

**WELCOME!**

**Napanee Generating  
Station Expansion  
Public Meeting**

An opportunity to learn and share  
feedback

May 16, 2024





# Why We Are Here

We're meeting to:

- Provide information about the Napanee Generating Station (NGS) Expansion and the environmental assessment (EA) process
- Share information on studies and investigations that were or will be done
- Answer your questions and get your feedback

You can provide feedback by:

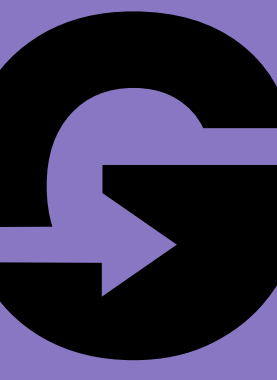
- Speaking to a project team member
- Completing a comment form
- Emailing:

[napaneeexpansion@aturapower.com](mailto:napaneeexpansion@aturapower.com)





# Project Need



The Independent Electricity System Operator (IESO) is the Crown corporation that operates the province's electricity system.



Ontario is entering a period of emerging electricity demand due to population growth and a greater use of electricity for transportation, heating and energy.

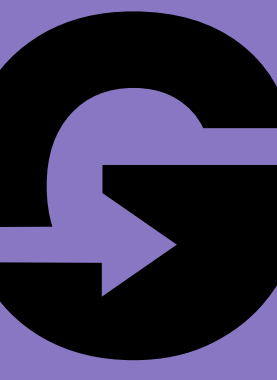
The IESO forecasts that an additional 4,000 megawatts (MW) of electricity are needed by the end of the decade to maintain reliability and currently seeking new resources.

Atura Power proposed the NGS Expansion to respond to the IESO's call to meet increasing electricity demand and ensure reliability to reduce the chance of future blackouts.

The NGS Expansion project received an IESO LT1 contract award on May 9, 2024.



