

Performance Report for Pickering Nuclear

Q4 2015 Results

Performance Update

As part of our commitment to keep you informed, this report tracks performance for Ontario Power Generation's Pickering Nuclear in the areas of safety, operational and environmental performance and significant accomplishments during the fourth quarter of 2015.



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

OPG's nuclear electricity generation for Q4 of 2015 totalled 8.8 terawatt hours (TWh) compared to 12.7 TWh in 2014 in the same quarter. In Q4, Pickering Nuclear produced 5.6 TWh of electricity, meeting 17 per cent of Ontario's electricity needs.



Reliability - Unit Capability Factor

Compared to Q4 in 2014, Pickering's unit capability factor for Q4 2015 was higher (79.35) 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 Q4 2015, there were no spills to the environment at Pickering Nuclear that were reportable to a regulatory authority. Pickering Nuclear had a total of two reportable spills in 2015.

Safety

Accident Severity Rate

The Accident Severity Rate (ASR) measures the number of lost days due to employee injuries per 200,000 hours worked. In Q4 2015, Pickering Nuclear recorded 0.83 days lost per 200,000 hours worked which is excellent performance and better than the Canadian Electricity Association top quartile industry performance.



Employee All Injury Rate

The All Injury Rate (AIR) measures the number of workplace injuries per 200,000 hours worked. In Q4 2015, Pickering Nuclear recorded 0.44 injuries per 200,000 hours worked which is better than the Canadian Electricity Association top quartile.



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 almost 27 per cent of Ontario's electricity needs in Q4, OPG's 10 nuclear units generated 8.8 terawatt hours.



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

- The Canadian Nuclear Safety Commission has granted Darlington Nuclear a ten year operating licence, valid from Jan. 1, 2016 to Dec. 31, 2025. This is the longest licence ever granted to a Canadian nuclear power plant, reflecting the strong performance of the Darlington station and preparations for refurbishment.
- In October, OPG, along with the City of Toronto and the Region of Durham completed the delivery of Potassium Iodide (KI) pills to 200,000 homes and businesses within 10 km of the Pickering and Darlington Stations, following an extensive awareness campaign. Residents and businesses requiring additional pills, or residents living within 50 km of the stations may order pills at prepartobesafe.ca. New residents within the 10km zone will receive pills automatically.
- In November, OPG hosted an Aboriginal Trade Fair - a Day in the Trades – in collaboration with the Durham-GTA Chapter of Partners on Aboriginal Inclusion (PAID). The event showcased OPG's partnerships with Aboriginal communities and representatives within the skilled trade industry. Over 20 vendors/contractors committed to Aboriginal inclusion participated. Attendees had the opportunity to experience various interactive demonstrations while learning about present and future employment opportunities within skilled trades.
- On October 22, Pickering Nuclear hosted their annual Community Information Session. Staff shared information about all aspects of station operations with local residents. Also on hand to provide information about emergency preparedness in the community were representatives from the Canadian Nuclear Safety Commission, Durham Emergency Management Office and City of Toronto Office of Emergency Management. Be sure to join us at the next information session taking place this fall.
- OPG's Pickering station helped to power Ontario during OPG's largest project of 2015 – The Darlington Vacuum Building Outage (VBO). A battalion of pipefitters, electricians, carpenters, millwrights, boiler makers, maintenance staff and contractors safely completed 11,650 tasks throughout the outage. The vacuum building is a 71-metre high cylindrical concrete structure connected to the reactor buildings by a pressure relief duct and is a unique safety feature of the CANDU system. OPG executed Darlington's VBO six years ahead of schedule to ensure the station is available during the upcoming multi-year refurbishment.
- To celebrate the holiday season, Pickering Nuclear hosted its annual Winterfest community events. Through the generosity of staff, an impressive \$2,763 was raised through our Generating Change Gate Collections for local charities including Herizon House, Big Brothers Big Sisters Ajax Pickering and St. Paul's on the Hill Community Food Bank.

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 905 837-7272.