



Fact Sheet | Goreway Power Station

Facility Details

Fuel Type(s)

Owned Capacity

Location: Brampton, Ontario, Canada

Status: In operation since 2009



875MW

Proposed Facility Upgrades

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 currently working to complete the regulatory process for a 40 megawatt (“MW”) upgrade to the Goreway Power Station. IESO awarded Capital Power a contract for the upgrade in April 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. New sources of power is also 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. The IESO is projecting an increasing need for generation capacity starting in 2025 because of the estimated shortfall from 1) an increase in load growth; 2) lack of investment in new supply; and 3) retirement and refurbishment of Ontario’s nuclear fleet.

Goreway Power Station

- 875 MW natural gas fueled, combined cycle power generating facility
- Able to provide electricity to Ontario’s power grid 24 hours per day, 7 days per week
- Primarily operates during intermediate and peak demand periods
- Dispatched by the IESO when power generation demand is needed
- Goreway was dispatched more frequently in 2022 and 2023 to provide critical reliability support due to Ontario’s increasing demand for electricity.
 - Operating capacity was 30% in 2022 and 29% in 2023, compared to an average of ~12% capacity from 2017-2021. With the continuing electricity supply constraints and increased demand need, we expect Goreway to be dispatched by the IESO to operate more to support Ontario’s generation needs.

Upgrade Project

- 40MW upgrade to the facility, which will increase the overall plant capacity by 4.5%
- Upgrades will occur within the existing facility footprint
- Involves the replacement of a variety of parts within the gas turbine with more advanced technology, upgradable materials, and/or higher performance levels
- Overall emissions intensity will remain relatively stable, even with the added generation capacity from the 40 MW upgrade project

“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)

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 rely on.

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