

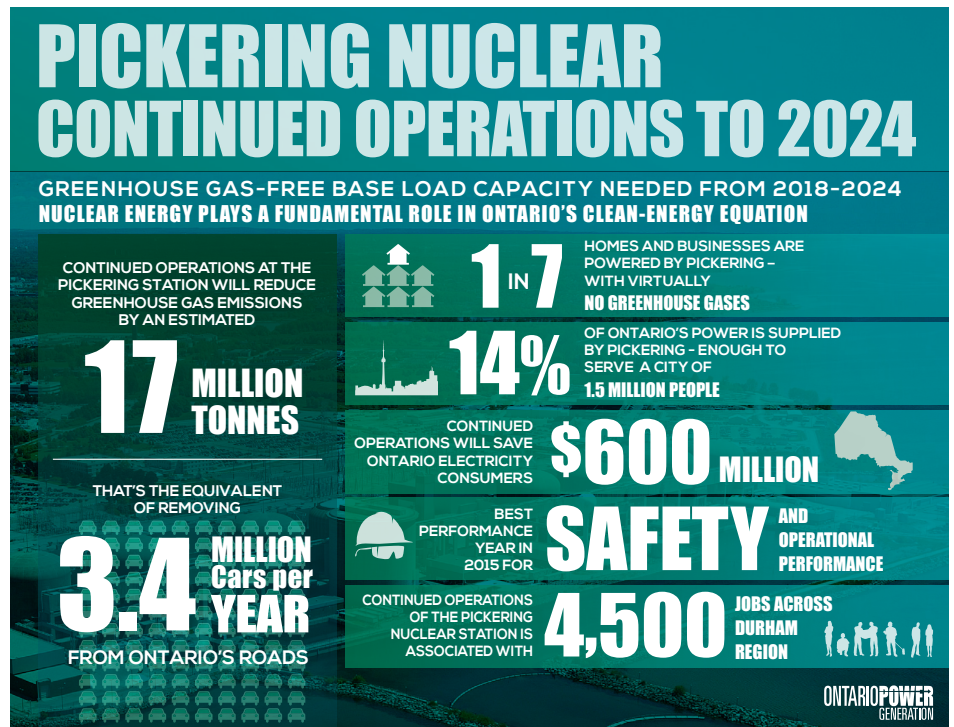


Pickering Nuclear Important to Ontario's Electricity Grid

Nuclear energy continues to play a fundamental role in Ontario's clean-energy equation. Last year, the Ontario government approved OPG's plan for continued operations at Pickering Nuclear until 2024. The decision will ensure a reliable and clean source of low-cost, base load capacity during the Darlington and initial Bruce refurbishments.

"To this point our ongoing technical work shows that Pickering can be operated to 2024 with a large margin for safety. Doing so will save Ontario electricity customers up to \$600 million and protect 4,500 jobs across the Durham Region, while reducing greenhouse gas emissions by an estimated 17 million tonnes," said Brian McGee, Senior Vice President Pickering Nuclear. "We will continue to work closely with our community partners as we go through this process."

Today, 1 in 7 homes and businesses are supplied with electricity generated by Pickering Nuclear with virtually no greenhouse gas emissions. Our station provides about



14 percent of Ontario's electricity, which is enough to supply a city of 1.5 million people.

Continued operations at Pickering Nuclear will require CNSC approval. OPG has started work on a licence application for approval in 2018. ■

DGR for nuclear waste: A lasting solution, for peace of mind



Progress continues toward a decision in 2017 on OPG's proposed Deep Geologic Repository (DGR) for low-and intermediate-level nuclear waste.

Currently, such waste is stored at the Bruce nuclear site. For permanent storage, experts agree that an accepted best practice is to build a DGR, a rock vault far below the surface. The proposed Kincardine site has ideal geology: 680 metres below ground, in impermeable rock that has been stable for 450 million years.

A federal Joint Review Panel reported in 2015 that OPG's DGR would protect the environment for hundreds of thousands of years. It recommended approval "now rather than later."

Last year, the Federal Minister of Environment and Climate Change asked OPG for additional studies, including the environmental effects of a DGR at alternate locations. Completed in December, the studies show that OPG could build the DGR elsewhere in Ontario, but with additional delays, risks and environmental

Story continued on page 2

Cover story continued ...

DGR for nuclear waste: A lasting solution, for peace of mind

effects and adding up to \$3.5 billion in costs, largely due to transporting the existing waste to a new site.

