

Brilliant Energy Institute

Office of the Vice President, Research and Innovation

Ontario Tech University

BEI Energy News

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BEI News

Accelerating Automotive Innovation ACE x OVIN Innovation Garage Challenge

The ACE x OVIN Accelerating Automotive Innovation Garage Challenge, featuring Magna and Toyota, highlighted collaborative efforts in automotive technology. The events, centered around sustainability in the automotive industry, have provided students with the rich opportunity to connect with industry, address a challenge statement, and network with their peers. Industry experts and innovators mentored Ontario Tech students to develop sustainable solutions in electrification and safety, showcasing solutions that are capable of advancing vehicle technology. The events emphasized the importance of student innovative ideas and problem-solving skills.

Energy Policy

‘Retaliatory pipelines’: Push to export crude away from U.S. intensifies amid tariffs – Global News

<https://globalnews.ca/news/11065693/canada-pipelines-exports-tariffs/>

Canada is intensifying its push to redirect oil and natural gas exports away from the U.S. in response to President Trump's 10 per cent tariff on energy imports. Industry advocates call for "retaliatory pipelines" to diversify trade and strengthen Canada's economic independence. This move aims to safeguard Ontario and Quebec's energy supply and establish Canada as a global energy leader amidst heightened trade uncertainties.

Ottawa to finance half of costs to modernize home-grown Candu nuclear power reactor

<https://www.theglobeandmail.com/business/article-ottawa-to-finance-half-of-costs-to-modernize-home-grown-candu-nuclear/>

The federal government will cover half the costs of modernizing Canada's CANDU nuclear reactors to enhance energy efficiency and reduce emissions. This investment underscores Ottawa's commitment to sustainable energy and the advancement of domestic nuclear technology. The funding will support research and development to extend the lifespan of existing reactors and improve their performance. Industry experts say the modernization effort will help maintain Canada's leadership in nuclear technology while meeting growing energy demands.

Documents reveal over 1,000 potential infractions left unchecked by B.C.'s energy regulator – The Narwhal

<https://thenarwhal.ca/bc-energy-regulator-oversight-pattern-2025/>

Documents obtained by The Narwhal and the Investigative Journalism Foundation reveal over 1,000 unchecked potential infractions by B.C.'s energy regulator, where inspectors often marked environmental violations as compliant. Despite finding serious issues such as dead wildlife and hazardous spills at oil and gas sites, these infractions were regularly overlooked, contributing to a pattern of lax enforcement. The investigation highlights systemic issues within the BC Energy Regulator, funded largely by the industry it oversees, raising concerns about its effectiveness in protecting public safety and the environment.

Ontario to impose 25% tariff on power to three U.S. states – Financial Post

<https://financialpost.com/commodities/energy/ontario-impose-tariff-power-3-us-states>

In retaliation for U.S. tariffs, Ontario Premier Doug Ford announced a 25 per cent tariff on electricity exports to 1.5 million homes in Minnesota, Michigan, and New York. This move accompanies broader economic sanctions. The measures are part of a larger Canadian response that includes imposing counter-tariffs on billions of dollars of U.S. goods, escalating a trade dispute that could impact key industries on both sides of the border.

Building Infrastructure

Once a high-profile emitter, Port of Belledune wants to be a green energy hub – CBC

<https://www.cbc.ca/news/canada/new-brunswick/port-belledune-green-park-1.7471462>

The Port of Belledune in New Brunswick is pivoting to green energy by planning to use wind, solar, and hydrogen to phase out coal. The project, which includes potential small modular nuclear reactors, has local support and promises significant job creation. However, environmental groups express concerns, particularly about the sustainability of biomass energy.

Energy Systems

Report: How climate insights drive a more reliable renewable energy transition – World Meteorological Organization

<https://wmo.int/news/media-centre/report-how-climate-insights-drive-more-reliable-renewable-energy-transition>

A new report highlights the critical role of climate insights in enhancing the reliability and resilience of renewable energy systems. Produced by the World Meteorological Association (WMA), International Renewable Energy Agency (IRENA), and the Copernicus Climate Change Service (C3S), the report stresses that understanding climate variability is essential for planning electricity supplies and demands, and for developing future energy infrastructure. It highlights the impact of natural climate phenomena like El Niño on renewable energy sources and discusses how diversified energy solutions and climate-informed strategies can help meet global energy efficiency and renewable capacity targets by 2030.

You've got the power: Nunavummiut learn to install cabin solar panels – Nunatsiaq News

<https://nunatsiaq.com/stories/article/youve-got-the-power-nunavummiut-learn-to-install-cabin-solar-panels/>

In Iqaluit, Nunavummiut is embracing the opportunity to learn solar panel installation through Relay Education's free five-day course, aimed at reducing the community's

reliance on diesel. As the Arctic days grow longer, locals, ranging from skilled tradespeople to beginners, are gathering at the Nunavut Research Institute to gain hands-on experience and essential safety training. The program, which will also run in Cambridge Bay and Rankin Inlet, offers insights into securing government grants for sustainable energy projects, highlighting a significant shift toward renewable energy in the region.

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)