

SUMMER 2016

A proud part of the community since 1965

PICKERING NUCLEAR

Neighbours Newsletter

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Pickering Nuclear the Backbone of Ontario's Electricity Supply



The Ontario government's 2016 request to pursue the continued operation of Pickering Nuclear to 2024 is good news for the environment and the economy.

OPG's Pickering Nuclear Generating Station is one of Ontario's most important generating assets, providing 14 per cent of the province's electricity. With a total output of 3,100 megawatts, enough to power one and half a million homes each day. Its reliable base-load power with virtually no greenhouse gas (GHG) emissions has helped fuel Ontario's economic growth and has formed part of the backbone of Ontario's electricity supply since the 1970's.

Continued safe operation of the Pickering station to 2022 and 2024 would save Ontario electricity consumers \$600 million, avoid eight million tonnes of GHG emissions (equivalent to the annual emissions of 1.6 million cars), and protect 4,500 jobs across Durham Region.

OPG has started work on a licence application for Canadian Nuclear Safety Commission (CNSC) approval in 2018. As part of this process, OPG will be required to demonstrate to the CNSC's satisfaction that the Pickering Station is able to continue operation in a safe and reliable manner.

Industry-leading safety record:

- Performance of the units at Pickering Nuclear has continued to improve in safety and operational performance in recent years.

Significant generation:

- Technical work shows that Pickering Nuclear can be safely operated to 2024.
- Extending Pickering's operation would ensure a reliable and clean source of base load electricity during the Darlington and initial Bruce refurbishments.

Good value for electricity consumers:

- The payments for the output of Pickering are regulated by the Ontario Energy Board. These nuclear payments are set at 7 cents per kilowatt hour (KWh). This is significantly below the average cost paid to non-OPG generators, at about 10 cents per kWh.

We will continue our studies and work closely with our community partners to ensure Pickering Nuclear is operated reliably and to the highest standards of safety, security, and environmental stewardship.

Need more information? Join us this fall at our annual community information session to talk to our staff about OPG and our operations here at Pickering. As always, we will be there to answer your questions, drop by our Information Centre, or call us at 905-837-7272, or visit opg.com/pickering.

Strong Commitment to Zero Injuries!

Congratulations to Pickering Nuclear employees who have worked more than three million hours without a lost-time injury – this is a great accomplishment!

At OPG, we believe zero injuries is achievable and it's something we are always striving for. At the end of every shift, we want our employees to return home safely.

ZERO INJURIES

Believe it. Achieve it.

ONTARIOPOWER
GENERATION



Brian McGee
Senior Vice President
Pickering Nuclear

The true measure of our safety performance is not in the awards we receive. Our safety performance is measured each and every day when all of

my staff go home in the same condition as when they arrived at work.

With safety in mind, our station was nominated by the Canadian Nuclear Safety Commission to participate in an Operational Safety Review Team (OSART) mission, which is scheduled to begin this fall, on Monday, Sept. 19 and run for three weeks. OSART missions are reviews conducted by a team of experts representing the International Atomic Energy Agency, who review nuclear power plants around the world for adherence to international safety standards.

The review is designed to provide insight on the status of our performance at site, both in areas where we are functioning well and areas that may offer room for improvement.

The pursuit of nuclear excellence requires constant vigilance and attention to detail, which is why I am so appreciative of this visit, and the insight it will offer. I will provide an update in the coming months about the OSART mission.

In terms of a mid-year update, our station's operational performance continues on a path to excellence. This is a direct result of the ongoing investments we are making in station equipment and systems to ensure the station will continue to operate safely and reliably through to 2024.

I look forward to sharing more successes with you in future editions of *Neighbours*.

Brian

Repurposing Pickering Study Youth Engagement



DC and UOIT students discuss the features of the Pickering Nuclear site at the March 4 youth workshop.

This spring, students from across Durham and Scarborough helped re-imagine uses for the Pickering Nuclear site once the station has stopped commercial operations.

Students from Durham College, University of Ontario Institute of Technology, University of Toronto Scarborough Campus, Centennial College, and St. Mary's, Dunbarton, and Pickering High Schools took part in Youth Engagement Workshops held by the Pickering Repurposing team.

