



Napanee Generating Station Expansion

**Environmental Review Report
for Electricity Projects**

APRIL 2025

Napanee Generating Station Expansion

Environmental Review Report for
Electricity Projects

Atura Power

PREPARED FOR:

Atura Power
1415 Joshuas Creek Drive, Unit 200
Oakville, Ontario L6H 7G4



PREPARED BY:

Independent Environmental Consultants
582 St. Clair Avenue West, Suite 221
Toronto, Ontario M6C 1A6

Executive Summary

Portlands Energy Centre L.P. (Atura Power), a subsidiary of Ontario Power Generation, is proposing to expand the existing natural gas fuelled Napanee Generating Station (NGS) to increase its electricity generating capacity to support year-round electricity generation in Ontario.

The proposed NGS Expansion (the project) will be located north of the Lake Ontario shoreline in the Town of Greater Napanee, Ontario, west¹ of the existing NGS, within the existing Lennox Generating Station (LGS) boundaries. No expansion beyond the current NGS and LGS properties will be required. The project will include adding a simple cycle combustion turbine generator unit with a nameplate capacity of 430 megawatts (MW) and gross output capacity of approximately 420 MW (at reference conditions with an evaporative cooling system in service) and systems to support the new facility.

After more than a decade of strong supply, Ontario is entering a period of emerging electricity system needs, driven by increasing demand, the refurbishment of existing generating assets, as well as expiring contracts for other electricity-producing facilities. To prepare for future electricity demands and support a reliable grid for Ontarians, the Independent Electricity System Operator (IESO) conducted procurement processes to secure new electricity resources, including new natural gas facilities, which could be in service by 2027–2028. Atura Power is responding to the need for additional electricity resources by proposing the project. The project was awarded an IESO contract through the Long-Term Request for Proposals procurement process and is critical to meeting the province's need for the reliable and cost-effective operation of Ontario's electricity system during the transition to a net-zero economy.

The project will be dispatched by the IESO based on the electricity market scheduling process or as required to relieve transmission constraints or to provide contingent capacity to address reliability needs on the grid. The project may not be needed during lower electricity demand periods and therefore may be dormant for days at a time.

The project is subject to the Ontario *Environmental Assessment Act* (the Act) and requires an environmental assessment (EA) to be undertaken in accordance with Ontario Regulation (O. Reg.) 50/24, as outlined in the Ontario Ministry of the Environment, Conservation, and Parks' *Guide to Environmental Assessment Requirements for Electricity Projects* (Ministry of the Environment, Conservation and Parks, 2024a) (the Guide). In accordance with the Guide, the project is subject to the Environmental Screening Process which requires answering a series of prescribed questions in the Guide (the screening criteria checklist) to identify the potential for environmental effects.

Atura Power voluntarily opted to undertake the process at the Environmental Review stage to facilitate a rigorous review of the potential environmental effects and better address potential concerns from Indigenous communities, the public, stakeholders, and other interested parties.

1. For ease of reading and to reflect local conventions, cardinal directions in project documentation refer to the project as located directly west of the NGS, although in reality it is located southwest of the project site as shown on figures.

Assessments and studies for the project Environmental Review were informed by the pre-defined screening criteria checklist that consider effects on:

- Surface and Ground Water
- Land
- Air and Noise
- Natural Environment
- Resources
- Socio-Economic
- Heritage and Culture
- Indigenous Peoples
- Other

Atura Power initiated engagement with potentially interested parties, including Indigenous communities, adjacent landowners, municipal staff, elected officials, and agencies in 2023. A variety of engagement methods were employed to provide opportunities to learn about the project and voice any potential concerns. All feedback received during project engagement has been considered in the preparation of this report.

The project site is located within lands that have been previously disturbed and within an industrialised setting. The potential environmental effects were therefore identified as being well understood and can be readily avoided or addressed through facility design considerations and the implementation of best management practises, mitigation measures, and monitoring plans. Key operation phase processes, including air and noise emissions, and stormwater and industrial sewage management, will be subject to future detailed permitting and approval requirements.

The Environmental Review concludes that upon implementation of mitigation measures, all potential negative effects as a result of the project are anticipated to be negligible.

The proposed project works optimises brownfield lands and as an expansion of an existing facility the project takes advantage of the proximity to existing transmission facilities, natural gas supply, and infrastructure, lessening the overall footprint that is required. Additionally, the energy output from the proposed project will support the IESO in addressing the need for more electricity resources to help fuel the province's energy transition to non-emitting resources and maintain grid reliability by operating on demand in times when intermittent energy sources (e.g., wind and solar) cannot meet the demand.

