

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

Deep Sky Labs to Establish World's First Carbon Removal Innovation Center in Innisfail, Alberta - Calgary Tech

<https://calgary.tech/2024/08/07/deep-sky-carbon-removal-innovation-centre-innisfail-alberta/>

Deep Sky Labs, a Canadian carbon removal project developer, will build a carbon removal centre in Innisfail, Alberta. It will be the world's first cross-technology carbon removal centre. The facility will test and develop carbon dioxide removal technologies. The centre will be situated in a five-acre industrial park and will create 80 construction jobs and 15 permanent operational jobs. Operations will start this winter. The project will invest more than \$110 million into the community over the next decade.

Emerging Green Builders Develop Profitable and Sustainable Construction Models - National Observer (Paywall)

<https://www.nationalobserver.com/2024/08/07/all-sudden-were-cool-green-builders-draft-cleaner-and-profitable-blueprint-construction>

New developers and architects are creating net-zero and green retrofit designs. Canada's Green Buildings Strategy aims to decarbonize millions of buildings. It proposes modernizing energy efficiency standards and supporting heat pumps. Some gaps remain in addressing fossil gas use. Builders like Natalie Voland are leading with innovative projects. Her net-zero retrofit of Montreal's Complexe du Canal Lachine is financed through a \$3 million loan. Toronto's Division 41 police station will be Canada's first net-zero police station and will open in 2026.

Energy Department awards \$2.2B to strengthen the electrical grid and add clean power - Toronto Star (Paywall)

https://www.thestar.com/news/world/energy-department-awards-2-2b-to-strengthen-the-electrical-grid-and-add-clean-power/article_cc342725-0489-569a-a76d-e399b6042011.html

The Department of Energy announced \$2.2 billion for eight projects in 18 states. This funding will build more than 600 miles of new transmission lines. It will also upgrade 400 miles of existing lines. Projects include renewable energy upgrades in California and a new line in Montana and North Dakota. The Virginia Department of Energy will get \$85 million for clean electricity at data centers. These investments aim to provide reliable power for 56 million homes and businesses.

Solar Energy

Solar rebate program encouraging Islanders to adopt green energy - PEI Canada

https://www.peicanada.com/eastern_graphic/solar-rebate-program-encouraging-islanders-to-adopt-green-energy/article_046d1270-5403-11ef-b072-eb1e5753933c.html

The Solar Electric Rebate Program by EfficiencyPEI is growing. One family installed solar panels three years ago. They received a \$9,800 rebate and cut energy costs. The program has provided rebates for 3,674 installations since March 2020. Islanders save about \$2,045 annually. The rebate covers 40 per cent of installation costs. Participants sign a Net Metering agreement with Maritime Electric. The program sees more applicants each year.

This apartment building needed new balcony railings. So the landlord put in solar panels - Toronto Star (Paywall)

https://www.thestar.com/real-estate/this-apartment-building-needed-new-balcony-railings-so-the-landlord-put-in-solar-panels/article_3dadd012-3327-11ef-92a6-9fd197b72ef9.html

A Downsview apartment building replaced its balcony railings with solar panels. The panels, manufactured by Mitrex, are stronger than typical cladding and generate clean energy, helping to reduce the building's carbon footprint.. The installation will be done by November 2024. It will generate approximately 100 megawatt-hours of power annually, covering about seven percent of the building's total energy consumption. The federal Clean Technology Investment Tax Credit lowered costs.

Electric Vehicles

Potential China EV tariffs welcomed by GM Canada as BYD looks to enter market - Financial Post

<https://financialpost.com/commodities/energy/electric-vehicles/china-ev-tariffs-welcomed-gm-canada-byd-enter>

Potential tariffs on Chinese electric vehicle (EV) imports are welcomed by GM (General Motors) Canada. The company supports the government's consideration of tariffs to ensure fair competition. The auto industry backs tariffs to protect Canadian EV investments. Climate groups worry tariffs might reduce affordable EV options. GM plans to reintroduce the Chevy

Bolt next year. They are also focusing on the new Chevy Equinox EV. Despite some industry pullbacks, EV sales have increased.

Indigenous Community and Engagement

Wind, solar projects approved at Kitikmeot gold mine — with wildlife measures - CBC

<https://www.cbc.ca/news/canada/north/back-river-energy-centre-kitikmeot-gold-mine-approved-1.7286874>

Wind and solar projects at Kitikmeot gold mine in Nunavut are approved. B2Gold, a mining company, says the energy centre could cut emissions by up to 50 per cent. The project includes wind turbines, solar panels, and battery storage. Turbines will shut down during caribou and bird migrations. Wildlife concerns from residents have been addressed. The project will be operational within 10 years.

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)