

WELCOME

Napanee Battery Energy Storage System Project

Public Meeting
June 28, 2023

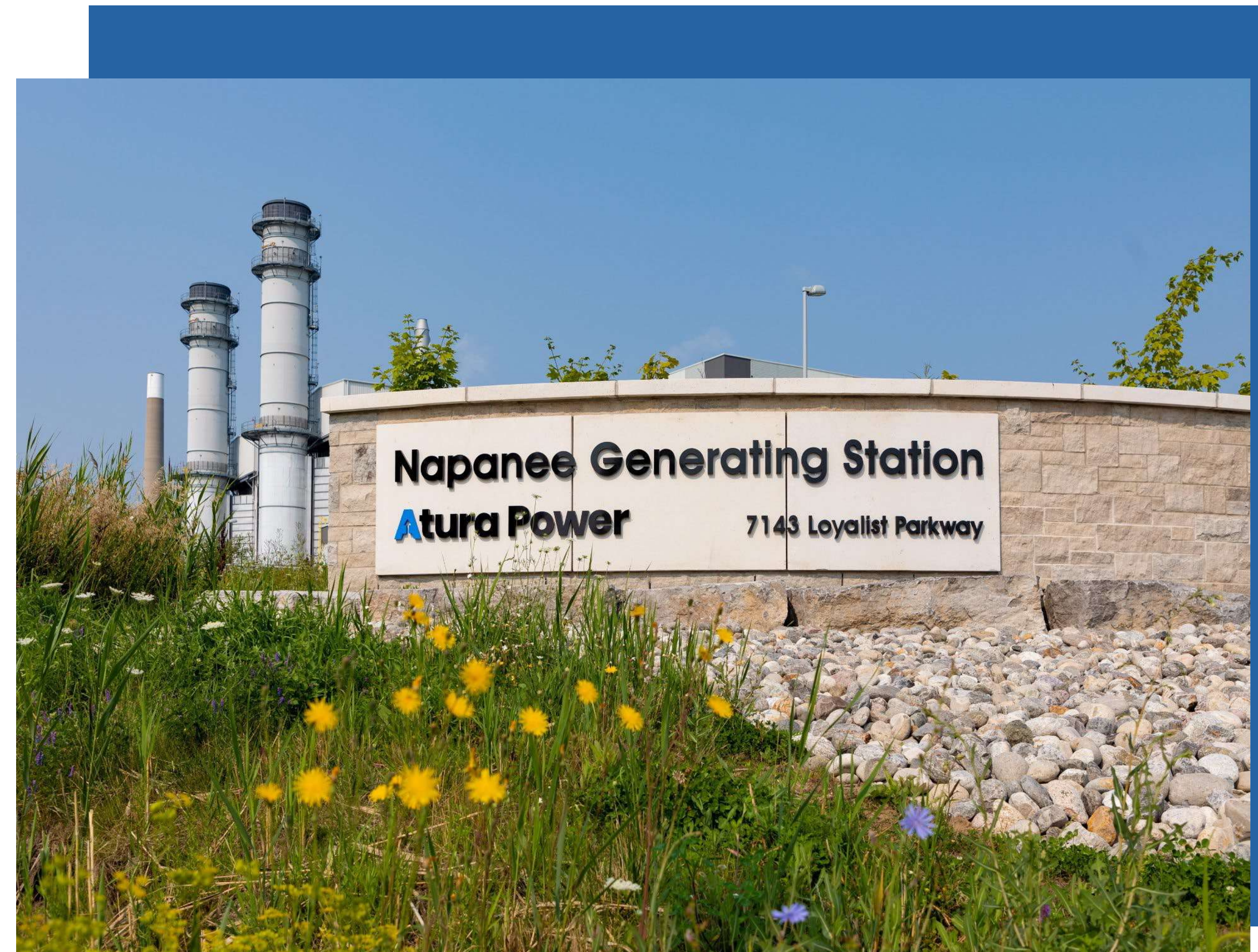


Why We Are Here

Welcome to the Napanee Battery Energy Storage System (BESS) Project public meeting!

The purpose of the public meeting is to:

- Share information about the Napanee BESS
- Answer any questions you may have
- Get your early feedback to help with the planning of the Napanee BESS



Land Acknowledgment

Napanee Generating Station, Greater Napanee, Ont.

We are on the treaty and traditional territory of the Williams Treaties First Nations which include Alderville First Nation, Hiawatha First Nation, Curve Lake First Nation, Scugog Island First Nation, Rama First Nation, Beausoleil First Nation, and Georgina Island First Nation.

We also acknowledge the Mohawks of the Bay of Quinte whose treaty territory is in the neighboring location of Tyendinaga.

We recognize these lands have been the home of many indigenous peoples over the centuries, including the Huron-Wendat, the Métis, and the Haudenosaunee.



About Us

Napanee BESS Inc.

A joint venture between Atura Power and Ameresco Canada Inc. formed specifically for this project.

