

Performance Update

As part of our commitment to keep you informed, this report tracks performance for Ontario Power Generation’s Nuclear Sustainability Services facilities in the areas of safety, operations, and the environment. It also summarizes significant accomplishments achieved during the fourth 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 medical treatment per 200,000 hours worked. An injury in Q1 placed the TRIF at 1.97. With no injuries reported since this event, at year end the number decreased to 0.86. The year-end target of 0.13 was not met.



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 135,800 additional kilometres and marked over 5.88 million kilometres safely travelled to-date.



Environment – Spills to the Environment

There were no spills to the environment at our 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 234 Used Fuel Dry Storage Containers (DSCs) were transferred up to the end of Q4. This was above the goal of 227. The year-end commitment is to transfer 227 DSCs across all three sites.



Waste Minimization

The incinerator processed a total of 1,912 cubic metres of low-level waste up to the end of Q4. This exceeded the year end target of 1,796.

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 Sustainability Services

OPG's waste division has been renamed to Nuclear Sustainability Services (NSS). This name better reflects the division's role in committing to sustainability, the three Rs (reduce, reuse and recycle) and to the bettering of the environment. NSS manages three sites. NSS-Western in Bruce County, receives and manages low and intermediate-level waste from 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 all three NSS facilities.



SON Tradeshow



Western Clean-Energy Sorting and Recycling Facility Ground-breaking



CCP hospital Cheque distribution – Kincardine

The following summarizes items of interest or milestones achieved by Nuclear Sustainability Services and across OPG:

Nuclear Sustainability Services Operation

- OPG launched a new name for its waste division – Nuclear Sustainability Services. This name provides better autonomy with the division's mission to reduce its environmental footprint while continually embracing the three Rs – reduce, reuse and recycle.
- NSS-Western continues to invest in innovation with the announcement of the Western Clean-Energy Sorting & Recycling facility (WCSR) to be opened in the coming year. This facility will maximize recycling, allow for the free release of clean-materials and most importantly, minimize by-product volumes for interim storage and permanent disposal.
- NSS divisions across OPG have continued safe and efficient by-product management. After several updates to the NSS incinerator in 2021, NSS-Western out-performed its year end incineration target by diverting 90% of low-level by-products from storage.
- All three NSS facilities exceeded their goal for transferring, loading and storing dry fuel storage containers.

OPG News

- OPG's subsidiary PowerON Energy Solutions will provide electrification and charging

infrastructure throughout Ontario to allow municipal transit and corporate fleets to power their vehicles using clean energy. This is anticipated to reduce green house emissions by up to 30%.

- Partnering with GE Hitachi Nuclear Energy, OPG will deploy a small modular reactor (SMR) at the Darlington Nuclear Generating Station, Canada's first commercial, grid-scale SMR, as early as 2028.
- Launching its first ever Reconciliation Action Plan, OPG committed to a journey of reconciliation with Indigenous communities in five specific areas: Leadership, Relationships, People, Economic Empowerment and Environmental Stewardship.

In the Community

Modified regular operations were slowly resumed. This included facility tours to community groups and information-sharing meetings with Bruce County's First Nations, Métis, community representatives and six Municipal Councils. OPG supported multiple community events including: Saugeen Memorial Hospital fundraiser campaign, Pumpkin Pack Wednesdays, SON Tradeshow & Art Fair and more.