

Brilliant Energy Institute

Office of the Vice President Research and Innovation
Ontario Tech University

BEI Energy News

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Top News

Ontario announces up to 4,800MW new nuclear to power Ontario's growth – Government of Ontario

<https://news.ontario.ca/en/release/1003240/province-starts-pre-development-work-for-new-nuclear-generation-to-power-ontarios-growth>

Ontario's Minister of Energy, Todd Smith, pledged support for nuclear expansion on the Bruce Power site as part of the province's long-term plans for economic growth and achieving net-zero goals. The provincial government is starting pre-development work to site the large-scale nuclear build and Bruce Power will begin community consultations and conduct the environmental assessment to determine the feasibility of siting up to 4,800 megawatts of new nuclear generation on its current site. These efforts will take several years to complete and are a pre-requisite for Canadian Nuclear Safety Commission's licensing process for new large-scale nuclear stations.

Energy Minister to hold a press conference in nuclear host community, tomorrow – Government of Ontario

<https://news.ontario.ca/en/advisory/1003247/minister-smith-to-hold-a-press-conference>

One day after the Bruce Power new nuclear announcement, Ontario Energy Minister Todd Smith has scheduled a press conference for Friday, July 7 at 10 a.m. in Clarington, Ont., the host community of the Darlington Nuclear Generating Station.

Brilliant Energy Institute News

BEI and Canadian think-tank CGAI team up for another energy podcast – BEI LinkedIn

<https://www.linkedin.com/feed/update/urn:li:activity:7082783758554173440>

Each quarter, the Brilliant Energy Institute (BEI) and the Canadian Global Affairs Institute (CGAI) produce a podcast to talk about the latest issues and events in the energy sector, often focusing on the nuclear industry. Nuclear is a powerhouse electricity producer for Ontario with

up to 60 per cent of the province's power generated by nuclear. Increasingly, Western Canada is considering how to use nuclear to decarbonize its industry and energy systems, so there's always lots to talk about for CGAI CEO Kelly Ogle and BEI Executive Director Jacquie Hoorweg. The pair will release a new episode soon discussing the latest Ontario news, including Ministry of Energy's announcement on potential for another 4,800 MW at Bruce Power.

If you missed our last two episodes, have a listen here:
West Meets East, Episode 1: <https://bit.ly/3Nybp7S>
West Meets East, Episode 2: <https://bit.ly/3XDd2WI>

Energy Policy

Canada announces up to \$15 million to help communities and businesses adapt to a changing climate - Natural Resources Canada

<https://www.canada.ca/en/natural-resources-canada/news/2023/06/natural-resources-canada-announces-up-to-15-million-to-help-communities-and-businesses-adapt-to-a-changing-climate.html>

The Government of Canada launched the Climate Change Adaptation Program, a five-year initiative to help regions and sectors adapt to a changing climate. The program, in line with Canada's National Adaptation Strategy, will fund projects focusing on adaptation skills, economics, natural resources, and emerging adaptation issues. More than \$15 million in funding is available for cost-shared projects, open to Indigenous organizations, academic institutions, NGOs, industry associations, businesses, and government entities. Virtual information sessions will be held in July 2023 to provide further information.

US plans US\$1 billion of subsidies for clean hydrogen users as production tax credit fails to attract sufficient procurers – Hydrogen Insight

<https://www.hydrogeninsight.com/production/us-plans-1bn-of-subsidies-for-clean-hydrogen-users-as-production-tax-credit-fails-to-attract-sufficient-offtakers/2-1-1482254>

The US government plans to introduce US\$1 billion in subsidies to promote clean hydrogen usage through its US\$7 billion H2Hubs program. The subsidies aim to address the lack of procurers hindering hydrogen projects. The US Department of Energy (DOE) is considering support options such as *Contracts for Difference* and fixed payments to demand-side projects. The subsidies will be linked to the H2Hubs initiative, targeting six to 10 regional hubs. The DOE is exploring partnerships with independent implementing entities to effectively distribute the subsidies and stimulate private investment, following similar efforts by the European Hydrogen Bank, UK, and Germany.