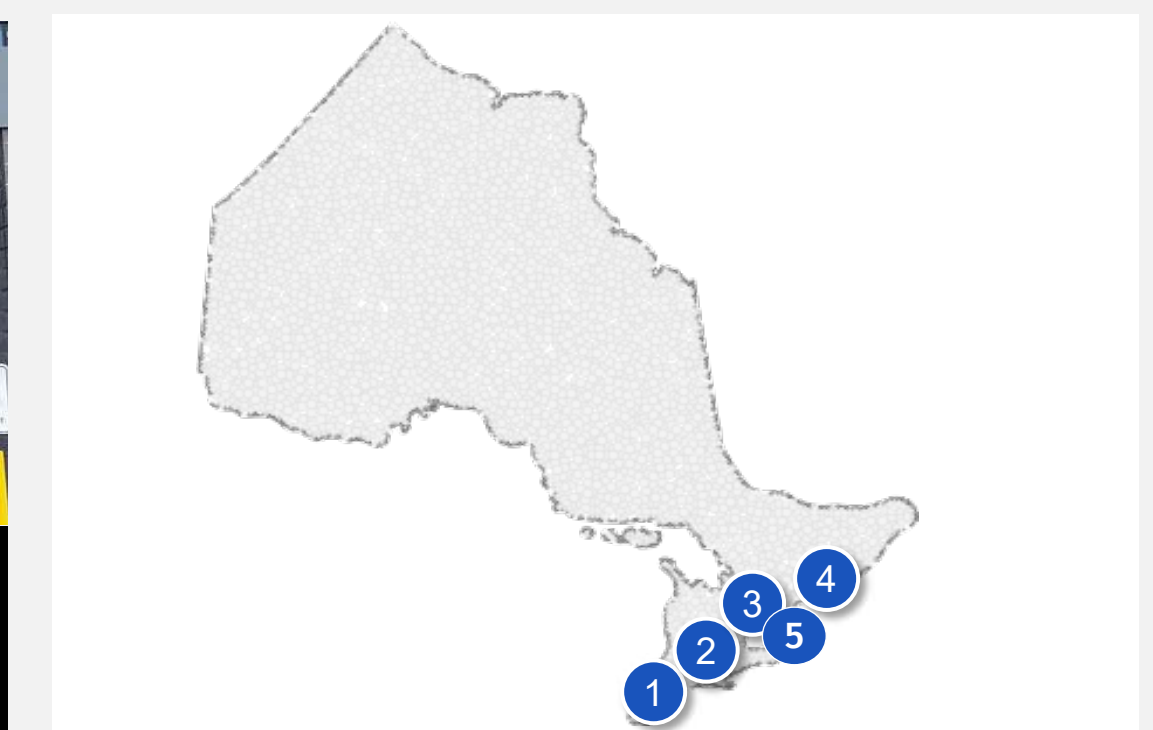
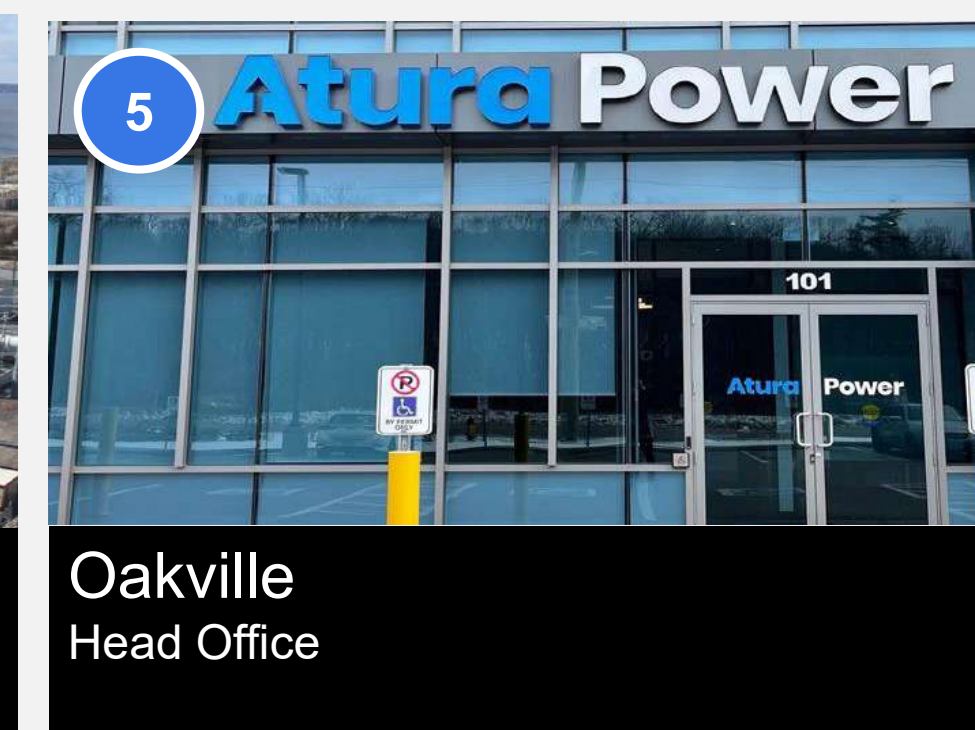
Atura Power

A subsidiary of Ontario Power Generation (OPG), Atura Power owns and operates Ontario's largest fleet of combined-cycle gas turbine powerplants, with 2,715 megawatts (MW) of capacity across four facilities.

