

Exploring the potential for New Nuclear Generation at Wesleyville

To help meet the growing demand for electricity in the province, the Ontario government has asked Ontario Power Generation (OPG) to explore the potential for new nuclear generation at its Wesleyville site. As a first step in this process, engagement has begun with the local community, the Municipality of Port Hope, and the Michi Saagiig First Nations of the Williams Treaties, which is made up of Curve Lake First Nation, Alderville First Nation, Hiawatha First Nation, and the Mississaugas of Scugog Island First Nation.

The Wesleyville site has the potential to host up to 10,000 megawatts (MW) of safe, reliable new nuclear electricity generation - enough to power the equivalent of 10 million homes.

Impact assessment

Major nuclear projects in Canada are subject to an Impact Assessment (IA) led by the Impact Assessment Agency of Canada (IAAC) and the Canadian Nuclear Safety Commission. Later this year, OPG will submit an Initial Project Description (IPD) to the IAAC. The IPD will detail the potential of hosting up to 10,000 megawatts (MW) of nuclear power generation at the Wesleyville site. The IPD submission is the first step in the IA and begins a multi-year process.

Over the next few years, initial activities will study site characteristics; these can include:

- Collection of ecological data
- Drilling and monitoring boreholes and groundwater monitoring well locations
- Installation of air and weather monitoring equipment including a meteorological tower to gather weather data
- Baseline environmental and archaeological studies and drone surveys
- Socio-economic studies, encompassing culture, heritage and sustainability, among others

Find out more about the IA process and how to be involved by scanning the QR code.

