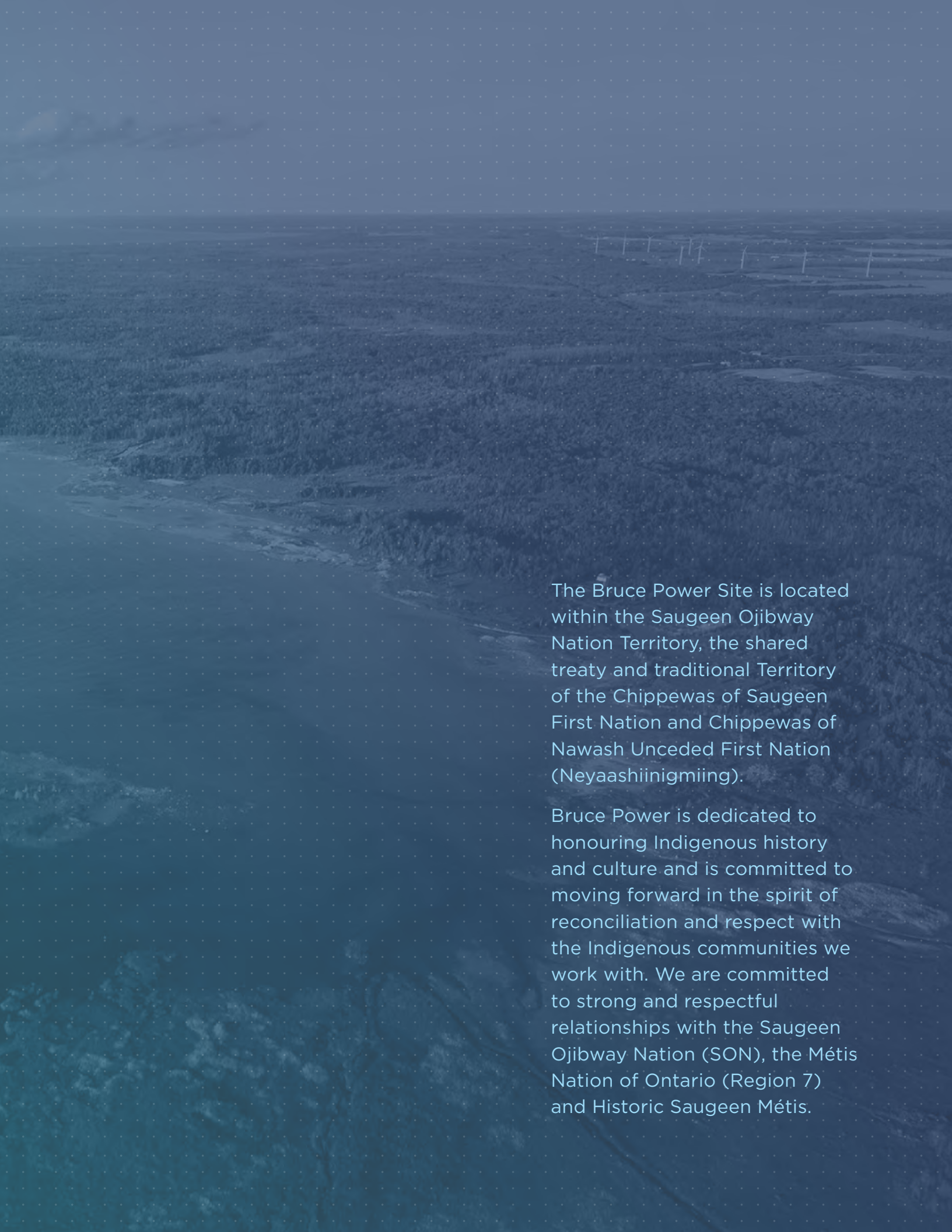
BrucePower™

Bruce C Project. Planning for the Next Generation.