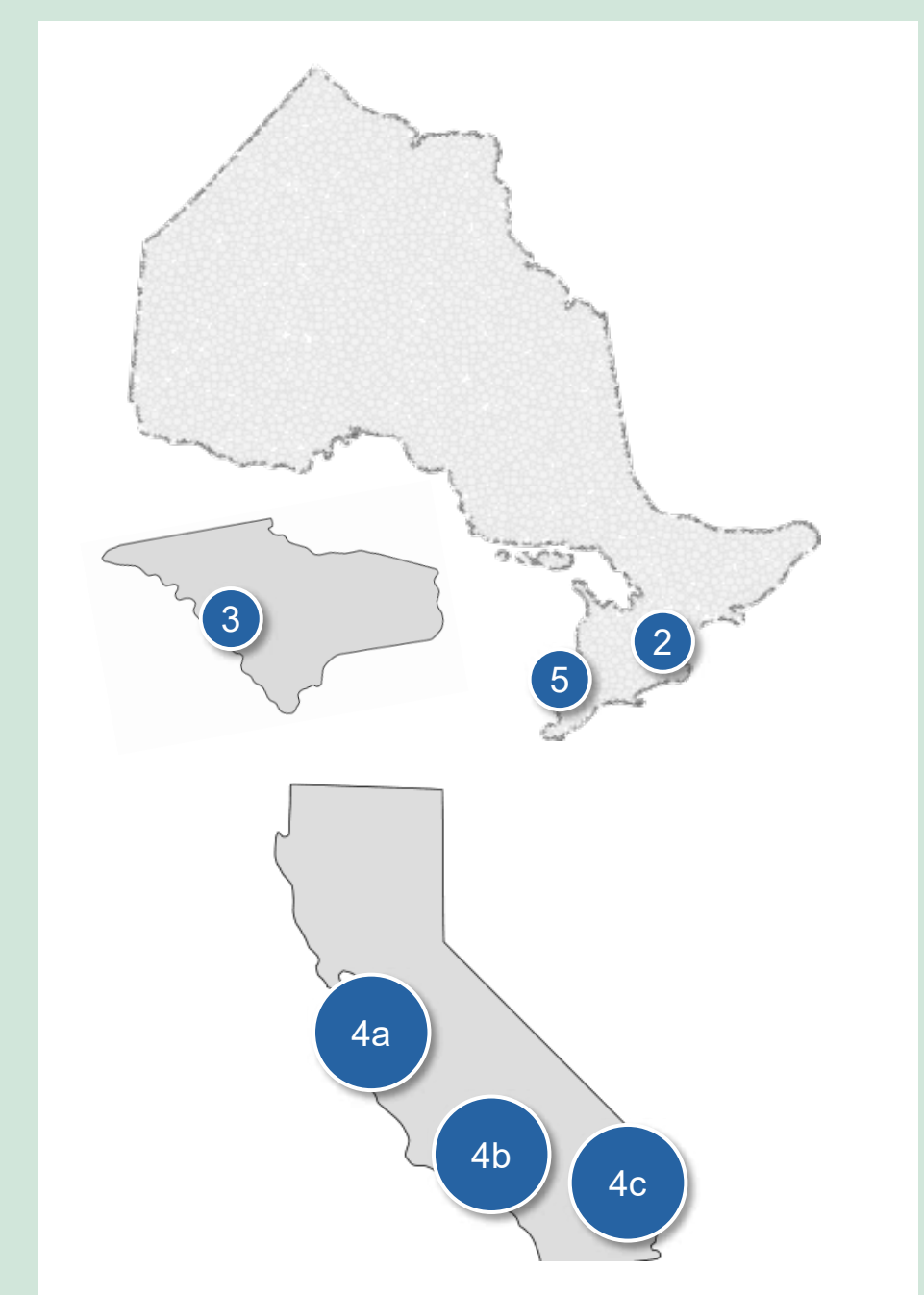
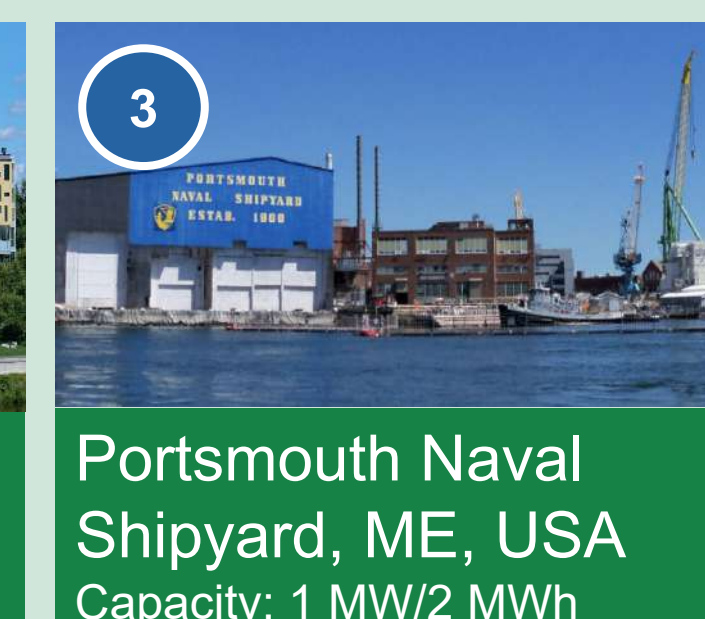
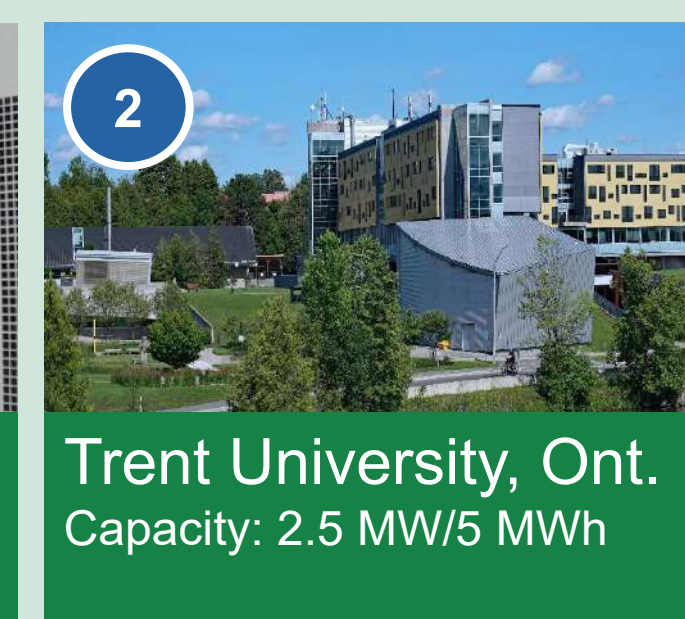
Ameresco

Ameresco Canada Inc. is a wholly owned subsidiary of Ameresco, Inc., specializing in BESS. With a portfolio of over 890 MW / 3,450 MWh in storage capacity, we provide end-to-end expertise in BESS projects across North America.