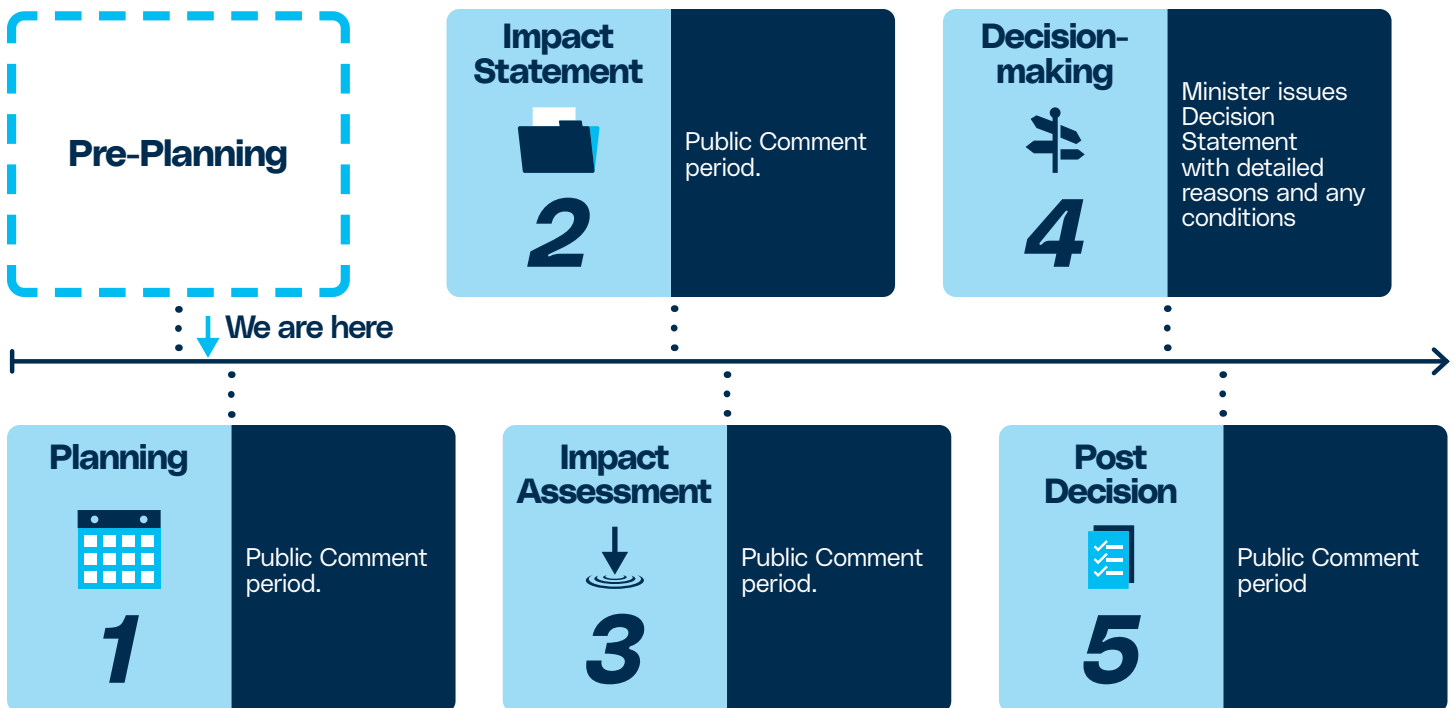


Potential timeline

- ▶ **1970s TO PRESENT**
 - Ontario Hydro/OPG maintains the Wesleyville site following pause of an oil-generating station project. The site remains zoned for electricity generation.
- ▶ **2024**
 - Province asks OPG to begin discussions with communities in strategic site communities to gauge interest in new generation development.
- ▶ **JANUARY 2025**
 - Province asks OPG to work with Port Hope and the Michi Saagiig First Nations to explore potential for new large nuclear generation at Wesleyville site.
- ▶ **We are here.**
- ▶ **2025**
 - Multi-year federal impact assessment to begin.
- ▶ **LATE 2020s**
 - Regulatory approvals and agreements with Port Hope and First Nations established.
- ▶ **EARLY 2030s**
 - OPG applies to the Canadian Nuclear Safety Commission (CNSC) for a Licence to Construct (LTC).
 - LTC issued to OPG.
- ▶ **EARLY 2030s TO MID-2040s**
 - OPG begins site preparation activities and construction.
- ▶ **MID 2030s**
 - OPG applies to CNSC for a Licence to Operate (LTO).
- ▶ **LATE 2030s**
 - LTO issued to OPG.
- ▶ **EARLY TO MID-2040s**
 - Units in service.
- ▶ Ongoing engagement and consultation opportunities throughout

*this potential timeline is subject to change based on project planning and regulatory approvals

Impact Assessment Process



What we're hearing from you

Since the spring 2025, OPG has engaged with several thousand local residents and stakeholders in a variety of ways, including at public information sessions, council and community group meetings, community information booths, and through a variety of print and digital communications. Some of the questions and topics of interest we've heard include:

Project timeline

Q: Is the project now formally approved?

A: Exploring a new power generation development is a complex and lengthy process that includes multiple opportunities for input and an ongoing program of public education and engagement.

It will require several years for OPG to undertake the necessary work, in collaboration with the host community and Indigenous Nations, before it can be determined whether the site can support new power generation.

Any decision to proceed with new generation would undergo a regulatory process with public input throughout to verify OPG's conclusions; only then could preparation of the site begin. Additional licenses, at each phase in the life cycle of the project, would also be required, each with public engagement opportunities and public regulatory hearings. In total and pending approvals, it could take approximately 15 years before the first generating unit is connected to the grid.

The 1,300-acre Wesleyville site has been zoned and maintained for electricity generation for more than 50 years.

Q: What updates are available regarding changes to the Wesleyville project, including the project scope and timelines?

A: Updates on the Wesleyville project, including the project scope and timelines, will be provided regularly through our website, which is the main repository of information. A variety of other engagement channels, including newsletters, information sessions, workshops, and community meetings will offer an ongoing and varied approach to engagement. We will also open a community office in Port Hope to facilitate direct communication with the local residents.

Environmental impact

Q: What is an impact assessment?

A: A federal impact assessment (IA) is overseen by the Impact Assessment Agency of Canada and examines the potential positive and negative effects of proposed projects. Throughout the IA process, assessments will thoroughly evaluate potential impacts to local ecosystems, water quality, wildlife habitats and breeding areas. The IA at the Wesleyville site is targeted to officially begin in Q4 2025 and will be accessible to the public to ensure ongoing transparency and community engagement.