SPRING 2026



The Bruce Power Site is located within the Saugeen Ojibway Nation Territory, the shared treaty and traditional Territory of the Chippewas of Saugeen First Nation and Chippewas of Nawash Unceded First Nation (Neyaashiinigmiing).

Bruce Power is dedicated to honouring Indigenous history and culture and is committed to moving forward in the spirit of reconciliation and respect with the Indigenous communities we work with. We are committed to strong and respectful relationships with the Saugeen Ojibway Nation (SON), the Métis Nation of Ontario (Region 7) and Historic Saugeen Métis.

Bruce C Project Impact Assessment

PLANNING FOR THE NEXT GENERATION

With electricity demand in Ontario expected to grow rapidly in the coming decades, Bruce Power is undergoing a federal integrated Impact Assessment (IA) to build up to 4,800 megawatts of new nuclear capacity at the Bruce Power site — a project referred to as Bruce C.

Through the IA, Bruce Power is studying the environmental, economic, social and health effects of a new nuclear project. Engagement with Indigenous Nations and communities, municipalities and the public is a critical part of the IA process.

The IA process is estimated to be completed in 2028, and upon successful completion, site preparation for the proposed project would take approximately three years, followed by approximately 14 years for construction.

Why Bruce Power?

As an existing site with space available on its 838 hectares and connections to transmission corridors, Bruce Power is uniquely positioned for potential nuclear expansion in Ontario:

PEOPLE

Bruce Power is well-positioned with a skilled workforce and robust supply chain that support Bruce Power's values of safety first, performance excellence and social responsibility. The Clean Energy Frontier region of Bruce, Grey, and Huron counties in SON Territory has the expertise and strong local leadership needed to advance major infrastructure projects in the nuclear sector. Bruce Power sees strong community support and is committed to building and maintaining relationships and partnerships with local Indigenous Nations and communities.

PLACE

The Bruce Power site is well-studied with verified and known environmental impacts, supported by decades of environmental analysis, studies and regulatory approvals. As a site with existing licensed facilities run by an experienced operator, nuclear management systems are in place that meet Canadian and international standards. The availability of information compared to greenfield sites creates a significant advantage.

ENVIRONMENTAL PROTECTION AND PROGRAMS

As an operational site, Bruce Power is characterized by ongoing monitoring, data collection, analysis, and risk assessments. These activities are reviewed, accepted, and regulated by multiple federal and provincial ministries on an iterative basis to maintain approvals, authorizations and permits for existing operations. In addition, the Canadian Nuclear Safety Commission (CNSC) provides ongoing oversight of Bruce Power as its life-cycle regulator. Since Bruce power assumed operation of the Bruce site in 2001, ongoing environmental protection programs have been in place and environmental studies have been conducted at key licensing and operational milestones.

Capacity and Energy Independence

ONTARIO'S CLEAN ENERGY NEEDS

Energy for Generations: Ontario's Integrated Energy Plan, sets out a vision for the future of the province's energy system and outlines the actions needed to power the province and the economy in the decades ahead.

The Integrated Energy Plan outlines priorities to:

- **meet the growing need for affordable and reliable energy;**
- **ensure customer choice;**
- **strengthen Ontario's leadership in the clean energy economy; and**
- **extend Ontario's global nuclear leadership.**

The vision commits to working in partnership with Indigenous communities in the buildout of Ontario's energy system to advance economic reconciliation and enable Indigenous Nations and communities leadership and participation in the energy sector.

Ontario's Integrated Energy Plan is clear that the Bruce Power site represents a strategic advantage for the province when it comes to advancing its priorities in the energy sector - the plan recognizes the Bruce C Project as a key part of meeting future electricity demand.

Ontario Government supports pre-development work for Bruce C

On May 7, 2026, Ontario's Minister of Energy and Mines, Hon. Stephen Lecce, announced support to advance the next stage of pre-development work for the proposed Bruce C Project, marking an important step forward for the project. This pre-development work includes ongoing readiness activities such as technology selection, workforce and commercial planning, estimating the cost of site preparation activities, developing cooling water strategies, community readiness, and Indigenous engagement in addition to continuing the Impact Assessment process.