While the project will help to address the energy supply gap in Ontario, it will contribute to air and noise emissions and greenhouse gases produced by the electricity sector. However, the overall effects of air and noise are considered negligible after implementing mitigation measures and considered to be in accordance with applicable provincial standards. Additionally, as noted the proposed project is part of the solution to meet increased electricity demand that supports the broader decarbonisation of Ontario's economy.

A consideration of the overall advantages and disadvantages of the proposed project indicates that the project advantages outweigh the disadvantages.

Land Acknowledgement

Atura Power respectfully acknowledges that the land on which the Napanee Generating Station and any proposed future project(s) are in the traditional and treaty territory of the Mississauga Anishinaabeg. We believe that it is important to recognise the Mississauga Anishinaabeg for their care and teachings about the earth and our relations, and to honour those teachings through our interactions every day.

We also acknowledge the Chippewas of Georgina Island First Nation, the Chippewas of Mnjikaning (Rama) First Nation, and Beausoleil First Nation as signatories of the Williams Treaties, recognising the historical and ongoing connection to the lands within the traditional territories.

The Mohawks of the Bay of Quinte, whose treaty territory is in the neighbouring location of Tyendinaga, are recognised, along with the understanding that these lands have been home to many Indigenous peoples over the centuries, including the Huron-Wendat, Métis, and Haudenosaunee.

As a community, we have a shared responsibility for stewardship of the land on which we live and work.

Atura Power is committed to fostering positive and mutually beneficial relationships with Indigenous peoples and communities, in peace, respect, and friendship.

Table of Contents

Executive Summary	i
Land Acknowledgement.....	iii
1. Introduction.....	1
1.1 Project Overview	1
1.2 Purpose of the Project	1
1.3 Environmental Assessment Process	3
1.3.1 Environmental Assessment Requirements.....	3
1.3.2 Proponent Self-Evaluation	4
1.3.3 Environmental Review	5
1.4 Project Phases	6
1.5 Report Organisation	7
2. Project Description.....	8
2.1 Project Components	8
2.2 Site Layout.....	12
2.3 Project Phases	14
2.3.1 Construction.....	14
2.3.1.1 Construction Site Plan.....	15
2.3.1.2 Construction Methods and Timelines.....	16
2.3.2 Operation and Maintenance	17
2.3.2.1 Water Supply and Water Treatment	19
2.3.2.2 Wastewater Collection, Treatment and Discharge.....	19
2.3.2.3 Safety and Emergency Response.....	21
2.3.3 Decommissioning.....	22
3. Permits and Approvals	23
3.1 Ministry of the Environment, Conservation and Parks Approvals.....	23
3.1.1 Air and Noise	23
3.1.1.1 Local Air Quality Standards (Air).....	23
3.1.1.2 In-Stack Limits (Air).....	24
3.1.1.3 Noise	24
3.1.2 Industrial Sewage Works	25
3.1.3 Water Takings.....	25
3.2 Ministry of Transportation Approvals	25
3.3 Cataraqui Region Conservation Authority Permit.....	25
3.4 Town of Greater Napanee Approvals	25
3.4.1 Minor Variance.....	25
3.4.2 Site Plan Approval	26
3.4.3 Building Permits.....	26
3.5 Transport Canada Clearance	26
3.6 NAV Canada.....	26
4. Approach to Environmental Review	27
4.1 Assessment Boundaries.....	28

