

FYI – FUSION NEWS/ALERTS

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Compendium of ITER design principles taking shape

<https://www.iter.org/node/20687/compendium-iter-design-principles-taking-shape>

[Latest ITER Newsline: <https://www.iter.org/whatsnew/484>]

A novel way of measuring fusion power

<https://www.iter.org/node/20687/novel-way-measuring-fusion-power>

ITER Engineering Basis Handbook

<https://www.iter.org/scientists/iter-technical-reports/iter-engineering-basis-handbook>

Europe moves ahead with the manufacturing of its gyrotrons for ITER

<https://fusionforenergy.europa.eu/news/iter-gyrotrons-final-design-review/amp/>

ORNL to partner with Type One Energy, UT on world-class facility to validate next-gen fusion

<https://www.ornl.gov/news/ornl-partner-type-one-energy-ut-world-class-facility-validate-next-gen-fusion>

Nuclear fusion seems hot right now — but how close is fusion power?

<https://www.cbc.ca/news/science/fusion-startups-9.7045784>

Fusion power plant plan is a 'calculated risk'

<https://www.bbc.com/news/articles/cx20qdkewlno>

An open-source code driving innovation in nuclear and fusion energy research

<https://www.anl.gov/article/an-opensource-code-driving-innovation-in-nuclear-and-fusion-energy-research>

Israel's C3 prototype hits first plasma

<https://www.neimagazine.com/news/israels-c3-prototype-hits-first-plasma/>

General Atomics Scientist Receives National Honor for Contributions to Fusion Research

<https://www.ga.com/ga-scientist-receives-national-honor-for-contributions-to-fusion-research>

Germany's fusion alliance expands

<https://www.neimagazine.com/news/germanys-fusion-alliance-expands/>

Helios fusion design certified

<https://www.neimagazine.com/news/helios-fusion-design-certified/>

China's nuclear fusion start-ups power up with record funding round

<https://www.scmp.com/business/china-business/article/3340430/chinas-nuclear-fusion-start-ups-power-record-funding-round>

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Ferrovial to build Spain's first nuclear fusion experimentation center
<https://www.technology4environment.com/news/105390-ferrovial-to-build-spain%E2%80%99s-first-nuclear-fusion-experimentation-center>

Tennessee energy leaders plan fusion campus at Bull Run coal plant
<https://www.knoxnews.com/story/money/business/2026/01/21/university-tennessee-knoxville-type-one-energy-oak-ridge-lab-plan-bull-run-fusion-development-campus/88255813007/>

China's nuclear fusion startup leverages AI to boost device operation, plasma control
<https://interestingengineering.com/energy/startorus-fusion-uses-ai-to-boost-plasma-control>

DIADEM programme to explore additive for UK fusion
<https://www.theengineer.co.uk/content/news/new-additive-programme-to-support-uk-fusion>

LANL Scientists Earn American Physical Society Recognition – Hill Named Fellow; Fryer And Morris Receive Honors
<https://losalamosreporter.com/2026/01/16/lanl-scientists-earn-american-physical-society-recognition-hill-named-fellow-fryer-and-morris-receive-honors/>

Argonne shines with R&D 100 Awards in nuclear innovation
<https://www.anl.gov/article/argonne-shines-with-rd-100-awards-in-nuclear-innovation>

NASA, DOE aim for nuclear reactor on moon by 2030
<https://world-nuclear-news.org/articles/nasa-doe-join-together-for-lunar-reactor-by-2030>

4 things to watch at DOE in 2026
<https://www.eenews.net/articles/4-things-to-watch-at-doe-in-2026/>

The U.S. and Slovakia sign a new nuclear deal
<https://www.ans.org/news/article-7684/the-us-and-slovakia-sign-a-new-nuclear-deal/>

Report: New recommendations for nuclear waste
<https://www.ans.org/news/2026-01-15/article-7679/report-new-recommendations-for-nuclear-waste/>

China implements Atomic Energy Law
<https://www.neimagazine.com/news/china-implements-atomic-energy-law/>

Recent Peer-Reviewed Articles of Interest

Theory of laser-assisted nuclear fusion
<https://link.springer.com/article/10.1007/s41365-025-01879-x>

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Physics insights from a large-scale 2D UEDGE simulation database for detachment control in KSTAR

<https://iopscience.iop.org/article/10.1088/1741-4326/ae3842>

Parameter-drift models for plasma physics

<https://pubs.aip.org/aip/pop/article/33/1/010901/3377439/Parameter-drift-models-for-plasma-physics>

[Of Interest]

The new space race

<https://www.neimagazine.com/analysis/the-new-space-race/>

Feeling the vibe

<https://www.anl.gov/article/feeling-the-vibe>

Seven technologies to watch in 2026

<https://www.nature.com/articles/d41586-026-00188-6>

AI and nuclear energy feature strongly in agenda-setting technologies for 2026

<https://www.nature.com/articles/d41586-026-00185-9>