

# 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 2016.

### Safety

#### Employee All Injury Rate

The All Injury Rate (AIR) measures the number of workplace injuries per 200,000 hours worked. During the fourth quarter, the AIR was zero, well below the year-end target of 0.24. Our employees have worked over five and a half years without a lost-time accident.



#### Transportation Safety

The transportation of waste to our Western facility from Darlington and Pickering is managed by experienced and skilled drivers. In 2016, all shipments were made safely and accident-free. In 2016 the fleet safely traveled just over 88,870 additional kilometres. At the end of December, 3.80 million kilometres were safely traveled.



#### Environment - Spills to the Environment

Our waste facilities experienced no spills to the environment in 2016 that were reportable to a regulatory authority. For detailed environmental information, please refer to the environmental data reports available on [www.opg.com](http://www.opg.com) under News and Media.



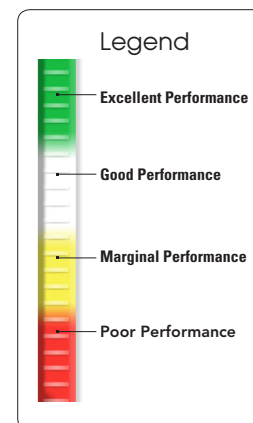
#### Operational Performance

A total of 225 used fuel Dry Storage Containers were processed up to the end of December, which is two above the year-end target of 223.



#### Incinerator Performance

The incinerator performance exceeded all previous year's production levels. To the end of the fourth quarter, the incinerator processed 1,451 m<sup>3</sup> of solid waste, exceeding the goal of 1,243 m<sup>3</sup>.



## 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.



OPG supports local seasonal events



OPG's Environment Tent at Port Elgin's Pumpkinfest



DGR Expert Review group tours WWMF

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 a decision in 2017 on OPG's proposed Deep Geologic Repository (DGR) for low- and intermediate-level nuclear waste (L&ILW). A federal Joint Review Panel reported in 2015 that OPG's DGR would protect the environment for hundreds of thousands of years. It recommended approval "now rather than later."

Last year, the Minister asked OPG for additional studies, including the environmental effects of a DGR at alternate locations. Completed in December, the studies show that OPG could build the DGR elsewhere in Ontario, but with additional delays, risks and environmental effects – and adding up to \$3.5 billion in costs, largely due to transporting the existing waste to a new site.

The Canadian Environmental Assessment Agency is reviewing these findings – see [www.ceaa.gc.ca](http://www.ceaa.gc.ca) – with its analysis expected mid-year, followed by the Minister's decision by fall. If approved, OPG's DGR could be in service in 10 years – a lasting solution, offering peace of mind.

### Relicensing of Waste Management Facilities

The Canadian Nuclear Safety Commission (CNSC) will hold a public hearing on April 12 and possibly 13, 2017, to consider OPG's applications to renew licences for both the Western and Pickering Waste Facilities. The applications seek continued operation of the Facility's to support operations and refurbishment of Ontario's nuclear stations.

Members of the public were invited to comment on OPG's applications by March 13, 2017 on the CNSC website. The public's input and perspective will assist the CNSC in preparing

their decision on the licence. For more information visit the Waste Management Licence Renewal websites at [opg.com](http://opg.com).

### OPG News

- As Canada's largest clean energy project, Darlington Refurbishment is about investing in: one of the world's top performing nuclear stations – ensuring a safe and reliable energy supply for the next 30 years: investing in clean air; jobs; innovation; and lower energy prices. Starting October 14, 2016, Unit 2 is the first of four nuclear units to be refurbished by removing, replacing and overhauling critical components.
- OPG was recognized by the Canadian Electricity Association (CEA), with two awards. The President's Gold Award for Excellence in Employee Safety is in recognition for maintaining an all injury and accident severity rates in the top quartile for three consecutive years. The Leadership in External Collaboration and Partnerships Award was given to OPG in recognition of our work with indigenous communities.

### In the Community

- During 2016, NWM provided tours to 44 groups and held 43 information-sharing meetings with First Nations, Métis, municipal, federal and provincial officials. The Western site supported 92 community initiatives in Bruce County such as Port Elgin's Pumpkinfest, Kincardine Trails, and OPG Youth Basketball. At the end of the year, we focused on supporting Santa Claus parades, Saugeen Valley Conservation Authority's Christmas in the Country, Tiverton Annual Christmas Tree Lighting, and three local food banks.