

Neighbours

Pickering | Darlington
Nuclear Generating Stations



Salmon hatchery in full swing!

The Pickering and Darlington information centres have some new residents: each is now home to 100 salmon eggs.

Pickering Nuclear has hosted an educational salmon hatchery since 2011 and Darlington Nuclear received their hatchery in 2019. This is part of the Ontario Ministry of Natural Resources and Forestry, Ontario Federation of Anglers and Hunters Bring Back the Salmon initiative. The program is designed to re-establish a self-sustaining population of Atlantic Salmon in Lake Ontario. OPG is lead sponsor for this program.

Over the next three months, Grade 5 and 6 students from Sir John A. MacDonald in Pickering and St. Joseph's in Coburg will track the progress of the eggs as part of OPG's outreach and educational

component of the Bring Back the Salmon program.

In late spring, they will release the fry (young salmon) into Duffins Creek and Cobourg Creek respectively.

Mix inquiring minds; water, salmon, with an opportunity for an up close and personal experience with a dash of hands-on learning, and you get engaged, environmentally-minded ambassadors for our future.

OPG is proud to be able to provide this opportunity to our student communities and to have contributed over 1,000 salmon through our hatcheries to the restoration initiative.

Visit bringbackthesalmon.ca for more information.



March break blitz

Name change alert!

Still the same line-up of engaging and fun programs, but will now be known as March Break Blitz.

Be sure to check out the back page for this year's line-up.

Our staff hope to see you there!

In this issue:

Two major milestones ahead

Life saving Cobalt-60

Record-setting year for Nuclear fleet

March Break Blitz

ONTARIOPOWER
GENERATION

OPG prepares for two major milestones on the Darlington Refurbishment Project

More than three years ago, OPG and our project partners began the Darlington Refurbishment with Unit 2; the first of four reactors scheduled for refurbishment. This year, the project team is preparing for two major milestones: Unit 2 restart and Unit 3 breaker open.

“Construction on Unit 2 is nearly complete, which will bring us another step closer to returning the reactor to service,” said Mike Allen, Senior Vice President, Unit 2 Nuclear Refurbishment. “Next, we’ll be starting the process of reconnecting the unit to the station.”

The final effort will be to remove equipment and tooling and then begin the two-month long process

of testing all critical safety systems and starting up Unit 2.

While we progress through these final stages of Unit 2 refurbishment, the project team will also be finalizing plans and preparations for Unit 3 breaker open, the process by which we will disconnect the next reactor from the grid.

“We’re ready,” said Bill Owens, Senior Vice President, Unit 3 Nuclear Refurbishment. “We’ve taken note of more than 3,500 lessons learned from the Unit 2 refurbishment and have built them into our plans for Unit 3 and subsequent units.”

The four-unit Darlington Refurbishment Project remains on track for completion in 2026.



OPG seeks licence renewal for Darlington New Nuclear

This year, OPG will be seeking a licence renewal from the Canadian Nuclear Safety Commission (CNSC) for the site preparation activities that would be required for new nuclear generation at Darlington.

The existing ten-year licence was obtained in 2012 following an extensive public hearing conducted in Clarington by the CNSC and Canadian Environmental Assessment Agency. Renewing the licence helps to maintain the option for reliable, carbon-free nuclear energy to continue to be a key part of Ontario’s low-emission energy mix.

Visit www.opg.com for more information about the application to be filed this year and the CNSC’s licence renewal process (expected to take place in 2021), as well as OPG’s important role as Ontario’s clean power generator.

Life saving Cobalt-60

For almost 50 years, Pickering Nuclear Generating Station has been a source of one of the world’s most valuable isotopes Cobalt-60.

Production of Cobalt-60 will be continued at Darlington in the years ahead thanks to an agreement between OPG and Nordion, an Ottawa-based health sciences company. This agreement will allow OPG to continue to supply Cobalt-60 across Canada and around the world. The isotope Cobalt-60 is used to irradiate and sterilize single use medical devices as well as various foods and spices.

“With Darlington’s ongoing mid-life refurbishment, the station will be a steady and reliable source of medical isotopes for the next 30-plus years,” said Ken Hartwick, President and CEO of OPG. “We’re very proud of our legacy

of Cobalt-60 production at Pickering and look forward to continuing this at Darlington.”

Currently, Ontario’s nuclear reactors produce 50 per cent of the world’s supply of Cobalt-60.



