



Ottawa Refinery Uses Photovoltaic Containerized Smart Type

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Generated on: 2026-04-03 14:05:59

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What is a smart refinery?

Within the energy industry, these changes have given rise to the smart refinery. A smart refinery is a refinery that use plant digitalization, data-driven decision making and extensive simulation in their refining operations. Chemical refineries have been a part of the industrial landscape for over a century.

Does Hydro Ottawa need a new electricity grid?

To address this, Hydro Ottawa is undertaking a comprehensive modernization of the city's electricity grid. We know that meeting our city's growing energy needs, adapting to a changing climate, and supporting a transition to a carbon-free future requires more than just installing additional poles, wires, and substations.

Does Hydro Ottawa use flex fuel?

To date, Hydro Ottawa has converted more than 40 per cent of its fleet to flex-fuel, battery and hybrid technology, and lowered energy use at 52 of its 91 substations through the installation of building automation systems to control lighting and heating.

Where is Hydro Ottawa generating energy?

In December 2022, Hydro Ottawa (through its subsidiary, Portage Power) acquired two additional hydroelectric generating stations from TransAlta Renewables located on the Mississippi River in the towns of Appleton and Galetta Falls. Together, these facilities generate an average of 12.5 gigawatt hours of clean energy annually.

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By boosting solar and wind capacity, improving grid resiliency, and exploring carbon storage, Ottawa hopes to position the region to meet both provincial and federal net-zero targets.

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Here are some of the many solutions and technologies that can help Ottawa achieve a smart energy future. o Smart grids use data analytics and advanced technologies ...

To support these smart grid initiatives, we are actively upgrading and expanding our fibre network. This high-speed ...

Enhanced flexibility supports smooth integration of clean sources such as photovoltaic panels, wind turbines, and geothermal ...

From voice recognition to machine learning, ExxonMobil's chemical and refining plants are installing a number of "smart technology upgrades" ...

The impact of the eco home extends far beyond the walls of the exhibit itself. Hydro Ottawa and the Ottawa International Airport Authority are partnering to achieve a ...

From voice recognition to machine learning, ExxonMobil's chemical and refining plants are installing a number of "smart technology upgrades" targeted at reducing emissions and ...

Whether deployed as a standalone microgrid or part of a larger portfolio, our containerized systems ensure rapid installation, guaranteed reliability, and the resilience needed for extreme ...

The project uses solar energy to generate steam for enhanced oil recovery, reducing the need for natural gas and lowering emissions.

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