

Opg energy storage





Overview

Where are OPG generating stations located?

OPG respectfully acknowledges that the lands on which its generating stations and other assets are located are within the traditional and treaty territory of many Indigenous communities. [Click to read more.](#) The proposed Marmora Pumped Storage Project will diversify Ontario's electricity grid and support growing electrification demands.

What is Ontario's energy storage system?

Ontario's electricity grid is more than 90 per cent emissions free. Energy storage will allow the storage of baseload generation like nuclear and hydro, while also supporting the integration of intermittent resources like wind and solar.

What does OPG stand for?

This eastern Ontario project is a joint venture between Ontario Power Generation (OPG) and Northland Power, and is currently progressing through a gated approvals process managed by the Independent Electricity System Operator. The Project would have an average capacity of 400 MW for five hours, enough to power around 400,000 homes.

What is OPG doing at Pickering Nuclear Generating Station?

Supporting Ontario Power Generation's (OPG) continued safe operation of the Pickering Nuclear Generating Station and tasking OPG to update their refurbishment feasibility assessment for the station. Building Canada's first grid-scale small modular reactor (SMR) at OPG's Darlington site.

What is the largest battery storage project in Canada?

OHSWEKEN - The governments of Canada and Ontario are working together to build the largest battery storage project in the country. The 250-megawatt (MW) Oneida Energy storage project is being developed in partnership with



the Six Nations of the Grand River Development Corporation, Northland Power, NRStor and Aecon Group.

What's going on with OPG & Northland Power?

OPG and Northland Power kicked-off its public consultation in late 2022 with an open house at the Royal Canadian Legion in Marmora. The project has also been endorsed by several municipal councils and political leaders in the eastern region. Additional engagement activities are expected as project planning work continues.



Opg energy storage



OPG issues first bonds under Sustainable Finance Framework

TORONTO, ON - Ontario Power Generation (OPG) has issued \$1 billion of bonds under its recently released Sustainable Finance Framework. The company will use net proceeds of this issuance to fund a broad range of clean energy projects. As the largest

News & resources

Find all the latest news and updates on OPG's work to keep electricity reliable, affordable, and clean, and our educational resources. Our mission, vision & values As Ontario's largest clean electricity generator, see how our focus is on generating safe, efficient, and reliable energy.



[Nuclear power , Darlington Nuclear Station](#)

Located in the Municipality of Clarington in Durham Region (70 km east of Toronto), Ontario Power Generation's (OPG's) Darlington Nuclear Generating Station is a four-unit facility responsible for generating over 20% of Ontario's electricity needs, which is enough

Media release , Capital Power and OPG partner to advance new ...

capacity from the repowering of Genesee 1 and 2 in Alberta, and approximately 350 MW of natural gas and battery energy storage systems in Ontario. About OPG As one of North America's largest, most diverse electricity generators, OPG



invests in



Governance & regulation , OEB applications - OPG

Learn more about OPG's rate applications to the Ontario Energy Board, and what that means for Ontarians. Our mission, vision & values As Ontario's largest clean electricity generator, see how our focus is on generating safe, efficient, and reliable energy.



About us

OPG also owns a number of additional facilities in Ontario and the United States: Our US hydroelectric operations -- OPG wholly or jointly owns and operates 85 hydroelectric generating stations and holds minority interests in 14 hydroelectric and two solar facilities in the United States through our US-based wholly-owned subsidiary, Eagle Creek Renewable Energy.



RG

Energy storage Large industry Clean energy credits With an extensive portfolio of clean energy generation across North America, OPG can offer environmental credits in both Canada and the US. Learn More Our services





Nuclear projects , Darlington refurbishment project

Once complete, this project will enable production of safe, reliable, and emission-free electricity from Darlington for 30 more years. Securing decades more clean power for Ontario In 2016, after years of detailed planning and preparation, Ontario Power Generation's



Home

OPG and Northland Power are building an innovative, closed-loop hydro pump storage asset from an abandoned mine. A powerful partnership We're building the blueprint for the Marmora Project, a proposed clean energy hub featuring a 400-megawatt closed-loop

[Our projects , Energy storage - OPG](#)

The more energy we can store for peak demand periods, the more we leverage renewable energy sources and build our baseload capacity in the form of hydroelectric and nuclear generation. For many, energy storage is the key to ...



Projects & services

OPG's projects are unlocking the future of clean energy and our services are helping businesses unleash the power of electrification. Our mission, vision & values As Ontario's largest clean electricity generator, see how our focus is on generating safe, efficient, and reliable energy.



Our story , OPG's Sir Adam Beck I hydro station celebrates a century

The entire generating complex produces about 12,300 gigawatt-hours of energy each year - about 40 per cent of OPG's hydroelectric production, or about nine per cent of Ontario's energy needs. Since these stations are not built directly at the Falls, like many other hydro stations, water from the Niagara and Welland rivers is diverted above Niagara Falls to ...



Our story , OPG flips the script on nuclear energy with new public

Nuclear is safe: no member of the public has ever been harmed as a result of OPG's nuclear power plants or waste storage facilities. In the coming years, nuclear will continue to play an important role in Ontario's energy mix. OPG is now advancing a fleet of

Power generation

Power generation is the core of OPG's business, with 18,150 megawatts of capacity from nuclear, hydro, solar, biomass, and natural gas. Life powered by clean, reliable energy Electricity is the lifeblood of the modern world, pulsing unseen across vast distances to



Our story , OPG's Niagara hydro operations set to undergo ...

