

Edgware Energy Storage Project

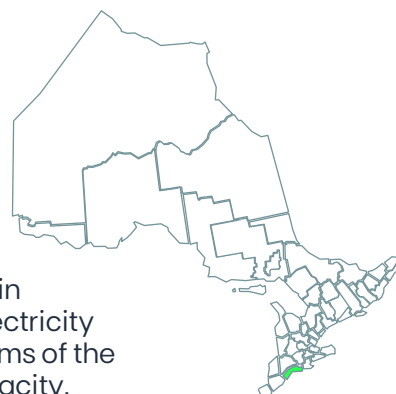
Pinal County, Arizona

⚡ Installed capacity: **74 MW**

🏠 Estimated commercial operation: **2028**

🏠 Installed capacity will be equivalent to the average consumption of more than **9,000 of Ontario homes**.¹

Edgware Energy Storage Project will be located in the City of St. Thomas in Elgin County, Ontario. The Project was awarded a contract under the Independent Electricity System Operator's (IESO) Long-Term 1 procurement in May 2024. Under the terms of the 20-year contract, the Edgware Energy Storage Project will sell the energy, capacity, and ancillary services delivered from the 75-megawatt (300MWh) energy storage facility to the IESO.



Economic benefits



CAPITAL INVESTMENT¹
Thousands of dollars



Thousands of dollars
WOULD BE PAID TO
LOCAL GOVERNMENTS



PERMANENT JOBS
Multiple jobs will be created²



CONSTRUCTION JOBS
Multiple jobs will be created²

Energy security

Power generated at Edgware will support Ontario's electric grid. The energy storage project will also contribute to the **national energy security for Canada**, helping add on-demand power.

Environment and energy storage

Energy storage facilities are designed to not release pollutants into the air, soil, or waterways. Like batteries used in handheld devices, lithium-ion batteries do not emit electromagnetic fields or contain radioactive materials.

Energy storage safety

Between cell phones, laptops, and power tools, many people have a lithium-ion battery in their pockets or hands at all times. Additionally, energy storage fires are very rare and their rate of frequency is decreasing. Energy storage sites are also highly regulated to ensure safety for neighbors, communities, and technicians.

Edgware's impact

The energy storage project will save more than **140 million gallons** of water each year and would prevent the air pollution that causes smog and acid rain.⁴



Caldwell First Nation

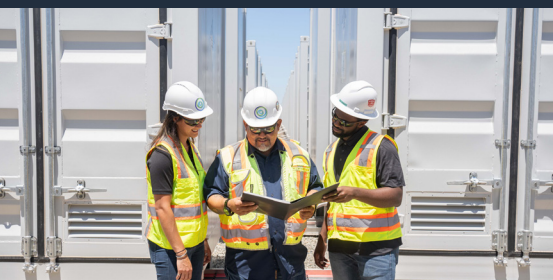
Edgware is located on the traditional territory of Caldwell First Nation. The revenue generated from the project will be directly invested back into the community.

City of St. Thomas

Edgware is being developed on previously unused industrial land within the City of St. Thomas. The project will support the City's rapidly developing manufacturing industry.

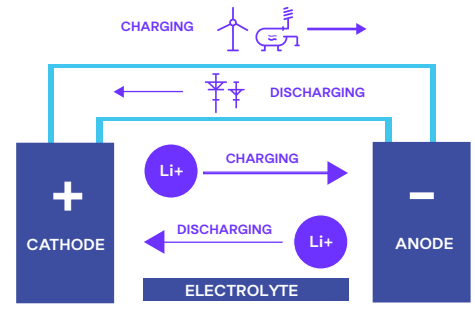
Province of Ontario

This energy storage project will contribute to the reliability of the Ontario transmission grid to support the province's continued growth and economic growth development.



How energy storage works

The most common electrochemical storage method is the lithium-ion battery. These are similar to the batteries that power your cell phones, or laptops. Energy storage systems are fuel-neutral. This means that they can capture and dispense electricity from oil, gas, coal, nuclear, geothermal, and EDP Renewables North America's wind and solar energy projects.



Energy storage enhances reliability, reduces costs, and increases grid resilience.

Grid stability

Energy storage systems allow excess energy, from power plants or the grid, to be stored during off-peak times, and used during times of high demand, including during extreme weather when power generation is limited. Keeping the power on, air-conditioning or heating systems operating, medical systems functioning, and other critical infrastructure working, will help keep people safe and healthy during otherwise vulnerable circumstances.

Scan the QR Code to explore educational resources on renewables and how we are empowering local economies, as well as meeting the energy demand of today.

▶ *Scan the QR Code using the camera on your mobile device.*



¹The cost and performance of the battery systems are based on an assumption of approximately one cycle per day. Therefore, a 4-hour device has an expected capacity factor of 16.7% ($4/24 = 0.167$). Household consumption based on 2023 EIA Household Data monthly average consumption by state. This assumes that all energy is stored from a renewable source and discharged at the grid average.

²Full-time equivalent jobs calculated by dividing number of contractor hours worked during construction by 2080.

³The cost and performance of the battery systems are based on an assumption of approximately one cycle per day. Therefore, a 4-hour device has an expected capacity factor of 16.7% ($4/24 = 0.167$). Household consumption based on 2023 EIA Household Data monthly average consumption by state. This assumes that all energy is stored from a renewable source and discharged at the grid average.

⁴Assumes 0.58 gallons of water consumed per kWh of conventional electricity from Lee, Han, & Elgowainy, 2016. This assumes that all energy is stored from a renewable source and discharged at the grid average.

About us

EDP Renewables North America LLC (EDPR NA), its affiliates, and its subsidiaries develop, construct, own, and operate wind farms and solar parks throughout North America. Headquartered in Houston, Texas, with 61 wind farms, 26 solar parks, and eight regional offices across North America, EDPR NA has developed more than 12,000 megawatts (MW) and operates more than 11,400 MW of onshore utility-scale renewable energy projects. With more than 1,000 employees, EDPR NA's highly qualified team has a proven capacity to execute projects across the continent.

For more information, visit www.edprnorthamerica.com

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