Harvesting Cobalt-60



Nuclear fleet celebrates record-setting year

It was a record-setting year for our nuclear fleet.

In 2019, Pickering and Darlington Nuclear achieved their best performance ever. Both stations were recognized by the World Association of Nuclear Operators for being among the top performing nuclear stations in the world.

In 2019, Pickering Nuclear produced 23.6 TWh of clean electricity for the province, the highest ever yearly output for the six-unit, 3,100-megawatt station.

Since 2017, three of Pickering's six units have recorded their longest continuous operating runs in history, including Unit 4, which has now been reliably

producing baseload electricity for more than 500 consecutive days.

Darlington Nuclear has also achieved remarkable results, including its best-ever conventional safety performance, lowest station backlogs in history and \$280 million of new equipment put into service.

Darlington saw a record run on Unit 1, with the longest run of any unit in station history.

The dedication of staff, many whom reside in the region, along with the commitment to safety, continuous improvement and a drive to excellence, both stations are working toward a repeat performance in 2020.



Pickering Nuclear



Darlington Nuclear



A note from Scott on the false alert received from the Provincial Emergency Operations Centre



Scott Burns
VP Security & Emergency Services, OPG

On January 12, people across the province – including OPG employees – were awakened by an Alert Ready warning that was issued in error by the Provincial Emergency Operations Centre (PEOC) during routine training. At the time, our Pickering units were operating as designed, and no notifications indicating otherwise had been issued to PEOC. OPG urged the Province's Emergency Operations Centre to issue a retraction.

Ensuring our residents are well informed and know what to do in

the unlikely event of an emergency is a priority for me and for OPG. We believe an informed community is a prepared community.

I invite you to stop by our Information Centres or call our community information lines at 905-837-7272 or 905-623-7122 to speak with staff about the steps OPG has in place to protect the public. Additionally to familiarize and better prepare yourself and your family I encourage you to visit durham.ca/nuclear preparedness.

OPG's number one priority is, and will continue to be the safety of our employees, the station, the environment and our host communities.





Brought to you by OPG's Pickering and Darlington Nuclear Stations

MON
MARCH
16

Turtle Tales

When: 10 a.m. to 2 p.m.
Where: Darlington Nuclear Information Centre,
1855 Energy Drive, Courtice

Meet turtle ambassadors up close and personal and learn how you can become a champion of the environment with our friends from Ontario Turtle Conservation Centre and Ganaraska Region Conservation Authority.

TUE
MARCH
17

Kids' Safety Village Durham

When: 10 a.m. to 2 p.m.
Where: 1129 Athol St., Whitby
Explore safety in a kid-sized village!
All activities are outdoors. Please dress for the weather.

WED
MARCH
18

Community Skate

When: 9:30 a.m. to 1:30 p.m.
Where: South Courtice Arena,
1595 Prestonvale Rd., Courtice
Gather your skates, helmet, family and friends. Beginner or expert, young or old, skating is fun for everyone!

WED
MARCH
18

Community Swim

When: 1 to 4 p.m. and 7 to 9 p.m.
Where: Pickering Recreation Complex,
1867 Valley Farm Rd., Pickering

Lots of splashing, lots of laughing – and great exercise for all! Admission is free during program hours. Pool has maximum occupancy, so it's first – come first – serve.

THU
MARCH
19

Family Fun at the Farm*

When: 10 a.m. to 2 p.m.
Where: WindReach Farm (see www.windreachfarm.org)
Enjoy snowshoeing, wagon rides and a campfire; make crafts and meet the farm animals.

*A \$20 charitable donation to the farm is appreciated. Please dress for the weather. Food and refreshments are available for purchase.

FRI
MARCH
20

Turtle Tales

When: 10 a.m. to 2 p.m.
Where: Pickering Nuclear Information Centre,
1675 Montgomery Park Rd., Pickering

Meet turtle ambassadors up close and personal and learn how you can become a champion of the environment with our friends from Ontario Turtle Conservation Centre and Toronto & Region Conservation Authority.

Programs are all free and suitable for children age 6 to 12. All children must be accompanied by an adult. For more information, please visit www.opg.com

Neighbours



Darlington Nuclear

1855 Energy Drive
Courtice, Ontario
L1E 0E7

(905) 623 7122

darlingtonnuclear@opg.com

Pickering Nuclear

1675 Montgomery Park Rd.
Pickering, Ontario
L1V 2R5

(905) 837 7272

pickeringnuclear@opg.com

ONTARIOPOWER
GENERATION

opg.com