



OPG Update to Municipal Councils

Bruce County | Q4 2021



ONTARIOPOWER
GENERATION

Agenda

- 1 | New name, new mission
- 2 | Western site operations
- 3 | Protecting biodiversity
- 4 | Investing in enhanced sorting
- 5 | Lasting solutions
- 6 | OPG company highlights



New name, new mission

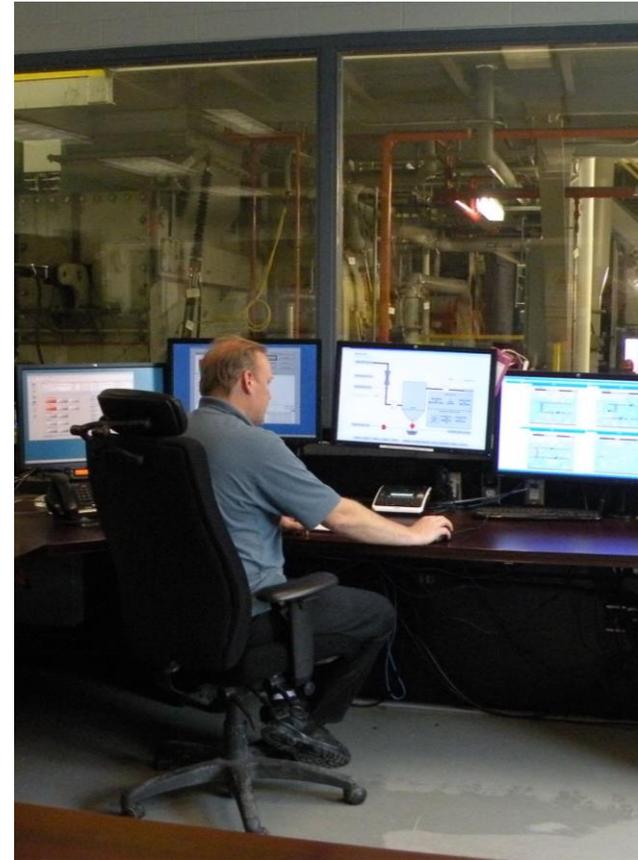
- New name for OPG Nuclear Waste Management:
Nuclear Sustainability Services
- All energy sources have by-products. Many nuclear by-products are valuable (not “waste”), such as medical isotopes, tritium, heavy water, Helium-3
- Name better reflects the division’s mission to reduce our environmental footprint
 - We embrace the three Rs: reduce, reuse, recycle
 - Multi-year plan to increase processing, reduce stored volumes, maximize recycling
- Aligns with OPG’s Climate Change Plan. Nuclear is clean energy, vital to achieving net-zero goals

Nuclear Sustainability Services

STEWARDSHIP
LASTING
SOLUTIONS
PEACE OF MIND

Western site operations

- Strong safety performance continues: 10 years without a lost-time accident
- COVID-19 protocols remain in place: Masks, distancing, cleaning and hygiene, testing
 - Field workers have safely kept operations running since start of pandemic
 - Office workers returned in Q3-Q4, initially at 50% of building occupancy
- 2021 upgrades to incinerator completed in Q3
- Used Fuel storage buildings 5 & 6 completed in Q4



Incinerator: Upgrades completed in 2021 will help ensure another 15 years of clean and safe operation, to reduce stored volumes.

Protecting biodiversity

- In 2021, OPG received Gold Certification from the Wildlife Habitat Council – for biodiversity programs at Western Waste Management Facility
- Highest level of certification
- Recognizes efforts to restore and protect habitats:
 - Work to preserve wetlands and fight invasive species, such as phragmites
 - Turtle basking logs
 - Meadowlark nesting areas
 - Bird boxes, including for ducks
- WWMF also won the Council's "Gold Program of the Year" – best of all 2021 entries worldwide



Investing in Three Rs

- OPG has long hoped to increase processing capacity in Bruce area, to help reduce stored volumes
 - To support 3 Rs, reduce environmental footprint
 - Concept cited in 2017-27 licence for WWMF
- Plan now emerging: a new “Western Clean-Energy Sorting & Recycling” facility, at Bruce Energy Centre in Kincardine, with 42,000 square feet, ~25 employees
- Would apply findings from research at Hamilton Clean-Energy Materials Sorting and Recycling laboratory, a partnership between McMaster University and OPG subsidiary Laurentis Energy Partners



New sorting and recycling centre would be located at Bruce Energy Centre



Sorting and recycling innovations are being researched at Hamilton laboratory.

Lasting solutions

- OPG remains committed to the safe and permanent disposal of nuclear by-products:
 - **Used fuel:**
 - OPG supports NWMO process to site a Deep Geological Repository for all of Canada
 - **Low- and intermediate-level materials:**
 - OPG will look to see whether the 2020-21 federal review of the radioactive-waste policy framework identifies alternate solutions
 - Options for low-level materials may include a Near-Surface Disposal Facility
- Any new site-selection process for a disposal facility would engage with stakeholders, Indigenous communities and the public



OPG company highlights

- OPG launched first-ever **Reconciliation Action Plan**
 - Commitments to actions and timelines in 5 focus areas: Leadership, relationships, people, economic empowerment, environmental stewardship
 - OPG commits to growing its economic impact for Indigenous communities and businesses to \$1 billion over 10 years through operations and initiatives
- Darlington New Nuclear Project – CNSC approved site preparation licence renewal in October 2021. Proposal is to build a Small Modular Reactor (SMR)
- Darlington Refurbishment – on track, on budget
- Continuing support to Bruce Power MCR.



See www.opg.com for details of the Reconciliation Action Plan



Small Modular Reactor is proposed for Darlington new-nuclear site

ONTARIO **POWER**
GENERATION