Atura Power Fleet of Generation Assets



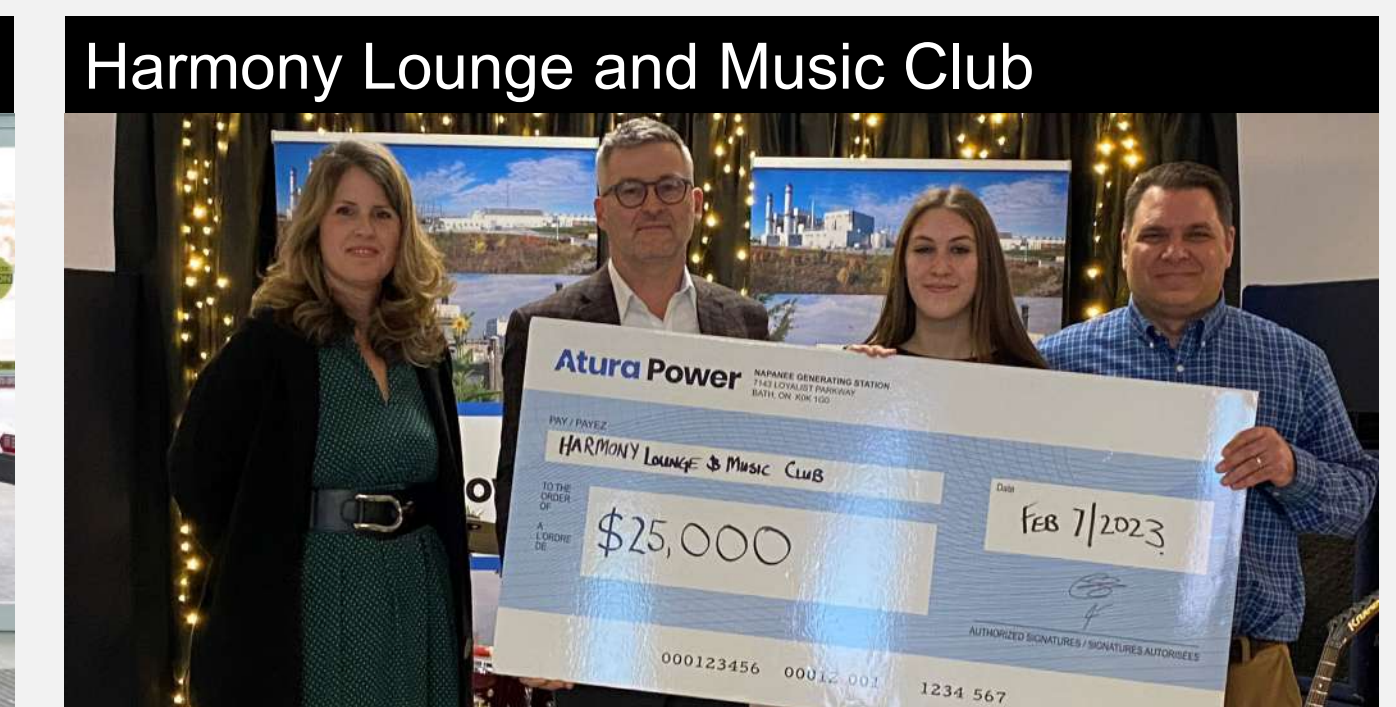
Ameresco BESS Projects



Community Outreach & Support

Atura Power is an engaged community partner and supporter in Greater Napanee. The company donated more than \$200,000 to organizations in 2022 and 2023 through the Community Development Fund including:

- Lennox and Addington County General Hospital (LACGH) Foundation
- Royal Canadian Legion Branch 137
- United Empire Loyalist (UEL) Heritage Centre & Park
- Softball Napanee
- Harmony Lounge & Music Club
- Napanee District Secondary School
- Napanee Crunch Female Hockey Association



About the Project

- The Napanee BESS Project (the project) will be contracted to deliver a maximum energy capacity of 500 MW and discharge it for a duration of up to four hours
- The project consists of two phases, each of which include a BESS with a contracted capacity of 250 MW
- The project is proposed to be located adjacent to the east of Atura Power's Napanee Generating Station (NGS) in the Town of Greater Napanee

The project is located in an area previously used for equipment storage and parking during the NGS construction.



Project Need

The Independent Electricity System Operator (IESO) is the Crown corporation responsible for operating the electricity market in Ontario



- The IESO predicts Ontario will face an energy and capacity shortage, as a result of nuclear retirements and refurbishments and increasing demand; an additional 4,000 MW are needed to close the anticipated supply gap
- The IESO has initiated procurement processes to achieve year-round effective capacity from hybrid electricity generation and storage facilities. The current procurement process is called the Long-term Request for Proposals (LT1 RFP)
- The proposed project can help address this supply gap, providing a cost-effective and timely solution to secure operational flexibility in the Ontario electricity grid

Project Description

The project will be completed in two phases:

- Phase 1 – commissioning a 250 MW BESS facility as approved by the IESO through the Expedited Long-term Request for Proposals (E-LT1 RFP) process
- Phase 2 – feasibility studies are underway for second BESS facility to add up to an additional 250 MW and is pending application to IESO's LT1 RFP process



