

Brilliant Energy Institute

Office of the Vice President Research and Innovation
Ontario Tech University

BEI Energy News

Weekly newsletter

August 23, 2024

Top News

Energy Policy

Powering sustainability: the role of biomass in electrification - Canadian Biomass (Paywall)

<https://www.canadianbiomassmagazine.ca/powering-sustainability-the-role-of-biomass-in-electrification/>

Canada is expanding its electricity production to reduce reliance on fossil fuels. The goal is to achieve net-zero emissions by 2050. Bioenergy from Canada's forests will play a key role. Sweden's success with bioenergy shows its potential here. The WPAC conference in Victoria, B.C., on September 17-18, will discuss biomass and sector readiness.

Transforming municipal wastewater facilities into sustainability hubs - ReNew Canada

<https://www.renewcanada.net/feature/transforming-municipal-wastewater-facilities-into-sustainability-hubs/>

Canada plans to upgrade environmental infrastructure to meet housing and climate targets. The Federation of Canadian Municipalities estimates \$107,000 per housing unit for municipal assets, with more than 50 per cent for water and wastewater. Ecofactories can produce renewable energy and recover resources. The Milwaukee Metropolitan Sewerage District uses this approach. Canadian municipalities could adopt this model with policies, financial incentives, and pilot projects.

Nuclear

Clean energy at heart of MOU - SaskToday

<https://www.sasktoday.ca/provincial-news/clean-energy-at-heart-of-mou-9356476>

Saskatchewan Research Council (SRC) and Atomic Energy of Canada Ltd. (AECL) have signed an agreement. The agreement focuses on nuclear research and innovation. It will allow both organizations to share knowledge and work together. The Saskatchewan Government provided \$80 million in November 2023 for SRC to develop a microreactor. This project will help plan future deployments in the province.

Indigenous Community and Engagement

**In this tiny Indigenous community, a clean power project is driving the economy -
The Hamilton Spectator**

https://www.thespec.com/news/canada/in-this-tiny-indigenous-community-a-clean-power-project-is-driving-the-economy/article_3deaba83-8cf3-5d07-8d28-16e8e37b0508.html

A clean power project in Hot Springs Cove has reduced diesel reliance by 71 per cent. The hydro plant provides jobs and contributes to the local economy. The project received \$16 million in funding from federal, provincial, and other sources. It took three years to complete. Solar panels have been added, with plans for a transition from diesel.

Hydrogen

**Green energy projects eye underground salt caverns as key to hydrogen storage -
The Globe and Mail (Paywall)**

<https://www.theglobeandmail.com/business/industry-news/energy-and-resources/article-green-energy-projects-eye-underground-salt-caverns-as-key-to-hydrogen/>

A large salt dome on Newfoundland's west coast could become a major for hydrogen storage. The dome could hold more than 35 million cubic metres of hydrogen, making it one of the largest storage facilities in eastern North America. Underground salt caverns are being explored for hydrogen storage as they offer safer and more economical options than surface tanks. The initial development cost for a cavern is about \$20 million, with lower ongoing costs. This storage solution could support the growing demand for hydrogen in green energy projects.

Wind Energy

**Federal government grants first floating offshore wind power research lease to
Maine - Toronto Star (Paywall)**

https://www.thestar.com/news/world/united-states/federal-government-grants-first-floating-offshore-wind-power-research-lease-to-maine/article_692e3bdb-1a38-5d36-bb5d-e768a820b4aa.html

The federal government issued the first floating offshore wind research lease to Maine. The lease covers about 23 square miles in federal waters. It supports a research array with up to 12

turbines. The turbines could generate up to 144 megawatts of renewable energy. The University of Maine designed the platforms, and Diamond Offshore Wind will deploy them. Construction will begin in several years.

Solar Energy

Energix signs long-term solar power deal with Google - The Globe and Mail (Paywall)

<https://www.theglobeandmail.com/business/international-business/article-energix-signs-long-term-solar-power-deal-with-google/>

Energix Renewables, a renewable energy company, signed a long-term agreement with Google. The deal provides electricity and renewable energy credits from solar projects. Energix will supply 1.5 gigawatts of solar energy until 2030. The partnership may expand further. Google will also offer tax equity under the Inflation Reduction Act. Morgan Stanley advised Energix on the agreement.

*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

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(With a little help from ChatGPT)