/article-7509/bipartisan-commission-report-urges-national-fusion-strategy/>

Why the AI Industry Is Betting on a Fusion Energy Breakthrough

<https://time.com/7328213/nuclear-fusion-energy-ai/>

Why AI is becoming a catalyst for nuclear fusion breakthroughs

<https://energy-oil-gas.com/news/why-ai-is-becoming-a-catalyst-for-nuclear-fusion-breakthroughs/>

DOE Releases Fusion Energy Roadmap For Commercialization

<https://www.forbes.com/sites/noelfletcher/2025/10/29/doe-releases-fusion-energy-roadmap-for-commercialization/>

UK's fusion energy reactor achieves multiple world-firsts in latest experiments

<https://www.yourweather.co.uk/news/science/uk-s-fusion-energy-reactor-achieves-multiple-world-firsts-in-latest-experiments.html>

FYI – FUSION NEWS/ALERTS

Scientists recreate cosmic “fireballs” to probe mystery of missing gamma rays
<https://www.eurekalert.org/news-releases/1104218>

Texas Tech Researchers Achieve Breakthrough in Nuclear Fusion Detection Technology
<https://www.depts.ttu.edu/coe/wcoenews/posts/2025/11/ttu-ece-nuclear-fusion-breakthrough.php>

Plasma strategy boosts antibacterial efficacy of silica-based materials
<https://phys.org/news/2025-11-plasma-strategy-boosts-antibacterial-efficacy.html>

Russell Kulsrud, one of the last survivors of Project Matterhorn, dies at 97
<https://www.princeton.edu/news/2025/10/24/russell-kulsrud-one-last-survivors-project-matterhorn-dies-97>

Attosecond plasma lens
<https://www.eurekalert.org/news-releases/1104686>

UChicago students explore the frontiers of physics and climate modeling
<https://news.uchicago.edu/story/uchicago-students-explore-frontiers-physics-and-climate-modeling>

Japan looks to support U.S. nuclear projects
<https://www.ans.org/news/article-7512/japan-looks-to-support-us-nuclear-projects/>

Chinese molten salt reactor achieves conversion of thorium-uranium fuel
<https://www.world-nuclear-news.org/articles/chinese-msr-achieves-conversion-of-thorium-uranium-fuel>

From renaissance to reality: Infrastructure for a global nuclear fuel cycle
<https://www.ans.org/news/article-7475/from-renaissance-to-reality-infrastructure-for-a-global-nuclear-fuel-cycle/>

First precise altitude distribution observation of blue aurora using hyperspectral camera
<https://www.eurekalert.org/news-releases/1104113>

Intuitive Machines advances compact in-space nuclear power
<https://www.neimagazine.com/news/intuitive-machines-advances-compact-in-space-nuclear-power/>

KAERI and Mizzou expand nuclear innovation alliance
<https://www.neimagazine.com/news/kaeri-and-mizzou-expand-nuclear-innovation-alliance/>

Recent Peer-Reviewed Articles of Interest

Early stages of self-healing at tungsten grain boundaries from ab initio machine learning simulations
<https://www.nature.com/articles/s43246-025-00945-6>

[*Of Interest*]

Energy Sector Teaching AI How to Grow Up

<https://www.powermag.com/blog/energy-sector-teaching-ai-how-to-grow-up/>