

Neighbours

Western Waste Management Facility



OPG is committed to biodiversity efforts including fighting phragmites and improving the health of wetlands in the Bruce area.

Taking Action on Climate: Building a Brighter Tomorrow



Ontario Power Generation (OPG) believes climate change is not the future, it's the present, and its consequences are already affecting the lives of Ontarians. Because it's not just an environmental crisis, it's also an economic one.

So, we're proud to release our first-ever Climate Change Plan. It includes ambitious goals that will guide our promise to be a catalyst for efficient, economy-wide decarbonisation and economic renewal. It will help us mobilize our expertise, suppliers, and industry partners to create a cleaner

environment and more prosperous, resilient communities in Ontario and beyond. This includes many innovative and nature-based efforts, such as OPG's ongoing work to fight phragmites and improve the health of wetlands in the Bruce area.

Having delivered the world's single-largest climate action to date by closing our coal stations, OPG will continue to be a climate leader by investing in and implementing CO2 reductions and offsets to achieve net-zero carbon emissions by 2040. Net-zero refers to achieving an over-all balance between direct

carbon emissions produced and carbon emissions taken out of the atmosphere.

Our goals won't be easy to achieve. The way forward won't always be clear. But we won't let that lack of perfect clarity stop us from taking action now. Today's biggest energy questions will be answered right here in Ontario. We hope to make our province proud as we bring our made-in-Ontario experience, our ingenuity, and our commitment, to the world. Together, we will create a brighter tomorrow.

To view the full plan, additional information and regular updates, you can visit opg.com/climate-change.

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Lasting Solutions are the goal



In 2020, OPG ended its project for a Deep Geologic Repository (DGR) for low- and intermediate-level materials at the Bruce site. Since then, a lot of work has occurred to close out the DGR project, and to move forward on next steps.

OPG remains committed to Lasting Solutions, including permanent disposal, and will explore alternate solutions, learning from the experiences of others. Some countries deploy a variety of methods, such as near-surface facilities for low-level materials, and deep repositories for high-level materials.

OPG will also follow a public review in 2021 of the federal radioactive waste policy framework, to see whether it identifies alternate solutions. For details, visit radwastereview.ca.

Any future OPG project or facility siting process would involve engagement with the public, including interested municipalities and local Indigenous communities.

These are early days following OPG's DGR decision. As we see around the world, the process to propose and implement a disposal facility can take many years. Meanwhile, we continue to seek innovations and best practices in volume reduction. To divert materials away from storage, we embrace the three Rs: reduce, reuse, recycle.



Nurses thanking OPG for its donations and contributions.

Keeping the lights on for Ontario

Amid the COVID-19 global pandemic, OPG continues to provide clean, safe, reliable power to help keep the lights on for Ontario's homes, businesses and hospitals.

OPG employees have continued to safely carry out their essential work, both at home and at our operations across the province, including our Western Waste Management Facility at the Bruce site.

Operators, technicians, and trades continue to ensure our units are generating power safely and reliably; and that our waste facilities continue to safely transfer, process, and store nuclear materials.

Hygiene advisors are working to assess employees' health. Security teams,



emergency response personnel and cleaning staff are tirelessly ensuring our sites are safe from spread of the virus and any other hazards. All of

this is overseen by our Infectious Disease Incident Response Team and Crisis Management Communications Centre, which swung into action early in 2020.

In addition, OPG continues to show support for our local communities during this challenging time. We have donated one million masks and 17,500 Tyvek suites to frontline workers (including more than 9,000 masks sewn by our employees), provided 10,000 face shields to Indigenous communities, and donated over \$900,000 to local food banks, including food services in Bruce County.

As we forge ahead, OPG will continue to fulfill its role as an essential service to help Ontario #PowerON.

OPG launches Centre for Canadian Nuclear Sustainability



OPG has launched the Centre for Canadian Nuclear Sustainability in Pickering – a world-class facility to develop expertise in decommissioning of nuclear stations. It will advance solutions for minimizing nuclear materials and recycling clean materials, as Pickering Nuclear Generating Station moves toward ceasing commercial operations in the mid-2020s.