OPG's stations in Niagara meet about 9% of Ontario's energy needs. For more than a century, OPG's hydroelectric stations in Niagara Falls have generated clean, reliable, and affordable electricity for Ontario - powering the province's growth and helping establish the low-carbon electricity system we enjoy today.





Media release , OPG issues \$300 million in bonds under ...

TORONTO, ON - Ontario Power Generation has issued \$300 million of bonds under its Sustainable Finance Framework. The company will use net proceeds of the September issuance to fund a range of low-carbon energy projects. Since 2018, OPG has been



Our story , All-women crew leads OPG's Energy Markets team - OPG

Located at OPG's corporate headquarters in Toronto, the PMC is active 24 hours a day, seven days a week, and is home to a talented team that works with the Independent Electricity System Operator to help ensure a reliable supply of electricity by optimizing

Our story , Marmora pumped storage project would ...

Located in the Municipality of Marmora and Lake, the proposed 400-megawatt (MW) closed-loop hydroelectric pumped storage facility could power up to 400,000 homes at peak demand with clean, renewable electricity ...



OPG helping Poland achieve clean energy goals

OPG and its subsidiary, Laurentis Energy Partners, will work with Poland's ORLEN Synthos Green Energy as they deploy & operate SMRs in Europe. Our mission, vision & values As Ontario's largest clean electricity ...



Reabsorption trapping of luminescence in laser crystals: ...

It is shown that reabsorption of luminescence in laser crystals can enhance energy storage, energy transfer, and upconversion in solid-state laser media. These effects, experimentally ...

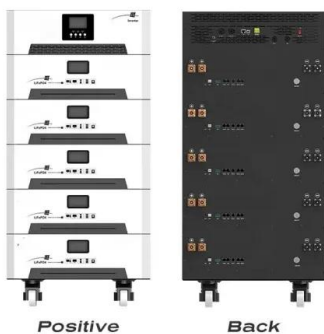


About us , What we do

OPG supplies Ontario with clean, safe, and reliable electricity so that you can build a business, raise a family, and pursue your dreams. We power Ontario, and the world What we do is about what you do. We keep Ontario supplied with clean, safe, and reliable

Who we are , Our partnerships & subsidiaries - OPG

OPG's subsidiaries & partnerships are helping us improve generation, storage, and distribution technology to electrify life in one generation. Our mission, vision & values As Ontario's largest clean electricity generator, see how our focus is on generating safe, efficient, and reliable energy.



Small modular reactors , Darlington SMR - OPG

The Darlington New Nuclear Project is leading the way in the advancement of Small Modular Reactor (SMR) technology in Canada - the future of nuclear power generation. On July 7, 2023, the Ontario government announced it will work with Ontario Power Generation (OPG) to commence planning and licensing for three additional SMRs, for a total of four SMRs at the ...



Governments of Canada and Ontario Working ...

The Oneida Energy storage project will support the operation of Ontario's clean electricity grid by drawing and storing electricity off-peak when power demand is low, and returning the power to the system at times of higher ...

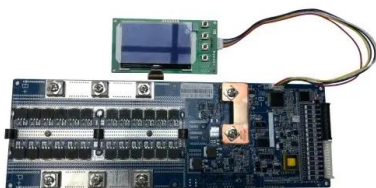


What we do , Advancing clean energy technologies - OPG

From transportation to industry to SMRs and storage, OPG is innovating and investing to advance the clean energy technologies of tomorrow. Our mission, vision & values As Ontario's largest clean electricity generator, see how our focus is on generating safe, efficient, and reliable energy.

[Projects & services , Our projects](#)

From SMRs to hydrogen, storage, and electrification, OPG's projects are about being innovative and accelerating towards a low-carbon future. Our mission, vision & values As Ontario's largest clean electricity generator, see how our focus is on generating safe, efficient, and reliable energy.



Regulatory reporting

In accordance with OPG's 2022-2026 Payment Amounts proceeding, OPG is required to file certain reports with the OEB on a quarterly or annual basis that are to be posted publicly on OPG's website. The sections below provide the reporting requirements.



Our projects , Hydroelectric development - OPG

Modernizing our hydro assets Ontario Power Generation's (OPG's) 66 hydroelectric power plants on 24 river systems are controlled by 239 dams. One of the benefits of hydropower is that it is a long-lasting, renewable resource. Many of our hydroelectric stations

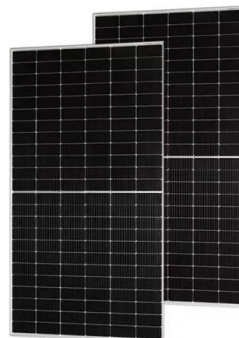


Nuclear power , Pickering Nuclear Station - OPG

The Minister of Energy asked OPG to review opportunities to make the best use of existing non-emitting assets and reduce reliance on natural gas. In response, we reviewed our proposed shutdown plan for Pickering Nuclear Generating Station and concluded that the facility could continue to safely generate electricity to the end of 2026.

European energy storage: a new multi-billion-dollar asset class

Overall, total energy storage in Europe is expected to increase to about 375 gigawatts by 2050, from 15 gigawatts last year, according to BloombergNEF. We spoke with Grebien about ...



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