

Date: 23 Jul 2026

In-Vessel Assembly - Monitoring the tokamak from within

<https://www.iter.org/node/20687/monitoring-tokamak-within>

[Latest ITER Newline: <https://www.iter.org/whatsnew/508>]

PPPL to lead Genesis Mission project to create an AI operator for crucial fusion energy heating system

<https://www.pppl.gov/news/2026/pppl-lead-genesis-mission-project-create-ai-operator-crucial-fusion-energy-heating-system>

New US fusion regulations set to spur deployment

<https://www.reuters.com/business/energy/new-us-fusion-regulations-set-spur-deployment--reeii-2026-07-22/>

Harnessing the power of the Sun: Polish physicists help unravel the fusion challenge

<https://scienceinpoland.pl/en/news/news%2C113801%2Charnessing-power-sun-polish-physicists-help-unravel-fusion-challenge.html>

Realta Fusion building headquarters in Madison

https://www.stoughtonnews.com/news/business/realta-fusion-building-headquarters-in-madison/article_8105d86d-6cd6-4761-9cea-ff86f4e75c99.html

HD Hyundai's ITER Vacuum Vessel Sector Enters Final Assembly Stage

<https://en.sedaily.com/finance/2026/07/23/hd-hyundais-iter-vacuum-vessel-sector-enters-final-assembly>

Japan partners target fusion salt supply

<https://www.neimagazine.com/news/japan-partners-target-fusion-salt-supply/>

Nuclear Fusion Industry Raises Nearly \$4.5 Billion in 2026, Most in Six Years

<https://www.tomorrowstoday.com/energy/nuclear-fusion-industry-raises-nearly-4-5-billion-in-2026-most-in-six-years/>

AI-Enabled Optimization of Quantum Circuit Design for Realistic Nuclear Problems

<https://www.anl.gov/genesis-mission/projects/ai-enabled-optimization-of-quantum-circuit-design-for-realistic-nuclear-problems>

Laser-crystal sensor measures strong magnetic fields in challenging environments

<https://www.ans.org/news/article-8231/lasercrystal-sensor-measures-strong-magnetic-fields-in-challenging-environments/>

University of Houston Joins Texas Nuclear Alliance to Advance the Future of Nuclear Energy

<https://www.uh.edu/news-events/stories/2026/july/07202026-uh-nuclear-alliance.php>

FYI – FUSION NEWS/ALERTS

Scientists use dual-frequency images to explore black hole plasma physics

<https://www.eurekalert.org/news-releases/1136724>

Plasma design rules show how to preserve attosecond flashes for observing electrons

<https://phys.org/news/2026-07-plasma-attosecond-electrons.html>

LLNL selected to lead 10 projects under DOE's Genesis Mission

<https://www.llnl.gov/article/54711/llnl-selected-lead-10-projects-under-does-genesis-mission>

Researchers expand simulation tool to help design the next generation of photonic and quantum devices

<https://phys.org/news/2026-07-simulation-tool-generation-photonic-quantum.html>

New 'exomoon' detection challenges cosmic labels

<https://www.eurekalert.org/news-releases/1136791>

Recent Peer-Reviewed Articles of Interest

Enhanced nuclear fusion in the sub-keV energy regime

<https://www.nature.com/articles/s41467-026-74421-1>

Assessing parametric instabilities of trapped microwaves in full spatio-temporal framework

<https://www.cambridge.org/core/journals/journal-of-plasma-physics/article/assessing-parametric-instabilities-of-trapped-microwaves-in-full-spatiotemporal-framework/31B004CFDBDCC313DDC0982FDCC32F02>

[Of Interest]

DAE-Nurtured Olympiad Programme Powers India's Yuva Shakti at International Science and Mathematics Olympiads 2026

<https://www.pib.gov.in/PressReleasePage.aspx?PRID=2287554&req=3&lang=1>