While Pickering Nuclear is pursuing plans to operate to 2024 (pending regulatory approval), OPG continues to explore uses for the facility post-shutdown.

The challenge is to repurpose the site in a way that continues to benefit both OPG and the surrounding communities, while remaining consistent with OPG's decommissioning plans.

"With the long time frame of this process, we recognize the students of today will be the community leaders of tomorrow," said Laurie Swami, Senior Vice President, Decommissioning and Waste Organization, OPG. "We need these students to help imagine what this site will look like when they are working and raising families in Durham Region."

The workshops generated a total of 78 ideas which brings the project's total up to over 700 ideas captured. There were a wide variety of ideas expressed, many of which closely mirrored suggestions made during previous public and stakeholder engagement activities.

Several factors will play a role in the final decision for the preferred site repurposing vision, including the results of ongoing studies, cost and scheduling considerations, and the appropriate approvals. OPG will use this information to make a sound business decision at the appropriate time. Stay tuned for more information.

OPG Kicks Off Ontario Chamber of Commerce Events Across the Province

This May, OPG hosted a special event to discuss the Darlington Refurbishment's impact on job creation and the economy, in partnership with the Ontario Chamber of Commerce and the Clarington Board of Trade.

OPG's President Jeff Lyash, and Senior Vice President Dietmar Reiner, provided a project update and highlighted the financial impact on the provincial economy. "The key to generating power with purpose is recognizing relationships with communities and industry partners matter," said Reiner.

Similar events are taking place in communities across Ontario including York Region, Renfrew County, Peterborough, Northumberland, and Halton Region.



OPG's Deep Geologic Repository Project Update

In February, the Federal Minister of Environment and Climate Change delayed a decision on OPG's Deep Geologic Repository (DGR), causing a pause in the timeline for the Environmental Assessment decision to be issued. The Joint Review Panel (JRP) had recommended to the federal government the project move forward based on the strong technical safety case, however the Minister requested OPG to provide further information.

On Tuesday, April 5, OPG responded to the Canadian Environmental Assessment Agency (CEAA) with a response plan which outlines the timing of when the information will be provided and the approach to meet the three objectives of the Minister's request:

- OPG will assess the environmental effects of two technically and economically feasible locations in Ontario for a new nuclear waste disposal facility. One assessment will consider a similar DGR located in a sedimentary rock formation located in southern Ontario. The second will consider a similar DGR located in a granite rock formation located in central to northern Ontario.
- An updated analysis of the cumulative environmental effects of the project will be done by considering the results from preliminary assessments undertaken by the Nuclear Waste Management Organization for used fuel. OPG will further study the cumulative effects assuming a used fuel repository is sited within the DGR study area.
- OPG will undertake a review of its mitigation commitments and all mitigating actions. Any out-dated or redundant commitments previously brought forward to the JRP will be identified.

OPG will provide the requested studies and additional information by the end of 2016. OPG maintains that a DGR is the right answer for Ontario's low and intermediate level waste, and that the Bruce site is the right location. For additional information about the DGR project please visit www.opg.com/dgr.



DC skilled trades students will benefit from OPG's renewed funding commitment.

OPG, Durham College and UOIT Recommit to Long-Standing Collaborative Partnership

Building on the success of its decade-long collaborative partnership with Durham College (DC) and The University of Ontario Institute of Technology (UOIT), OPG is pleased to announce a \$5-million investment in the college and university. The funding will support capital expenditures, educational program support, laboratory equipment, scholarships and bursaries for students at both institutions.

"OPG is proud to continue our partnership with Durham College and The University of Ontario Institute of Technology," said Jeffrey Lyash, OPG President and CEO. "We believe this partnership creates educational and research opportunities for students who go on to become leaders in our industry and our community."

The investment will support both educational institutions and provide OPG with "career-ready" graduates who are essential to OPG's current and future business plans, including nuclear station operations and the upcoming Darlington Refurbishment to ensure electricity supply for the future.

