

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 2019.



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

OPG’s nuclear electricity generation for Q3 of 2019 totalled 11.5 terawatt hours (TWh) compared to 10.7 TWh in 2018 in the same quarter. In Q3, Darlington Nuclear produced 5.2 TWh of electricity, which was 13 per cent of the electricity produced in Ontario.



Reliability – Unit Capability Factor:

Compared to Q3 in 2018, Darlington’s unit capability factor for Q3 2019 was higher (86.53) primarily as a result of a decrease in the number of days the station was shut down for maintenance outages.



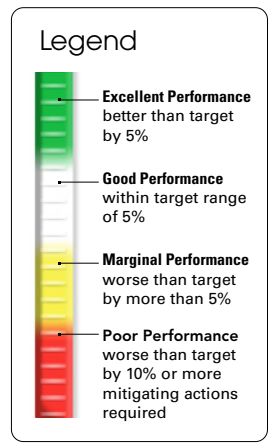
Environment – Spills to the Environment:

During Q3 2019, 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 2019, Darlington Nuclear recorded 0 injuries per 200,000 hours worked.



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 6,600 megawatts. Accounting for 29 per cent of the electricity produced in Ontario in Q3, OPG's 10 nuclear units generated 11.5 terawatt hours.



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

In the Community: Pickering and Darlington Nuclear have 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, including the Toronto And Region Conservation Authority, WindReach Farms, Driftwood Theatre Group, Scientists in School, Clarington Public Library, A Gift of Art, Station Gallery, All Our Relations Métis Drum Circle, Clarington Museums 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.

Over 4,500 grade four students across the Durham Region, participated in the Durham Children's Watershed Festival held in September. This weeklong festival, motivates students to become water stewards in their classroom and community. 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 highlight the environmental education programming of the Festival. OPG Darlington and Pickering Nuclear are proud supporters and active participants in this annual event.

OPG News: OPG announced it will establish a new corporate campus in Clarington that is expected to be completed in 2024. The new campus will include the Darlington Energy Complex and a new building on OPG-owned adjacent land. This is an opportunity to bring together our staff and expertise from across the company at one site. OPG will relocate all non-station based groups in Toronto, Niagara and Durham Region to the new campus.

Over the past few months, OPG has been working to grow for the future through acquisitions. In July, OPG entered into purchase agreements to acquire a number of combined-cycle natural gas-fired plants in Ontario. These acquisitions will add more than 2,000 megawatts to OPG's in-service generating capacity. Natural gas plays a critical role in ensuring the reliability of Ontario's electricity system by generating power during peak periods and supporting intermittent sources of power like solar and wind. OPG has recently acquired Cube Hydro, an operator of 19 small and medium-sized hydro facilities in the U.S., representing a total of 385 megawatts of capacity. These facilities are in areas OPG has largely operated in within the U.S. As Ontario's only publicly-owned electricity generator, OPG's focus remains on bettering the province, economically and environmentally. These acquisitions will improve the company, help facilitate a sustainable, low-carbon future, and provide reliable, low-cost power for future generations.