

Pickering Nuclear

The Facts You Need to Know.



SAFETY AND OPERATIONAL PERFORMANCE

Myth: Pickering Nuclear performs poorly and should be replaced.

Fact: In 2015, the Canadian Nuclear Safety Commission (CNSC) Regulatory Oversight Report confirmed the highest safety performance rating ever received by Pickering Nuclear to date; achieved best performance ever in reliability and human performance with a forced loss rate of 2.89 per cent.

PICKERING NUCLEAR LICENCE RENEWAL

Myth: OPG is planning to operate the Pickering station to 2028, not 2024, and that's why it is applying for a 10-year licence.

Fact: OPG only plans to operate the Pickering station to 2024, as directed by the provincial Government. The station needs a nuclear licence for the period between 2024 and 2028 in order to shut down the reactors and place them into safe storage. This is a requirement of the CNSC.

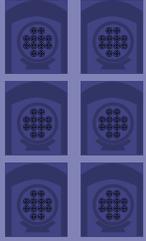
Pickering Facts:

PICKERING NUCLEAR SUPPLIES ENOUGH POWER FOR

1.5  **MILLION HOMES EACH DAY**

Capacity:

PICKERING NUCLEAR IS A STRONG PERFORMING CANDU STATION WITH **SIX UNITS** FOR A TOTAL

CAPACITY OF **3,100**  **MEGAWATTS**

Percentage of Ontario Generation:



14

PER CENT

OF THE PROVINCE'S ELECTRICITY

EMERGENCY PREPAREDNESS

Myth: The Pickering Nuclear Generating Station is located in a very populated area, making it impossible to evacuate safely in the unlikely event of an accident.

Fact: No member of the public has ever been harmed as a result of nuclear operations in Canada. In the very unlikely event of a nuclear accident, it would take approximately 72 hours before a release. Independent studies estimate it would take approximately eight hours to evacuate the primary zone around the Pickering.

COST AND THE ENVIRONMENT

Myth: Nuclear power is too expensive.

Fact: Running Pickering to 2024 will save \$600 million compared with other forms of generation. The average cost of power from natural gas and other renewable energy sources is approximately 11 cents per kWh. The price of power from OPG's nuclear plants is currently capped at 7 cents per kWh.

Generation Sources	Grams of CO ₂ Equivalent per kWh
Hydro run of the river	6
Nuclear	8
Wind	14
Hydropower reservoir	17
Solar photovoltaic	64
Natural gas	620
Oil	878
Coal	879

Myth: It would be cheaper to import power from Quebec.



Fact: In 2014, the Independent Electricity System Operator (IESO) Interties Report estimated the cost of large scale power purchased from Québec to replace nuclear generation, including transmission, would be 9 to 15 cents per kWh – a significant increase when compared to 7 cent per kWh from OPG nuclear. Additionally, the power from Quebec does not currently exist and would have to be licenced and constructed; a 20-year process.

BASELOAD CAPACITY

Myth: We are exporting power now so the electricity from Pickering Nuclear is no longer needed.

Fact: Between 2020 and 2024, nearly 15 per cent of Ontario's power will be offline as the Bruce and Darlington stations undergo refurbishment. Operating Pickering during this period will backfill the supply gap with affordable, reliable, greenhouse gas-free power.

Myth: Decommissioning Pickering Nuclear in 2018 would create more jobs.

Fact: Extending commercial operations at Pickering Nuclear is associated with 4,500 direct and indirect jobs across the Durham Region. The cost of decommissioning the Pickering station and other nuclear plants in Ontario is fully funded by amounts already set aside.