As Ontario looks ahead to a period of unprecedented growth in electricity demand, Bruce Power looks forward to continuing to work with the Ontario government in supporting a strong, resilient, and low-carbon energy future.

Economic impact and local polling for the Bruce C Project

The following figures are sourced from an independent economic impact analysis conducted by the Ontario Chamber of Commerce (OCC) which was released publicly on January 19, 2026.

CANADA

- Nearly **$238 billion** to the national GDP over the lifetime of the project.
- **18,900 jobs** created or supported nationally during the site preparation and construction phase.
- **$1 billion** in average annual labour income.
- More than **$100 million** in new federal tax revenues annually.

ONTARIO

- **$217 billion** to Ontario's GDP over the lifetime of the project.
- **15,900 jobs** created or supported during the site preparation and construction phase.
- **$900 million** in average annual labour income.
- More than **$100 million** in new provincial tax revenues annually.

CLEAN ENERGY FRONTIER

- **$2 billion** annual contribution to the regional GDP.
- **3,400 jobs** created or supported during the site preparation and construction phase.
- **$427 million** in average annual labour income.

Community Support for the Bruce C Project

Polling commissioned by Bruce Power in late 2025 surveyed residents across the Clean Energy Frontier region — Bruce, Grey and Huron counties.

This polling found:

86%

Support the Bruce C Project.

The top two reasons expressed for supporting the project were: **meeting increased energy demand and economic benefits.**

96%

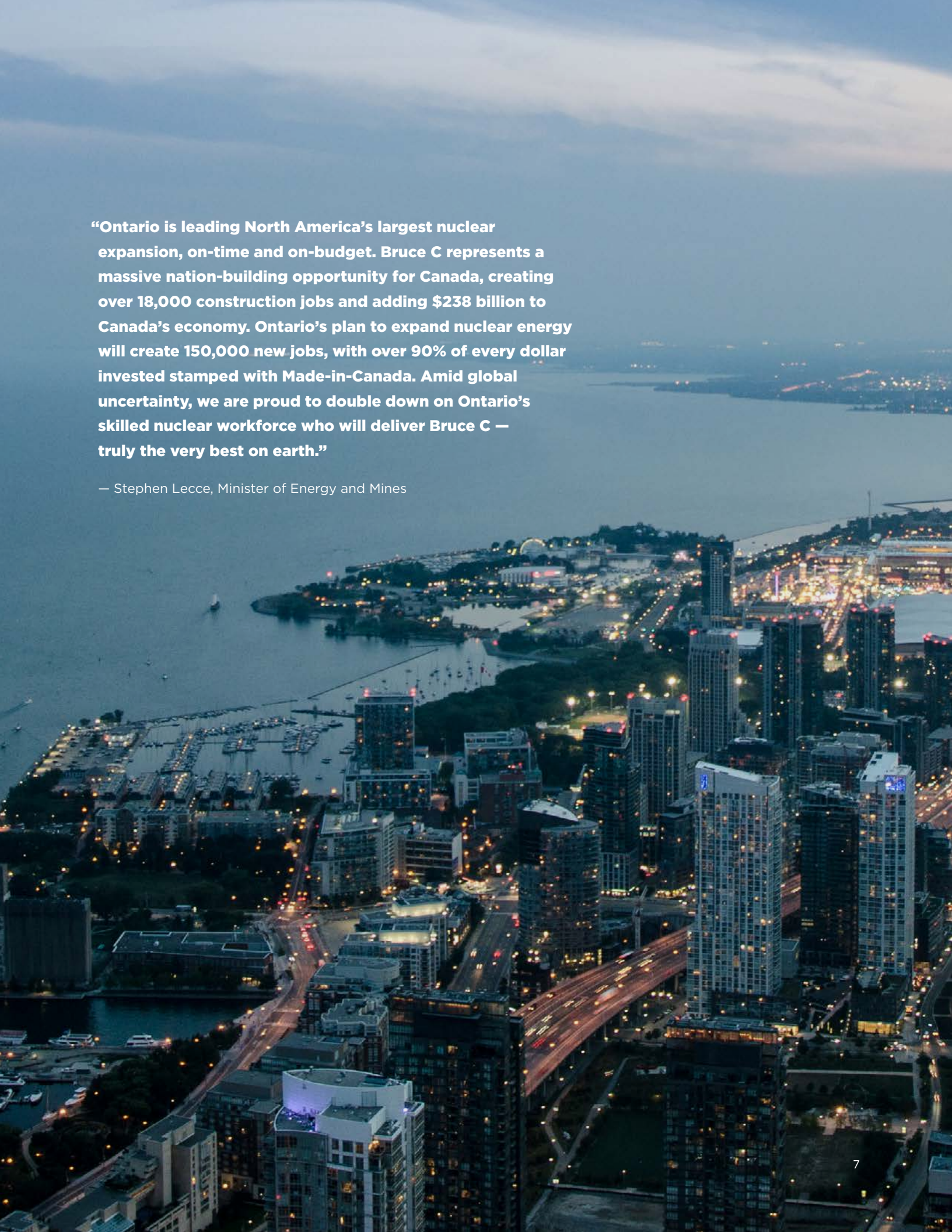
Agree that Bruce C will **create jobs and employment for residents.**

