

# 2022 Year in Review

ONTARIO **POWER**  
GENERATION

Where a brighter  
tomorrow begins.

# Agenda

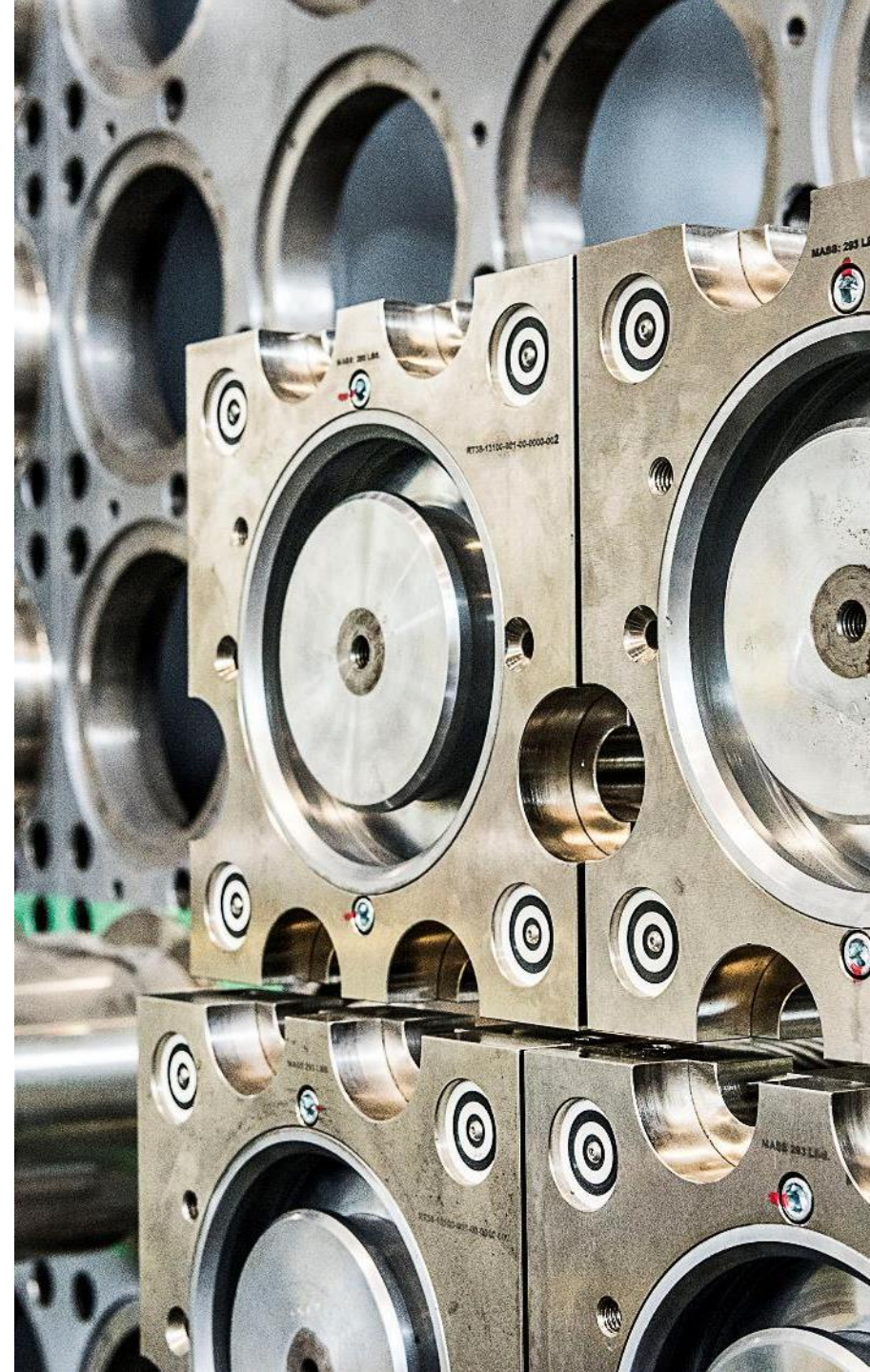
- Tours
- Information Centres
- Programs and Events

# OPG's Vision, Mission and Goals for 2022

OPG strives to make a difference and help improve the well-being of the communities that host its operations.