# Project Description

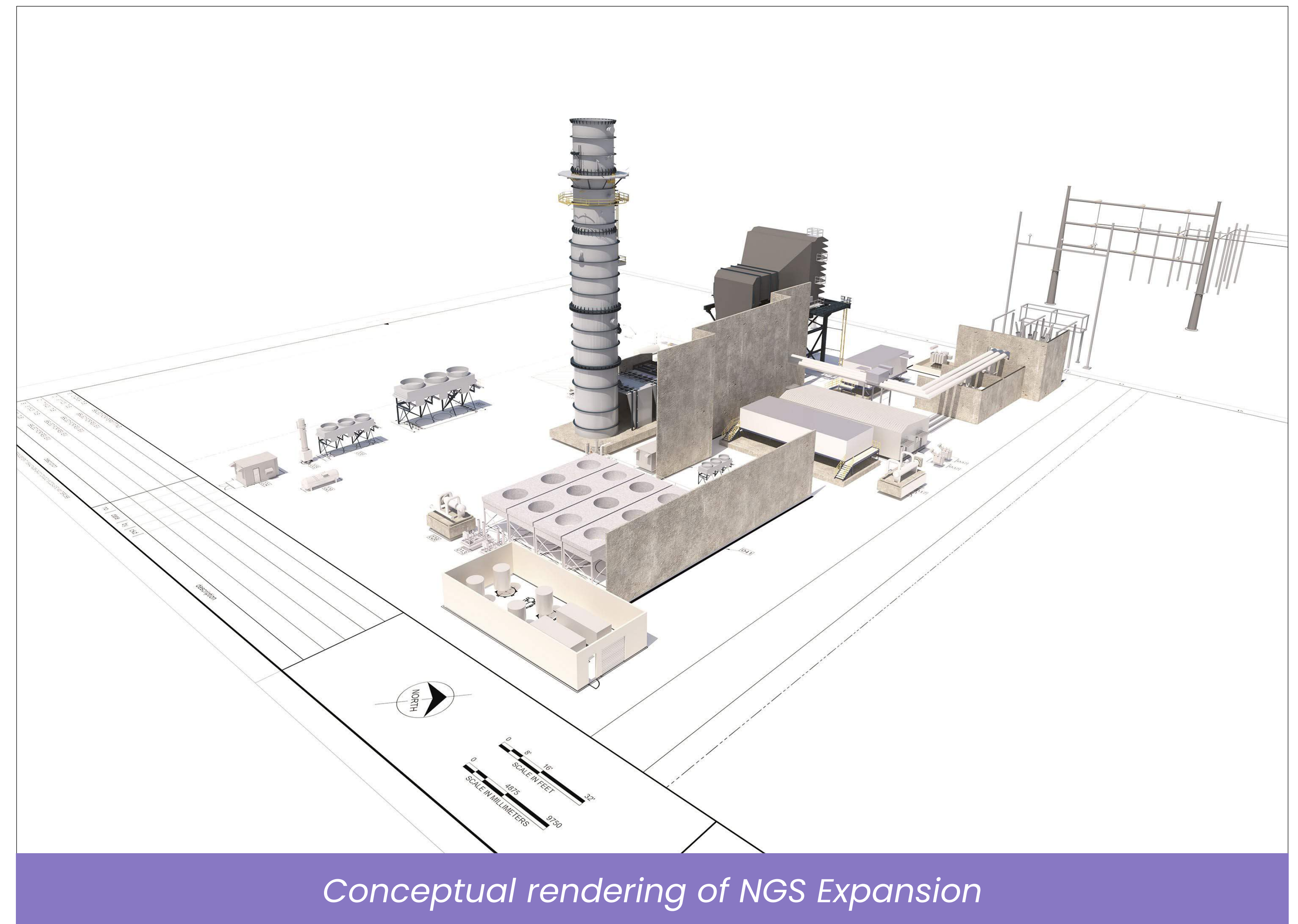


The project will add a simple cycle combustion gas turbine to provide a maximum contract capacity of 405 MW of electricity to Ontario's grid.

Existing infrastructure and facilities will be used.

