

Performance Report for Darlington Nuclear

THIRD QUARTER OF 2011

This report discusses performance for Darlington Nuclear in the areas of safety performance, electricity production, environmental performance, and significant accomplishments achieved during the third quarter of 2011.



OPG continues to maintain a high standard of public safety

Ontario Power Generation (OPG) maintains and builds upon a strong safety culture at each of our nuclear stations to ensure that there are no public or employee safety concerns as a result of our operations.

In the four decades that nuclear energy has served Canada's electricity needs, no member of the public has ever been harmed as a result of a radiation emission from a nuclear power plant or waste storage facility. Continuous monitoring of radiation exposure at the perimeter of our stations consistently demonstrates the public is protected at all times from radiation emissions. All Canadians are exposed to naturally-occurring radiation, mostly from the sun and from radon which is found in soil. The average exposure of Canadians is 1,770 microsieverts a year.

For people living near Darlington Nuclear, based on their actual lifestyle characteristics and food consumption patterns, the estimated additional exposure during the second quarter was 0.2 microsieverts. This is a very small percentage of the amount we each receive naturally and much lower than the 1,000 microsieverts permitted by the Canadian Nuclear Safety Commission regulation.

Keeping our employees safe

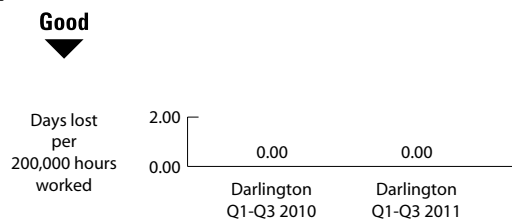
OPG's primary focus is the health and safety of employees and the public. In 2010, OPG became the first employer in Ontario to be awarded the ZeroQuest Platinum Award from the Infrastructure Health and Safety Association (IHSA). This award is the highest level of recognition a company can achieve in the ZeroQuest program and recognizes OPG's efforts to sustain and continuously improve our safety performance, health and safety management systems, and safety culture.

OPG's pursuit of Platinum began in 2005, when OPG was first recognized with the Gold Award, following detailed document reviews and employee interviews at Corporate, Nuclear, Thermal and Hydro sites. OPG succeeded in achieving Platinum by sustaining this Gold level over the next four years based on annual assessments at OPG sites.

At OPG's nuclear operations, we are on a continuous journey toward excellence in our safety performance. We strive for zero injuries and to create a work environment where employees at Darlington Nuclear take personal responsibility to consistently build safety into every task they perform.

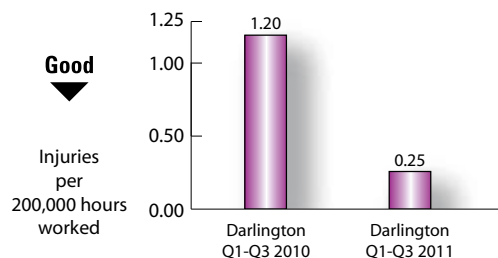
Employee Accident Severity Rate

Darlington's employee safety performance is measured against other companies. One measure is the employee Accident Severity Rate (ASR) which measures the number of days lost due to injuries per 200,000 hours worked. Overall safety performance is strong at OPG's nuclear sites where most of the safety metrics are considered industry top quartile, including the All Injury Rate (AIR) and the ASR. During the third quarter, Darlington recorded zero days lost per 200,000 hours worked. This is excellent performance and better than Canadian Electricity Association (CEA) top quartile performance.



Employee All Injury Rate

Another key safety measure is the All Injury Rate (AIR) which measures the number of workplace injuries per 200,000 hours worked. During the third quarter, Darlington recorded 0.25 injuries per 200,000 hours worked. This is excellent performance and better than CEA top quartile industry performance.

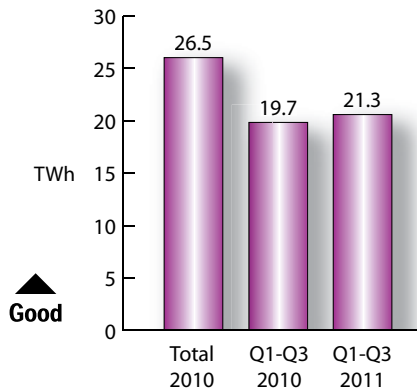


Safety Milestones

The safety of our employees, like the safe operation of our nuclear reactors is a top priority. During the third quarter of 2011, Darlington's employees achieved over 11 million hours without a lost-time injury.

Electricity Production

Darlington Electricity Production (TWh)

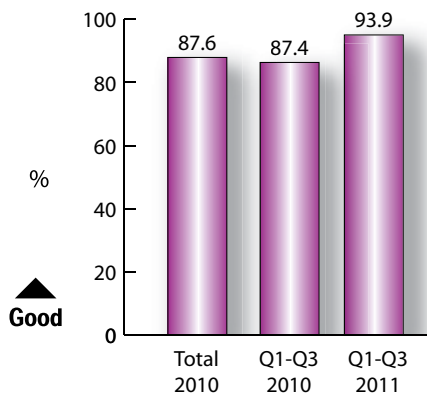


During the first nine months of 2011, Darlington increased its generation output compared to 2010. Darlington's four units produced 21.3 TWh of electricity, up from 19.7 TWh for the same period in 2010.

Darlington's four units supplied 20 per cent of Ontario's electricity demand over the first nine months of the year.

Unit Capability Factor

Unit Capability Factor (%)



Another measure of the station's performance is its unit capability factor, basically a percentage of perfect generation a unit is capable of producing during a specified period. Darlington's improved performance over the same period in 2010 is reflected by its strong unit capability performance.

In March, the CANDU Owners Group released the 2010 year-end performance numbers of all CANDU reactors worldwide. OPG's

Darlington nuclear station received the distinction of having two of its reactors rated among the top five in the world. Darlington's Unit 3 placed second and Unit 1 ranked fifth.

Protecting the Environment

During the third quarter of 2011, Darlington Nuclear did not record any major or moderate spills to the environment.

Milestones and Items of Interest

Some of the milestones and items of interest achieved by Darlington and across OPG include the following:

- In August, with the help of local community supporters, OPG turned the first sod to celebrate the official groundbreaking of the Darlington Energy Complex. The event, attended by community members, business leaders and site neighbours, marked a significant step forward for OPG's Darlington Nuclear operations and the Darlington Refurbishment Project. When completed, the Darlington Energy Complex will serve as the headquarters for staff of the Darlington Refurbishment Project.
- Tuesdays on the Trail is a popular family program at the Darlington and Pickering waterfront trails. OPG hosted thousands of local residents for fun and learning focused on environmental programs.
- Corporate Knights Magazine named OPG as one of the 50 best Corporate Citizens in Canada. The magazine, a major advocate of "clean capitalism" and sustainable development, released its ranks in June 2011. The corporate rankings were based on environmental, social and governance indicators as well as on the management of carbon, energy, water usage and waste production.



Do you have any questions about our performance results? If so, please give us a call at 905-623-7122.