Pickering, which has been providing safe and reliable power to Ontario since 1971, will be one of the first CANDU stations in the world to be decommissioned.

This new Centre will operate as a hub to bring together industry partners, local communities, businesses, academia and global entities in research, development, and export opportunities for nuclear innovation in this next phase of the nuclear lifecycle.

OPG's Nuclear Waste Management Division will play a key role in both the new Centre and the decommissioning of Pickering. This includes accepting, transporting, sorting, processing and storing or recycling the materials that will come from dismantling the Pickering station.



The research initiative will explore new techniques to manage low-level nuclear byproducts in a custom-designed research laboratory at McMaster Innovation Park in Hamilton, Ontario.

New partnership seeks innovation in sorting



Laurentis Energy Partners, a company of OPG, entered into a partnership with McMaster University in 2020, called the Clean-Energy Materials Sorting and Recycling Research Initiative. The partnership is designed to advance nuclear-energy innovations and support environmental solutions across the industry.

The research initiative will explore new techniques to manage low-

level nuclear byproducts. These materials include used worker garments, shoe covers and gloves, mops and rags used in cleaning, small tools, and materials such as paper, wood and concrete.

Working together, Laurentis and McMaster will explore new methods and technologies to help divert more nuclear materials toward re-use and recycling. The joint research findings will be completed on a

commercial scale to affect positive change, not only in Canada, but potentially globally.

The exploration project will take two years to complete. It will be housed in a custom-designed research laboratory at McMaster Innovation Park in Hamilton, Ontario. The lab will house state-of-the-art equipment and will bring up to 30 new jobs to Hamilton over the two-year period.

Laurentis and McMaster are looking forward to the research findings from this partnership. To read more about this initiative, visit brighterworld.mcmaster.ca.

Refurbishment continues at Darlington Unit 3



Work is underway to disassemble reactor Unit 3 at the Darlington Nuclear Generating Station, keeping the four-unit Darlington Refurbishment project on track for completion by 2026.

The project began in 2016 with Unit 2, which returned to service in 2020. This past September, the project team started on Unit 3, removing 6,240 fuel bundles from the reactor. They completed defuelling in November, safely and ahead of schedule.

Next, the team drained the heavy water from Unit 3. OPG has now turned the vault over to project partner CanAtom



Darlington Refurbishment guarantees 30 more years of clean energy.

Power Group, to lead field work during the next phase of work: disassembly. This includes removing hundreds of used feeders, end fittings, pressure tubes and calandria tubes, to be processed and stored at Darlington.

OPG also continues to support Bruce Power's Major Component Replacement, by processing and storing used reactor components, and sharing lessons learned from Darlington.

OPG in the Community



Last year, and especially throughout the pandemic, OPG remained committed to supporting local initiatives and activities in Bruce County.



OPG supports the Bruce Botanical Food Garden to help provide fresh food to the Kincardine Food Bank.



Volunteers with the Paisley Blues Festival Guitar Lending Youth Program show off the electric guitars available to borrow, for free, to help kids learn.



OPG, Saugene Valley Conservation Authority, Ontario Parks and the Historic Saugene Métis teamed up to offer a curbside pickup program in October – Pumpkin Pack Wednesdays – handing out 750 packs filled with fun and educational activities children could do from the safety of their homes, as part of Port Elgin's "virtual" Pumpkinfest.



OPG sponsored the drive-through Country Christmas event in Formosa, an event that lights up the community of Formosa, with thousands of lights throughout the hamlet and Lions Park.



One of the many ways OPG gives back to the community is through the staff Charity Campaign. This year, staff at the Western site raised funds in support of the Canadian Mental Health Association, Grey Bruce Chapter.

Neighbours

Western Waste Management Facility:

Box 7000, B21, 177 Tie Road
Kincardine, Ontario N0G 2T0

Contact: (519) 361-6414 ext. 2764

Email: nwmd@opg.com



opg.com