5.	Existing Conditions	29
5.1	Existing NGS Facility	29
5.2	Existing Environmental Conditions	29
5.2.1	Surface Water	29
5.2.2	Groundwater	31
5.2.3	Natural Environment	33
5.2.3.1	Terrestrial Environment	33
5.2.3.2	Aquatic Environment	35
5.2.4	Air	36
5.2.4.1	Climate and Meteorology	36
5.2.4.2	Existing Air Quality	38
5.2.5	Noise	43
5.2.5.1	Statistical Analysis	45
5.2.6	Land Use, Resources and Socio-Economic Environment	46
5.2.6.1	Municipal Plans and Policies	46
5.2.6.2	Provincial Plans and Policies	47
5.2.6.3	Contaminated Sites	48
5.2.6.4	Resources	49
5.2.6.5	Socio-Economic	49
5.2.6.6	Recreation	49
5.2.6.7	Roads	51
5.2.7	Heritage and Cultural Environment	51
5.2.7.1	Archaeology	51
5.2.7.2	Heritage and Culture	53
5.2.7.3	Built Heritage and Cultural Heritage Landscapes	53
6.	Environmental Screening	56
6.1	Review of Screening Criteria	56
6.2	Screening Checklist	56
6.2.1	Screening Results	63
6.3	Consideration of the Ministry of the Environment, Conservation and Parks Areas of Interest	63
7.	Environmental Effects Assessment, Mitigation Measures, Net Effects, and Commitments	71
7.1	Surface Water	71
7.1.1	Potential Construction Effects	71
7.1.2	Potential Operations and Maintenance Effects	71
7.1.3	Mitigation Measures	72
7.1.4	Net Effects	72
7.2	Groundwater	72
7.2.1	Potential Construction Effects	72
7.2.2	Potential Operations and Maintenance Effects	73
7.2.3	Mitigation Measures	73
7.2.4	Net Effects	73
7.3	Air Quality	73
7.3.1	Potential Construction Effects	73
7.3.2	Potential Operations and Maintenance Effects	73
7.3.2.1	Incremental Project Scenarios (Scenarios 1 to 4)	75
7.3.2.2	Cumulative Project Scenarios (Scenarios 5 to 8)	76
7.3.3	Mitigation Measures	77

7.3.3.1	Construction	77
7.3.3.2	Operations and Maintenance	77
7.3.4	Net Effects	78
7.4	Noise	78
7.4.1	Potential Construction Effects.....	78
7.4.2	Potential Operations and Maintenance Effects	79
7.4.3	Mitigation Measures.....	81
7.4.4	Net Effects	82
7.5	Natural Environment.....	82
7.5.1	Potential Construction Effects.....	82
7.5.2	Potential Operations and Maintenance Effects	83
7.5.3	Mitigation Measures.....	84
7.5.4	Net Effects	85
7.6	Socio-economic Conditions	85
7.6.1	Potential Construction Effects.....	85
7.6.2	Potential Operations and Maintenance Effects	85
7.6.3	Mitigation Measures.....	85
7.6.4	Net Effects	86
7.7	Archaeology.....	86
7.7.1	Potential Construction Effects.....	86
7.7.2	Potential Operations and Maintenance Effects	86
7.7.3	Mitigation Measures.....	86
7.7.4	Net Effects	86
7.8	Visual Effects.....	86
7.8.1	Potential Construction Effects.....	86
7.8.2	Potential Operations and Maintenance Effects	87
7.8.3	Mitigation Measures.....	87
7.8.4	Net Effects	87
7.9	Waste Management	87
7.9.1	Potential Construction Effects.....	87
7.9.2	Potential Operation and Maintenance Effects	87
7.9.3	Mitigation Measures.....	87
7.9.4	Net Effects	88
7.10	Consideration of Climate Change.....	88
7.10.1	Greenhouse Gas Assessment.....	88
7.10.2	Climate Change Resiliency.....	90
7.10.2.1	Effects of the Environment on the Project.....	90
7.11	Summary of Mitigation Measures and Net Effects	91
7.12	Commitments	94
8.	Engagement.....	96
8.1	Pre-Environmental Assessment Engagement.....	96
8.1.1	Independent Electricity System Operator Long-Term Request for Proposals Procurement Process	96
8.1.2	Pre-Engagement with the Town of Greater Napanee	97
8.2	Engagement Program for the Environmental Assessment.....	97
8.2.1	Requirements.....	97
8.2.2	Project Contact List.....	98
8.2.3	Communication Methods and Tools	99
8.2.4	Engagement Activities	99
8.2.4.1	Notification of Commencement and Invitation to a Public Meeting.....	99

8.3	Public Engagement	101
8.3.1	Public Meeting	101
8.3.2	Summary of Public Comments	101
8.4	Engagement with Municipal Staff and Elected Officials	103
8.4.1	Summary of Engagement with Town of Greater Napanee.....	103
8.5	Agency Engagement	105
8.6	Indigenous Community Engagement	107
8.6.1	Summary of Engagement with Indigenous Communities.....	107
8.6.1.1	Summary of Engagement with Alderville First Nation.....	107
8.6.1.2	Summary of Engagement with Beausoleil First Nation.....	109
8.6.1.3	Summary of Engagement with Chippewas of Georgina Island First Nation.....	109
8.6.1.4	Summary of Engagement with Chippewas of Rama First Nation.....	110
8.6.1.5	Summary of Engagement with Curve Lake First Nation.....	110
8.6.1.6	Summary of Engagement with Hiawatha First Nation	112
8.6.1.7	Summary of Engagement with Huron Wendat Nation	113
8.6.1.8	Summary of Engagement with Kawartha Nishnawbe.....	114
8.6.1.9	Summary of Engagement with Mississaugas of Scugog Island First Nation.....	114
8.6.1.10	Summary of Engagement with Mohawks of the Bay of Quinte First Nation.....	116
8.7	Draft Environmental Review Report	117
8.8	Notice of Completion	117
8.9	Elevation Requests.....	118
9.	Environmental Advantages and Disadvantages.....	119
9.1	Proposed Project Advantages	119
9.2	Proposed Project Disadvantages	119
9.3	Conclusion.....	119
10.	References	120