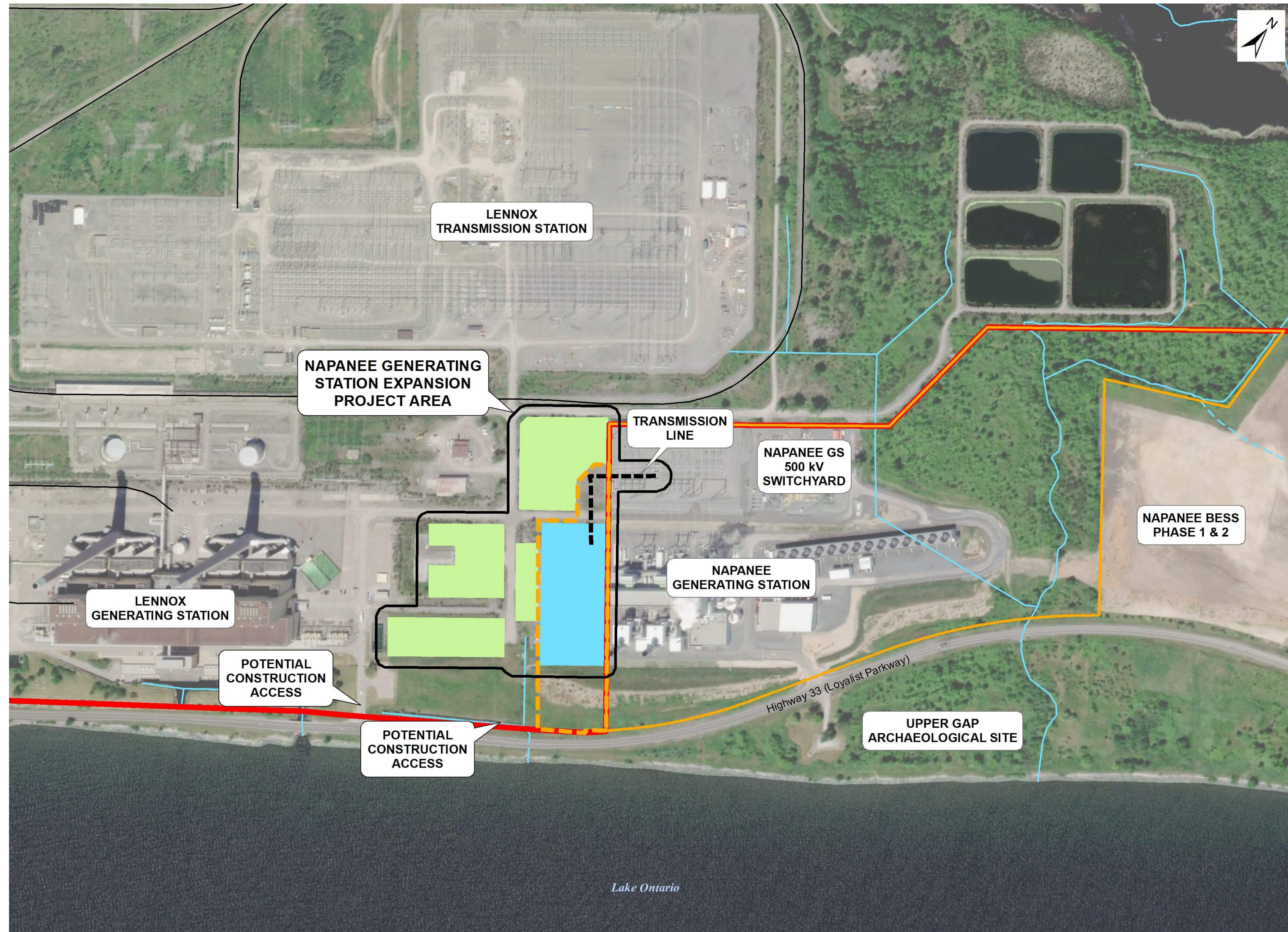
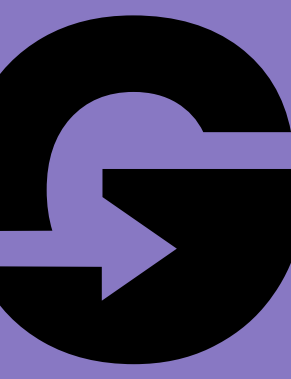
The project will be located between the Lennox Generating Station and NGS, on land owned by Ontario Power Generation.

There will be no expansion beyond the current stations' properties.





# Site Layout



## LEGEND:

### PROPOSED PROJECT

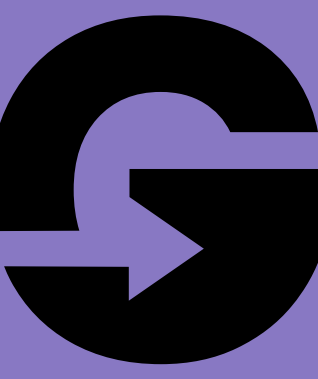
- NAPANEE GENERATING STATION (NGS) EXPANSION PROJECT AREA
- TRANSMISSION LINE
- PROPOSED OPG LAND SEVERANCE FOR NAPANEE GENERATING STATION EXPANSION
- TEMPORARY CONSTRUCTION AND LAYDOWN AREAS
- BUILT PROJECT COMPONENTS

### EXISTING FEATURES

- PROPOSED PORTLANDS ENERGY CENTRE LP (ATURA POWER) RETAINED LANDS
- OPG OWNERSHIP
- INTERMITTENT WATERCOURSE (LAND INFORMATION ONTARIO)
- PERMANENT WATERCOURSE (LAND INFORMATION ONTARIO)
- RAILWAY