Darlington Refurbishment Hits First Milestone

Defuelling of Unit 2 Completed Safely and Ahead of Schedule



The first phase of refurbishment, defuelling of Unit 2, wrapped up ahead of schedule, thanks in large part to the extensive planning and preparation done in the full-scale reactor mock-up located in the Darlington Energy Centre.

The first major stage of Canada's largest clean energy project has been safely completed almost a month earlier than anticipated.

Staff working to remove fuel from the reactor core on Unit 2, the first of Darlington Nuclear's four reactors to undergo refurbishment, have completed this phase of the project safely, on budget and ahead of schedule.

"This success was the direct result of years of detailed planning and preparation, and the dedication of employees

The Canadian Environmental Assessment Agency is reviewing these findings – see www.ceaa.gc.ca. – with its analysis expected mid-year, followed by the Minister's decision by fall. If approved, OPG's DGR could be in service in 10 years – a lasting solution, offering peace of mind. ■

and project partners putting safety and quality first," said Dietmar Reiner, Senior Vice-President, Nuclear Projects.

At its peak, refurbishment will create an average of 14,200 jobs per year. While benefits are being felt province-wide, nowhere are they more evident than in the Durham Region and Clarington.

"It's hard to overstate the huge and beneficial impact that the Darlington Refurbishment is having on Clarington," said Clarington Mayor Adrian Foster. "We're seeing jobs and opportunity - there's a real buzz around town."

The numbers speak for themselves, said Sheila Hall of Clarington's Board of Trade and Office of Economic Development.

"In 2012 we had less than 10 employees based in Clarington in the supply chain workforce; today, we have close to 200. In that time, we have welcomed Worley Parsons, Black and McDonald and Crossby Dewar to our business community," she said.

Refurbishing Darlington will provide an additional three decades of safe, reliable baseload power with virtually no greenhouse gas emissions. It will also allow OPG to continue to moderate electricity prices.

The Darlington Refurbishment project began in mid-October, when the breaker was opened disconnecting Unit 2 from Ontario's power grid to allow refurbishment work to commence.

It is anticipated that the entire project will take close to 10 years. ■



Brian McGee, Pickering Nuclear's Senior Vice President (centre) provides a presentation about station operations to local residents during a community information session.

Thanks for Joining us at the Pickering Nuclear Community Information Sessions

In late October, Ontario Power Generation hosted a series of community information sessions in Scarborough, Pickering and Ajax.

Staff members from OPG were on hand to share information on all aspects of operations at Pickering Nuclear, and to answer questions from attendees. Representatives from the Durham Region Emergency Management Office, Durham Health Department, City of Toronto Emergency Management Office and the office of Fire Marshal and Emergency Management were also on hand to provide information and answer questions about their role in emergency planning and preparedness. A site representative from the Canadian Nuclear Safety Commission also attended the sessions to share information about the federal regulator's role.

If you were unable to attend, the session materials are available on OPG.com. If you have questions about operations at Pickering Nuclear, please contact us any time at 905-837-7272 or pickeringnuclear@opg.com. ■



Darlington Nuclear Security Staff Jump to Action to save Employee's life

"I'm proof that your training does work."

That was the heartfelt message 61-year-old Mike Conlin delivered Jan. 3 at Darlington Nuclear Generating Station to the 20 or so OPG security and emergency staff who helped save his life.

On Nov. 3, Conlin was heading home from his job as an electrical supervisor at Darlington Nuclear when he suffered a heart attack behind the wheel of his minivan.

Following behind him was Julie Metcalf, an off-duty nuclear security officer who was also heading home.

Metcalf stopped her car and jumped into action. When she reached Conlin's



Mike Conlin (left) had an opportunity to thank the Darlington nuclear security officers who came to his rescue when he had a heart attack while driving on Holt Road. With Mr. Conlin are Julie Metcalf, Ben Sipe and Alvis Bernardi.

minivan, she found him gasping for air. She reached into the open window to put the vehicle into park and recline Conlin's seat before calling 911.

Two other nuclear security officers, Ben Sipe and Alvis Bernardi, arrived shortly after to pull Conlin out of the vehicle as Sipe continued to perform chest compressions. A defibrillator was used to help restart Conlin's heart.

The actions of these early responders likely saved Conlin's life.

"If Julie hadn't stopped and taken the five minutes to help, I wouldn't be here today," Conlin said at a lunch gathering at Darlington Nuclear.