Figures

Figure 1-1:	Map of Napanee Generating Station Expansion Project	2
Figure 1-2:	Key Project Milestones	6
Figure 2-1:	Preliminary Site Layout Showing Primary Components	13
Figure 2-2:	Process Diagram for NGS Expansion	18
Figure 5-1:	Existing Watershed Extents and Drainage Ditches	30
Figure 5-2:	Environmental Site Assessment Sampling Locations.....	32
Figure 5-3:	Vegetation Communities within the Project Site	34
Figure 5-4:	Comparison of CALMET and Observed Kingston Wind Roses (2014-2018)	40
Figure 5-5:	Noise Sensitive Points of Reception.....	44
Figure 5-6:	Communities and Road Corridors Surrounding the Project Site	50
Figure 5-7:	Archaeological Assessment Study Area	52
Figure 5-8:	Cultural Heritage Resources.....	54
Figure 7-1:	Electricity Sector GHG Emissions, Historical and Forecast (IESO, 2022a).....	90

Tables

Table 1-1:	Environmental Review Requirements.....	5
Table 1-2:	Project Phases.....	6
Table 2-1:	Timing of Construction Activities.....	16
Table 2-2:	Effluent Monitoring Locations	21
Table 5-1:	Kingston Temperature Normals (1991-2020)	37
Table 5-2:	Kingston Precipitation Normals (1991-2020)	39
Table 5-3:	Kingston Wind Normals (1991-2020).....	39
Table 5-4:	Representative Baseline Concentrations Near the Project Site	41
Table 5-5:	Summary of Acoustic Existing Conditions	45
Table 5-6:	Required Zoning Setbacks	47
Table 6-1:	Consideration of MECP's Areas of Interest	64
Table 7-1:	Project Air Quality Criteria	75
Table 7-2:	Class 3 Minimum One-Hour Leq by Time of Day	79
Table 7-3:	Minimum One-Hour Background Sound Levels	80
Table 7-4:	Estimated Construction Noise Levels at Selected Receptors.....	83
Table 7-5:	Estimated Annual GHG Emissions	89
Table 7-6:	Summary of Mitigation Measures and Net Effects.....	92
Table 7-7:	Summary of Project Commitments	94
Table 8-1:	Pre-Environmental Assessment Engagement with the Town of Greater Napanee	97
Table 8-2:	Notice of Commencement Distribution	100
Table 8-3:	Summary of Public Comment Topics by Categories and Sub-Categories	102
Table 8-4:	Summary of Engagement with the Town of Greater Napanee	104
Table 8-5:	Summary of Correspondence with Agencies.....	106

Appendices

Appendix A – Site Plan Drawings

Appendix B – Water Balance Flow Diagrams

Appendix C – Records of Engagement

Technical Study Documents

- ◆ Air Quality and Greenhouse Gas Technical Report
- ◆ Cultural Heritage Impact Assessment
- ◆ Natural Heritage Existing Conditions and Impact Assessment Report
- ◆ Noise and Vibration Assessment Report
- ◆ Stage 1 & 2 Archaeological Assessment

Glossary of Terms

AAQC	Ambient Air Quality Criteria
The Act	Ontario <i>Environmental Assessment Act</i>
ADFN	Alderville First Nation
ANSI	Area of Natural and Scientific Interest
APO	Annual Planning Outlook
BaP	benzo(a)pyrene
BESS	Battery Energy Storage System
BSFN	Beausoleil First Nation
BTEX	Benzene, toluene, ethylbenzene, and xylenes
CAS	Chemical Abstracts Service
Cd	cadmium
CEMP	Construction Environmental Management Plan
CEMS	continuous emissions monitoring system
CGIFN	Chippewas of Georgina Island First Nation
CLFN	Curve Lake First Nation
CO	carbon monoxide
CO ₂	carbon dioxide
CO ₂ e	carbon dioxide equivalent
COPC	constituent of potential concern
CRCA	Cataraqui Region Conservation Authority
CRFN	Chippewas of Rama First Nation
CSA	Canadian Standards Association
CSPP	Cataraqui Source Protection Plan
CWA	Ontario <i>Clean Water Act</i>
°C	degrees Celsius
dBA	A-weighted decibels
DPH	dew point heater
EA	Environmental Assessment
EASR	Environmental Activity and Sector Registry
EBA	Event-Based Modelling Areas

