



Hydro Ottawa GREEN POWER GENERATING FACILITIES



A leading, trusted, integrated utility services company

Energy Ottawa, a subsidiary of Hydro Ottawa, is the largest municipally-owned producer of green power in Ontario. In total, Energy Ottawa's electricity generating stations produced 142,000 megawatt hours (MWh) of renewable energy in 2011 — enough to meet the annual needs of approximately 17,000 homes.

Energy Ottawa's electricity generating facilities include hydroelectric and landfill gas-to-energy stations, and the company has a number of green power projects to increase its generating capacity.



HYDROELECTRIC GENERATION

Original Chaudière Falls Generating Stations

Hydro Ottawa has over 100 years of experience operating hydroelectric plants at Chaudière Falls. Two of its generating stations date back to the early days of electricity generation, while a third, smaller station uses an innovative technology.

- > **Generating Station No. 2**, at 8 megawatts (MW), was commissioned in 1891 and refurbished and fully automated in 2001. It is a heritage-designated building and has the distinction of being Canada's oldest surviving hydroelectric facility still in operation.
- > **Generating Station No. 4**, at 8 MW, was built in 1900 and was refurbished in 2005.
- > **The Grinder Powerhouse** (0.7 MW) uses an innovative technology that is similar to a pump operating in reverse — the first time this technology has been used at a scale of 700 kilowatts or more.

The capacity of Hydro Ottawa's three original hydroelectric stations is 17 MW. They are capable of producing more than 125,000 megawatt hours of green power annually.



Purchase of Additional Chaudière Falls Generation

In 2012, Chaudière Hydro L.P., a wholly-owned affiliate of Energy Ottawa, purchased three additional hydroelectric plants and a 38.3 percent interest in the Ring Dam and remaining water rights at Chaudière Falls from Domtar Corporation. This acquisition from Domtar includes three legacy hydroelectric stations with a total combined output of 21 MW.

Two of these generators are located in Ontario and one is in Quebec. The agreement also includes an additional 38.3 percent share of the Ottawa River water rights at Chaudière Falls, bringing Hydro Ottawa's total to 67 percent (Hydro-Québec owns the other 33 percent). All three of the purchased generators are currently interconnected with Hydro-Québec only.

With the purchase of the three hydroelectric stations from Domtar, Hydro Ottawa's hydroelectric generating capacity has grown more than double to 38 MW, enabling the company to generate enough clean, renewable energy to meet the annual needs of 28,000 households.

A major benefit of the acquisition is that the Chaudière Falls site is one of the largest remaining water-power sites available in Ontario, with an expansion opportunity that could potentially see Hydro Ottawa's hydroelectric capacity grow to 60 MW.

LANDFILL GAS-TO-ENERGY GENERATION

Trail Road Landfill

The Trail Road landfill gas-to-energy plant, a joint venture 60 percent owned by Energy Ottawa, converts millions of tonnes of previously flared-off methane gas into renewable energy. It has a capacity of 6 MW.

Lafèche Landfill

In 2011, Energy Ottawa began construction of a new 4.2 MW landfill gas-to-energy facility at the Lafèche Landfill site in Moose Creek, Ontario. The new electricity generating plant is a partnership with Integrated Gas Recovery Services. Construction is underway and operations are expected to commence in 2013.



SOLAR GENERATION

Energy Ottawa has a number of small solar installations within the City of Ottawa, and has two larger solar projects in development with the City of Ottawa. Each of these projects is subject to approvals under the Feed-in-Tariff program by the Ontario Power Authority. Both solar projects are also on hold pending upgrading of the Hydro One Hawthorne transformer station, scheduled to be completed by early 2014.

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