91%

Believe that Bruce C will be **good for the community.**

90%

Agree that when it comes to the development of new electricity generation capacity, the Bruce Power site presents **significant advantages.**



“Ontario is leading North America’s largest nuclear expansion, on-time and on-budget. Bruce C represents a massive nation-building opportunity for Canada, creating over 18,000 construction jobs and adding $238 billion to Canada’s economy. Ontario’s plan to expand nuclear energy will create 150,000 new jobs, with over 90% of every dollar invested stamped with Made-in-Canada. Amid global uncertainty, we are proud to double down on Ontario’s skilled nuclear workforce who will deliver Bruce C — truly the very best on earth.”

— Stephen Lecce, Minister of Energy and Mines

Environmental

MONITORING AND ASSESSMENTS

Monitoring at the Bruce Power site has evolved alongside our understanding of Lake Huron and its surrounding environment. Early studies, beginning in 1954, focused on understanding local lake currents and physical processes. Since Bruce Power assumed site operations in 2001, environmental assessments, protection and monitoring programs have been expanded and strengthened.

Bruce Power's Environmental Protection Program is built upon an integrated monitoring approach that strives to understand environmental impact, verify environmental protection and continuously improve our performance. Environmental monitoring programs focus on the local area around the site, including neighbouring communities and Lake Huron. Together, the results build an overall understanding of the risk to human health and impact to the environment.

Bruce Power's environmental programs have grown to include monitoring of **temperature, aquatic and terrestrial ecosystems air quality, noise, and infrastructure interactions.**

The effects of the project on the environment and the effects of the environment on the project

When a potential adverse effect is identified, mitigation measures are identified for how the potential effect could be avoided or minimized. Many of these potential effects are further limited by the laws or regulations of Ontario or Canada, so the Bruce C Impact Statement and Licence to Prepare Site application must demonstrate that the project is able to properly protect the human and natural environment from these potential effects.

Information about the physical site characteristics is also used to inform the existing conditions of the human and natural environment and to support assessments such as how the environment could potentially affect the project (e.g., severe and/or extreme weather conditions). These site characteristics and how they were considered in the assessment will be documented in the Bruce C Impact Statement that is submitted to IAAC at the end of the Impact Statement phase.

