

Performance Report for Darlington Nuclear

Q3 2018
Results

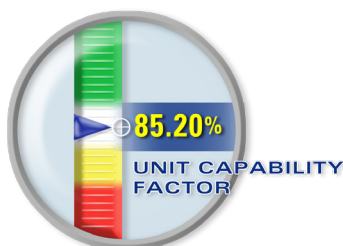
Performance Update

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 third quarter of 2018.



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

OPG's nuclear electricity generation for Q3 of 2018 totalled 10.7 terawatt hours (TWh) compared to 11.3 TWh in 2017 in the same quarter. In Q3, Darlington Nuclear produced 5.1 TWh of electricity, which was 13 per cent of the electricity produced in Ontario.



Reliability – Unit Capability Factor:

Compared to Q3 in 2017, Darlington's unit capability factor for Q3 2018 was higher (85.20) primarily as a result of a decrease in the number of days the station was shut down for maintenance outages.



Environment – Spills to the Environment:

During Q3 2018, there were no spills to the environment at Darlington Nuclear that were reportable to a regulatory authority. The year-to-date total remains at zero.

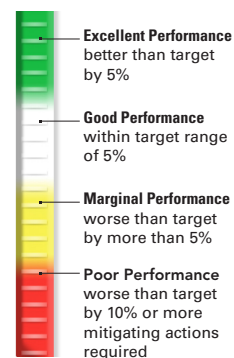
Safety

Total Recordable Injury Frequency:

The Total Recordable Injury Frequency (TRIF) measures the number of injuries involving OPG employees that result in a fatality, a lost time, requiring restricted work and requiring medical treatment per 200,000 hours. In Q3 2018, Darlington Nuclear recorded 0.32 injuries per 200,000 hours worked.



Legend



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 6,600 megawatts. Accounting for 27 per cent of the electricity produced in Ontario in Q3, OPG's 10 nuclear units generated 10.7 terawatt hours.



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

- Pickering and Darlington Nuclear wrapped up another successful summer of Tuesdays on the Trail programs. Hundreds of smiling and engaged local youth attended the educational and free programs in the beautiful settings of Alex Robertson Park and along a portion of the Darlington Waterfront Trail. OPG holds these programs in collaboration with our community partners, who this year included the Toronto And Region Conservation Authority, Ontario Bio Blitz, WindReach Farms, Driftwood Theatre, Scientists in School, Kim Wheatley, Clarington Public Library, A Gift of Art, All Our Relations Métis Drum Circle, Clarington Museums, Soper Creek Wildlife Rescue and Central Lake Ontario Conservation Authority. Thanks to hundreds of children and their families who joined us throughout the summer. It was wonderful to see so many returning families and meet new ones too - we hope to see you next year.
- Nearly two years have passed since OPG and our project partners began the execution phase on the Darlington Refurbishment. And now, after safely disassembling Unit 2, the first of four reactors scheduled for refurbishment at Darlington Nuclear, work has begun on rebuilding the unit, component by component.
- While refurbishment on Unit 2 progresses, planning and preparations for the Unit 3 overhaul are underway. Nu-Teck Precision Metals, a metal extrusion company located in Arnprior, Ont., has completed production of all 480 pressure tubes for Unit 3, and has already started shipping them to Darlington Nuclear. Refurbishment of Unit 2 is scheduled for completion in 2020, with all four units at the Darlington Nuclear refurbished by 2026.
- Over 4,500 grade four students across the Durham Region, participated in the Durham Children's Watershed Festival held this September. This week-long festival, motivates students to become water stewards in their classrooms and communities. By combining hands-on, interactive activities with messages relevant to their daily lives, students soak-up knowledge on the properties, uses, connections, and importance of water and habitat. With this information, students become aware of the value of conserving and protecting water. Interaction with industry professionals, water experts and enthusiastic educators highlights the environmental education programming of the Festival. OPG Darlington and Pickering Nuclear are proud supporters and active participants in this annual event.

For more information go to: www.opg.com/generating-power/nuclear

Do you want to discuss any of our performance results with us? If so, please call us at 905-623-7122.