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Ontario Streamlines Environmental Approvals for CHP projects in Ontario



The MECP has released an [environmental registry posting](#) that proposes to streamline approvals for CHP projects, including exemptions in lower risk facilities for both reciprocating and turbine CHP projects under 500 kW, and a streamlined sector registry (EASR) approval for CHP projects up to 25 MW. The proposal also includes streamlined approvals for biomass based CHP projects, with exemptions for projects between 50 kW and 150 kW, and a streamlined EASR for biomass based CHP under 3 MW.

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CHP Engine from Timmins and District Hospital

Natural Resources Canada

Natural Resources Canada (NRCan) Funding for Industrial Energy Management

Natural Resources Canada's Industrial Energy Management program is now accepting applications for funding until November 20 at 23:59 EST for projects to be completed by March 31, 2022. To request the application package, send an email to RFP for Industry. Financial assistance is available to help fund an industrial facility's energy management project. Natural Resources Canada (NRCan) will provide financial assistance of up to 50% of eligible costs, to a maximum of \$40,000 per facility. This financial assistance can be combined with other funding sources. When it is, NRCan may adjust its level of funding so

that the combined level of financial assistance from all public sources does not exceed 75% of total eligible project costs. For more information, refer to Financial assistance for industrial energy management projects.

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Government
of Canada

Gouvernement
du Canada

Canada



Hydro One provides online tools to help customers make the switch (TOU vs Tiered Pricing)

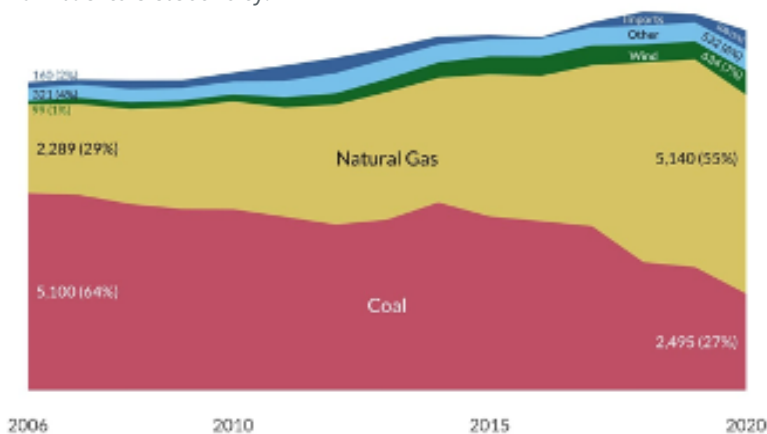
To support the Government of Ontario's direction to allow customers to opt out of Time-of-Use (TOU) pricing, Hydro One has launched an online portal to make it easy for customers who want to make the switch to tiered pricing. No action is needed by customers who want to remain on TOU pricing. To switch to tiered pricing, Hydro One customers can fill out a form at hydroone.com/customerchoice.

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Alberta's shift away from coal power is a climate action success story

Coal power has plummeted in Alberta. Once the backbone of the province's electricity system, coal now supplies roughly one-quarter of Alberta's electricity.



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Ontario Proposes to Change Net Metering Regulation to Support “Community-Based Energy Systems”

The Ministry of Energy is proposing to permit community net metering demonstration projects which would provide customers and developers more options to participate in net metering initiatives that may help lower the community's costs and meet sustainability goals. Community net metering would be an arrangement allowing the transfer or sharing of credits from generation facilities within a community across multiple metered accounts. Embedded renewable generation and potentially energy storage facilities would be used to supply the community as well as send any generation that exceeds the community's needs to the grid. The supply to the grid would result in electricity bill credits for participating account in the community, which could be used to offset costs of electricity consumption from the grid.

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Alberta Electric System Operator announces new energy storage procurement opportunity

On October 14, 2020, the Alberta Electric System Operator (AESO) announced plans for an upcoming Fast Frequency Response (FFR) Technology Pilot project.[1] The FFR Pilot is currently in its initial design phase and is expected to be implemented in 2021. The announcement presents a unique opportunity for energy storage assets in the province and comes as a welcome boost to energy storage proponents and related technology providers in Alberta, who currently face significant hurdles to develop projects.

This Update includes information about the opportunity, current challenges facing energy storage proponents and related considerations.

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Hydrogen has once again made the news in Alberta

In the late 1990s and early 2000s, Canada was a global leader in the hydrogen economy, with a scheme to replace gas-guzzling, fossil-fuelled engines with clean-burning, hydrogen fuel cells. This vision was grand, innovative and ultimately a bust.

To work, the concept needs an extensive network of pipelines moving hydrogen around the country as well as fuelling locations to put hydrogen in fuel tanks, where the hydrogen then mixes with oxygen in a fuel cell to create electricity to power the cars' motors.

Cynics point to the efficiency loss in this process when compared with an electric car, but more challenging is that this fuel cell scheme is an all or nothing chicken-and-egg dilemma. (Cont'd)

USA NEWS

DER's could see expanded opportunities after FERC Order 2222

On September 17, the Federal Energy Regulatory Commission released FERC Order No. 2222, which requires system operators to remove barriers to the participation of distributed energy resources (DERs) in all wholesale energy markets across the country.

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ENERGY RADIO

A Podcast by CEM Engineering

[Ep.35 - Energy as a Human Right](#)

[Ep.34 - Green Energy For The Mining Industry](#)

[Ep.33 - Energy Management 101](#)

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So, it is understandable to ask why the hydrogen economy will work this time. The answer is that the Alberta hydrogen economy has little or nothing to do with fuel cells. It is based on a different innovation to create "blue hydrogen."

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CEM NEWS

CEM is EXPANDING!

With CEM's involvement in several large projects currently under construction (20MW, 40MW and 72MW) in Western Canada, CEM has decided to expand yet again by increasing the size of our office in Calgary Alberta to further support the growth of the business and to better serve the growing needs of our clients.

CEM is also hiring in both Ontario and Alberta. Please see a list of our open positions by clicking [HERE](#)



VIDEO

"Did you know?" is a short program served up in bite sized informative chunks, with the goal of bringing you quick and fun animated videos with an array of topics like, what is Combined heat and power? How does the use of fossil fuels affect climate change? What is biogas? And many many more.



Click the thumbnail to play

A video that follows our install of a Hybrid CHP system @ Timmins and District Hospital. With many obstacles in our way including freezing temperatures and COVID-19, CEM and Stolk Construction were able to successfully complete the project for an amazing client. Congratulaitons everyone!



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Visit our newly redesigned website www.CEMeng.ca