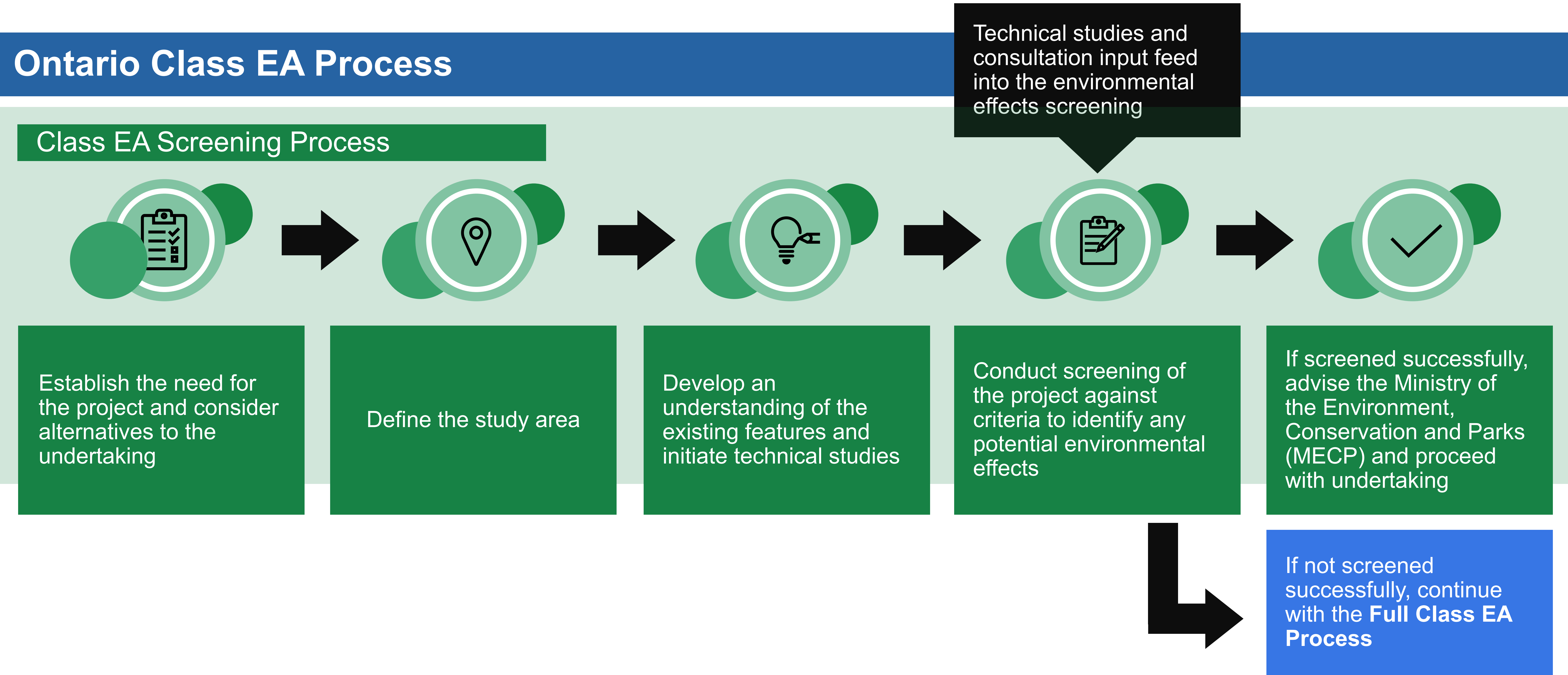
Connection to IESO-controlled electricity grid

- New high-voltage transformer substation (34.5-500 kilovolts (kV)) for each project phase
 - High voltage tap line less than two kilometres (km) in length (500 kV)
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- Ancillary components: Stormwater management, site access and servicing, operations and maintenance support building, temporary construction areas
 - The project design will make use of some existing infrastructure but will be a standalone facility, operating independently of the nearby generating stations