Annual installments over the next five years will aid the acquisition of training and mock-up equipment for both the college and university, while providing support for UOIT's nuclear engineer in residence position with its Faculty of Energy Systems and Nuclear Science.

The collaborative partnership between OPG, DC, and UOIT has resulted in benefits to each of the partners, and collectively for the Region of Durham and the Province of Ontario. It is an excellent example of what can be achieved when mutually-beneficial opportunities are not only recognized, but are successfully implemented by a team of committed partners.



UOIT Nuclear Engineering students gain hands-on experience in the university's Nuclear Simulation Lab.

Licence Amendment for the Pickering Waste Management Facility

This fall, OPG will be requesting a licence amendment for the Pickering Waste Management Facility to the Canadian Nuclear Safety Commission. The facility is currently in the eighth year of a 10 year licence which is valid to March 2018.

The licence amendment includes additional storage and processing capability of used fuel in support of Pickering End of Commercial life. The Pickering site currently has three used fuel dry storage buildings in operation. A fourth storage building, currently approved for construction, was sized to store 500 Dry Storage Containers (DSCs). The licence amendment will request storage building to accommodate 648 DSCs. The licence amendment will also request construction approval for a new enhanced waste processing building capable of increasing production to 100 DSCs per year to replace the existing facility which has a current capability 50 DSCs per year. Construction of both buildings is planned to commence in 2017.

The planned expansion activities are in accordance with previous completed and approved Environmental Assessments. The licence amendment is expected to be submitted to the CNSC later this fall and will be posted on opg.com.

OPG PICKERING NUCLEAR TUESDAYS ON THE TRAIL 2016

Join us this summer
for free, fun and educational activities.

Programs are suitable for children ages 6 to 12. Adult accompaniment is required.
Due to the nature of program activities, day care groups and camps cannot be accommodated.
Weather permitting, all activities (except sandcastle building) start at the Sandy Beach Road entrance to Alex Robertson Park.
Pre-registration is not required.

TUE
JULY
12

SUN, SHADES AND SANDCASTLES

WHEN 10 a.m. and 1 p.m.

Susan Lindo of **Durham West Arts Centre** joins us on the beach to share amazing sandcastle building techniques. Park at the foot of Liverpool Road and look for the OPG tents on the beach just west of Pickering Nuclear. Be sure to bring sun block!

TUE
JULY
19

PARK RANGER FOR A DAY

WHEN 10 a.m. and 1 p.m.

Do you like adventure, protecting animals and improving the environment? If you do, join **Earth Rangers** and **Toronto and Region Conservation Authority** to experience a day in the life of a Park Ranger.

TUE
JULY
26

ACTING UP

WHEN 10 a.m. and 1 p.m.

Calling all budding actors! Join the **Driftwood Theatre** group for an outdoor theatre experience with a fun, hands-on workshop.

TUE
AUGUST
2

INDIGENOUS TRADITIONS

WHEN 10 a.m. and 1 p.m.

Join Cecile Wagar and friends of **All Our Relations Métis Drum Circle** to learn about the beauty of Mother

Earth through traditional Indigenous teachings, crafts and music.

TUE
AUGUST
9

FARM TO PARK

WHEN 10 a.m. and 1 p.m.

Is it a goose or a duck, a bunny or a hare? You're sure to find out when you meet animal friends from **WindReach Farm** for an up close and personal look at life on a farm.

TUE
AUGUST
16

ART IN THE PARK

WHEN 10 a.m. and 1 p.m.

Unleash your creativity with artists from **PineRidge Arts Council** under the beautiful tree canopy in Alex Robertson Park. Trees, flowers, bugs and birds are sure to inspire some awesome creations.

TUE
AUGUST
23

DAY OF DISCOVERY

WHEN 10 a.m. and 1 p.m.

Join **Scientists in School** for some sensational summer science. Build your own elastic racer, defy gravity with amazing balancing toys, and design and build a rollercoaster. Cool fun for everyone!



For more information, please call the Pickering Nuclear Community Information Line at 905-837-7272 or visit www.opg.com/pickering



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Neighbours



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