"From the bottom of my heart, I thank all the responders who came and helped." ■

OPG Recognized for Safety and Relationship building

This past fall, OPG was recognized by the Canadian Electricity Association (CEA), with both the President's Gold Award of Excellence for Employee Safety and its Leadership in External Collaboration and Partnerships Award.

The President's Gold Award for Excellence in Employee Safety is in recognition for maintaining an all injury and accident severity rates in the top quartile for three consecutive years.

The Leadership in External Collaboration and Partnerships Award was given to OPG in recognition of work with indigenous communities. Since 2007, when OPG outlined its First Nations (FN) and Métis Relations policy, OPG has partnered with the Lac Seul First Nation on a new station, the Moose Cree FN on the \$2.6 billion Lower Mattagami hydroelectric project, and now with Taykwa Tagamou Nation on the new Peter Sutherland Sr. Generating Station.

OPG has resolved 23 past grievances with 21 First Nations (since 1992) and today, continues to work collaboratively with indigenous communities to create opportunities for employment, training, education, business and procurement and of course – community capacity building. Well done to the many staff working on this file; this award is well deserved. ■

Pickering Waste Facility Seeks New Licence

OPG is seeking a 10-year licence renewal for the Pickering Waste Management Facility (PWMF).



If approved, the licence would allow continued operation of the Dry Storage Container (DSC) Storage Buildings, and construction and operation of a new DSC Processing Building as well as three additional DSC Storage Buildings on the Phase II site. This will support the continued operation of Pickering Nuclear, pending other regulatory approvals.

The current operating licence for the facility, located at the Pickering Nuclear site, expires on March 31, 2018.

OPG continues to participate in stringent environmental reviews and monitoring of site operations to ensure there are no consequences to the environment.

The planned expansion activities are in accordance with previous completed and approved Environmental Assessments. The CNSC will hold a public hearing on April 12, 2017 to consider OPG's application. For more information visit the PWMF Licence Renewal webpage at – opg.com. ■

MARCH BREAK MADNESS 2017

BROUGHT TO YOU BY OPG'S
PICKERING AND DARLINGTON NUCLEAR STATIONS

MON
MARCH
13

FREE

TAKE A HIKE*

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

WHERE: Claremont Conservation Area – Field Centre

Find out about the wildlife that calls the Claremont Conservation Area home as we hike to a variety of activity centres and finish with a warming campfire.

*Preregistration is required at opg.com

WED
MARCH
15

FREE

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.

MON
MARCH
13

FREE

SPRING WATER SURPRISE*

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

WHERE: Darlington Nuclear Information Centre
1855 Energy Drive, Courtice

Join staff from Ganaraska Region Conservation Authority to learn about spring water safety through cool science experiments and fun activities.

*Preregistration is required at opg.com

THU
MARCH
16

FREE

FAMILY FUN AT THE FARM*

WHEN: 10 a.m. to 2 p.m.

WHERE: WindReach Farm (see 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.

TUE
MARCH
14

FREE

KIDS SAFETY VILLAGE

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.

FRI
MARCH
17

MAPLE TIME FUN*

WHEN: 9:30 a.m. to 2:30 p.m.

WHERE: Purple Woods Conservation Area
Maple Syrup Festival, North Oshawa

From the clear sap of a maple tree comes one of Canada's tastiest treats! OPG activities are FREE but there's a \$5 per person admission fee to Purple Woods.

*Admission tickets must be purchased in advance at cloca.com; additional cost for non-OPG activities.

WED
MARCH
15

FREE

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. Skating is fun for everyone!

Pad A – Learners Skate; Pad B – General Public Skate.

FRI
MARCH
17

FREE

EUREKA*

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

WHERE: Pickering Nuclear Information Centre
1675 Montgomery Park Rd., Pickering

Calling all scientists! Embark on a journey of discovery, and unlock the mystery and magic of science with *Let's Talk Science* and the Pickering Library.

*Preregistration is required at opg.com

Programs are suitable for children ages 6 to 12. All children must be accompanied by an adult.

For more information, please visit opg.com

NEIGHBOURS
PICKERING NUCLEAR • DARLINGTON NUCLEAR

Darlington Nuclear
Nuclear Box 4000
Bowmanville, Ontario L1C 3Z8

Contact: (905) 623-7122

Internet E-mail:
DarlingtonNuclear@opg.com

Pickering Nuclear
1675 Montgomery Park Rd.,
P.O. Box 160
Pickering, Ontario L1V 2R5

Contact: (905) 837-7272

Internet E-mail:
pickeringnuclear@opg.com

**ONTARIOPOWER
GENERATION**

