



Calabogie GS redevelopment project wrapping up

After several months of testing and commissioning activities, the redeveloped hydroelectric station's two new units officially went into service in April and are now generating approximately 10.7 megawatts (MW) of clean power for the province of Ontario - enough to power about 10,000 homes.

The original Calabogie Generating Station (GS) stood as one of OPG's oldest hydro stations before it was extensively damaged by a tornado in 2018.

Construction on the new build began in 2020 and is situated about 50 metres upstream from the old powerhouse. The new, larger turbine units are capable of handling more water, thanks in part to a reshaped forebay and tailrace. This results in less spill and more generation, while doubling the output of the original plant.



(Above) OPG's brand-new Calabogie Generating Station on the Madawaska River.

Throughout the planning and execution phases, OPG consulted with Indigenous communities, including the Algonquins of Pikwakanagan First Nation, the Algonquins of Ontario, who represent nine Algonquin communities, and four Williams Treaties First Nations – Alderville First Nation, Curve Lake First Nation, Hiawatha First Nation, and Mississaugas of Scugog Island First Nation.

The Calabogie GS redevelopment project helps OPG attain its Climate Change Plan goals, which include becoming a net-zero company

by 2040 and helping the economy reach net-zero by 2050. By investing in its fleet of 66 hydroelectric stations in Ontario, OPG will ensure these assets continue to deliver clean, reliable electricity to support the province's growing economy and demands from electrification.

As one of five OPG hydro stations on the Madawaska River, with a combined capacity of about 620 MW, Calabogie GS will continue to play a major role in supporting the local economy and providing clean power to the province for many years to come.



(Above) A look inside the new Calabogie Generating Station powerhouse.



A Moment of Reflection



(Above) October 2020. During the demolition process of the former Calabogie Generating Station, its two turbines were extracted from the powerhouse.



(Above) June 2021. The powerhouse of the former Calabogie Generating Station is no longer visible as the new Calabogie Generating Station is being built just 50 metres upstream.



(Above) August 2021. A bird's eye view of the new station under development.



(Above) October 2021. The new powerhouse under construction, including a wider and deeper forebay to accommodate more flow through the units.



(Above) November 2021. Foreground - Intake passageway and deck concrete formwork being erected upstream of the powerhouse. Background - Powerhouse steel skeleton roof seen beneath crane boom.



(Above) May 2022. The new powerhouse and intakes taking shape and headed toward completion.



(Above) November 2022. Forebay, also known as the Headpond, is getting closer to watering up.



(Above) June 2023. A newly built and operating Calabogie Generating Station producing 10.7 megawatts of power to Ontarians.



A few guests of the Calabogie Generating Station during construction



(Above) Hon. MPP John Yakabuski tours the Calabogie Generating Station on April 22, 2022.



(Above) From the Township of Greater Madawaska taken on June 20, 2023. Pictured left to right: Fire Chief, Peter Forshaw; Twsp. Facilities Manager, Leonard Emon; Councillor Taylor Popkie, Mayor Rob Weir; Councillor Lois Thomson; Councillor Jeff Levesque; and Treasurer-Deputy CAO, Renée Mask.

Barrett Chute hydro station now halfway through major unit overhauls

On the Madawaska River in eastern Ontario, OPG's Barrett Chute Generating Station (GS) is now halfway through a major overhaul of its generating units.

This past spring, OPG brought the hydro station's G4 unit back into service ahead of schedule after a year-long refurbishment.

The thorough work involved an entire mechanical and electrical overhaul of the 68-megawatt (MW) unit, a stator rewind, stator core and frame replacement, and cleaning, machining, and repainting of major components, including the turbine runner.

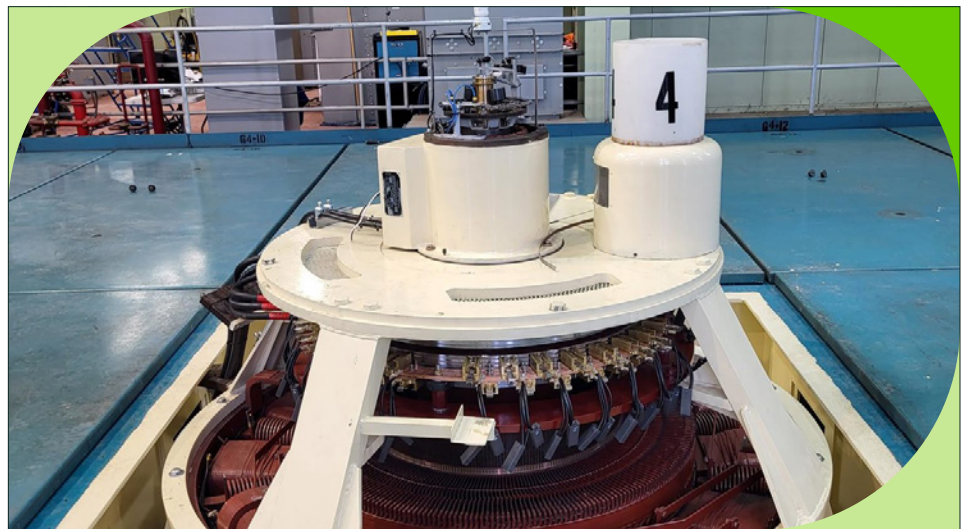
This successful overhaul follows the refurbishment of the station's G3 unit completed last summer. Both units were originally commissioned in 1968.

Next in line for overhauls are Barrett Chute's two older units, G1 and G2, both commissioned in 1942 and last overhauled in the 1970s. The overall project is expected to wrap up by 2025.

To read more visit: <https://www.opg.com/stories/barrett-chute-hydro-station-now-halfway-through-major-unit-overhauls/>



(Above) Exterior shot of Barrett Chute GS.



(Above) The final steps of assembly for the refurbished Unit 4 at Barrett Chute Generating Station.



(Above) A look at the completed Unit 4 turbine pit at Barrett Chute GS.

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