

# OPG'S DEEP GEOLOGIC REPOSITORY PROJECT

For Low & Intermediate Level Waste

Safe and responsible long-term management

## The Responsible Thing to Do

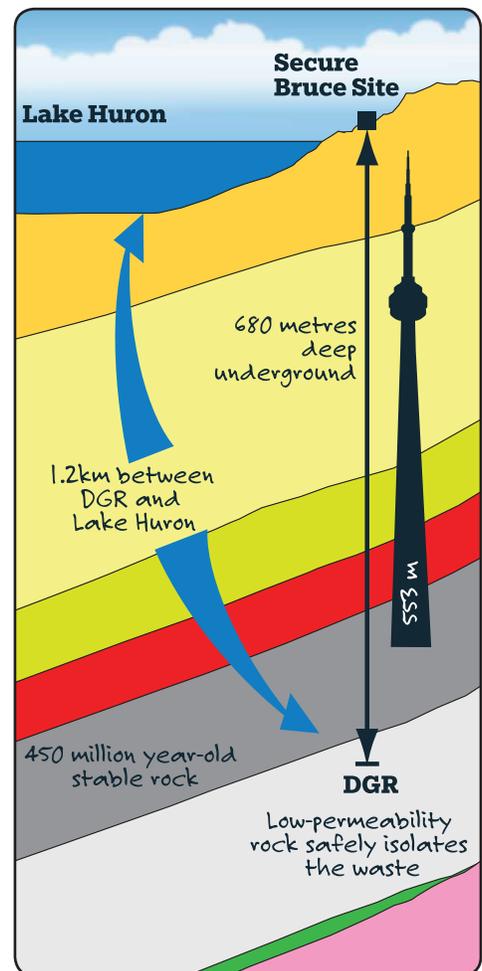
Nuclear has powered our province and made it one of the most prosperous in Canada for more than 40 years. One of the by-products of nuclear power is waste which includes components and materials used in the nuclear station that have become radioactive.

OPG has been safely storing these materials for 40 years at the Western Waste Management Facility in Bruce County, the site of the proposed DGR. OPG could continue storing the waste safely above ground but we have an obligation to those future generations to dispose of this waste safely where it cannot pose a threat to the public or the environment.

The project proposed by OPG is to construct and operate a deep geologic disposal facility on the secure Bruce nuclear site within the Municipality of Kincardine. The DGR will safely isolate and contain low and intermediate level waste deep underground ensuring protection of water and the environment. It will be buried 680 metres in stable rock formations that are over 450 million years old. Most of the waste, which is low level, will decay in 300 years. A small amount will be radioactive for over 100,000 years. The rock will limit movement of any radioactivity to <1 metre every thousand years.

## Protecting the Environment

Experts agree, it's the responsible choice and reflects international best practice. A team of geologists, engineers, hydrologists and many others have studied the project for many years. Studies show no significant adverse impact to the environment or the public will occur. And now, a joint review panel appointed by both the Canadian Environmental Assessment Agency and Canadian Nuclear Safety Commission is reviewing the proposed project. A public hearing in Kincardine is anticipated in late 2013.



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## The DGR Project

The DGR would be designed to safely manage and isolate low and intermediate waste from OPG-owned nuclear generating stations at Bruce, Pickering and Darlington. Low-level radioactive waste consists of industrial items that have become contaminated during routine clean-up and maintenance activities at nuclear generating stations. Intermediate-level radioactive waste consists primarily of reactor components and resins and filters used to purify reactor water systems. Used nuclear fuel will not be stored or managed in the DGR.



## An Opportunity to Participate and Make your Views Known

The public review period is currently underway. A project registry site posts all public comments and submissions received. Public involvement is a key part of the federal review process. OPG encourages the public to study the project for themselves and see if they agree with our conclusions and the conclusions of experts from around the world.

## To learn more or to get involved:

Canadian Environmental Assessment Agency (file # 17520): [www.ceaa.gc.ca](http://www.ceaa.gc.ca)

Ontario Power Generation: [www.opg/dgr.com](http://www.opg/dgr.com)

To view the studies and technical safety case: [www.nwmo.ca/dgr](http://www.nwmo.ca/dgr)

To provide a submission on the DGR project during the public review period or for the public hearing expected late in 2013 you can submit to the Joint Review Panel by mail, email or fax.

Deep Geologic Repository Project  
Canadian Environmental Assessment Agency  
Debra Myles, Panel Co-Manager  
160 Elgin Street, 22nd Floor  
Place Bell Canada  
Ottawa ON K1A 0H3  
Telephone: 613-957-0700 or 1-866-582-1884

Fax: 613-957-0941

Email: [DGR.Review@ceaa-acee.gc.ca](mailto:DGR.Review@ceaa-acee.gc.ca)

## Protecting the Public and the Environment

- Waste is located 1.2km from the closest point of Lake Huron
- Located in 450 million year-old stable rock in a seismically quiet area
- Safe isolation now and for the long-term
- 90 per cent of stored waste is low-level
- Most of the waste is already stored above ground at the site
- Experts agree it is the responsible choice
- Based on international best practice
- A willing and supportive Kincardine community