We believe this is essential to being a good corporate citizen and neighbour.

OPG is committed to providing timely and ongoing communications to stakeholders and our host communities.



# Tours

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# Darlington Tours

45 general with 424 participants



# Pickering Tours

**11** Tours with **125** participants

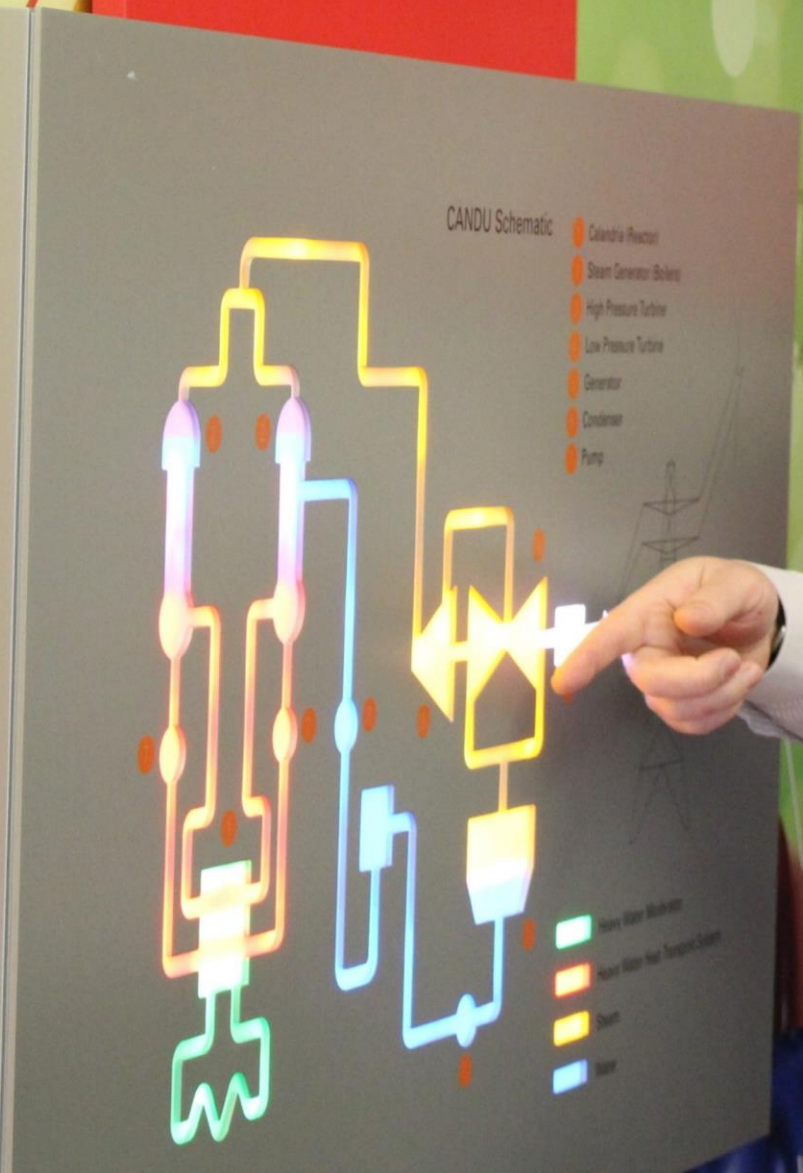


# Information Centres

OPG reopened their information centres to the public on July 4<sup>th</sup>, 2022.

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**111 visitors at Pickering**  
**98 visitors at Darlington**