Project information booth at Port Hope's Float Your Fanny Down the Ganny event



Port Hope Chamber of Commerce Lunch and Learn



Spring 2025 Public Information Sessions in the Port Hope community

Q: Will there be an impact to surrounding roads and traffic flows?

A: Initial assessments for the potential project, conducted by OPG, will include an assessment of traffic, including the current conditions and use of roads that could be affected by future project activities. This assessment will consider access routes, traffic flow conditions including expected traffic volumes and resulting impacts for each phase of the potential project. Traffic count surveys of the local area will be included in those assessments.

The information gathered in this early assessment stage will be analyzed, and mitigation strategies determined, as required, through the impact assessment process that will take place over the next several years.

Waste

Q: What types of nuclear waste does a nuclear station generate?

A: OPG has been safely managing waste for more than 50 years. Nuclear waste generated at OPG's stations can be divided into three categories. Low-level waste includes worker garments, small tools and material used in the stations such as plastic and paper. Intermediate-level waste includes resins, used reactor components and filters used to keep water systems clean; and high-level waste consists of used fuel.

To learn more visit: <https://www.opg.com/power-generation/our-power/nuclear/nuclear-waste/what-is-nuclear-waste/>

Stakeholders and the Community

Q: How will the decision-making process involve Rightsholders and stakeholders, and what approval procedures are in place?

A: OPG places great importance on building strong relationships and partnerships with host communities, neighbours and Indigenous Nations on whose traditional territory we operate. Exploring new power generation is a complex and lengthy process that includes multiple opportunities for input and an ongoing program of public education and engagement. The decision to proceed with nuclear power is dependent on the support of local government, Rightsholders, the residents of Northumberland, the Federal Impact Assessment Agency, and the Canadian nuclear regulator, the Canadian Nuclear Safety Commission (CNSC).

Technology

Q: What types of technology are you considering and what is the timeline for technology selection?

A: Later this year OPG will submit an Initial Project Description (IPD) to the Impact Assessment Agency of Canada (IAAC). The IPD will include a plant parameter envelope, which bounds all of the potential technologies that are being considered for the site.

Detailed evaluations of a range of nuclear technologies will be conducted to select the most suitable technology using a criterion that includes safety, efficiency, environmental impact, and economics.

Employment

Q: What local job opportunities will be created by the project, and how can community members apply for positions?


A: According to the Conference Board of Canada's conceptual analysis, roughly 1,700 jobs will be supported during the design and construction phase and 1,600 jobs during the operation and maintenance phase of the potential project. Community members can apply for a variety of positions through our website, community office, and job fairs.

We are committed to listening to you and answering your questions. You can find answers to other frequently asked questions, as well as content from our recent public information sessions using the QR code to the right. Updates will be made as the project continues.




Community benefits

According to the Conference Board of Canada (CBOC), the potential benefits to Port Hope over the project's life, including construction and operation (95 years) include:



1,700 jobs during design and construction and 1,600 jobs during operation and maintenance.



An average 15 to 20 per cent boost to overall local employment levels.




\$65.7 billion boost to GDP.

The community could also benefit from:



Supply chain spending.



Direct and indirect spending by employees working and living in the region.



Corporate and employee charitable giving.




Environmental initiatives & potential biodiversity protection initiatives.

The full Conference Board of Canada study can be found at opg.com/wesleyville

Get involved and stay in touch

OPG places great importance on building strong relationships and partnerships with host communities and neighbours. Our engagement aims to ensure transparency, foster community involvement, and provide opportunities for information sharing and feedback. Our outreach methods will be ongoing and consistent as more information on the potential for new nuclear at Wesleyville becomes available.

 **Now open:** Join OPG staff at our Nuclear Discovery Centre (115 Toronto Rd., Port Hope). This community facility features interactive, educational displays, and information on the potential project. Visit opg.com/Wesleyville for hours of operation and more details. **We hope to see you soon!**

 **Contact us toll free:** 1-800-461-0034 or wesleyville@opg.com.

 Visit opg.com/wesleyville for information on the initiative, next steps in the process and frequently asked questions.

 Find members of our project team in your community, staffing information booths at events throughout the summer and fall.

 **Participate in community meetings and forums:** They will be advertised locally and posted on opg.com/wesleyville.