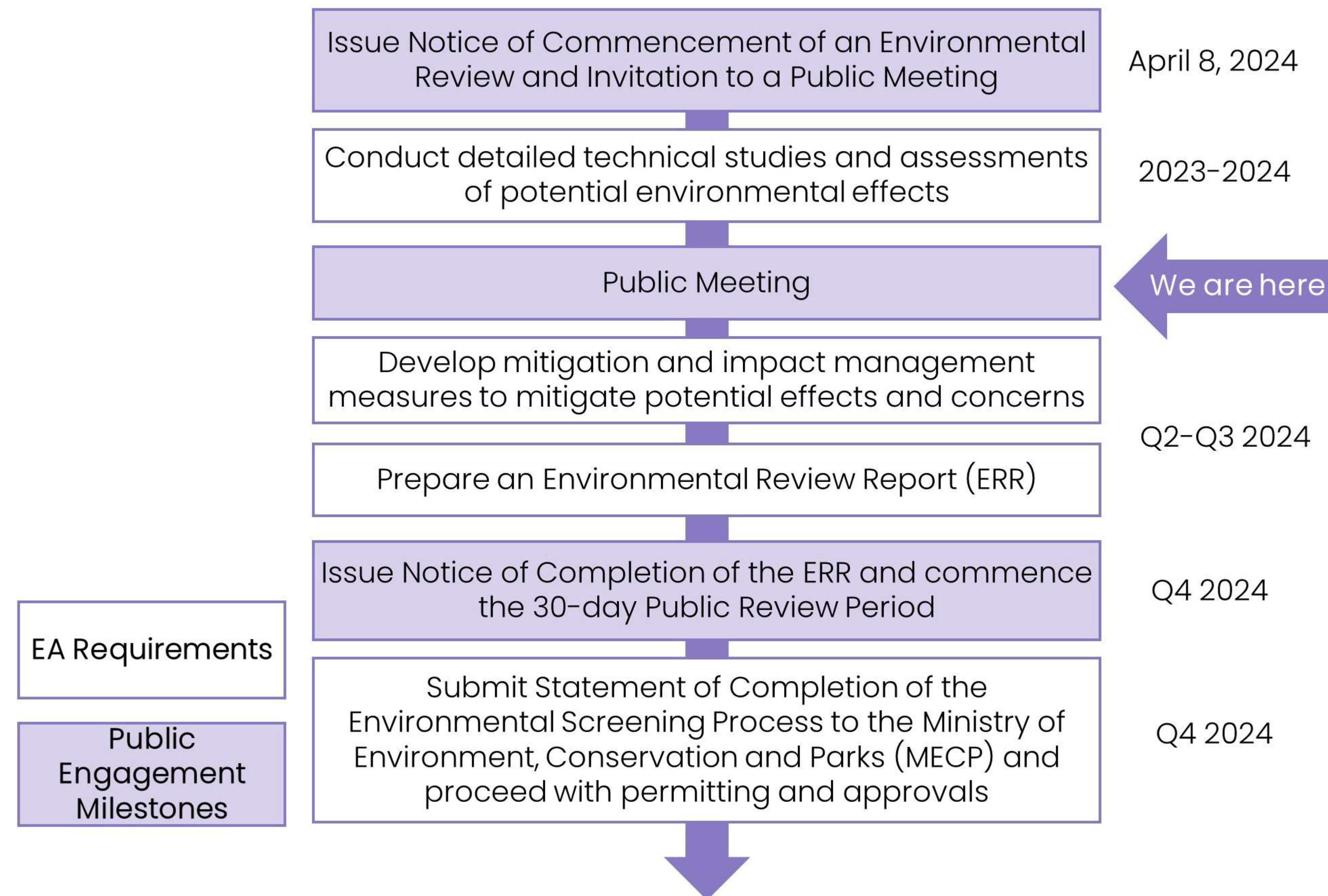
# Environmental Assessment Process



Projects that increase electricity output by more than five MW require an EA according to Ontario Regulation 50/24: Part II.3 Projects under the *Environmental Assessment Act*.

