



Fact Sheet | East Windsor Generation Facility Expansion

Facility Details

Fuel Type(s)

Owned Capacity

Location: Windsor, Ontario, Canada

Status: In Development



100MW

Facility Expansion

In response to the call for new power generation and capacity being administered by Ontario’s Independent Electricity System Operator (the IESO), Capital Power is working to complete the regulatory process for a 100 megawatt (“MW”) expansion at the existing East Windsor Cogeneration Centre (EWCC). IESO awarded Capital Power a contract for the facility expansion in May 2023.

This project is part of the IESO’s goal of securing new natural gas supply to support grid reliability and as part of the overall energy transition process. Developing new sources of power is a core element of Ontario’s Growth Plan. The IESO’s Annual Planning Outlook identifies significant need for electricity capacity at both the bulk system and regional levels.

Demand for electricity in Ontario is rising. This is coming from economic development, including major investments in electric vehicles and battery manufacturing, along with population growth and electrification. The Windsor region has been identified by the IESO as a high-priority area for new generating capacity as early as 2025.

“Natural gas provides crucial flexibility; it delivers energy quickly to meet summer peaks and balances supply when the system loses supply unexpectedly. It adjusts output constantly, ramping up as we rise in the morning and ramping down in the evening as demand decreases.”

–Lesley Gallinger, President and CEO, IESO (Toronto Star, October 10, 2023)

East Windsor Cogeneration Centre (EWCC)

- Serving the Essex-Windsor area since 2009
- A natural gas-fired peaking facility with a generation capacity of 92 MW
- The IESO dispatches the EWCC based on system need

East Windsor Generation Facility Expansion

- Located on a brownfield site (e.g. already disturbed land) immediately adjacent to the existing EWCC
- Natural-gas fired peaking facility dispatched by the IESO and would run when electricity demand reaches critical levels (e.g. due to operational disruptions at other facilities or when weather patterns aren’t conducive to renewable generation)
- Would help meet increasing local and provincial electricity demand by providing critical backup generation support, better enabling both a reliable supply of electricity and flexibility in support of intermittent renewable energy sources like wind and solar energy

About Capital Power

Capital Power is a growth-oriented power producer committed to net zero by 2045. Our balanced approach to the energy transition prioritizes reliable, affordable and decarbonized power that communities across North America can depend on.

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