

Neighbours

Pickering | Darlington
Nuclear Generating Stations



Pickering Nuclear recognized with Environmental Award by City of Pickering



Powering millions of homes in Ontario with award winning environmental stewardship.

OPG's Pickering Nuclear Generating Station (NGS) was recognized by the City of Pickering with an Environmental Award for its contribution to conserving and enhancing its natural environment.

"The City of Pickering is proud to recognize OPG as a partner in its sustainability journey," said Mayor Dave Ryan. "OPG is an organization that shares our values of protecting the environment, as demonstrated through its countless biodiversity

community programs including tree plantings and providing hands-on environmental education to our community members."

Pickering NGS is also a proud recipient of the gold Wildlife Habitat Council (WHC) Conservation Certification to recognize the specific efforts of our many biodiversity programs to protect and nurture species and their habitats.

Of course, none of these great environmental achievements would be possible without the help of our community partners, OPG employees, Environmental Stewardship Pickering, and the Toronto & Region Conservation Authority.

The six-unit, 3,100-megawatt station produces carbon-free power for the people of Ontario as part of OPG's diverse generation portfolio, which is among the cleanest in the world.

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Emergency Preparedness Drill

As part of our ongoing commitment to safety and emergency preparedness (EP), once every three years, OPG conducts a site-wide assembly and accounting drill of all employees, immediately followed by the dismissal of all station support staff.

Darlington Nuclear will be conducting this drill on the afternoon of Wednesday, July 21. Near-site residents and businesses may see increased activity around the Darlington site.

If you have any questions about our upcoming drill or our EP program, please contact us at 905-623-7122 or visit www.opg.com/nuclearsafety.

Powering Our Neighbours



In the midst of a global pandemic, OPG continues to provide clean, safe, reliable power to help keep the lights on for Ontario's homes, health-care facilities, and businesses. However, more than just providing power, we know the importance of providing support for our community when it is needed most.

To aid in the pandemic response, OPG has donated 1 million surgical masks, 75,000 N95 masks and 17,500 Tyvek protective suits, as well as 3D printing protective shields for distribution to hospitals and care facilities in need. OPG is doing its part to lead Ontario towards a brighter tomorrow.

Recently, OPG provided members of our community with better access to transportation services to and from vaccination clinics in the Durham area through \$10,000 donations to Community Care Durham, Oshawa Senior Citizens Centre and Durham Region Transit.

For the latest news, information and resources to book your vaccine, visit durham.ca/en/health-and-wellness/covid-19-vaccines.aspx.



Darlington New Nuclear Relicensing



In 2020, OPG announced the resumption of planning activities for a new nuclear build at Darlington, pending regulatory approvals.

In June of that year, OPG applied to the Canadian Nuclear Safety Commission (CNSC) for renewal of the Site Preparation Licence to support the Darlington New Nuclear Project. The licence allows for pre-construction, preparatory activities to take place at the new nuclear site, which is located adjacent to our operating station. The original licence was granted in 2012 following an approved Environmental Assessment after extensive public engagement and a 17-day public hearing held in Clarington.

The application for renewal of the Site Preparation Licence

was considered through public hearings in June of this year. Renewal of the licence is one-step in a series of licences and approvals required prior to the construction and operation of a new nuclear reactor.

Ahead of site preparation beginning, OPG is now studying the geotechnical aspects of the Darlington new nuclear site through borehole drilling activities. The study will assess the site for future Small Modular Reactor (SMR) foundations, which is a key aspect of the project.

The ongoing work for the Darlington New Nuclear Project will support low-carbon, reliable nuclear energy continuing to be an important part of Ontario's energy mix into the future. Learn more at opg.com/newnuclear.

Did You Know? OPG has partnered with Indspire to provide twenty \$10,000 scholarships to First Nations (status or non-status), Inuit or Métis students over the course of the next three years, through our long-standing John Wesley Beaver Memorial Scholarship program.

This scholarship pays tribute to John Wesley Beaver by encouraging Indigenous students to pursue their studies while contributing to their families and community. Learn more about this award and how to apply at opg.com/careers/student-awards.

Pickering Nuclear: Clean Reliable Power for Ontario



OPG's Pickering NGS is proud to continue to support the Pickering community by powering its many homes and businesses, and being an active part of enhancing its environment.

