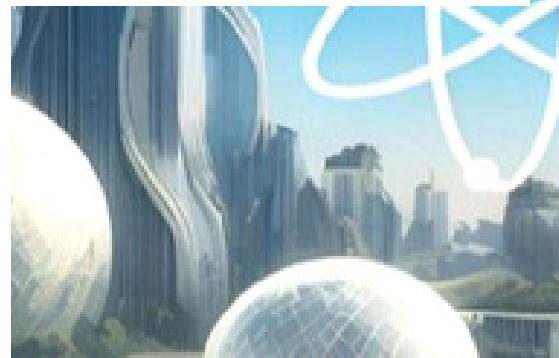


2026 Quarterly Updates & What's Ahead



Brilliant Energy Institute Hits the Ground Running

Discover all the exciting work BEI has been leading this year from engaging events, to new project updates, to solidifying new partnerships. Plus, a high-level look at what is still to come.

Events

Hydrogen

International Workshop on Hydrogen Production using Nuclear Energy

BEI co-hosted international experts from the International Energy Agency (IEA) Hydrogen TCP Task 44 and the Generation IV International Forum (GIF) for the third Hydrogen from Nuclear workshop in Toronto.

The program brought together leaders from research, industry, and government for technical discussions and hands-on site visits, including live demonstrations of mobile hydrogen power at Pearson Airport by Hone Inc. and Change Energy, and tours of Enbridge's hydrogen blending and combined heat and power facilities. Such engagements strengthen the global collaboration and showcase the provincial and national leadership in integrated and innovative hydrogen solutions and nuclear innovation.



Monthly Webinars

METASIS Hydrogen Project



BEI supports the launch of the METASIS 2026 Hydrogen Webinar Series, a monthly international program bringing together researchers, industry experts, and policymakers to explore advancements in clean hydrogen technologies. The opening sessions addressed the current realities of hydrogen deployment, including economics, safety, and regulatory frameworks, as well as emerging research in high-temperature electrolysis and system integration across UK and Nordic institutions.

Through this series, BEI helped foster global knowledge exchange and collaboration on innovations critical to scaling hydrogen in the transition to net-zero energy systems.



METASIS Webinar Series, in partnership with the Brilliant Energy Institute (BEI) at Ontario Tech University

Career Development

IAEA Career Pathways Session for Students & Young Professionals

BEI partnered with the International Atomic Energy Agency (**IAEA**) and North American Young Generation in Nuclear (**NAYGN**) Ontario Tech Chapter to host an engaging session highlighting career pathways, internships, and fellowship opportunities for students and early-career professionals in the nuclear and energy sectors.

The discussion provided practical guidance and global perspective, helping attendees better understand how to pursue international careers while reinforcing BEI's commitment to connecting students with world-class organizations and opportunities.



Fusion

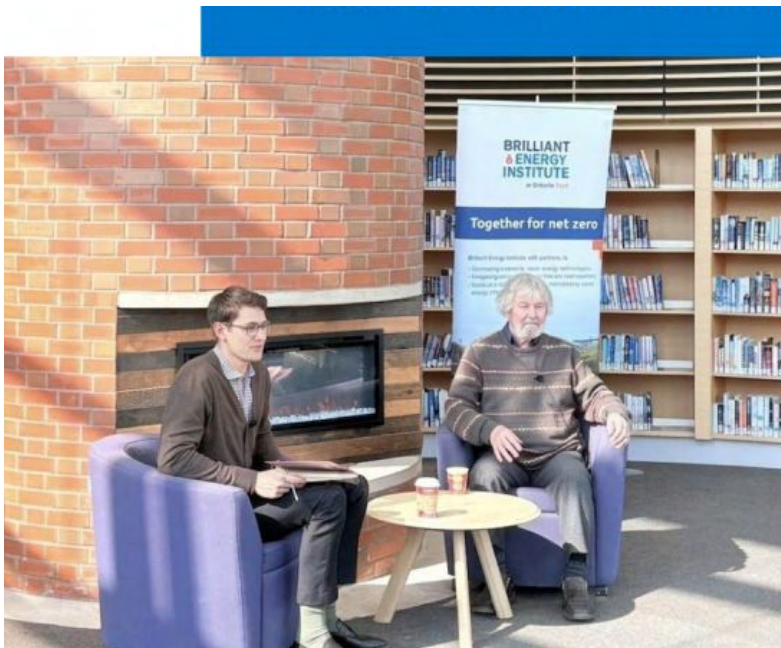
Bringing the Power of the Sun & Stars to Earth

