

This file has been cleaned of potential threats.

To view the reconstructed contents, please SCROLL DOWN to next page.

Date: 21 Nov 2024

### **Neutrons and Nanos: Nuclear Fusion Steadily Advances**

<https://eepower.com/tech-insights/neutrons-and-nanos-nuclear-fusion-steadily-advances/>

### **New engineering consortium to help complete work on site**

<https://www.iter.org/node/20687/new-engineering-consortium-help-complete-work-site>

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

### **ITER targets faster assembly after repairs**

<https://www.neimagazine.com/news/iter-targets-faster-assembly-after-repairs/>

### **Spinning fusion fuel for efficiency**

<https://www.pppl.gov/news/2024/spinning-fusion-fuel-efficiency>

### **A Survey of Artificial Intelligence and High Performance Computing Applications to Fusion Commercialization**

<https://www.catf.us/resource/a-survey-of-artificial-intelligence-and-high-performance-computing-applications-to-fusion-commercialization/>

[Exe Summary PDF] <https://cdn.catf.us/wp-content/uploads/2024/11/14154447/fusion-ai-executive-summary.pdf>

[Report PDF] <https://cdn.catf.us/wp-content/uploads/2024/11/14154529/fusion-ai-report.pdf>

### **Tokamak Energy raises \$125m to commercialise transformative fusion and magnet technologies**

<https://tokamakenergy.com/2024/11/20/tokamak-energy-raises-125m-to-commercialise-transformative-fusion-and-magnet-technologies/>

### **Scientists find creative ways to explain their research in PPPL's Second Annual Research SLAM**

<https://www.pppl.gov/news/2024/scientists-find-creative-ways-explain-their-research-pppl%E2%80%99s-second-annual-research-slam>

### **Next-gen supercomputer to advance fusion science in Japan**

<https://www.powerengineeringint.com/nuclear/next-gen-supercomputer-to-advance-fusion-science-in-japan/>

### **Fusion Leader Wants to Turn Old Coal Plants Into Breakthrough Nukes**

<https://financialpost.com/pmn/business-pmn/fusion-leader-wants-to-turn-old-coal-plants-into-breakthrough-nukes>

### **[PhD Thesis] High-fidelity numerical investigation of liquid metal magnetoconvection**

[https://repository.lboro.ac.uk/articles/thesis/High-fidelity\\_numerical\\_investigation\\_of\\_liquid\\_metal\\_magnetoconvection/27837024?file=50598696](https://repository.lboro.ac.uk/articles/thesis/High-fidelity_numerical_investigation_of_liquid_metal_magnetoconvection/27837024?file=50598696)

### **'Make or break' moment for renewables targets, and other top energy stories**

<https://www.weforum.org/stories/2024/11/make-or-break-moment-for-renewables-targets-and-other-top-energy-stories/>

**H.E.S.S. collaboration detects the most energetic cosmic-ray electrons and positrons ever observed**

<https://www.cnrs.fr/en/press/hess-collaboration-detects-most-energetic-cosmic-ray-electrons-and-positrons-ever-observed>

**Focused Energy completes first milestones on US fusion programme**

<https://www.world-nuclear-news.org/articles/focused-energy-completes-first-milestones-on-us-fusion-programme>

**Commonwealth Fusion Systems Magnet Success Propels Fusion Energy Toward the Grid**

<https://www.prnewswire.com/news-releases/commonwealth-fusion-systems-magnet-success-propels-fusion-energy-toward-the-grid-302308013.html>

**Naples scientist publishes results of novel nuclear fusion research**

<https://news.wgcu.org/podcast/gulf-coast-life/2024-11-20/naples-scientist-publishes-results-of-novel-nuclear-fusion-research>

**Magnetic Drive Inertial Fusion Energy (MD-IFE)**

<https://www.innovationnewsnetwork.com/magnetic-drive-inertial-fusion-energy-md-ife/53054/>

**How nuclear fusion could transform health, energy, and electric cars**

<https://interestingengineering.com/energy/nuclear-fusion-health-energy-cars>

**USA and UK sign new Gen IV nuclear collaboration agreement**

<https://www.world-nuclear-news.org/articles/usa-and-uk-sign-civil-nuclear-collaboration>

**Chernobyl considered as site for new small modular reactors**

<https://www.world-nuclear-news.org/articles/chernobyl-considered-as-site-for-new-small-modular-reactors>

**Norway SMR options to be explored with X-energy**

<https://world-nuclear-news.org/articles/norway-smr-options-to-be-explored-with-x-energy>

***Recent Peer-Reviewed Articles of Interest***

**Evaluation of plasma activated liquids for the elimination of mixed species biofilms within endoscopic working channels**

<https://www.nature.com/articles/s41598-024-79276-4>

**Machine learning powered predictive modelling of complex residual stress for nuclear fusion reactor design**

<https://www.sciencedirect.com/science/article/pii/S0264127524008244>

**Saturation of the compression of two interacting magnetized plasma toroids evidenced in the laboratory**

<https://www.nature.com/articles/s41467-024-53938-3>