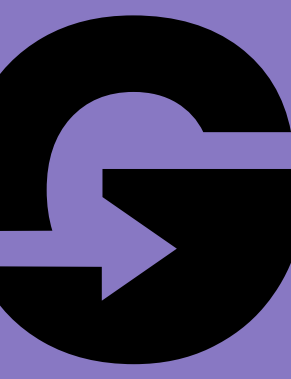
The project is classified as Category B under the Environmental Screening Process.

Atura Power chose to undergo an **Environmental Review**.





# Environmental Review



Screening criteria for an Environmental Review include:

- Surface and groundwater
- Land
- Air and noise
- Natural environment
- Resources
- Socio-economic
- Heritage and culture
- Aboriginal/Indigenous issues
- Other (i.e., any potential negative impacts not listed)

Atura Power reviewed existing conditions through background research and field investigations.

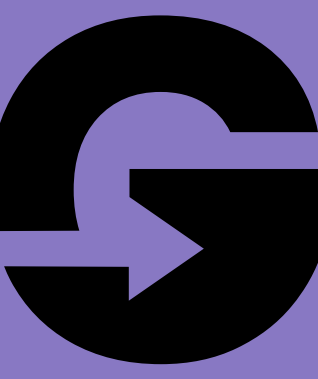
Potential effects are under assessment and mitigation measures will be recommended. This information, along with input from the public, Indigenous communities, agencies and other stakeholders, will be documented in an Environmental Review Report (ERR).



*Photo of onsite vegetation*



# Stormwater and Industrial Sewage



## Stormwater

- The storm drainage system is being designed such that it connects to existing infrastructure
- A Stormwater Management Plan (SWMP) is being prepared to mitigate any impacts of the development on runoff quantity, quality and peak flow rates
- The Intake Protection Zone will be unaffected by the project



*Photo of roadside drainage ditch*

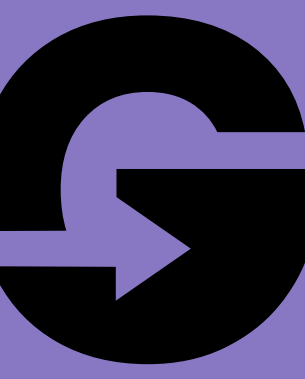
## Industrial Sewage

- Project process water needs will be limited and treated by existing NGS systems
- Discharge management will be designed and integrated with the existing NGS wastewater systems

An application for an amendment of the NGS Environmental Compliance Approval (ECA) for stormwater and industrial sewage will be submitted to the MECP



# Air Quality and Noise



## Air Quality\*

### ■ The air quality assessment will consider the following:

- Nitrogen dioxide
- Sulphur dioxide
- Particulate matter – PM<sub>2.5</sub> (fine fraction)
- Volatile organic compounds
- Carbon monoxide
- Suspended particulate matter
- Particulate matter – PM<sub>10</sub> (inhalable fraction)
- Polycyclic aromatic hydrocarbons

### ■ Modelled air concentrations from existing operations and the proposed turbine will be added to existing background air quality levels and compared to applicable criteria from the MECP's List of Ambient Air Quality Criteria (AAQCs)

## Noise\*

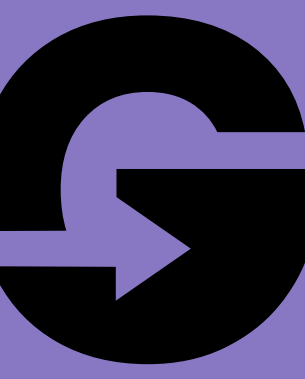
### ■ The noise assessment will include the proposed facility with the existing facility relative to noise criteria from the MECP's Environmental Noise Guideline – Stationary and Transportation Sources – Approval and Planning (NPC-300)

\* Pending consultation with the MECP

An application for an amendment of the NGS ECA (Air/Noise) will be submitted to the MECP



# Natural Environment



Key findings from 2023 field studies include:

- No wetlands or woodlands are in the study area
- All plant species are common throughout Ontario
- 16 species of breeding birds documented
- No species listed as endangered or threatened under *Endangered Species Act, 2007*, or Schedule 1 of federal *Species at Risk Act, 2002*, documented

Bat exit surveys are planned for summer 2024.