ECA	Environmental Compliance Approval
ELC	Ecological Land Classification
EMP	Environmental Management Plan
EPA	Ontario <i>Environmental Protection Act</i>
ERR	Environmental Review Report
ESA	Ontario <i>Endangered Species Act</i>
ESC	erosion and sediment control
GCB	generator circuit breaker
GHG	Greenhouse gas
GJ/hr	Gigajoule(s) per hour
GSU	generator step-up
the Guide	<i>Guide to Environmental Assessment Requirements for Electricity Projects</i>
ha	hectare(s)
HFN	Hiawatha First Nation
HHV	higher heating value
HONI	Hydro One Networks Inc.
HVA	Highly Vulnerable Aquifer
HWN	Huron Wendat Nation
IDF	Intensity-Duration-Frequency
IESO	Independent Electricity System Operator
IPZ	Intake Protection Zone
km	kilometre(s)
km/h	kilometre(s) per hour
KN	Kawartha Nishnawbe
kPa	kilopascal(s)
kV	kilovolt(s)
kW	kilowatt(s)
L	litre(s)
L/hr	litre(s) per hour
L _{eq}	energy equivalent sound level
LGS	Lennox Generating Station
LAOP	County of Lennox & Addington Official Plan
LT1 RFP	Long-Term Request for Proposals
masl	metre(s) above sea level
mbgs	metre(s) below ground surface
MBQFN	Mississaugas of the Bay of Quinte First Nation
MCM	Ministry of Citizenship and Multiculturalism
MECP	Ministry of the Environment, Conservation and Parks
MNR	Ministry of Natural Resources
MSIFN	Mississaugas of Scugog Island First Nation
Mt	Megatonne(s)
MTO	Ministry of Transportation

MW	megawatt(s)
m	metre(s)
m ³	cubic metre(s)
m ³ /s	cubic metre(s) per second
m ³ /hr	cubic metre(s) per hour
NGS	Napanee Generating Station
NoC	Notice of Commencement
NOP	Town of Greater Napanee Official Plan
NOx	nitrogen oxide
OEB	Ontario Energy Board
OEM	original equipment manufacturer
OHA	<i>Ontario Heritage Act</i>
OHT	Ontario Heritage Trust
OPG	Ontario Power Generation
O. Reg.	Ontario Regulation
OWRA	<i>Ontario Water Resources Act</i>
OWS	oil/water separator
P2D	Pathways to Decarbonization report
PAH	polycyclic aromatic hydrocarbons
PCB	polychlorinated biphenyl(s)
PHC	petroleum hydrocarbon
POI	point of impingement
PM _{2.5}	particulate matter less than 2.5 microns in diameter
PM ₁₀	particulate matter less than 10 microns in diameter
PPS	Provincial Planning Statement
PSW	Provincially Significant Wetland
PTTW	Permit to Take Water
SCS	Soil Conservation Service
SET	static excitation transformer
SFC	static frequency convertor
SGRA	Significant Groundwater Recharge Area
SO ₂	sulphur dioxide
SPM	suspended particulate matter
SWM	Stormwater Management
SWMP	Stormwater Management Plan
TSS	Total Suspended Solids
TWh	terawatt-hour(s)
UAT	unit auxiliary transformer
VOC	Volatile Organic Compound
WHPA	Wellhead Protection Areas
WTFN	Williams Treaties First Nations

1. Introduction

1.1 Project Overview

Portlands Energy Centre L.P. (Atura Power), a subsidiary of Ontario Power Generation (OPG), is proposing to expand the existing natural gas fuelled Napanee Generating Station (NGS) to increase its electricity generating capacity to support year-round electricity generation in Ontario. The proposed NGS Expansion (the project) will include adding a simple cycle combustion turbine generator unit with a nameplate capacity of 430 megawatts (MW) and gross output capacity of approximately 420 MW (at reference conditions with an evaporative cooling system in service) and systems to support the new facility.

The project will be located north of the Lake Ontario shoreline in the Town of Greater Napanee, Ontario, west² of the existing NGS, within the existing Lennox Generating Station (LGS) boundaries, as shown in **Figure 1-1**. Access to the project site will be via an existing driveway to Highway 33 (Loyalist Parkway), located on the adjacent NGS property to the east. No expansion beyond the current NGS and LGS properties will be required.

