

### 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 second quarter of 2021.



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

OPG’s nuclear electricity generation for Q2 of 2021 totalled 10.5 terawatt hours (TWh) compared to 11.6 TWh in 2020 in the same quarter. In Q2, Pickering Nuclear produced 5.7 TWh of electricity, which was 16 per cent of the electricity produced in Ontario.



### Reliability – Unit Capability Factor

Compared to Q2 in 2020, Pickering’s unit capability factor for Q2 2021 was higher (78.13) 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 2021, there were no spills to the environment at Pickering Nuclear that were 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 Q2 2021, Pickering Nuclear recorded 0.19 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 **Pickering 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 on refurbishment. Accounting for 29 per cent of the electricity produced in Ontario in Q2, OPG's nuclear units generated 10.5 terawatt hours.



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

**Powering Our Neighbours:** In the midst of a global pandemic, OPG continues to provide clean, safe, reliable power to help keep the lights on for Ontario's homes, health-care facilities, and businesses. However, more than just providing power, we know the importance of providing support for our community when it is needed most. To aid in the pandemic response, OPG has donated 1 million surgical masks, 75,000 N95 masks and 17,500 Tyvek protective suits, as well as 3D printing protective shields for distribution to hospitals and care facilities in need. OPG is doing its part to lead Ontario towards a brighter tomorrow. Recently, OPG provided members of our community with better access to transportation services to and from vaccination clinics in the Durham area through \$10,000 donations to Community Care Durham, Oshawa Senior Citizens Centre and Durham Region Transit. For the latest news, information and resources to book your vaccine, visit [durham.ca/en/health-and-wellness/covid-19-vaccines.aspx](http://durham.ca/en/health-and-wellness/covid-19-vaccines.aspx).

**Pickering Nuclear: Clean Reliable Power for Ontario:**

OPG's Pickering NGS is proud to continue to support the Pickering community by powering its many homes and businesses, and being an active part of enhancing its environment. The Province of Ontario is supporting a plan to end commercial operations at Pickering in 2025. Under the proposed plan and pending regulatory approval by the CNSC through a public hearing process, OPG would operate Pickering Units 1 and 4 to 2024 (as planned under the current licence), and Units 5-8 to 2025. "The operational and safety performance of Pickering Nuclear has never been better, thanks to the ongoing dedication of our employees," said Jon Franke, Senior Vice President Pickering Nuclear. "In the last few years the station has achieved its best performance in station history, including a record 730 consecutive day run on Unit 4, a testament to the reliability of the station." Not only does Pickering provide clean, reliable baseload power for the province, it also produces around 20 per cent of the world's most valuable medical isotope, Cobalt-60, which is used to irradiate and sterilize single use medical devices as well as various foods and spices around the world. In addition, over the course of Pickering's life, it has also saved just over 1 billion tonnes of greenhouse gas emissions for Ontario. Pickering NGS continues to benefit the province and support OPG's Climate Change Plan. Together, we will create a brighter tomorrow, and you can read OPG's full Climate Change Plan at [opg.com/climatechange](http://opg.com/climatechange).