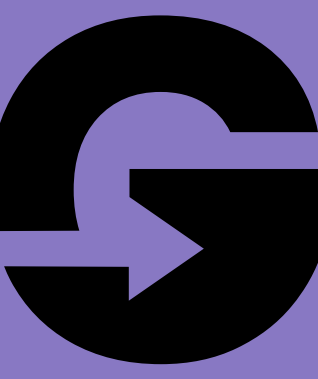
An impact assessment will be conducted to determine the project's potential effects on the natural environment.



Photos of onsite vegetation



# Archaeology and Cultural Heritage



## Archaeology

- Stage 1 and 2 Archaeological Assessments will be completed to identify presence of archaeological resources
- Indigenous field monitors participated in the Stage 2 Archaeological Assessment

## Cultural Heritage

- Cultural Heritage Screening completed to identify presence of cultural heritage resources
- Subsequent Heritage Impact Assessment concluded that the project will not negatively impact the identified Upper Gap Archaeological Site across the highway from the project site

Archaeological and Cultural Heritage reports will be submitted to the Ministry of Citizenship and Multiculturalism (MCM) for clearance/acceptance



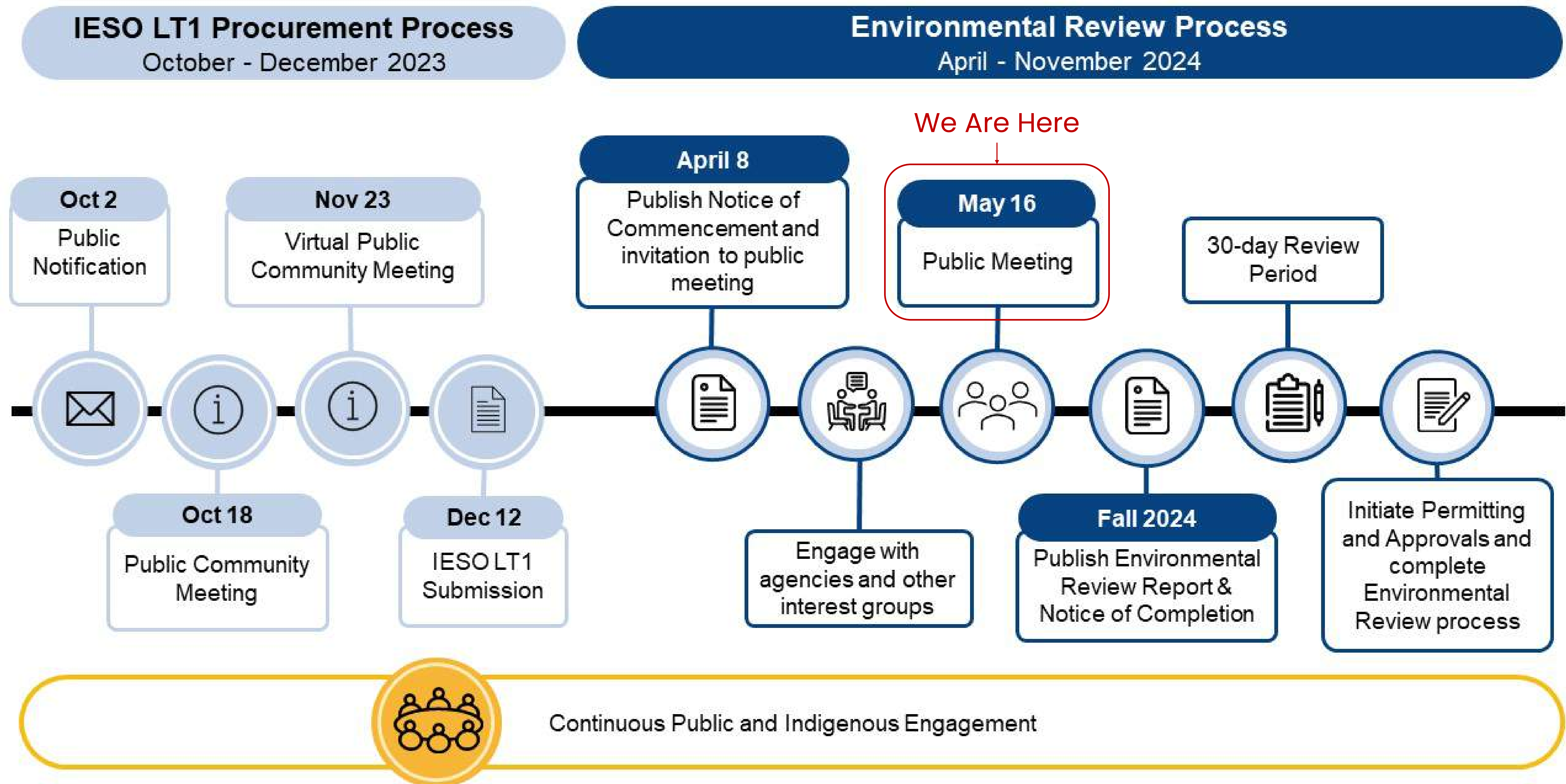
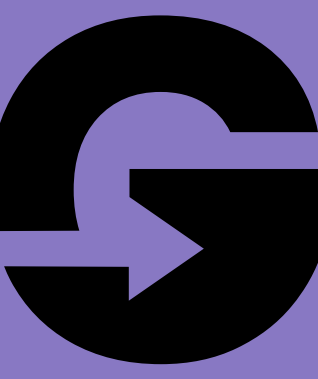
*Photo of Stage 2 Archaeological Assessment*