1.2 Purpose of the Project

After more than a decade of strong supply, Ontario is entering a period of emerging electricity system needs, driven by increasing demand, the refurbishment of existing generating assets, as well as expiring contracts for other electricity-producing facilities. Therefore, according to the Annual Planning Outlook (APO) released by the Independent Electricity System Operator (IESO) in March 2024, a shortfall of 5,000 MW and 15 terawatt-hours (TWh) is anticipated over the 2030–2034 period (IESO, 2024b).

The IESO's 2022 (IESO, 2022a) and 2024 APO (IESO, 2024b), Pathways to Decarbonization (P2D) report (IESO, 2022b), and 2021–2024 Conservation and Demand Management-Mid-Term Review report (IESO, 2022c) all provide various details, assumptions, and outlooks on how Ontario's electricity system may evolve over the next two decades. The 2022 APO provided an outlook for Ontario in which, even with increased energy conservation, electricity demand will continue to grow and must be supported by developing new supply resources (IESO, 2022a). This message was reinforced in the P2D report, which highlights higher demand growth due to a shift in climate change policy and emphasises fuel-switching to encourage decarbonisation (IESO, 2022b). Additionally, the 2021–2024 Conservation and Demand Management-Mid-Term Review report highlights the role energy efficiency programming can play in reducing, but not eliminating, demand growth (IESO, 2022c). Since then, the 2024 APO has indicated that although some of the capacity shortfalls projected in the 2022 APO have been addressed, ongoing procurements of energy resources are essential for addressing the projected supply gap caused by provincial population growth, increasing demand such as the electrification of various economic sectors, and expiring contracts.

2. For ease of reading and to reflect local conventions, cardinal directions in project documentation refer to the project as located directly west of the NGS, although in reality it is located southwest of the project site as shown on figures.

Figure 1-1: Map of Napanee Generating Station Expansion Project



Natural gas, which plays an important role in maintaining Ontario's system reliability, has become even more important with the addition of intermittent wind and solar generation. The reliable operation of the electricity system depends on the continual balancing of supply and demand in real time. Natural gas generation plays a critical role in maintaining reliability through:

- Its availability to generate power during peak demand periods in both the summer and winter; and
- Its flexibility and ability to respond to ongoing changes in demand and availability of other supply sources.

While the need for new capacity is clear at the system-wide level, the IESO also identified several regions of the province with particularly pressing needs for new power supply. The proposed project, located within the Lennox–St. Lawrence Area, is well positioned to meet local demand and help to address the overall projected capacity shortfall.

To prepare for future electricity demands and support a reliable grid for Ontarians, IESO conducted procurement processes to secure new electricity resources, including new natural gas facilities, which could be in service by 2027–2028. The IESO's assessment of electricity demand and resources in the P2D concludes that, at a minimum, natural gas resources acquired through current procurements to date are required to support the grid to support a shifting focus to non-emitting resources (IESO, 2022b). Atura Power is responding to the need for additional electricity resources by proposing the project. The project was awarded an IESO contract through the Long-Term Request for Proposals (LT1 RFP) procurement process to increase Ontario's electricity generation, support grid reliability, and help advance Ontario's path to a net-zero future.

1.3 Environmental Assessment Process

1.3.1 Environmental Assessment Requirements

The project is subject to the Ontario *Environmental Assessment Act* (the Act) and requires an environmental assessment (EA) to be undertaken in accordance with Ontario Regulation (O. Reg.) 50/24, Part II.3 Projects – Designations and Exemptions, Sections 6 (3) and 9 (3).

Section 6 (3) states that,

"Each of the following changes constitutes a significant modification:

[Part] 5. With respect to a generation facility that uses biomass or natural gas as its primary power source, a change that would increase the name plate capacity of the facility by five megawatts or more" (Government of Ontario, 2024a).

Section 9 (3) states that,

"Subject to sections 11 and 12, establishing any of the following things is designated as a project to which Part II.3 of the Act applies:

[Part] 3. A generation facility that has a name plate capacity of greater than or equal to five megawatts and that uses biomass or natural gas as its primary power source" (Government of Ontario, 2024a).