Examples of site characteristics used in the Bruce C Impact Statement:

- **Rainfall/precipitation**
- **Earthquake**
- **Water levels and temperatures**
- **Soil properties**
- **Tornado**
- **Wind speed and direction**
- **Air properties**

Consideration

LOCATION OF A POTENTIAL NEW NUCLEAR BUILD

Bruce Power has commenced a siting assessment to understand potential constraints and opportunities on the Bruce Power site, support conceptual layout development and evaluate suitable areas for potential development.

The siting process allows for an objective, transparent and rigorous understanding of the Bruce Power site relating to land footprint suitability and provides foundational information that will assist with engagement with Indigenous Nations and communities and local communities regarding siting. The siting areas will continue to be refined through engagement, and environmental and feasibility studies being completed to support the IA.

Google Earth Image 2020

The site suitability analysis evaluates key criteria such as:

ENVIRONMENTAL
Impact to water, fish and wildlife habitat, including wetlands, animal movement corridors and areas with potential to support species of conservation concern.

CULTURAL
Avoiding areas of cultural and archaeological significance to Indigenous People.

TECHNICAL
Surficial geology, faults, terrain, groundwater aquifer, depth to water table, depth to groundwater, distance to drinking water sources, proximity to water.

Technology Selection

TYPES OF REACTORS BEING CONSIDERED FOR THE BRUCE C PROJECT

The five technologies included in the project's PPE were provided in the Bruce C Initial Project Description. Information about each of the reactors is provided below.

- **Candu Monark**
- **Advanced Passive 1000 (AP1000)**
- **European Pressurized Water Reactor (EPR)**
- **Boiling Water Reactor 10th Generation (BWRX-300)**
- **Advanced Boiling Water Reactor (ABWR)**

Selecting Ontario's next large-scale nuclear technology

As Ontario plans for the next generation of nuclear energy, the government is ensuring OPG and Bruce Power take a deliberate, coordinated approach to evaluating future large-scale nuclear technologies at their sites. This approach recognizes the long lead times, complexity, and lasting impacts of new nuclear projects and would draw on the expertise of the IESO to support informed, long-term decision-making on the role of nuclear energy in Ontario's future electricity system.

To support this work, the government is establishing a New Nuclear Technology Panel. The panel would include senior leadership from OPG, Bruce Power, the IESO, and the government.

The panel will ensure that the coordinated selection process by OPG and Bruce Power considers a wide range of policy objectives – including safety, cost-effectiveness, energy security, and the potential to maximize economic and job benefits across Ontario.

What reactor technology will Bruce Power select?

A specific reactor technology has not been selected for the project. As a result, the Impact Assessment will remain technology neutral by using a Plant Parameter Envelope (PPE) approach.

This approach allows the IA to proceed while technology selection is still being evaluated, providing flexibility to both Bruce Power and the province of Ontario before committing to a specific technology for future deployment.

The IA provides an assessment of the likely effects of the project by using parameters for each reactor type and forming a bounding case for the impact of a new construction, known as a Plant Parameter Envelope (PPE).

Key aspects of the PPE

For a nuclear project, the PPE covers many different parameters, from the amount of land area needed, to the temperature of cooling water.

Some of the main areas the PPE considers include:

- POWER PRODUCTION
- FUEL TYPES AND AMOUNT
- NUMBER OF WORKERS
- HEAT TRANSFER TO THE ENVIRONMENT
- STANDBY POWER GENERATION
- WATER TREATMENT AND USE
- EMISSIONS FROM THE PLANT
- LAND USE
- BUILDING SIZES, HEIGHTS AND EXCAVATION DEPTHS
- MAINTENANCE NEEDS
- RADIOACTIVE/NON-RADIOACTIVE WASTE TYPES AND AMOUNTS

What is a Plant Parameter Envelope (PPE)?

A PPE is a way to describe several different nuclear reactors in a single assessment by compiling the most impactful aspects, or parameters, of each of the reactors. Together these parameters describe the characteristics used to assess the effects of the project. For each parameter, the PPE selects the most bounding or conservative value from the reactor technology options being considered for the project.