The Province of Ontario is supporting a plan to end commercial operations at Pickering in 2025. Under the proposed plan and pending regulatory approval by the CNSC through a public hearing process, OPG would operate Pickering Units 1 and 4 to 2024 (as planned under the current licence), and Units 5-8 to 2025.

"The operational and safety performance of Pickering Nuclear has never been better, thanks to the ongoing dedication of our employees," said Jon Franke, Senior Vice President Pickering Nuclear. "In the last few years the station has achieved its best performance in station history, including a record 730 consecutive day run on Unit 4, a testament to the reliability of the station."

Not only does Pickering provide clean, reliable baseload power for the province, it also produces around 20 per cent of the world's most valuable medical isotope, Cobalt-60, which is used to irradiate and sterilize single use medical devices as well as various foods and spices around the world. In addition, over the course of Pickering's life, it has also saved just over 1 billion tonnes of green house gas emissions for Ontario.

Pickering NGS continues to benefit the province and support OPG's Climate Change Plan. Together, we will create a brighter tomorrow, and you can read OPG's full Climate Change Plan at opg.com/climatechange.

Darlington Refurbishment Learns and Prepares



After Darlington's Unit 2 returned to service on time and on budget after a successful refurbishment, OPG now has its focus on safely working through the next phase of the refurbishment project – refurbishing Darlington's Unit 3.

OPG gained invaluable insights and lessons from the success of Unit 2, which are actively helping us improve our performance on Unit 3. "We're making sure to build on our success by applying more than 4,000 lessons learned to the plans and preparations for the refurbishments of Units 3, 1 and 4," said Subo Sinnathamby, Senior Vice President, Nuclear Refurbishment. "And we've already started to see efficiency gains in safety, schedule, and

quality performance."

As a result of this good performance, OPG has now moved into the next segment of work, disassembly. This segment involves removing key components from Unit 3, such as the feeder tubes and feeder assemblies. In May of this year, the project team successfully removed all 960 feeder tubes, and is advancing the preparatory work for the removal of fuel channel assemblies.

The disassembly segment of the project is bringing OPG that much closer to providing another 30+ years of clean, reliable and low-cost energy for the people of Ontario.



Get to Know Us: Subo Sinnathamby



The refurbishment project is progressing well and that is in large part due to the team leading it; meet Subo Sinnathamby, Senior Vice President, Nuclear Refurbishment.

With a 20+ year history at OPG, Subo has worked on many projects, notably, her lead role in the Darlington defuelling activities for the Unit 2 refurbishment nearly four years ago. Subo has brought her expertise back to the

refurbishment project as its Senior Vice President.

As an Environmental Engineer with strong ties to the Durham Region, Subo knows the importance this refurbishment project has to the community and Ontario's climate change goals. With a focus on diversity, innovation and strong safety performance, Subo plans to deliver on her goal, and elevate the refurbishment project to the next level.



Returning! PowerON Tuesdays

Unleash your creativity with art, learn about biodiversity in your backyard, and explore science.

Families can pick up FREE, fun and educational activity kits that children can do from the safety of home. The program runs on select Tuesdays throughout July and August.

For more information on how to participate visit upcoming events on opg.com/durham.



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Reaching Classrooms Across Ontario – Virtual Power Kids



For more than two decades, OPG's Pickering and Darlington nuclear sites have provided enjoyable, free and educational activities for children. However, due to the ongoing pandemic, OPG developed a new, innovative online program to engage with children. Throughout March and April of this year, OPG launched the OPG Virtual Power Kids program, targeting educators and at-home learners.

Across the five weeks, the virtual program's registration averaged a total of 80,000 students, and captivated those ages 6 to 12 across the province through traditional Indigenous music and storytelling, scientific explorations, creative theatre techniques, unique ways to fight climate

change, and special guest appearances by amazing animal ambassadors! Community partners included: Scientists in School, Earth Rangers, Carea Community Health Centre, Driftwood Theatre, and The Nature Conservancy of Canada.

For OPG and our employees, being a part of the community is about so much more than simply generating electricity, it is about being engaged community members. Virtual Power Kids provided us with the opportunity to reach a record number of Ontarians, with fun programming and educational insights needed to fight against climate change.

Neighbours



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