The *Guide to Environmental Assessment Requirements for Electricity Projects* (Ministry of the Environment, Conservation and Parks, 2024a) (the Guide) as outlined by the Ontario Ministry of the Environment, Conservation, and Parks (MECP), describes the EA process for electricity projects set out in O. Reg. 50/24. The Guide classifies natural gas projects in Ontario into one of three categories based on generation capacity and anticipated environmental effects:

- **Category A:** Generates less than 5 MW of electricity and has minimal environmental effects. These projects do not require approval under the Act.
- **Category B:** Generates 5 MW of electricity or more and has potential environmental effects that can be mitigated. These projects require an Environmental Screening Process or applicable Class EA.
- **Category C:** Major projects with known environmental effects. These projects require a comprehensive EA.

The project will increase the nameplate capacity of the NGS by 430 MW. Since this is an increase greater than 5 MW, the project is classified as a Category B project and is subject to the Environmental Screening Process, a proponent-driven, self-assessment process overseen by MECP.

According to the Guide, there are two possible stages of review of Category B projects depending on the environmental effects of the project:

- a. Screening stage, and
- b. Environmental Review stage.

The difference between the two stages of review is the level of detail included in the assessment. The Screening stage involves answering a series of prescribed questions in the Guide (the screening criteria checklist) to identify the potential for environmental effects based on existing or readily available information. The Environmental Review stage involves more detailed studies and assessments to inform the application of the screening criteria checklist and is typically undertaken based on the potential environmental effects of a project and the proponent's ability to address potential concerns.

1.3.2 Proponent Self-Evaluation

As the Environmental Screening Process is a proponent-driven process, the proponent is responsible to determine which stage of the Environmental Screening Process is appropriate for the project, identify process timelines and address all requirements of the Environmental Screening Process.

Considering the potential level of interest in the project and following a preliminary screening of the project against the screening criteria checklist, Atura Power has voluntarily opted to undertake an Environmental Review for the project to facilitate a rigorous review of the potential environmental effects and better address potential concerns from Indigenous communities, the public, stakeholders, and other interested parties.

1.3.3 Environmental Review

The Environmental Review stage requires the proponent to complete the following steps (see Figure 2 of the Guide for more details). **Table 1-1** presents the Guide requirements and the sections of this Environmental Review Report (ERR) in which the requirements are met.

Table 1-1: Environmental Review Requirements

Guide Requirements	Environmental Review Report Sections
1. Publish a Notice of Commencement of an Environmental Review;	Section 8.2.4.1 – Notification of Commencement and Invitation to a Public Meeting
2. Prepare a project description;	Section 2 – Project Description
3. Apply screening criteria to identify potential negative environmental effects;	Section 6.2 – Screening Checklist
4. Consult with public, Indigenous communities and agencies to identify any issues or concerns;	Section 8 – Engagement
5. Identify and describe the potential environmental effects to be addressed in the Environmental Review;	Section 7 – Environmental Effects Assessment, Mitigation Measures, Net Effects, and Commitments
6. Determine additional studies and assessments of effects needed for engagement with public, agencies, and Indigenous communities;	Section 4 – Approach to Environmental Review
7. Conduct studies and assessments of effects, develop mitigation, and impact management strategies, and engage to address the issues and concerns;	Section 5 – Existing Conditions, and Section 7 – Environmental Effects Assessment, Mitigation Measures, Net Effects, and Commitments
8. Prepare an ERR;	Sections 1 to 10
9. Publish a Notice of Completion of ERR and commence a 30-day review period; and	Section 8.8 – Notice of Completion
10. Submit a Statement of Completion to MECP.	To be completed following the publication of the ERR.

During the Environmental Review potential environmental effects are assessed by conducting detailed studies and assessments and by engaging with stakeholders to identify issues and concerns.