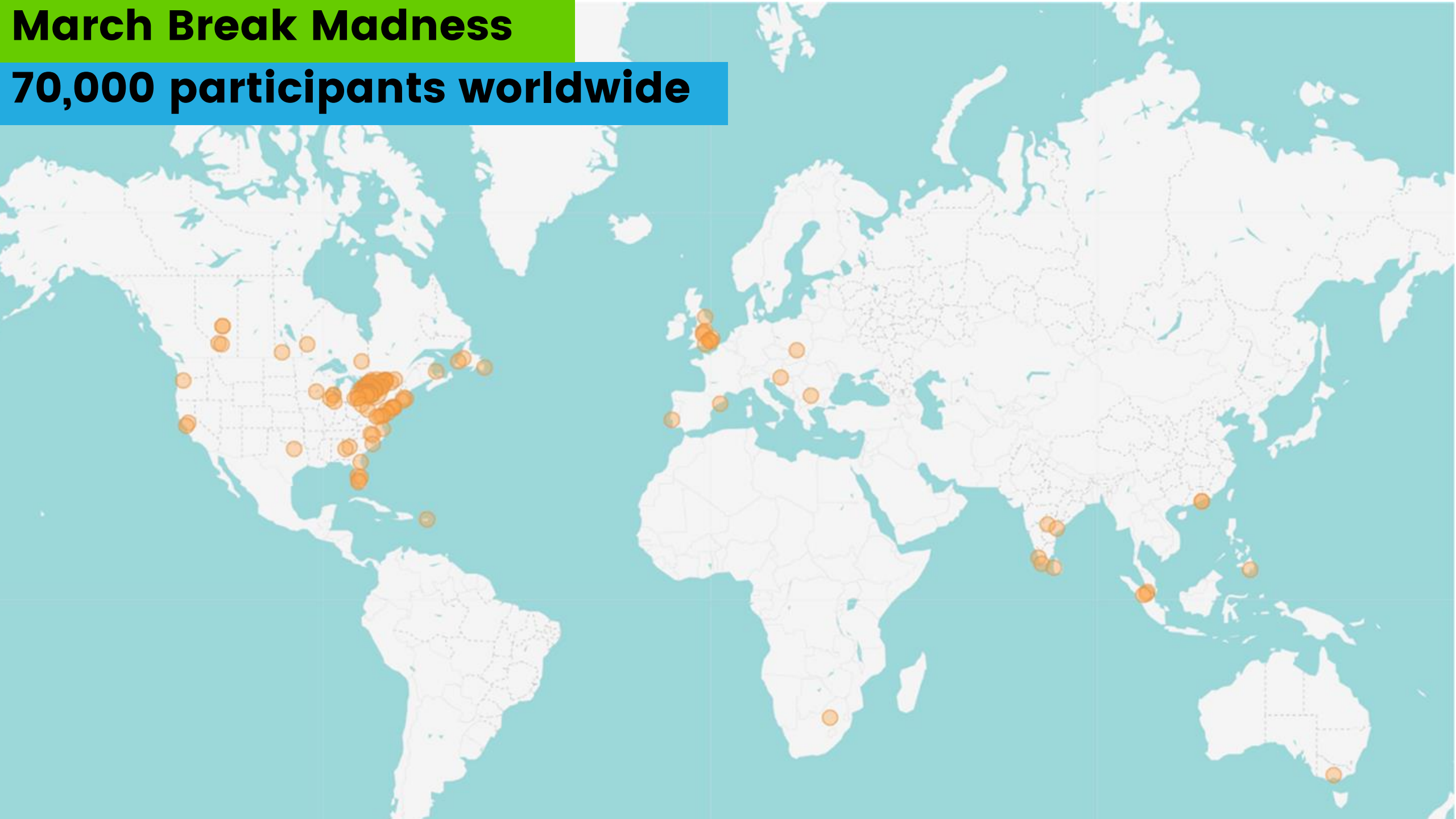
# Programs and Events

OPG strives to be engaged community members that encourage and support local organizations and initiatives that help keep our communities strong and healthy.

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# March Break Madness

70,000 participants worldwide



# Tuesdays on the Trail

**1,500 participants**

- Program ran on various Tuesdays throughout July and August



# Bring Back the Salmon

## 92+ Elementary School Classrooms



- 2022 Bring Back the Salmon education program was delivered to more than 92 classrooms over a 15-week period
- Launched in 2006, the program seeks to restore a self-sustaining Atlantic Salmon population to Lake Ontario
- OPG has helped stock more than seven million Atlantic Salmon in four target tributaries of Lake Ontario

# Poppy Campaign

- The Poppy Campaign is one of the Royal Canadian Legion's most important programs
- The money raised from poppy donations provides direct assistance for ex-service people in financial distress, as well as funding for medical instruments and research, home services, care facilities, and more.
- Each year veterans from the Royal Canadian Legion visit both the Darlington and Pickering stations to aid with gate collection



