

Performance Update

As part of our commitment to keep you informed, this report tracks performance for Ontario Power Generation’s Nuclear Waste Management facilities in the areas of safety, operations, and the environment. It also summarizes significant accomplishments achieved during the second quarter of 2021.

Safety

Total Recordable Injury Frequency:

TRIF is a measure of the number of injuries involving OPG employees that result in a fatality, lost time, restricted work or requiring medical treatment per 200,000 hours worked. An injury in Q1 placed the TRIF at 1.97. With no injuries this quarter it now sits at 1.72. The year-end target is not to exceed 0.13.



Transportation Safety:

The transportation of waste to our Western facility from Darlington, Pickering and Bruce Power is managed by experienced and skilled drivers. In this quarter, all shipments were made safely and accident-free. The fleet safely travelled 166,636 additional kilometres and marked over 5.65 million kilometres safely travelled to-date.



Environment – Spills to the Environment

There were no spills to the environment at our waste facilities that were reportable to a regulatory authority. For detailed environmental information, please refer to the environmental data reports available on www.opg.com under Reporting.



Operational Performance

A total of 120 Used Fuel Dry Storage Containers (DSC) were transferred up to the end of Q2. This was below the goal of 130. Recovery plans are in place to meet the year target of 227 DSC’s.



Waste Minimization

Through incineration a total of 739 cubic metres of low-level waste was processed. This was below the year-to-date target, to process 803 cubic metres. The goal is to process 1,796 cubic metres by year end.

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

About OPG's Nuclear Waste Management

OPG's Nuclear Waste Management (NWM) manages three sites. The Western Waste Management Facility (WWMF) in Bruce County receives and manages the low- and intermediate-level waste for the Darlington, Pickering, and Bruce Power nuclear stations. Low-level waste is volume reduced through incineration or compaction. Used-fuel Dry Storage Containers are managed at facilities located at Pickering, Darlington and WWMF.



Tree planting



WWMF UFDS Building 5&6



Historical Cargill Hamlet

The following summarizes items of interest or milestones achieved by Nuclear Waste Management and across OPG:

Nuclear Waste Operation

- Up against 32 international candidates, OPG's WWMF received the 2021 Gold Program of the Year, for its biodiversity programs from the Wildlife Habitat Council at this year's Annual Awards conference. This is the first Program of the Year award for OPG. The international award goes to one recipient, based on the depth of their Gold certified program.
- Construction of new WWMF Used Fuel Storage Buildings (SB) four and five continued. The 70,000 sq. foot SB, will safely store 1200 Dry Storage Containers (DSCs). Used fuel from the Bruce Power reactors are placed in DSC's after cooling ten years in pools of water at the Bruce Power station.
- Recent upgrades to the WWMF incinerator with new components will continue to ensure safe and environmentally efficient operations. The incinerator is vital to our stewardship of nuclear by-products, to reduce low-level materials up to 90%, minimizing stored volumes.

OPG News

- OPG will provide 20 scholarships of \$10,000 each to First Nations, Inuit or Métis students over three years. OPG's contribution, will be matched by the federal government. With the new funding, six scholarships

a year will be awarded in each of the first two years, and eight scholarships in the third year.

- OPG is planning a 20-year overhaul of its hydroelectric generating units around Ontario. This refurbishment will ensure generating units continue to operate efficiently and reliably to support OPG's net-zero carbon goals.
- Pending regulatory approval, OPG will soon be helping partners such as Laurentis Energy Partners and BWXT to produce a life-saving medical isotope, Molybdenum-99, from Darlington Nuclear Generating Station. The isotope, used in 30 million diagnostic and medical imaging treatments around the world each year, detects illnesses like cancer and heart disease. OPG currently harvests Cobalt-60 from the Pickering nuclear station.

In the Community

Due to COVID-19 restrictions, no tours were provided to community groups and meetings with Bruce County's (BC) Community representatives continued through virtual options. OPG supported twelve groups such as the; BC Museum, Historical Cargill Hamlet, PRWIN Tree Planting and the virtual; Rotary Huron Shore Run, Huron Fringe Birding Festival, and Grey Bruce Children's Water Festival.