

Date: 27 Aug 2026

Nuclear power

Smaller reactors could usher in a new era of low-carbon electrical generation. But safety, waste storage and cost remain hurdles.

<https://www.nature.com/immersive/nuclear-power/index.html>

The 46 companies scrambling to commercialize fusion for energy

<https://www.nature.com/immersive/d41586-026-02513-5/index.html>

Five highlights from nuclear-power research

<https://www.nature.com/articles/d41586-026-02512-6>

ITER's Vacuum Vessel comes together: the journey from factory to tokamak pit

<https://fusionforenergy.europa.eu/news/iter-vacuum-vessel-journey-factory-assembly-tokamak/amp/>

US roadmap targets fusion deployment by mid 2030s

<https://www.reuters.com/business/energy/us-roadmap-targets-fusion-deployment-by-mid-2030s--reeii-2026-08-25/>

Billion-dollar machine aims to set a fusion-energy record — and study nuclear weapons

<https://www.nature.com/articles/d41586-026-02620-3>

Fusion Energy Emerges as Strategic Asset in AI Era

<https://en.sedaily.com/technology/2026/08/27/fusion-energy-emerges-as-strategic-asset-in-ai-era>

How nuclear fusion is helping frozen food processing

<https://euro-fusion.org/eurofusion-news/how-nuclear-fusion-is-helping-frozen-food-processing/>

Pacific Fusion breaks ground on New Mexico facility

<https://world-nuclear-news.org/articles/pacific-fusion-breaks-ground-on-new-mexico-facility>

LLNL Research Shows How Fusion Reactions Can Survive Flaws — Up to a Point

<https://lasers.llnl.gov/news/llnl-research-shows-how-fusion-reactions-can-survive-flaws-point>

Could nuclear fusion become economically viable?

<https://www.ft.com/content/9a1f39cf-e622-4c68-bb80-0fb93bcec3ec?syn-25a6b1a6=1>

[Paywall]

Inertia and LLNL accelerate fusion fuel manufacturing

<https://www.ans.org/news/2026-08-25/article-8335/inertia-and-llnl-accelerate-fusion-fuel-manufacturing/>

Disclaimer: All external sources compiled here are only for educational purposes. We take no responsibility for the correctness, completeness and/or availability of the external information resources/links.

JET and future fusion decommissioning

<https://www.neimagazine.com/analysis/decommissioning-wastemanagement/jet-and-future-fusion-decommissioning/>

Kyoto Fusioneering Secures JPY 25.72 Billion to Build the Systems Every Fusion Power Plant Will Need

<https://kyotofusioneering.com/en/news/2026/08/24/4350>

Big Ideas Lab Takes Measure of NIF Diagnostics

<https://lasers.llnl.gov/news/big-ideas-lab-takes-measure-nif-diagnostics>

IncResUnet: A model for automatic ionospheric plasma bubble detection

<https://www.eurekalert.org/news-releases/1140793>

Mammoet becomes first in its industry to obtain ISO 19443 nuclear power certification

<https://www.niauk.org/mammoet-becomes-first-in-its-industry-to-obtain-iso-19443-nuclear-power-certification/>

DOE and Princeton University extend, strengthen partnership

<https://www.princeton.edu/news/2026/08/24/doe-and-princeton-university-extend-strengthen-partnership>

Second round of Launch Pad selections includes eight newcomers

<https://www.ans.org/news/article-8338/second-round-of-launch-pad-selections-includes-eight-newcomers/>

Researchers create a Little Big Bang: Bowling-pin-shaped nuclei shed new light on the Universe's first moments

<https://www.eurekalert.org/news-releases/1140790>

Global 2026 draws attention to nuclear fuel developments

<https://www.ans.org/news/article-8333/global-2026-draws-attention-to-nuclear-fuel-developments/>

Joint Statement - ATLAS Ministerial Launch Event

<https://www.iaea.org/newscenter/pressreleases/joint-statement-atlas-ministerial-launch-event>

Atomic Technologies Licensed for Applications at Sea (ATLAS)

Recent Peer-Reviewed Articles of Interest

Electrons surf farther on plasma waves

<https://www.nature.com/articles/s41567-026-03410-4>

Accessing the fundamental link between atomic populations and frequency distribution of spectral lines of ions in dense plasmas

<https://www.nature.com/articles/s42005-026-02798-y>

Disclaimer: All external sources compiled here are only for educational purposes. We take no responsibility for the correctness, completeness and/or availability of the external information resources/links.

Analytical Study of Energy Coupling Efficiency Between Explosive Debris Plasma and Magnetized Ambient Plasma

<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2026JA035376>

POP Special Collection: Dynamics of Quantum Plasmas

<https://pubs.aip.org/pop/collection/603887/Dynamics-of-Quantum-Plasmas>

Guest editorial: Dynamics of quantum plasmas

<https://pubs.aip.org/aip/pop/article/33/8/080403/3403084/Guest-editorial-Dynamics-of-quantum-plasmas>

Enhanced gas sensing performance of tin oxide thin films by plasma jet assisted nickel oxide nanoparticle decoration

<https://link.springer.com/article/10.1007/s00339-026-10089-0>

Deep learning tearing mode evolution prediction for instability control

<https://iopscience.iop.org/article/10.1088/1741-4326/ae9d94>

Atomic layer etching brings ‘cutting-edge’ method to semiconductor nanofabrication

<https://pubs.aip.org/aip/sci/article/2026/35/351106/3403008/Atomic-layer-etching-brings-cutting-edge-method-to>

Emergent slowly rotating polarization state suppresses cross beam energy transfer in laser driven fusion plasmas

<https://www.nature.com/articles/s42005-026-02829-8>

[Preprint] Electron screening effect on stellar thermonuclear fusion

<https://arxiv.org/html/1310.3162v1>

[Of Interest]

Powers of persuasion

AI chatbots are becoming experts at changing people’s minds. What gives them an edge?

<https://www.science.org/content/article/ai-chatbots-are-becoming-experts-changing-people-s-minds-what-s-their-secret>

Orbital data centers could transform our night sky forever

<https://www.scientificamerican.com/article/orbital-data-centers-could-transform-our-night-sky-forever/>

NRS Harwell marks 80 Years of history and innovation

<https://www.gov.uk/government/news/nrs-harwell-marks-80-years-of-history-and-innovation>

Disclaimer: All external sources compiled here are only for educational purposes. We take no responsibility for the correctness, completeness and/or availability of the external information resources/links.