

FUSIONMATTERS CANADA

Canada has the Presidency of the G7 for 2025 and the FECC, under the leadership of the FECC President, **Axel Meisen**, has been working with NRCan on the Canada G7 Working Group on Fusion Energy. One focus area is how G7 members can collaborate on making fusion energy widely available and a commercial reality. FusionMATTERS will monitor the G7 the activities and report back to you.



Canada will host *Tritium 2025*, a premier international conference on tritium and its uses in Ottawa, ON from Sep 21 to 26, 2025. *Tritium 2025* will have a strong focus on the use of tritium in fusion energy production, with over 300 papers having been submitted for presentation. They range from pure science to engineering aspects of fusion energy production, economics, international collaboration, regulations, and workforce development. The conference will also include opportunities to visit Cadian National Laboratories in Chalk River and an OPG CANDU reactor site where tritium is removed and stored. For more details, see <https://tritium2025.com/>

After a successful virtual conference in 2023, FECC and CN-FEASTD will once again host the **Canadian Workshop on Fusion Energy Science and Technology** (CWFE2025) this year. To accommodate the time zones across Canada we will spread the virtual conference over two days, **18, 19 November 2025**. Each day will comprise a keynote speaker, four presenters and a panel discussion to summarize what we learned. **Watch this space for more details.**



The University of Alberta has established the **Advanced Nuclear Energy (ANE) Initiative** to support the growing research and training needs for nuclear fission and fusion energy industry. For more information contact **Professor Ying Tsui** ytsui@ualberta.ca

General Fusion's Made-in-Canada Technology Achieves First Plasma in Cutting Edge Fusion Demonstration Machine



RICHMOND, British Columbia (March 11, 2025): General Fusion's Magnetized Target Fusion (MTF) demonstration, dubbed Lawson Machine 26 (LM26), has successfully formed a magnetized plasma in the machine's target chamber—a significant achievement for this world-first machine. LM26 is now forming plasmas daily as General Fusion's team optimizes performance in preparation for its next step: compressing plasmas with a lithium liner to create fusion conditions by heating and compression. **For more information see:**

<https://generalfusion.com/post/general-fusions-made-in-canada-technology-achieves-first-plasma-in-cutting-edge-fusion-demonstration-machine/>

Fusion Energy in the news

Fusion energy: Unlocking the power of the stars ...CBS

This 6:15 minute video covers fusion and breakthroughs at the National Ignition Facility (NIF) in Livermore, California and at fusion developer Commonwealth Fusion Systems. **Watch at:**

https://www.cbsnews.com/news/fusion-energy-unlocking-the-power-of-the-stars/?mc_cid=a0908b54fc&mc_eid=e6f4ef43a1

How the U.S. is losing ground to China in nuclear fusion ... MSNBC

This 13:28 minute video features sound bites from Professor Dennis Whyte, a member of FECC's Advisory Council. As well as Andrew Holland, CEO of the Fusion Industry Association who has presented at CWFEST 2023 and compares the state supported approach of China with the private sector commercialization of the west. Companies like Commonwealth Fusion supported by Bill Gates, Jeff Bezos, and Google, Helion Energy supported by Sam Altman and Microsoft and TAE and Canada's General Fusion all have presented at CWFEST are featured. What are their predictions for bringing energy to the grid? Bob Mumgaard (Commonwealth) and Michl Binderbauer (TAE) predict early 2030's while David Kirtley of Helion predicts 2028. **Watch at:**

https://www.cnbc.com/2025/03/16/the-us-is-falling-behind-china-in-nuclear-fusion-needed-to-power-ai.html?mc_cid=a0908b54fc&mc_eid=e6f4ef43a1

UKAEA and Eni partner to develop tritium fuel cycle facility

The United Kingdom Atomic Energy Authority and Italian multinational energy company Eni SpA have entered into a collaboration agreement to jointly conduct research and development activities in the field of fusion energy. The collaboration primarily starts with the construction of the world's largest and most advanced tritium fuel cycle facility. **For more information see:**

<https://www.gov.uk/government/news/ukaea-and-eni-partner-to-develop-tritium-fuel-cycle-facility>

UK Centre for Doctoral Training in Fusion Engineering

A dedicated UK Centre for Doctoral Training in Fusion Engineering will start educating its first cohort of students this September, equipping STEM post-graduates with the skills to support the UK's future fusion energy objectives. The CDT programme - led by the universities of Birmingham, Manchester, Sheffield, and Liverpool, in partnership with the Fusion Futures' FOSTER Programme at the United Kingdom Atomic Energy Authority (UKAEA) - will enable over 150 doctoral students to tackle the critical challenges of fusion energy. The Fusion Engineering CDT will start recruiting immediately for their first cohort to join at the beginning of the 2025-26 academic year...

<https://www.fusion-engineering-cdt.ac.uk/>

Recent podcast on the Status of Fusion

[Episode 71: Bob Mumgaard and Steven Cowley on the Critical Moment in Fusion](#)

A 30 minute discussion on the status and promise of fusion, featuring Bob Mumgaard (Commonwealth Fusion Systems) and Steven Cowley (Princeton Plasma Physics Laboratory)

Laboratory for Laser Energetics launches IFE-STAR ecosystem, workforce development initiatives

The IFE-STAR program will host its inaugural conference April 7 to 11, 2025, in Breckenridge, Colorado. This event brings together leading researchers from around the world to discuss the latest advancements and challenges in IFE development.

<https://ifestar.org/events/ife-star-conference-2025>

Fusion Power Associates

The presentations from Fusion Power Associates December 2-3, 2024 45th Annual Meeting and Symposium titled Fusion Energy: Progress, Challenges and Promise have been posted and can be found at:

http://firefusionpower.org/fpa_annual_meet.html

UKAEA's 14th Supplier Event



The date the 14th Suppliers' Event is **Thursday 24th April 2025**. It is an in-person event held at the Culham Campus. **Registration is now open at**

<https://ukaeaevents.com/uk-fusion-suppliers-events/>



Fusion Energy Week
May 5–9, 2025

Fusion Energy Week will connect the public with those currently working in fusion energy around the world in laboratories, universities, and companies and who support the pursuit of a clean, safe, and robust energy alternative. The event is scheduled for the week of May 5–9th ...

<https://usfusionenergy.org/fusion-energy-week>

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