The PPE consists of values representing the greatest potential impact of each characteristic of the reactor designs considered. The PPE is considered bounding as none of the individual reactor designs would have a greater impact on the environment, socio-economic conditions or human health than what has been defined in the PPE.

Timeline and status of the Bruce C Project

Impact Assessment Process

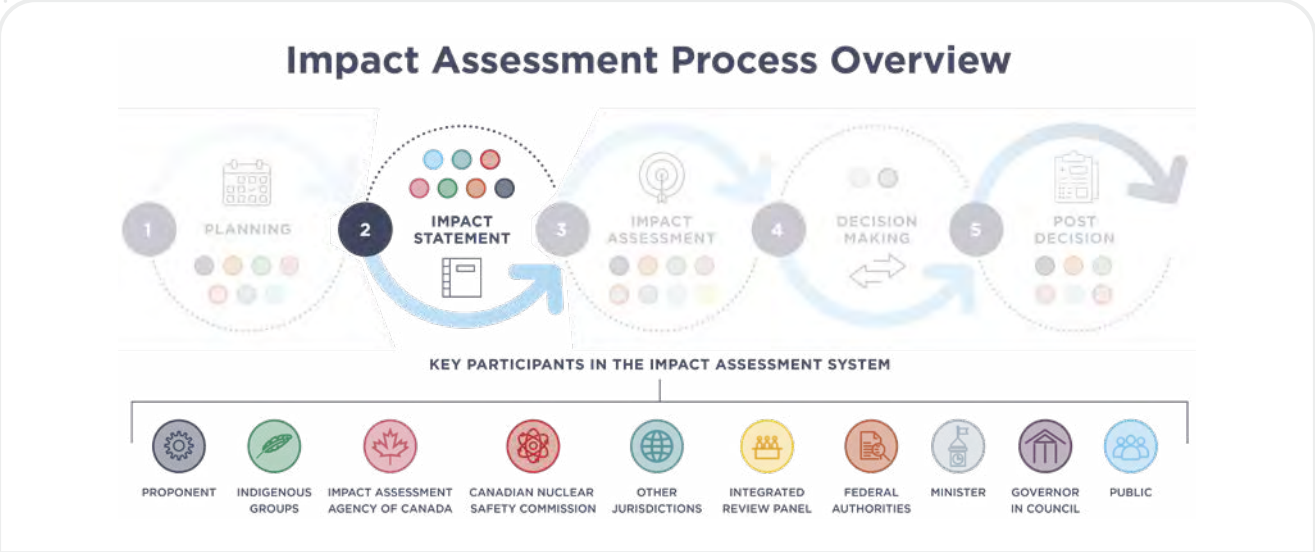
The Impact Assessment Agency of Canada (IAAC) leads federal Impact Assessments for all designated projects under the Impact Assessment Act. IAAC works in collaboration with the CNSC to review projects that are also subject to regulation under the Nuclear Safety and Control Act.

Where is the Bruce C Project in the Impact Assessment process?

Bruce Power is currently in the Impact Statement Phase of the IA Process.

In the Impact Statement phase, the Bruce C Project team will prepare the Impact Statement by:

- **Documenting existing conditions and including Indigenous knowledge and community knowledge where provided.**
- **Assessing potential positive and negative effects of the project.**
- **Identifying ways to mitigate possible negative effects and enhance the beneficial effects of the proposed project.**
- **Understanding cumulative impacts through Cumulative Effects Assessment.**
- **Continuing to engage with Indigenous Nations and communities, municipalities and the public.**



Upon successful completion of the Integrated Impact Assessment process, Bruce Power could receive a License to Prepare Site and begin site preparation activities.

The goal of an Impact Assessment is to identify and assess the possible impacts of the project prior to any decision to build new nuclear and considers a wide range of factors including protecting the environment, ensuring respect for the Rights of Indigenous Peoples and proposing measures to mitigate a project's anticipated adverse effects.