BEI organized an engaging discussion at Ontario Tech University focused on the future of fusion energy and its potential role in Canada's clean energy landscape. Led by Dr. **Charles Spencer Pitcher**, CEO of **Stellarex** Group, the session provided insights into global progress in fusion research and explored opportunities for Canadian leadership in this emerging field. The strong turnout and thoughtful dialogue reflected growing interest across the academic and industry communities in advanced nuclear technologies and their role in achieving long-term decarbonization goals.



Decarbonization

Smart Heat, Zero Emissions - Decarbonizing Heat Fireside Chat



BEI hosted a fireside chat with **Michael Wigg** of the **Boltzmann Institute** exploring the critical role of thermal energy networks and district heating in achieving net-zero targets. The discussion highlighted not only the technological pathways for decarbonizing heat, but also the importance of effective change management and leadership in driving large-scale energy transitions. The session underscored the need to engage and educate the next generation of professionals who will be responsible for designing and implementing future low carbon energy systems.

Nuclear Isotopes

Industry Night with CNIC & OCNI

BEI co-hosted the Canadian Nuclear Isotope Council Industry Night at Ontario Tech University, welcoming over 100 students and young professionals from diverse academic backgrounds to engage directly with leaders in Canada's nuclear and isotope sectors. Delivered in collaboration with the Organization of Canadian Nuclear Industries (OCNI) and the Canadian Nuclear Isotope Council (CNIC), the event created valuable networking & learning opportunities, helping connect emerging talent with career pathways supporting continued growth of Canada's nuclear ecosystem.



Sustainable Mobility

2026 Automotive Innovation 6 Week Challenge Event Series

BEI supported the successful delivery of the **Automotive Innovation Challenge 2026**, where multidisciplinary Ontario Tech University student teams collaborated with industry partners to develop solutions to real-world mobility challenges. Over several weeks, participants demonstrated strong technical capability, creativity, and professionalism in their final presentations. The initiative, delivered in partnership with **Magna International**, **Toyota Canada**, the **Ontario Centre of Innovation**, and **OVIN**, provided students with valuable hands-on experience and strengthened connections between academia and the automotive innovation ecosystem.



Sustainable Transit

CUTRIC ProDev Workshop on Preparing Transit Agencies for Hydrogen



BEI contributed to national discussions on zero-emission transit by presenting at the **CUTRIC** workshop in Mississauga, in collaboration with **Enbridge**. The session focused on how transit agencies can prepare for hydrogen adoption, covering key considerations such as fueling infrastructure, safety requirements, and operational readiness. Morgan Rehme from BEI highlighted the role in advancing practical, real-world pathways for enabling the integration of hydrogen into Canada's heavy-duty and public transportation sectors.

New Memberships & Partnerships

Ontario Clean Technology Industry
Association (OCTIA)



Fusion Industry Association



Canadian Hydrogen Safety Centre
(CH2SC)



Innovation News Network



Looking Ahead

Information Sharing

Webinar on long-term behavior and storage of TRISO-based nuclear fuels

April

Cybersecurity & Nuclear Security

Meet the team at the CyberCon Conference in Vienna

May

Nuclear Research

Webinar on Subcritical Nuclear Systems in collaboration with the Philippines

June

Energy & Policy

Lunch of BEI Video Series

July

Knowledge Transfer

Hydrogen Safety Workshop at the IEEE SEGE 2026 Annual Conference

August

Conference & Exhibition

Hydrogen Business Council Annual Conference @ Ontario Tech

October