*Photo of Upper Gap Archaeological Site*

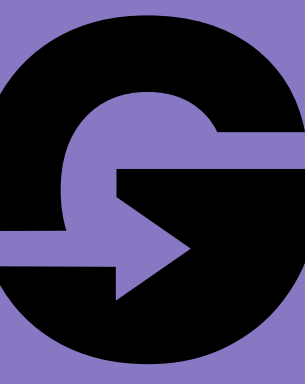


# Engagement Process





# Engagement Process



Engagement with Indigenous communities, the local Napanee community, municipal council and staff began in 2023.

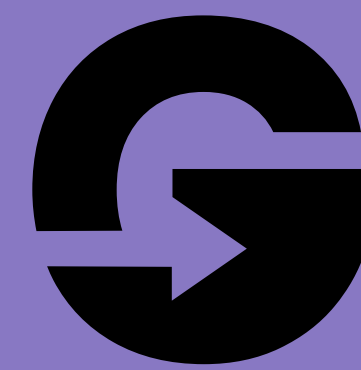
Indigenous interests are part of this study, and communities are being informed and engaged throughout the study.

Feedback from all stakeholders will be documented in the ERR.





# Project Timeline



Project Activity	Dates
Preparation of the ERR	Summer 2024
30-Day Review Period	Fall 2024
Notice of ERR Completion	Fall 2024
Environmental Permits and Approvals <ul style="list-style-type: none"><li>• ECA amendment (Industrial Sewage Works &amp; Stormwater)</li><li>• ECA amendment (Air &amp; Noise)</li><li>• Municipal Site Plan Approval</li><li>• MCM Archaeological and Cultural Heritage clearance</li></ul>	2024–2025
Construction Start Date	2025*
Commercial Operation Date	2028

\* Contingent on environmental approvals