

Brilliant Energy Institute

Office of the Vice President Research and Innovation
Ontario Tech University

BEI Energy News

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BEI News

Join us on June 10, 2024, as we welcome University of Calgary professor, Jason Donev, and explore the history of Oppenheimer and the intersection of history, cinema, and the nuclear sector as we discuss the intricacies of mythmaking and its impact on our perceptions of nuclear science and technology. To learn more about this event, and register, click here.

Building Infrastructure

B.C., feds fund First Nations clean energy projects

<https://canada.constructconnect.com/joc/news/infrastructure/2024/05/b-c-feds-funds-first-nations-clean-energy-projects>

~~The federal and British Columbia governments are jointly funding clean energy projects for 35 First Nations, committing \$9.8 million through the BC Indigenous Clean Energy Initiative (BCICEI).~~ The federal government and the government of British Columbia are jointly funding clean energy projects for 35 First Nations communities, committing \$9.8 million through the British Columbia Indigenous Clean Energy Initiative (BCICEI). This funding includes \$7.5 million from PacifiCan and Indigenous Services Canada, and \$2.3 million from the Government of B.C. Projects range from rooftop solar to large-scale wind generation. The province, NRT, and PacifiCan will also develop a new funding stream for small-scale renewable projects, supported by \$140 million announced in June 2023. Details will be available on the NRT website.

Indigenous and Community Engagement

Government of Canada and Government of Nunavut Launch the Nunavut Regional Energy and Resource

<https://www.canada.ca/en/natural-resources-canada/news/2024/05/government-of-canada-and-government-of-nunavut-launch-the-nunavut-regional-energy-and-resource-table-----.html>

The Government of Canada and the Government of Nunavut, alongside Indigenous partners, launched the Nunavut Regional Energy and Resource Table to promote sustainable economic growth. This initiative aims to unlock economic opportunities, create jobs, and advance climate action by leveraging public and private investments. [The collaboration aims to position Canada as a net-zero economy leader while supporting reconciliation and equity in Nunavut.](#) ~~The collaboration seeks to position Canada as a leader in the transition to a net-zero economy while supporting reconciliation and equity in Nunavut communities.~~

Building Infrastructure

Task force recommends generous energy discounts for low-income Nova Scotians -(Paywall)

<https://www.cbc.ca/news/canada/nova-scotia/energy-poverty-task-force-discounts-1.7217337>

The Nova Scotia Energy Poverty Task Force recommends the province fund a program to provide low-income households with a 50 per cent discount on home heating fuel and electricity bills. Economist Roger Colton, author of the report, highlighted the severe energy affordability crisis in Nova Scotia. The proposed program's cost to the province ranges from \$16.9 million to \$46.3 million annually, depending on participation rates. The task force also suggests an arrearage management program to forgive delinquent bills for qualifying households. Nova Scotia Power has not committed to forgiving unpaid bills but continues to raise rates to cover storm-related costs.

Nuclear

Bruce Power and partners to expand isotope capacity

<https://www.world-nuclear-news.org/Articles/Bruce-Power-and-partners-to-expand-isotope-capacit>

[Bruce Power and Saugeen Ojibway Nation announced a second isotope production line at Bruce 7 to double lutetium-177 \(Lu-177\) output and meet rising demand.](#) ~~Bruce Power and Saugeen Ojibway Nation announced the installation of a second isotope production line at Bruce 7 to double its lutetium-177 (Lu-177) production capacity, addressing rising demand.~~ This expansion, supported by collaborators including Isogen and ITM Isotope Technologies Munich SE, will begin commercial service later this year. Lu-177 is crucial in precision oncology for treating various cancers. Ontario Premier Doug Ford highlighted the expansion's significance for nuclear power and medical isotope production. The partnership, Gamzook'aamin aakoziwin, will benefit from increased production, enhancing global access to life-saving cancer treatments.

Hydrogen

\$900M B.C.-based hydrogen fuel network will create jobs while cutting emissions: Eby -(Paywall)

https://www.thestar.com/news/canada/british-columbia/900m-b-c--based-hydrogen-fuel-network-will-create-jobs-while-cutting-emissions-eby/article_0a1d889f-bf8c-5883-98cc-6a3bd3583782.html

The Canada Infrastructure Bank ~~is providing~~provided a \$337 million loan for a \$900 million hydrogen project by HTEC in British Columbia. The initiative, backed by the B.C. government, aims to build three hydrogen production plants and up to 20 fuelling stations, ~~mostly~~ in B.C. The project ~~is expected to~~will create nearly 300 jobs and reduce emissions by about 133,000 tonnes annually. The hydrogen network will support medium- and heavy-duty transport vehicles, promoting cleaner energy adoption. HTEC president Colin Armstrong emphasized the goal of establishing a comprehensive hydrogen ecosystem for the transport sector.

Canada making progress in creating flourishing hydrogen sector, but some challenges remain- (Paywall)

<https://www.theglobeandmail.com/business/article-canada-making-progress-in-creating-flourishing-hydrogen-sector-but/>

~~Canada is progressing in its hydrogen sector, with upcoming tax credits to boost development. Canada is making progress in its hydrogen sector, with upcoming tax credits set to boost development.~~ However, challenges remain, such as economic and regulatory issues in Eastern Canada and safety and infrastructure concerns in the West. ATCO Ltd.'s CEO highlighted Alberta's slow adoption of hydrogen blending and transport issues. Despite these hurdles, ATCO plans to expand its hydrogen projects, including a facility near Fort Saskatchewan and the Yellowhead natural -gas pipeline. Federal Natural Resources Minister Jonathan Wilkinson emphasized ongoing work and the importance of carbon capture technology in the energy transition.

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

Thank you.

The Brilliant Energy Institute news team

brilliantenergyinstitute.ca

(With a little help from ChatGPT)