

Performance Update

As part of our commitment to keep you informed, this report tracks performance for Ontario Power Generation’s Darlington Nuclear in the areas of safety, operational and environmental performance and significant accomplishments during the first quarter of 2021.



Electricity Production – (the electrical energy generated, minus station needs)

OPG’s nuclear electricity generation for Q1 of 2021 totalled 8.9 terawatt hours (TWh) compared to 11.1 TWh in 2020 in the same quarter. In Q1, Darlington Nuclear produced 4.1 TWh of electricity, which was 11 per cent of the electricity produced in Ontario.



Reliability – Unit Capability Factor

Compared to Q1 in 2020, Darlington’s unit capability factor for Q1 2021 is lower (73.62) primarily as a result of an increase in the number of days the station has been shut down for maintenance outages.



Environment – Spills to the Environment

During Q1 2021, Darlington Nuclear recorded one spill to the environment that was reportable to a regulatory authority.

Safety

Total Recordable Injury Frequency:

Total Recordable Injury Frequency (TRIF) measures the number of injuries involving OPG employees that result in a fatality, lost time, requiring restricted work and requiring medical treatment per 200,000 hours. In Q1 2021, Darlington Nuclear recorded 0.29 injuries per 200,000 hours worked.



Legend

- Excellent Performance**
better than target by 5%
- Good Performance**
within target range of 5%
- Marginal Performance**
worse than target by more than 5%
- Poor Performance**
worse than target by 10% or more mitigating actions required

Performance Report for **Darlington Nuclear****About OPG's Nuclear Power Stations**

Ontario Power Generation owns and operates the Pickering and Darlington Nuclear Generating Stations. The two stations have a combined generating capacity of about 5,728 megawatts with Darlington Unit 3 currently in refurbishment. Accounting for 28 per cent of the electricity produced in Ontario in Q1, OPG's nuclear units generated 8.9 terawatt hours.



Keeping you informed about milestones and items of interest achieved by Darlington Nuclear and across OPG:

Reaching Classrooms Across Ontario - Virtual Power Kids: In March and April of this year, we launched the new OPG Virtual Power Kids program, targeting educators and at-home learners.

These virtual learning sessions captivated over 16,000 students, ages 6 to 12 across the province, through traditional Indigenous music and storytelling, awesome scientific explorations, creative theatre techniques, unique ways to fight climate change, and special guest appearances by some 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's about being engaged community members. Virtual Power Kids provided us with the opportunity to reach a record number of Ontarians, while still promoting the core values and educational insights we want the next generation to take with them in the fight against climate change.

Pickering Nuclear recognized by City of Pickering with Environmental Award: Pickering Nuclear was recently recognized by the City of Pickering with an Environmental Award as part of the city's 2020 Civic Awards.

The nuclear station, which meets about 14 per cent of the province's electricity needs, received the accolade from the City, 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."

The six-unit, 3,100-megawatt station produces carbon-free power and is one of the key reasons OPG's diverse generation portfolio remains among the cleanest in the world.