# Kids Safety Village

- Through our CCP sponsorship funds, OPG currently holds a 20-year lease on one of the store fronts at the Durham Kids Safety Village in Whitby, ON
- We decorate our building for three seasonal walk-through events including Easter, Halloween and Christmas



# Powering the Environment

602 participants

- Pickering April curbside shrub giveaway (350 Participants)
- Pickering September tree planting in Dufferin Heights (92 Participants)
- PLC Pollinator Garden Planting (10 Participants)
- Wilmot Nature Area Community Monarch Tagging Event (150 Participants)



# Virtual Power Kids

80,000 participants

- Throughout March and April of this year, we launched the new OPG Virtual Power Kids program
- Students ages 6 to 12 across the province, the opportunity learn about biodiversity, STEM, Indigenous culture, arts and climate change



# Collection of Additional Programming

- Outside of our large fleet programs, OPG participates in local community events:
  - City of Pickering Winter Lights Tree Lighting
  - Harvest Festival
  - Canada Day
  - Summer Reading Club



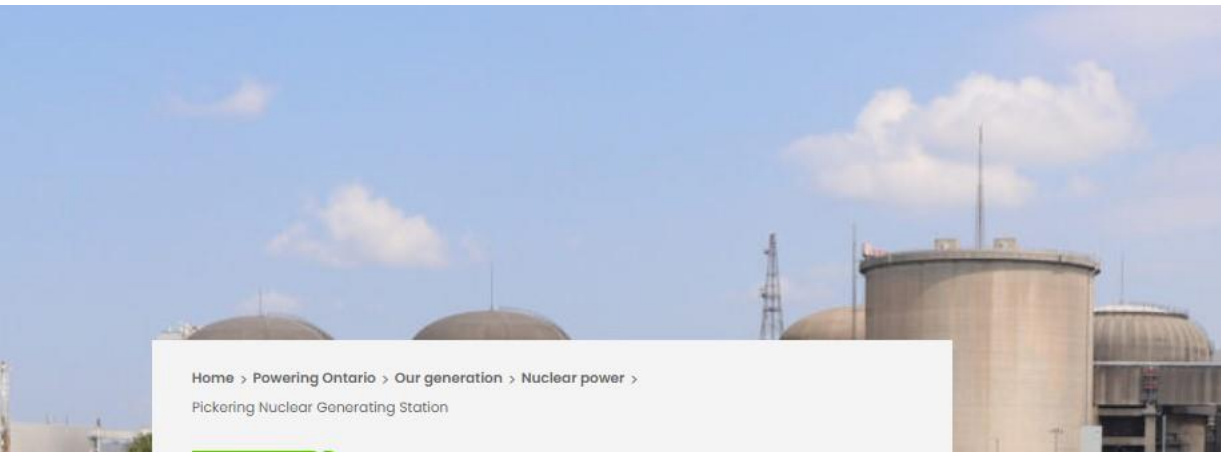
# OPG's Community Open House

2,400 participants



# Social Media & Websites

- Darlington Nuclear: 15,796 impressions
- Darlington New Nuclear Project: 15,734 impressions
- Pickering Nuclear: 24,616 impressions
- Darlington Refurbishment: 1,689 impressions



Home > Powering Ontario > Our generation > Nuclear power >  
Pickering Nuclear Generating Station

## Pickering Nuclear Generating Station

Located in Pickering, Ontario (just east of Toronto), Ontario Power Generation's Pickering Nuclear Generating Station (GS) is one of the largest nuclear stations in the world and has been safely and reliably providing Ontario with power for decades.

Learn more about this world-class facility, which features six operating CANDU® reactors (CANadian Deuterium Uranium), and accounts for approximately 14% of Ontario's electricity needs, while generating power that is virtually emissions-free.

## Darlington Refurbishment Project: The latest news

Jump to a section

Explore the most recent news, updates and information about Ontario Power Generation's [Darlington Refurbishment Project](#), one of Canada's largest clean-energy initiatives.

