

2026 Quarterly Updates & What's Ahead



Brilliant Energy Institute Keeps the Momentum Going

Discover all the exciting work BEI has been leading through Q3, from engaging events, to new project updates, to solidifying new partnerships. Plus, a high-level look at what is still to come this year.

BEI Leadership Spotlight

BEI launched the Nuclear Leadership Series, a set of discussions led by **Dr. Jackson Ainsworth**, Energy and Communication Policy Lead, focusing on the growth of the Canadian nuclear industry and innovations.

BEI Nuclear Leadership Series | Episode 1
Communications, ft. Dr. Neil Alexander

July 2026

Tune in as **Jackson** sits down with **Dr. Neil Alexander** to explore the importance of developing effective communication for building public trust in nuclear technologies. This discussion highlighted the need to explain radiation, nuclear waste, technology costs, & environmental impacts in a clear manner, while also acknowledging the industry's challenges.



Neil Alexander (right) and Jackson Ainsworth (left) discuss nuclear communications in Episode 1 of the Nuclear Leadership Series

[Watch Full Video](#)

BEI Nuclear Leadership Series | Episode 2
Building Momentum, ft. Aiman Khan

August 2026



Aiman Khan (right) and Jackson Ainsworth (left) discuss developments in the nuclear sector in Episode 2 of the Nuclear Leadership Series

Join us as **Jackson** sits down with **Aiman Khan**, VP, Nuclear Engineering Services at Candu Energy Inc., an AtkinsRéalis company, who discussed the growth of Canada's nuclear sector and what it will take to deliver on the ambitions of the new federal nuclear strategy.

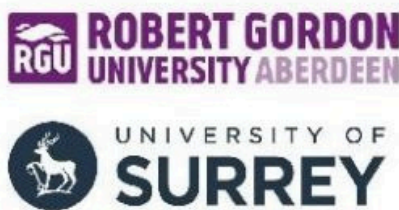
[Watch Full Video](#)

Events and Engagements

Knowledge Transfer **Hydrogen Webinar Series**

BEI continues to support the **METASIS 2026 Hydrogen Webinar Series**, a monthly international program bringing researchers, industry experts, and policymakers to explore hydrogen technologies advancements. The continued sessions explored innovations to reduce the cost and improve the efficiency of clean hydrogen production.

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.



[Register for the next METASIS Webinar](#)

New Partnerships

July 2026

CNIC x BEI | How Durham Region is Supporting International Isotope Innovation

BEI collaborated with the **Canadian Nuclear Isotope Council (CNIC)** to co-host a webinar on the Durham Regions; international isotope innovation, involving experts from the IAEA, Laurentis, Ontario Tech University, and Invest Durham

Through cross-sector discussion, this event highlighted how regional collaboration between Durham organizations can help accelerate innovation, strengthen Canada's isotope ecosystem, and position the country at the forefront of global advancements in nuclear science and clean energy technologies.

Webinar Recap



Lisa Stevens

IAEA



Lise Taylor

Laurentis Energy Partners



Les Jacobs

VPRI, Ontario Tech University



Eleodor Nichita

FEAS, Ontario Tech University



Ivan Cheung

Invest Durham



Melody Greaves (Moderator)

Canadian Nuclear Isotope Council

Conference

August 2026

BEI Supports Bringing Hydrogen Safety to IEEE SEGE 2026



SEGE 2026 attendees pose for a group photo outside Ontario Tech University's Energy Research Centre (ERC).

BEI is proud to support the delivery of **Smart Energy Grid Engineering (SEGE 2026)**, by connecting expert speakers who are helping advance hydrogen innovation, safety, and commercialization in Canada

Hosted by Professor **Hossam Gaber** at Ontario Tech University, SEGE 2026 is a international forum for researchers, engineers, and industry professionals, to share advancements in energy grid engineering. The conference brought experts from around the world to discuss emerging technologies and innovative solutions for modern energy systems.

Nuclear Security

Rethinking Nuclear Security in a Rapidly Changing World

September 2026

BEI invited **Dr. Sarah Case Lackner**, Director of Emerging Technologies Programme at the Vienna Center for Disarmament and Non-Proliferation, to speak on new cybersecurity threats in the nuclear sector which require resilient security strategies to combat. This event had 50 attendees registered from the Ontario Tech community.

The discussion was timely and thought provoking as the impacts of AI, quantum technologies, robotics, and drone manufacturing are creating new opportunities for cybersecurity threats across the nuclear sector, emphasizing the need for adaptive security systems.



Dr. Lackner (left) networks with members of the Ontario Tech community following the event.

IAEA Activities

Nuclear Forum

26th IAEA INPRO Dialogue Forum

August 2026

Ontario Tech University's professor, **Dr. Hossam Gaber** participated in the 26th INPRO Dialogue Forum both as a session chair and a presenter. He co-chaired Plenary Session 4 on Nuclear Hydrogen on August 25, 2026, alongside **Dr. Shripad Revankar** of Purdue University.

Dr. Hossam Gaber's participation in this forum highlighted Ontario Tech's expertise in nuclear energy applications beyond electricity generation.



Photo TINT - 26th INPRO Dialogue Forum

Nuclear Conference

September 2026

The Brilliant Energy Institute at IAEA 70th General Conference



BEI is proud to continue being part of **Team Canada** at the **IAEA 70th General Conference**. The discussions highlighted how Canada's nuclear expertise goes beyond technology development and involves building partnerships, strengthening capabilities, and delivering lasting benefits worldwide. As an **IAEA Collaborating Centre**, Ontario Tech and its Brilliant Energy Institute remain committed to advancing the nuclear sector nationally and internationally.

IAEA Meeting

September 2026

35th INPRO Steering Committee Meeting



35th INPRO Steering Committee Meeting

Brilliant Energy Institute was invited to attend the **35th IAEA INPRO Steering Committee Meeting**. This meeting reviewed INPRO progress, shared updates from Member States, and discussed programme priorities and future directions.

INPRO aims to advance the development of innovative nuclear energy solutions and support sustainable development within Member States.

New Memberships & Partnerships

Canadian Nuclear Isotope Council (CNIC)



20+ Organizations Engaged

Through co-hosted events, knowledge-sharing activities, and exploratory discussions, **Brilliant Energy Institute** continues to build relationships with key stakeholders and identify potential opportunities for future collaboration.

Here are some of our collaborators this past quarter:



And more...

Looking Ahead

G4SR-6 Conference

Nuclear SMRs beyond Baseload: a Workshop at G4SR-6
BEI chairs session on Nuclear Hybrid Energy Systems and Co-generation

UNWE MOU Signing

BEI is hosting and supporting Bulgarian UNWE delegations' visit to Ontario

Nuclear Webinar Series - ([Register Now](#))

Part 1: Lessons from Establishing a Subcritical Assembly in the Philippines
Part 2: Motivations for a Subcritical Assembly at Ontario Tech

Nuclear Leadership Series - ft. Fred Dermarkar

Explore Canada's nuclear legacy, developments and future opportunities

October

Nuclear Webinar Series - ([Register Now](#))

Part 3: Discuss Licensing Subcritical Assemblies and Small Reactors

Peterborough Engineering Symposium 2026 - ([Register Now](#))

BEI supports PES 2026 through speakers engagement and event promotion

COP31 UN Climate Change Conference

BEI is invited to speak at the 2026 COP31 in Antalya, Türkiye

Nuclear Leadership Series - ft. Dr. Les Jacobs

Training Tomorrow's Nuclear Leaders

November

IAEA International Symposium on Nuclear Energy R&D

Visit BEI's booth at the IAEA's International Symposium in Vienna, Austria

December