For more information, visit the **Impact Assessment Agency of Canada website.**

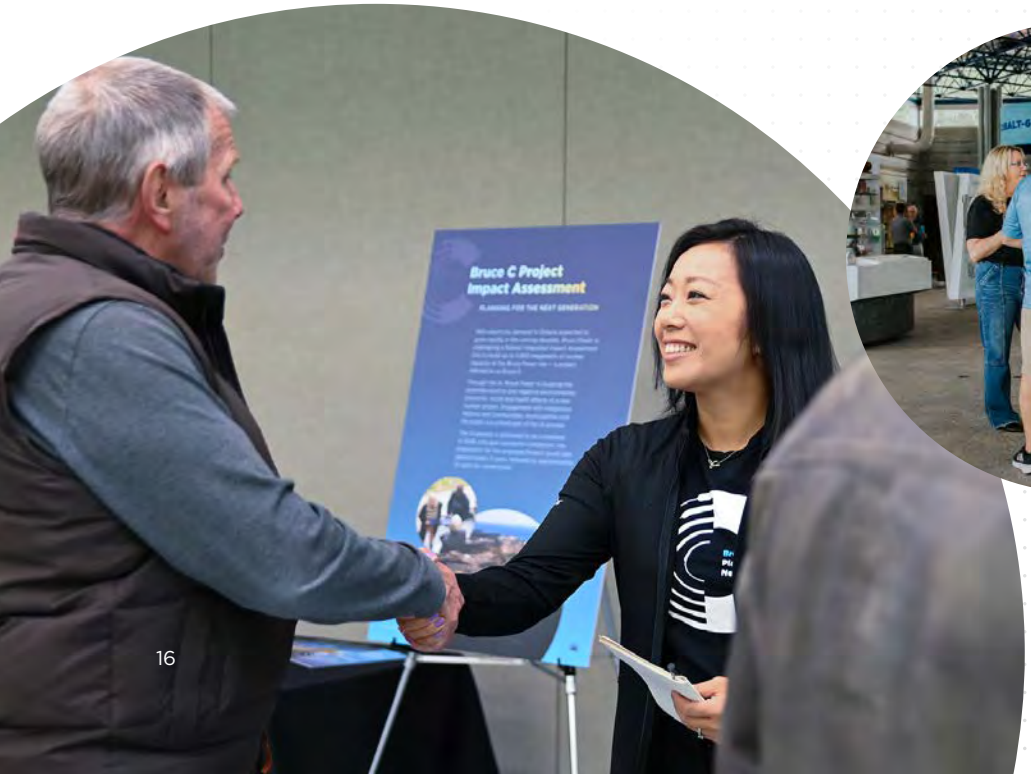
Community

BRUCE POWER'S COMMITMENT TO ENGAGEMENT

Bruce Power owes much of its success to the support and commitment from its surrounding communities.

The company firmly believes in the importance of proactive, open and transparent engagement as it continues through every step of the Bruce C Project. The company has a long history of engaging and supporting local communities and will engage with all interested parties, including the Saugeen Ojibway Nation, Métis Nation of Ontario (Region 7), Historic Saugeen Métis, workers, partners, municipalities, governments, and the public throughout the IA process.

Bruce Power will keep interested parties informed and engaged throughout the IA process and will provide regular updates about the project through its website, community information sessions newsletters, social media and videos.



Tell us what you think

Bruce Power is committed to meaningful, ongoing public engagement as it advances this important project.

Learn more about the Bruce C Project, ask questions, share feedback and stay updated on engagement opportunities at **engage.brucepower.com/brucec**

Prefer to provide feedback on a paper form?

Ask for a form at the Bruce Power Visitors' Centre (3394 Bruce County Rd. 20, Tiverton).

Bruce Power™
Innovation at work

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