

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 second quarter of 2019.



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

OPG’s nuclear electricity generation for Q2 of 2019 totalled 11.3 terawatt hours (TWh) compared to 8.6 TWh in 2018 in the same quarter. In Q2, Darlington Nuclear produced 5.5 TWh of electricity, which was 15 per cent of the electricity produced in Ontario.



Reliability – Unit Capability Factor:

Compared to Q2 in 2018, Darlington’s unit capability factor for Q2 2019 was higher (84.21) primarily as a result of a decrease in the number of days the station was shut down for maintenance outages.



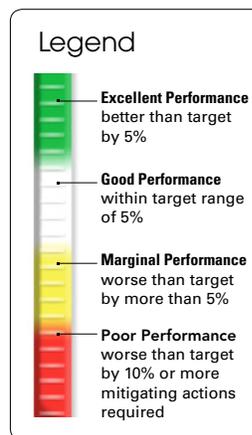
Environment – Spills to the Environment:

During Q2 2019, there were no spills to the environment at Darlington Nuclear that were reportable to a regulatory authority.

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 Q2 2019, Darlington Nuclear recorded 0 injuries per 200,000 hours worked.



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 31 per cent of the electricity produced in Ontario in Q2, OPG's 10 nuclear units generated 11.3 terawatt hours.



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

Darlington Unit 3 stator completes its cross-Atlantic voyage: Darlington's Unit 3 stator arrived in May. The massive 350-tonne piece of equipment left Poland, where it was built, bound for Canada by ship. It crossed the Atlantic Ocean, then travelled through the St. Lawrence Seaway to Oshawa Harbour, where it was craned onto a barge for the final eight kilometres of its journey to the Darlington Nuclear Generating Station. Upon arrival at Darlington, the equipment was removed via a self-propelled modular transporter, using specially engineered ramps, which were craned into place to bridge the gap between the barge and the station's dock. The stator, a key component of the turbine generator, serves as the stationary portion of an electric generator that converts the rotating magnetic field into electric current. Installation of the new component, built by GE Power, will take place during Unit 3's refurbishment in 2020. It will be stored at Darlington until that time.

Pollinating Partners: The final phase of the Pollinating Partners program took place in commemoration of International Biodiversity Day on May 22, with students from Courtice High School and Courtice Public School North returning to the Darlington Energy Complex to plant pollinating gardens around our newly installed bug hotels. The purpose of this new initiative is to increase the number of pollinator-friendly gardens

and landscapes on site to help revive the health of bees, butterflies, birds, bats and other pollinators across the municipality. This community initiative is just one of many which contribute to OPG's Biodiversity Management Program.

Bring Back the Salmon: Students from St. Joseph and St. Michael's Catholic Elementary schools in Cobourg joined OPG, Ontario Federation of Anglers and Hunters, and Ganaraska Region Conservation Authority on the banks of the Cobourg Creek, to take part in the greatly anticipated salmon fry release. Through the winter and spring months, the students tracked the progress of the 100 salmon eggs, participated in a spring cleanup in of the Cobourg Creek in April and learned about environmental stewardship. On June 3, 2019, students gathered with excitement to release the salmon fry, which only months ago were delivered to their temporary hatchery home located in the Darlington Information Centre. OPG is the lead sponsor of Bring Back the Salmon, joined by the Ontario Ministry of Natural Resources and the Ontario Federation of Anglers and Hunters. By teaching today's young people about the importance of habitat restoration, stewardship and environmentalism, we are supporting happy and healthy communities for years to come.

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.