FEATURED NEWS



Home > Powering Ontario > Our generation > Nuclear power >  
Darlington Nuclear Generating Station

## Darlington Nuclear Generating Station

Located in the Municipality of Clarington in Durham Region (70 km east of Toronto), Ontario Power Generation's Darlington Nuclear Generating Station is a four-unit facility responsible for generating over 20% of Ontario's electricity needs, which is enough energy to power 2 million homes.

Explore how Darlington is an efficient and valued supplier of energy and employment in Ontario.

In this section

[Darlington New Nuclear >](#)

# Newsletters & Our Stories

- 1 newsletters relating to OPG's nuclear fleet and projects
- 15 our stories relating to OPG's nuclear fleet and projects

OUR STORIES

## Major maintenance project at OPG's Pickering Nuclear successfully completed

Home > News and media > Our stories > Major maintenance project at OPG's Pickering Nuclear successfully completed

NOVEMBER 9, 2022

### At a glance

- Inspection and maintenance of Pickering Nuclear Generating Station's vacuum building successfully completed in November.
- Concrete structure a unique safety feature of CANDU stations.
- Drones, divers helped save time and costs for important outage.

Drones, divers, and submersibles helped complete rigorous inspections and testing of Pickering Nuclear Generating Station's vacuum building, an important safety component, during a month-long outage.

The vacuum building – a cylindrical concrete structure standing more than 50 metres high – is a unique safety feature of CANDU stations like OPG's Pickering Nuclear and Darlington Nuclear.

Maintained at negative atmospheric pressure, Pickering's vacuum building is connected to all units through a 2,000-foot pressure relief duct. In the unlikely event of a steam release from Pickering's reactor buildings, the vacuum building would suck any steam through the duct where it would be condensed and contained.

Outages to inspect and repair the vacuum building are conducted as part of the station's operating licence requirements.



OPG employees control a drone to inspect Pickering Nuclear's vacuum building.

OUR STORIES

## OPG makes history at Pickering Nuclear with first all-women led crew

Home > News and media > Our stories > OPG makes history at Pickering Nuclear with first all-women led crew

APRIL 14, 2022

History was made at OPG's Pickering Nuclear Generating Station on the March 17<sup>th</sup> night shift with the first-ever, all-women led crew ensuring the effective and safe operation of Pickering's six units.

At the helm that milestone night were Shift Managers Julie Thrasher and Krista Huszarik, who oversaw the entire station's operations, and Control Room Shift Supervisors Sara Rasouli and Kasia Carisse, who were responsible for managing the authorized nuclear operators in the plant's two control rooms.

While staffing conditions lined up just right for this particular shift to take place, the achievement was a proud moment for all involved and reflects the strong progress made by OPG to address systemic barriers to becoming more equitable and inclusive, progress the company is building on with its new [10-year Equity, Diversity and Inclusion \(EDI\) Strategy](#).



From left to right: Sara Rasouli, Control Room Shift Supervisor, Kasia Carisse, Control Room Shift Supervisor, Krista Huszarik, Shift Manager,

OUR STORIES

## Transformer replacements at Darlington Nuclear set to ensure reliable delivery of clean power

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Transformer replacements at Darlington Nuclear set to ensure reliable delivery of clean power

MAY 4, 2022

At OPG's Darlington Nuclear Generating Station, first-of-a-kind work is underway to replace key transformers responsible for delivering the station's clean power to Ontarians.

As part of the station's ongoing refurbishment, this latest overhaul project aims to install new Main Output Transformers (MOT) and Unit Service Transformers (UST) at each of Darlington's four units.

The MOT steps up the voltage of the electricity generated at Darlington so that it can be safely transmitted to the grid. Meanwhile, the UST steps down the voltage to help power auxiliary systems at each Darlington unit.

With more than 25 years of in-service time, Darlington's transformers are approaching their end of life. The project to replace them is the first of its kind for the station and for OPG.

"These transformers are the final piece of the puzzle for the Darlington station," said Teodora Tasic, a Technical Engineer with OPG's Nuclear Projects division. "They ensure the electricity generated here can be transmitted throughout Ontario and to the station to support important auxiliary systems."



A look at new transformers installed at Darlington Nuclear's Unit 3 in July 2021.

**Total Fleet Programming**

**155,400 participants**



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