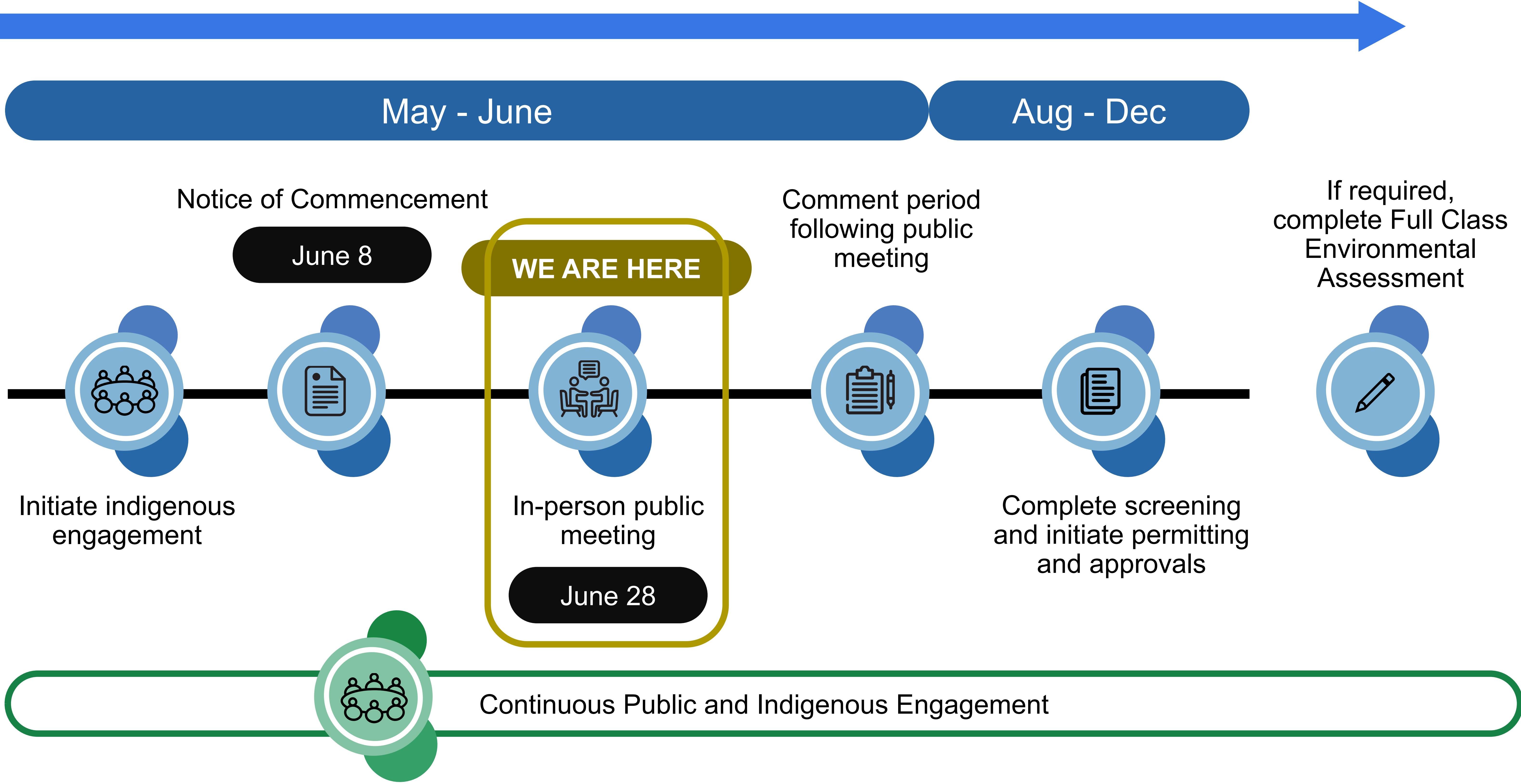
Environmental Assessment Process

- The battery energy storage units do not trigger the Ontario *Environmental Assessment Act*
- The transformer substations are subject to the Ontario Class Environmental Assessment (Class EA) for Minor Transmission Facilities as they will have a voltage level of between 115 and 500 kV