Indigenous and Community Engagement

Indigenous Resource Network launches Ownership is Reconciliation campaign- Energy Now

<https://energynow.ca/2023/07/indigenous-resource-network-launches-ownership-is-reconciliation/>

Calgary's Indigenous Resource Network (IRN) announced its "Ownership is Reconciliation" campaign, shifting focus from its previous "Ownership Changes Everything" campaign. The initiative highlights Indigenous ownership in resource projects and aims to promote reconciliation. IRN advocates for a National Indigenous Guaranteed Loan program, providing Indigenous communities with capital for equitable participation. The campaign seeks to create shared prosperity and sustainable employment opportunities through collaboration between Indigenous and non-Indigenous stakeholders. The IRN invites support to foster a future where reconciliation and resource development converge harmoniously.

Energy Systems

Battery Systems

EV battery plant in Windsor back on as Stellantis reaches 'binding' deal with government massive tax breaks - Energy Now

<https://energynow.ca/2023/07/ev-battery-plant-in-windsor-back-on-as-stellantis-reaches-binding-deal-with-government-massive-tax-breaks/>

Stellantis and LG Energy Solution reached a financing deal with the governments of Canada and Ontario, allowing construction to resume on their electric vehicle battery plant in Windsor, Ont. The plant, named NextStar Energy, was put on hold earlier this year as the companies sought additional government funding to match the incentives offered in the US. Under the agreement, the Canadian government will provide one-third of the project's costs, ensuring a level playing field with the US Inflation Reduction Act. The \$5 billion plant is expected to create thousands of jobs and establish Canada as a leader in the global electric vehicle supply chain. Production is scheduled to begin next year with a capacity of more than 45 gigawatt hours.

Building Infrastructure

Canada supports mass timber building construction in Vancouver, BC - Natural Resources Canada

<https://www.canada.ca/en/natural-resources-canada/news/2023/07/government-of-canada-supports-groundbreaking-mass-timber-building-construction-in-vancouver-bc.html>

The Government of Canada allocated \$3.5 million to support the construction of 2150 Keith Drive, a hybrid mass timber commercial office building in Vancouver, BC. This funding, provided through the GCWood Program, promotes the use of wood as a low-carbon construction material. The 10-storey building will showcase advanced mass timber systems and a unique honeycomb-shaped exterior design. With a focus on sustainability, the project aims to obtain a minimum Leadership in Energy and Environmental Design Gold certification. Construction is set to be completed by 2025, contributing to job creation and the advancement of eco-friendly building practices.

Canada and FCM support creation of CAANZero, enabling municipalities to advance climate action - Natural Resources Canada

<https://www.canada.ca/en/natural-resources-canada/news/2023/07/government-of-canada-and-fcm-support-creation-of-caanzero-enabling-municipalities-to-advance-climate-action.html>

The Government of Canada and the Federation of Canadian Municipalities (FCM) have invested more than \$175,000 in MaRS Discovery District's Municipal Impact Investment Fund initiative. Led by MaRS, the Climate Action Accelerator to Net Zero (CAANZero) will assist small and medium-sized municipalities in achieving their climate targets through retrofit projects. The funding will support the development of a governance and operational structure for CAANZero, including exploring approaches to attract private capital investment. This investment aims to accelerate job-creating retrofit projects, reduce emissions, and deliver clean air across the country.

Manufacturing

Largest biochar production plant in North America contributes to Canadian net-zero goals - Natural Resources Canada

<https://www.canada.ca/en/natural-resources-canada/news/2023/07/largest-biochar-production-plant-in-north-america-contributes-to-canadian-net-zero-goals.html>

The Canadian government allocated \$10.5 million to CARBONITY, a joint venture between Airex Énergie, SUEZ, and Groupe Rémabec, to establish a plant for transforming wood residues into biochar products that sequester carbon. Natural Resources Canada will contribute \$7.5 million through the Investments in Forest Industry Transformation program, while Regional Economic Growth through Innovation program will provide a \$3 million repayable contribution for digital production equipment. The project aims to enhance the environmental performance of natural resource sectors, create jobs, and boost the biochar market. CARBONITY's plant in Port-Cartier will be North America and Europe's largest biochar production facility, offering decarbonization solutions and economic growth opportunities.

Thank you.

The Brilliant Energy Institute news team

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(With a little help from ChatGPT)