

FUSIONMATTERS CANADA

As the Global pace to commercial fusion energy accelerates, we are entering a decisive phase of real-world solutions in technology readiness, licensing frameworks, supply-chain integration, and regional economic participation. In this issue we bring you a sampling of important events and resources from a Canadian perspective.



Building the Commercial Fusion Ecosystem

When: December 14–17, 2026

Where: Fairmont Le Château Frontenac — Québec City

The FPP 2026 conference will bring together dynamic players from various industrial sectors, cutting-edge technological development, and regional and community forces to move fusion energy from the realm of scientific research and development to commercial reality. This year's program focuses on concrete solutions for the deployment of fusion energy, moving beyond theory and toward implementation for baseload electricity, industrial heat, and grid stability.

Fusion energy development is entering a decisive phase — with licensing frameworks forming, supply chains maturing, and deployment decisions building momentum. FPP 2026 creates a global forum to take the pulse of this ecosystem, emphasizing:

- Technology readiness and the historical steps leading up to it over the past 75 years
- Licensing frameworks & safety-by-design
- Supply chain integration
- Regional economic participation
- Real-world deployment pathways
- Energy needs, transition, and fusion as a viable option

[Learn More](#)



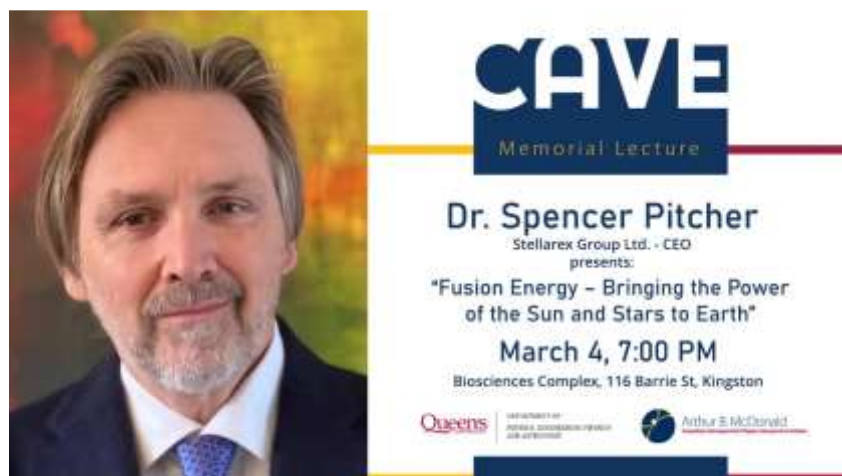
Fusion Energy Webinar: Defining a Fusion Power Plant — Gauss Fusion's GIGA Conceptual Design

Wednesday, March 4, 2026 2:00-3:30 pm CET (8:00 – 9:30 am EST)

Gauss Fusion has recently completed an independent expert review of its GIGA Fusion Power Plant conceptual design. GIGA is a 1 GWe stellarator-based power plant conceptual design aimed at commercial-scale delivery of fusion electricity to the grid in the early 2040s.

Register Here:

<https://iaea.webex.com/webappng/sites/iaea/meeting/register/7c695c7999444fb7ab27a90c41eb40de?ticket=4832534b000000087d2520a563566cdc6c7598a8c138e17f59e4ed3f6a33d732af36bc139ea6384f×tamp=1772484133510&RGID=rbcfcbea01760abf2de1d9351f81f7b04&isAutoPopRegisterForm=false>



Fusion energy is the process that powers the Sun and stars. Scientists have been working on harnessing this power for the benefit of mankind since shortly after the Second World War. Incredible progress has been made over the intervening decades. These advances are to the point now that this technology is on the verge of commercialization.

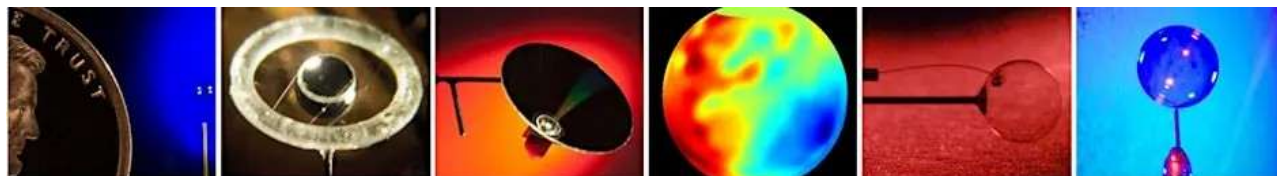
The recent technical advances have given rise to what is effectively a gold-rush towards fusion energy. Advances include breakthroughs in supercomputers, computer simulations using Artificial Intelligence, advanced materials, and particularly the advent of high temperature superconductors that are used to make the powerful magnets that contain the fusion fuel that is hotter than the centre of the Sun!

In this talk, the global status of fusion energy research will be discussed, and the roadmap for Canada's fusion energy development will be presented.

Register here: <https://www.zeffy.com/en-CA/ticketing/cave-memorial-lecture-fusion-energy-bringing-the-power-of-the-sun-and-stars-to-earth>



The U of Alberta's **Advanced Nuclear Energy Initiative** (ANEI) has recently launched a website. The address is <https://sites.engineering.ualberta.ca/anei/>



Manufacturing for Fusion Energy Targets

Friday 13 March 2026 at 9:00am EDT

In 2026, there were at least 32 organizations that needed targets and only one commercial supplier in the United States. A target is a small, custom-made, high-precision, high-value and consumable product. This event will focus on how Rochester and WNY firms could manufacture targets for at least ten fusion energy startups, who have collectively raised over \$2 billion in investment. The goal of the event will be to answer a series of questions. First, what does Rochester need to do to manufacture useful targets for fusion startups? Secondly, what machines or manufacturing processes are needed? Finally, how can local firms get involved in this market?

In-Person Tickets - [Click Here](#) **Virtual Tickets** - [Click here](#)



The conference will focus on the policies that are driving coordinated commercial fusion efforts forward - bringing together 350+ global leaders from government, industry, research, and academia to align on what comes next. **To Register click here**

<https://www.fusionindustryassociation.org/fia-annual-conference-2026/> **To view the Agenda**

https://drive.google.com/file/d/1Ay9Vcft8NpJZqyG_U04nkKR0Dg4jQCc/view



This directory is a keyway we showcase the fusion ecosystem:

- to UK and international government stakeholders
- at industry and supplier events
- in conversations with fusion companies, investors and partners
- at trade shows and international delegations
- to new audiences via our website and social media channels

In short, it's often the first-place people look to understand who is active in the UK fusion ecosystem - and what they can offer. Inclusion ensures your organisation is visible when those opportunities arise. <https://thefusioncluster.com/>

What we are reading

Fusion's Decisive Decade and Why Canada is Positioned to Lead

By Amitava Bhattacharjee – Stellarex

"On November 28, 2025, the federal and Ontario governments stood side by side to announce the creation of the Centre for Fusion Energy (CFE), a new public-private partnership. Canada is winning the fusion game by mastering the specialized engineering and tritium fuel supply that other nations lack" ... [Read](#) more.

If you like what you see in **FusionMatters** Canada, please let us know. Feel free to forward **FusionMatters** Canada to your colleagues or anyone else who needs to know more about fusion energy; encourage them to subscribe [here](#) or please share your suggestions for changes.

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