Ontario Class EA Process



Public & Indigenous Engagement



Comments or questions can be sent to: energystorage@napaneebess.ca

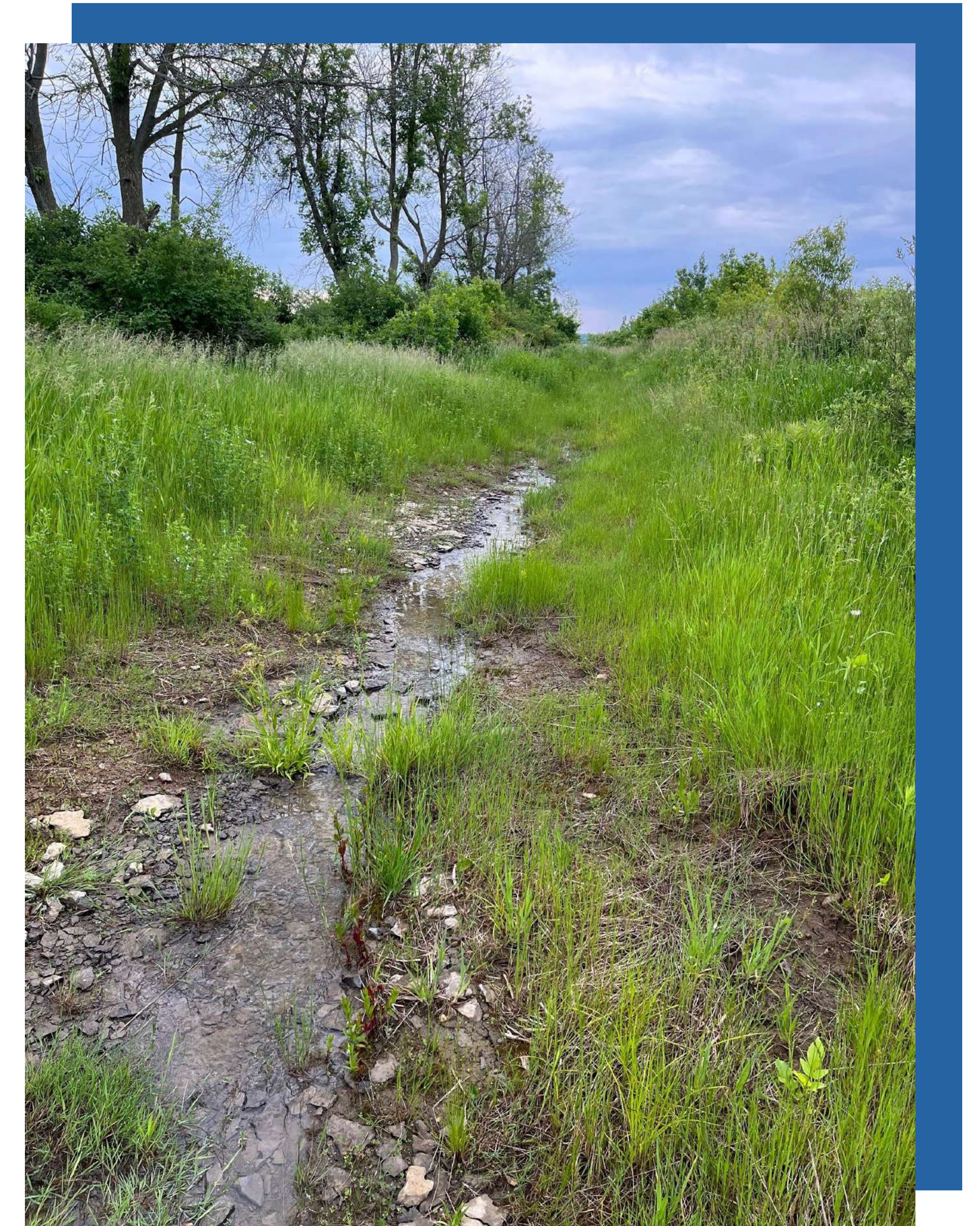
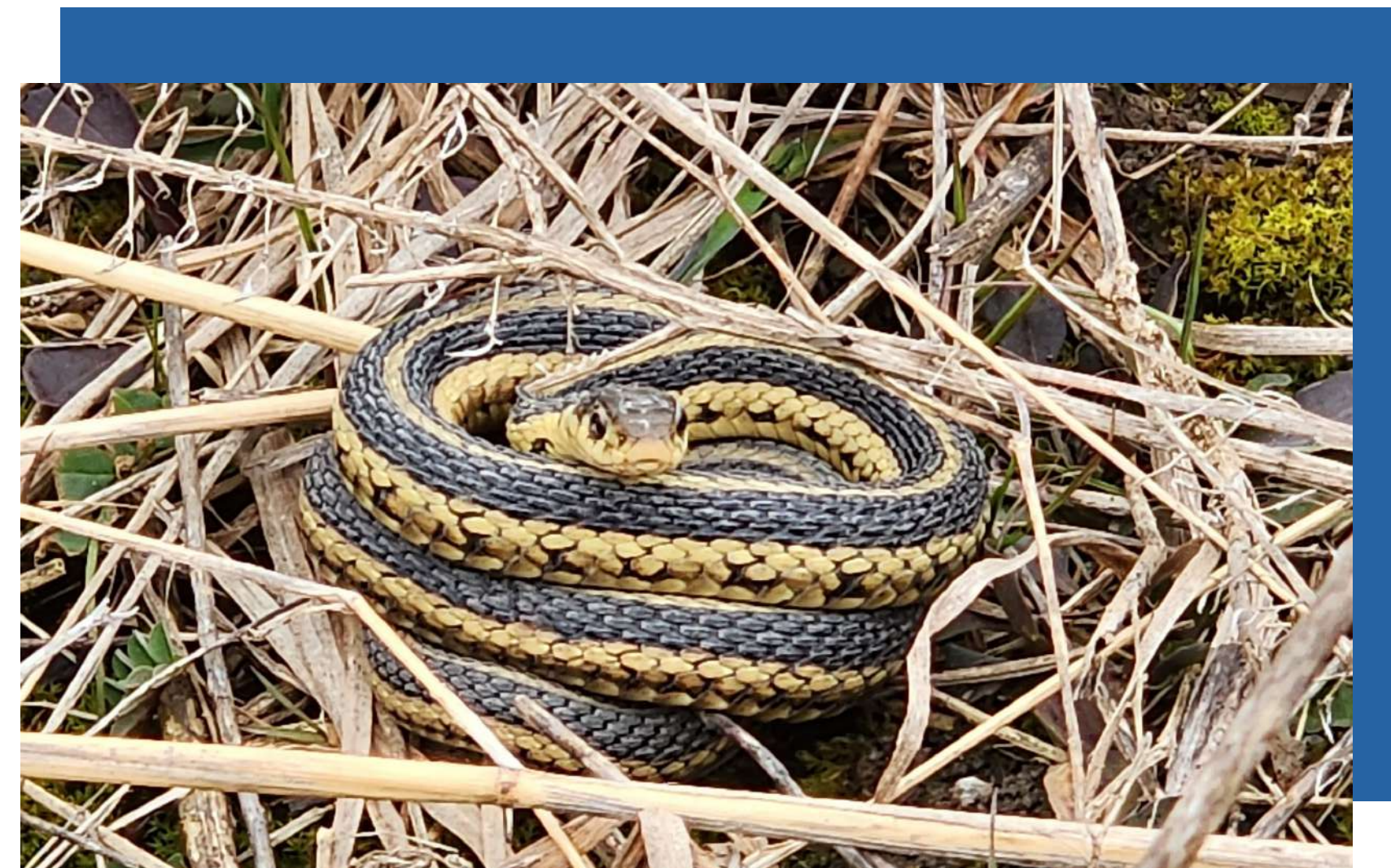
Proposed Site & Existing Environmental Features



Technical Studies

Technical studies have been completed or are underway to inform the project design, Class EA Screening and future permit applications. These include:

- Acoustic assessment
- Stormwater management
- Hydrology and hydraulics
- Natural heritage and ecology
- Land use and policy
- Traffic
- Archaeology
- Cultural heritage
- Landscaping / visual aesthetics



Screening of Potential Project Effects

Environmental Components



Land Use and Policy

Effects Management:

- The project site is currently zoned General Industrial and can accommodate the project.
- A policy review is currently underway. Technical studies may be required to support the Site Plan Approval process.



Air and Acoustics

Effects Management:

- There are no air emissions associated with the operation of the BESS. Standard Environmental Management Practices will be applied during construction.
- Preliminary noise modeling is being undertaken to support the design process. The Environmental Activity and Sector Registry (EASR) process will require detailed modeling in accordance with Ministry of the Environment, Conservation and Parks (MECP) requirements.



Stormwater, Hydrological and Hydraulic Resources

Effects Management:

- Detailed studies are ongoing to examine hydrology/ hydraulics of the unnamed creek as part of stormwater management planning.
- The Stormwater Management Plan will be prepared in accordance with MECP requirements and is subject to regulatory review and approval.
- The unnamed creek on site is associated with a Conservation Authority (CA) regulated area. Technical studies will support permitting.



