

Brilliant Energy Institute

Office of the Vice President Research and Innovation
Ontario Tech University

BEI Energy News

Produced twice weekly by the Brilliant Energy Institute

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Top News

Manitoba plans to use wind power to double or triple energy-generating capacity in the next two decades - CBC News

<https://www.cbc.ca/news/canada/manitoba/manitoba-energy-policy-1.6921091>

The Province of Manitoba plans to double or triple its electricity capacity by 2040, relying on wind farms and green power without building new hydroelectric dams. According to their new roadmap, *Manitoba's Energy Roadmap*, the Province aims to boost capacity from 6,600 MW to between 10,000 MW and 16,000 MW. Manitoba Hydro will purchase wind power from private firms and remain the sole energy provider. A proposal for a \$3 billion solar-panel manufacturing campus project near Winnipeg by German manufacturer RCT Solutions, producing 10,000 MW annually, is favored by the Province. Read the roadmap here:

https://www.gov.mb.ca/jec/files/mb_energy_roadmap.pdf

Brilliant Energy Institute News

BEI engages campers on energy and conservation - BEI LinkedIn

<https://www.linkedin.com/feed/update/urn:li:activity:7092141408966381570>

BEI's mission includes building a future clean energy workforce and helping people make more sustainable energy decisions. On July 19, the BEI team hosted two sessions with Ontario Tech University STEAM and science campers, engaging more than 60 six to nine-year-olds and then 16 campers, aged 11 to 14, in how energy works and the path to a more sustainable future. The campers got a chance to share their own ideas as they brainstormed creative and innovative ways to develop clean energy systems and to conserve energy. BEI will be back in August at the university's Turtle Island summer camp, designed to explore the relationship between STEAM, Indigenous peoples, and the land.

Ontario Tech News

Ontario Tech's founding Faculty of Energy Systems and Nuclear Science Dean shares career journey on podcast - BEI LinkedIn

<https://www.linkedin.com/feed/update/urn:li:activity:7091840174371860480>

Dr. George Bereznai is the founding Dean of Ontario Tech University's Faculty of Energy Systems and Nuclear Science (now part of the Faculty of Engineering and Applied Science) and was the first faculty hire before the university opened in 2003. Before he joined Ontario Tech, Dr. Bereznai led creation of the nuclear training program at Ontario Power Generation predecessor, Ontario Hydro, and later with Atomic Energy of Canada Limited to develop nuclear engineering curriculum for undergrad and graduate programs in Thailand. Over several decades, Dr. Bereznai made contributions that today, serve as the foundation for the future of nuclear in Canada and globally. Listen to Osama Baig interview Dr. Bereznai to learn more about his life and some key moments in nuclear history.

Energy Policy

Algonquin Power was a go-to green stock. Now, it faces pressure to jettison its clean energy assets - The Globe and Mail (Paywall)

<https://www.theglobeandmail.com/investing/markets/inside-the-market/article-algonquin-power-stocks-clean-energy/>

Algonquin Power & Utilities Corp., a Canadian headquartered utility firm with assets in North America, is facing investor scrutiny over its green future due to rising interest rates and changes to US tax credits. The stock, known for growth in regulated electricity and clean power generation, suffered setbacks, including a 40 per cent dividend cut and the cancellation of a key US expansion deal. Algonquin announced it is contemplating selling its renewable power business, constituting about 20 per cent of its assets, to shift towards becoming a stand-alone regulated utility. The company's decision is set to be announced in August with the second-quarter financial results.

Britain to grant hundreds of new oil and gas licences - The Globe and Mail (Paywall)

<https://www.theglobeandmail.com/business/industry-news/energy-and-resources/article-britain-to-grant-hundreds-of-new-oil-and-gas-licences-ignoring-calls/>

The UK Government plans to grant hundreds of new oil and gas licenses in the North Sea to achieve energy independence, including a pledge to invest £20 billion in carbon capture and storage projects. UK's Prime Minister Rishi Sunak says it's vital to bolster their energy security and capitalize on that independence to deliver more affordable, clean energy to British homes and businesses. This plan comes at a time when the government is pressured to roll back expensive environmental commitments amid opinion polls predicting the defeat of the Conservative Party in the next general election.

Indigenous and Community Engagement

Enbridge and Bad River Band appeal Line 5 court ruling in Wisconsin - Energy Now

<https://energynow.ca/2023/07/enbridge-bad-river-indigenous-band-both-appealing-line-5-court-ruling-in-wisconsin/>

Enbridge Inc., a multinational pipeline and energy company, and the Bad River Band of the Lake Superior Chippewa are appealing to a Wisconsin court ruling on the Line 5 pipeline. The dispute centres on Enbridge's alleged trespassing on Indigenous territory since 2013, which the company disagrees with. The court granted Enbridge three years to reroute the pipeline around the Indigenous territory, but the Band wants an early shutdown. Both sides filed appeals with the US Court of Appeals for the Seventh Circuit, seeking a resolution. The situation remains unresolved as legal efforts continue.

Energy Systems

Electric Vehicles

Stellantis, LG begin hiring staff for future Windsor electric vehicle plant - Toronto Star

https://www.thestar.com/business/stellantis-lg-begin-hiring-staff-for-future-windsor-electric-vehicle-plant/article_2f2c10a7-ba36-5536-a80d-16a0ff8dc9dc.html

Stellantis, a multinational automaker, and LG Energy Solutions, a South Korean battery manufacturer, are hiring for their upcoming \$5 billion electric vehicle battery factory in Windsor, Ont. Their joint venture, NextStar Energy, is recruiting 130 new employees, including 30 for initial operations and 100 engineers and technicians for an international training program starting in October. The hiring follows the new deal reached with the Canadian government to match the incentives offered by the US' Inflation Reduction Act, providing performance incentives of up to \$15 billion over 10 years. The factory is expected to be completed and begin operations next year.

Canada and British Columbia invest in electrification of public transit - Infrastructure Canada

<https://www.canada.ca/en/office-infrastructure/news/2023/07/the-governments-of-canada-and-british-columbia-invest-in-electrification-of-public-transit-in-british-columbia.html>

The Government of Canada, along with British Columbia, will jointly invest more than \$395.5 million in supporting public transit in the province. BC Transit plans to acquire up to 115 battery electric buses and install 134 charging points across the province. This initiative aligns with Canada's objective of having 5,000 zero-emission public transit and school buses on the roads by 2026. It also contributes to British Columbia's CleanBC emission-reduction goals and BC Transit's transition to an all-electric fleet by 2040. The project aims to reduce greenhouse gas emissions, improve services, and encourage greater public transit usage.

Technologies

Nuclear

Vogtle 3 begins commercial operation - World Nuclear News

<https://www.world-nuclear-news.org/Articles/Vogtle-3-begins-commercial-operation>

Vogtle 3 began commercial operation at the Alvin W. Vogtle Electric Generating Plant in Georgia, marking the US' first newly constructed nuclear plant in more than 30 years. Georgia Power announced the plant is now supplying customers with clean, reliable energy after achieving critical milestones in March and April 2023. Vogtle Unit 4 is nearing completion, with fuel loading authorized and service expected in late 2023 or early 2024. The AP1000 reactor technology, already operational in China, brings modular benefits and prepares Westinghouse for future projects. Co-owned by utilities Georgia Power, Oglethorpe Power, MEAG Power, and Dalton Utilities, Vogtle aims to lead clean energy generation for years to come.

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)