Brilliant Energy Institute

Office of the Vice President Research and Innovation

Ontario Tech University

BEI Energy News

Weekly newsletter

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Top News

Energy Policy

Future-proofing Canadian chemicals for a net-zero world: report - Clean Energy Canada

https://cleanenergycanada.org/future-proofing-canadian-chemicals-for-a-net-zero-world-report/ Canada can produce and export chemicals needed for the energy transition. These include chemicals for EVs, solar panels, and heat pumps. Clean Energy Canada's report, *Catalyzing Change: Why Canada Needs a Roadmap to Net-Zero Chemistry*, highlights that emission reductions are necessary. Key export markets like the U.S. and the EU are ahead in this transition. The report mentions regulatory and funding issues as barriers. It calls for a net-zero roadmap to keep Canada's chemicals sector competitive. This sector supports 90,000 jobs and generates \$68.5 billion annually.

Vietnam allows big companies to buy clean energy directly to meet their climate targets - City News

https://toronto.citynews.ca/2024/07/24/vietnam-allows-big-companies-to-buy-clean-energydirectly-to-meet-their-climate-targets/_

Vietnam will let factories buy clean energy from wind and solar producers. This change helps companies like Samsung meet their climate goals. The government approved Direct Power Purchase Agreements, ending reliance on the state utility. This move is welcomed by foreign investors and boosts clean energy construction. Samsung and Apple see it as crucial for their renewable energy plans. Vietnam's grid needs a USD15 billion upgrade to support this shift. The new policy should increase renewable energy capacity and options for companies.

Feds give Great Lakes shipping company \$600k to study wind power, biofuels - CBC

https://www.cbc.ca/news/canada/sudbury/algoma-clean-shipping-fed-grants-1.7266741

Algoma Central Corp., a shipping, transportation, and real estate company in Ontario is getting

nearly \$600,000 in federal grants. The funds will support research into wind, biofuel, and other low-emission technologies. Shipping emissions make up a quarter of Canada's greenhouse gases. The company is testing blends of fossil fuels and biofuels. The grants are part of the Green Shipping Corridor Program, which allocated \$1.7 million for 14 projects aimed at developing cleaner ships and shore power technology.

Hydrogen

Aurora Hydrogen Receives More Than \$4 Million from Natural Resources Canada, NGIF Accelerator for Development of Low-Carbon Hydrogen - Business Wire

https://www.businesswire.com/news/home/20240724149124/en/Aurora-Hydrogen-Receives-Over-4-Million-from-Natural-Resources-Canada-NGIF-Accelerator-for-Development-of-Low-Carbon-Hydrogen

Aurora Hydrogen, based in Edmonton, Alberta, secured \$3 million from Natural Resources Canada and more than \$1 million from the NGIF Accelerator. This funding aims to scale its lowcarbon hydrogen production technology. The funds will help Aurora scale its methane-tohydrogen technology without emissions or water use. This project aligns with Canada's clean energy goals, with operations expected to begin soon.

Indigenous Community and Engagement

Indigenous-led hydrogen project in B.C. seeks to supply transportation sector with decarbonization solutions - The Globe and Mail (Paywall)

https://www.theglobeandmail.com/business/article-salish-elements-hydrogen-bc-transportation/ An Indigenous-led hydrogen project in B.C. aims to supply the heavy-duty transportation sector with decarbonization solutions. Salish Elements, a majority Indigenous-owned company, plans to produce green hydrogen through water electrolysis in the Lillooet area. The \$110-million facility aims to supply 3,500 tonnes of hydrogen annually, starting operations in spring 2026. The chief of Xaxli'p supports the project for its balance of economic benefits and environmental protection. Salish Elements plans to begin construction in spring 2025, pending final investment decisions by the end of 2024.

Nuclear

More funding for Rolls-Royce space microreactor - World Nuclear News

https://www.world-nuclear-news.org/Articles/More-funding-for-Rolls-Royce-space-microreactor Rolls-Royce has secured an additional GBP4.8 million from the UK Space Agency to advance its space nuclear microreactor. The funding is part of the GBP33 million National Space Innovation Programme. Over the next 18 months, Rolls-Royce will work with the University of Oxford and Bangor University to develop the microreactor system. An initial flight demonstration is anticipated by the end of the decade aiming to demonstrate readiness for space nuclear power.

Canada to turn radioactive sources from Thailand into cancer treatments - World Nuclear News

https://www.world-nuclear-news.org/Articles/Canada-to-turn-radioactive-sources-from-Thailand-

Canadian Nuclear Laboratories is recycling radium-226 from Thailand. The actinium-225 produced will be used in cancer treatments. This is part of the IAEA's Global Radium-226 Management Initiative. Actinium-225 is rare and effective in targeted radiotherapy. Over the past year, 70 packages of radium-226 were sent to Canada. More transfers are planned from El Salvador, Fiji, and Slovenia.

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)