Natural Heritage and Ecology

Effects Management:

- Field studies are being conducted within the study area which include completing an inventory of natural heritage and ecological features.
- The project design is taking into consideration the results of these studies.
- The project is being sited more than 30 m from the unnamed creek to avoid effects on fish and fish habitat.

Screening of Potential Project Effects

Environmental Components

Agricultural Lands and Operations

Effects Management:

- The land adjacent to the study area is actively farmed.
- Site access for the project is currently used for agricultural field access. Napanee BESS Inc. will coordinate as needed to avoid effects on field access and operations.

Cultural Heritage

Effects Management:

- The project will be screened to determine whether there are any requirements related to built heritage and cultural heritage landscapes.
- Cultural heritage specialists will undertake any required studies in accordance with the *Ontario Heritage Act*.

Archaeological Resources

Effects Management:

- The majority of the NGS property has received full archaeological clearance.
- An archaeological review of the project site is underway for isolated areas within the study area (for example at the tap line connection). A licensed archaeologist will undertake any required studies in accordance with the *Ontario Heritage Act*.

Community Services and Facilities

Effects Management:

- Permanent and temporary construction access to the site will require Ministry of Transportation (MTO) approval.
- Detailed technical studies including a traffic study will be undertaken as part of the permitting process.

Neighbourhoods and Community

Effects Management:

- Long-term effects on persons and private properties are not anticipated as a result of the project. Effects are anticipated to be short-term and localized during construction.
- Minimal community disruption is anticipated as a result of project maintenance activities during operation.

Landscaping and Visual Aesthetics

Effects Management:

- Renderings related to visual aesthetics have been prepared and incorporate preliminary input received from the municipality.
- Existing berms will be maintained along the highway at the south portion of the site.
- To support the Site Plan Approval process, a landscaping plan will be prepared for the project.

Other Permits & Approvals

In addition to the Class EA process, the following permits and approvals are anticipated for the project:

- Environmental Compliance Approval (ECA) for industrial sewage for stormwater management
- Environmental Activity and Sector Registry (EASR) for noise
- Ministry of Transportation (MTO) approval for access to and works near the provincial highway
- Site Plan Approval for development within the municipality
- Cataraqui Regional Conservation Authority (CRCA) permit for works within regulated areas including overhead tap line crossing of the unnamed creek
- Cultural Heritage Study
- Archaeological clearance (for small isolated areas)



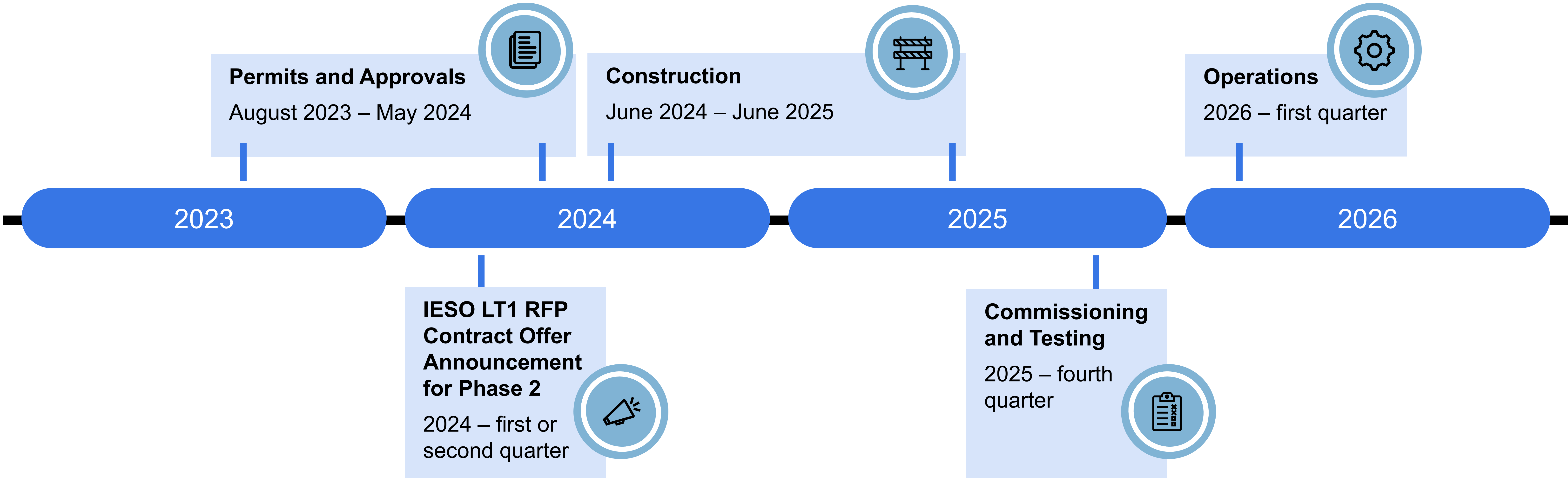
Engagement with the appropriate agencies is underway to support future permitting and approvals.

Next Steps & Project Schedule

Next Steps:

- Summarize and respond to feedback received following this public meeting
- Complete field work and technical studies as part of the Screening Process

Project Schedule:



Thank You for Attending!



We appreciate the opportunity to share information on the Napanee BESS Project.

We want to hear from you!

We value your feedback and want to hear what you think. Please help yourself to some refreshments and complete a comment form before you leave or send it to us by **July 14, 2023**.

Email: energystorage@napaneebess.ca

Mail: 1415 Joshuas Creek Drive, Unit #101, Oakville ON L6H 7G4

To learn more about the project, please visit the project webpage:

www.napaneebess.ca