

# Brilliant Energy Institute

Office of the Vice President Research and Innovation

Ontario Tech University

## BEI Energy News

Weekly newsletter

September 27, 2024

### Top News

#### BEI News



#### **BEI and SEP Host Student Mixer at ACE Wind Tunnel, Showcasing Innovation and Opportunities**

The Brilliant Energy Institute (BEI) and the Student Enrichment Program hosted a student mixer at the ACE Climatic Aerodynamic Wind Tunnel this week. Students toured the core research and testing facility and had the chance to win a ride in the Climatic Wind Tunnel, simulating extreme weather conditions. The event also featured booths showcasing student clubs, Career Centre resources, the Ontario Tech Racing team, and opportunities at Ontario Tech University.



### **BEI Supports NAYGN Lunch & Learn, Highlighting Research and Career Pathways**

The Brilliant Energy Institute (BEI) Director, Jennifer Alsop, supported Ontario Tech University's North American Young Generation in Nuclear (NAYGN) Lunch & Learn event on September 24th. The event focused on "Research and Pathways to Employment" and offered insights into funding, processes, and how research can lead to diverse career paths beyond academia. Students from various programs gained valuable knowledge on the opportunities research can provide.

## **Energy Policy**

### **Nova Scotia's climate action plan falls short: report - CBC**

<https://www.cbc.ca/news/canada/nova-scotia/report-nova-scotia-climate-action-plan-falls-short-1.7331421>

Nova Scotia's climate action plan relies too much on technological changes, falling short of its goals. A new report from the Canadian Centre for Policy Alternatives highlights that while the plan is ambitious, it overlooks cultural shifts needed for more impact. The report critiques the province's 2022 climate plan, calling for stronger integration of climate policy across government and increased funding for cultural initiatives.

### **Tugboat powered by ammonia sails for the first time, showing how to cut emissions from shipping - Toronto Star (Paywall)**

[https://www.thestar.com/news/world/united-states/tugboat-powered-by-ammonia-sails-for-the-first-time-showing-how-to-cut-emissions-from/article\\_1484fd22-b140-5887-b8ff-ca54ecb8c955.html](https://www.thestar.com/news/world/united-states/tugboat-powered-by-ammonia-sails-for-the-first-time-showing-how-to-cut-emissions-from/article_1484fd22-b140-5887-b8ff-ca54ecb8c955.html)

A tugboat powered by ammonia sailed for the first time on the Hudson River, showcasing a

method to reduce carbon dioxide emissions in the maritime industry. Amogy, a New York-based startup, retrofitted the 67-year-old vessel to run on ammonia, a cleaner alternative to diesel. The project is part of efforts to develop zero-emission propulsion systems for ships. Amogy's system uses ammonia to produce hydrogen, powering the tugboat's fuel cell. The company has raised \$220 million in funding, with Amazon among its investors. The technology will expand to larger vessels in the coming years.

### **Why Energy is So Important to Canada – Understanding Alberta's Outsized Contribution to Confederation – Fraser Institute - EnergyNow**

<https://energynow.ca/2024/09/watch-understanding-albertas-outsized-contribution-to-confederation-fraser-institute/>

Alberta's economy grew by 5.0 per cent in 2022, contributing 17.9 per cent to Canada's total GDP growth. The province, which makes up 11.6 per cent of the population, saw significant private sector job growth, contributing 19.2 per cent of all new jobs. From 2007 to 2022, Alberta's net contribution to federal finances was \$244.6 billion. In 2022, Alberta's contributions helped avoid a potential \$16.9 billion federal shortfall.

## **Nuclear**

### **Wall Street warms to nuclear power as banks including Goldman Sachs reportedly back new push - Business Insider (Paywall)**

<https://www.businessinsider.com/nuclear-power-banks-support-boost-output-microsoft-larry-ellison-2024-9>

Wall Street is increasing its support for nuclear energy as 14 banks, including Goldman Sachs and Morgan Stanley, back a global effort to triple nuclear power capacity by 2050. The initiative aligns with climate goals set at COP28 and aims to address the decline in nuclear energy's share of global electricity production. Companies such as Microsoft and Oracle are also turning to nuclear energy to meet the rising power demands of AI systems.

## **Hydrogen**

### **Canada, Germany commit \$600M for hydrogen export in Atlantic Canada - CBC**

<https://www.cbc.ca/news/politics/canada-germany-hydrogen-auction-1.7281021>

Canada and Germany will each invest \$300 million in hydrogen export projects in Atlantic Canada. The goal is to produce hydrogen from wind energy and support Germany's energy needs. The project is part of a hydrogen agreement between the two countries. It aims to begin hydrogen exports by 2025. Critics raised concerns about the energy required for hydrogen production and its potential impact on local wind power use.

## **Indigenous Community and Engagement**

### **4 innovative Indigenous-led clean energy projects - CBC**

<https://www.cbc.ca/news/science/what-on-earth-indigenous-clean-energy-1.7334505>

Indigenous-led clean energy projects in Canada are growing to support a sustainable future. These projects focus on renewable energy sources, such as solar and wind, with Indigenous communities involved in decisions. The Meadow Lake Tribal Council's solar initiative in Saskatchewan is one example. More than \$15 billion in investments will fund these projects.

Indigenous clean energy operations are set to expand, with several projects beginning soon.

*Do you have any milestones, events, or news updates to share with the energy community?  
Email your submission to [BrilliantEnergy@ontariotechu.ca](mailto:BrilliantEnergy@ontariotechu.ca) for consideration in an upcoming edition.*

Thank you.

The Brilliant Energy Institute news team

[brilliantenergyinstitute.ca](http://brilliantenergyinstitute.ca)

*(With a little help from ChatGPT)*