

Performance Report for Nuclear Waste Management

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 first quarter of 2018.

Safety

Total Reportable Injury Frequency

TRIF (Total Recordable Injury Frequency) is a measure of the number of injuries involving OPG employees that result in a fatality, a lost time, requiring restricted work and requiring medical treatment per 200,000 hours. As of Jan 2018 OPG is using Total Reportable Injury Frequency instead of Employee All Injury Rate as a metric. In the first quarter of 2018 the TRIF was 0.



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 traveled 80,000 additional kilometres in Q1. By the end of March 2018, 4.2 million lifetime kilometres had been safely traveled.



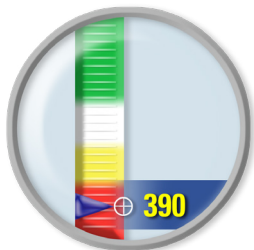
Environment - Spills to the Environment

Our waste facilities experienced no spills to the environment this quarter that were reportable to a regulatory authority. For detailed environmental information, please refer to the environmental data reports available on www.opg.com under News and Media.



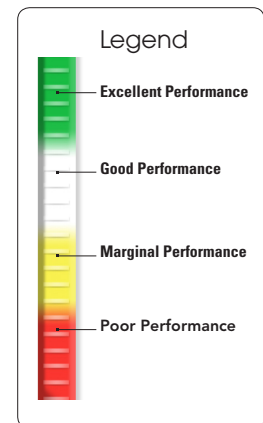
Operational Performance

A total of 42 used fuel Dry Storage Containers were processed up to the end of March, which is 19 below the goal of 61 for the first quarter. This was due to crane and equipment issues. A recovery plan is in place to ensure production remains on track to meet the year-end target of 212.



Incinerator Performance

At the end of the first quarter, the incinerator processed 390 cubic metres of solid waste. This was below the goal of 544 cubic metres for this point in the year. Contributing factors were a forced outage in January that lasted three weeks and a planned spring outage that was moved three weeks ahead of schedule to begin in March. The year-end solid waste volume reduction target is 1,050 cubic metres.



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 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



Lt. Governor opens trail section in Kincardine



Chamber Environment award presentation



Science Fair at Elgin Market Public School

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

OPG's Deep Geologic Repository Project: A lasting solution, for peace of mind

Progress continues toward an environmental assessment (EA) decision on OPG's proposed Deep Geologic Repository (DGR) for low- and intermediate-level nuclear waste (L&ILW). In Q1 2018, OPG continued to work toward a response to a 2017 request from the federal Minister of Environment and Climate Change for an updated analysis of the project's impact on the physical and cultural heritage of Saugeen Ojibway Nation; the analysis must be informed by the result of the SON community process, for which there is no specific timeline. OPG remains engaged in respectful dialogue with SON.

OPG News

- In February, OPG reached the halfway mark on the Unit 2 refurbishment schedule and started the green light for Unit 3 refurbishment. With the extraction of the final calandria tube from Unit 2 on May 2, the removal phase is complete; we are now rebuilding the reactor. The project continues to be on time and on budget. The refurbishment and continued operation of Darlington up to 2055 will contribute a total of \$90 billion to Ontario's GDP and increase employment across the province by an average of 14,200 jobs annually. Refurbishment will also secure 3,500 megawatts of affordable, reliable and emissions-free power: the equivalent of taking two million cars off the road.

- The Lieutenant Governor of Ontario, Elizabeth Dowdeswell, officially opened the Kincardine Cross Country Ski Club's new trail named the Canada 150 Trail – to mark Canada's sesquicentennial. Over the years OPG has supported the development and expansion of Kincardine's network of walking, biking and cross country ski trails.
- February saw the demolition of the 200-metre-tall smoke stacks at the decommissioned Nanticoke Generating Station (GS). Nanticoke's run ended on Dec. 31, 2013, when the final four units at the plant were retired. At the time of its closure, Nanticoke GS was one of the last coal-fired generating plants still in operation in the province, and one of the biggest emitters of greenhouse gases in the country. To date, eliminating coal generation in Ontario was the single largest action to fight climate change in North America.

In the Community

During the first quarter of 2018, NWM provided tours to five groups and held 27 information-sharing meetings with First Nations, Métis, municipal, federal and provincial officials. The Western site supported 25 community initiatives in Bruce County such as: Winterama, the Canadian Mental Health Assoc Grey Bruce - FAN Club School program, Kincardine 3 on 3 Hockey, Roots of Bruce and Saugeen Shores Senior Games. In addition, NWM employees volunteered to be judges at the Elgin Market School Science Fair, presented the OPG award for Environment at the Kincardine Achievement Awards and attended International Women's Day events.