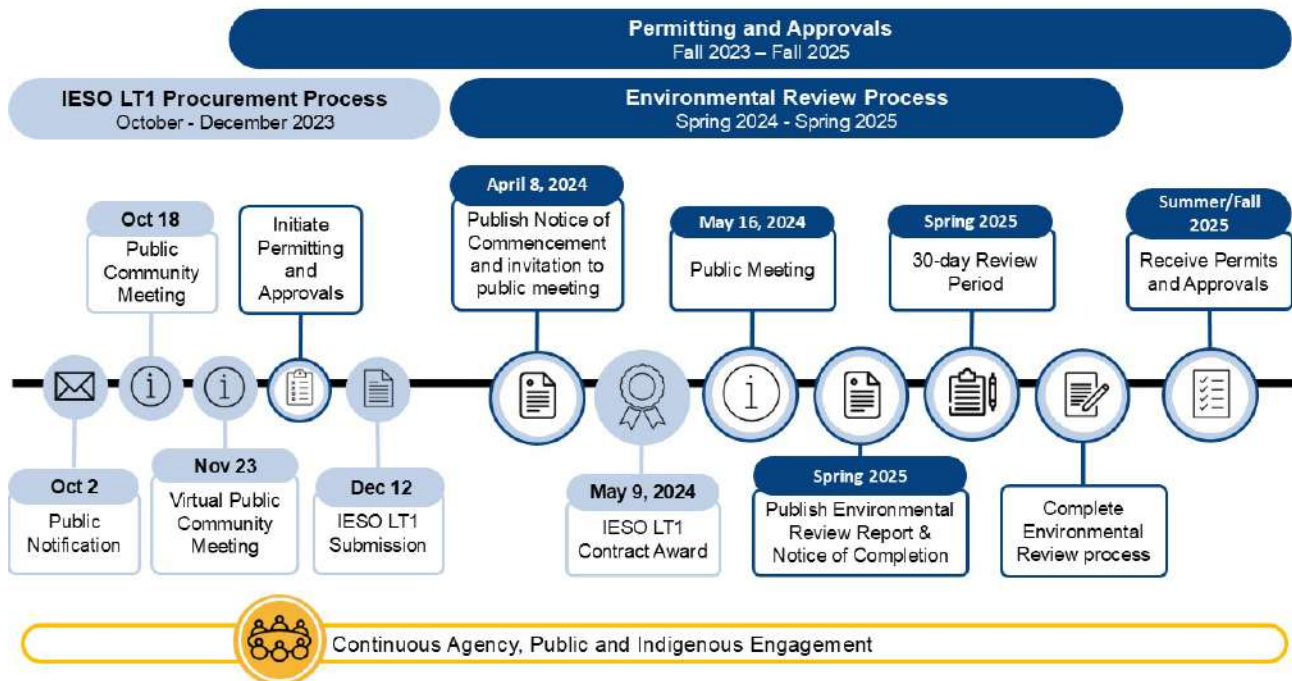
Assessments and studies for the ERR are informed by the pre-defined Screening Criteria provided in Appendix B of the Guide, to screen for the potential for environmental effects. The Screening Criteria checklist is composed of 39 criteria that consider effects on:

- Surface and Ground Water
- Land
- Air and Noise
- Natural Environment
- Resources
- Socio-Economic
- Heritage and Culture
- Indigenous Peoples
- Other

The screening of the project against these criteria is provided in **Section 6.2**.

Figure 1-2 provides a summary of the key project milestones undertaken to fulfill the requirements of the Environmental Review.

Figure 1-2: Key Project Milestones



1.4 Project Phases

The anticipated timelines for the start of construction, operations, and decommissioning phases are provided in **Table 1-2**.

Table 1-2: Project Phases

Activity	Anticipated Timeline
Construction Start	Q3 2025
Commissioning Start	Q4 2027
Operations Start	2028
Decommissioning Start	2040

1.5 Report Organisation

The ERR documents the Environmental Screening Process undertaken for the project and is organised as follows:

- **Section 1** – Introduction
- **Section 2** – Project Description
- **Section 3** – Permits and Approvals
- **Section 4** – Approach to Environmental Review
- **Section 5** – Existing Conditions
- **Section 6** – Environmental Screening
- **Section 7** – Environmental Effects Assessment, Mitigation Measures, Net Effects, and Commitments
- **Section 8** – Engagement
- **Section 9** – Environmental Advantages and Disadvantages
- **Section 10** – References

The ERR also includes the following appendices which provide supplemental detail:

- **Appendix A** – Site Plan Drawings
- **Appendix B** – Water Balance Flow Diagrams
- **Appendix C** – Records of Engagement

2. Project Description

2.1 Project Components

The project is a natural gas-fuelled simple cycle power generating unit at the existing NGS in Greater Napanee, Ont. The project includes one combustion turbine generator in simple cycle configuration with supporting equipment and systems. The project will be connected to the existing 500-kilovolt (kV) switchyard owned by Atura Power.

Key components of the project include, gas turbine generator, generator step-up (GSU) transformer and grid connections, natural gas supply and several ancillary components and equipment (**Figure 2-1**). The following describes the key project components:

Gas Turbine Generator System

- *Gas Turbine Generator:* One simple cycle combustion turbine generator unit (Mitsubishi Power M501JAC turbine) with a nameplate capacity of approximately 430 MW. The Mitsubishi Power JAC turbines are considered to provide industry-leading efficiency, resulting in a higher reduction in carbon dioxide (CO₂) emissions and improved fuel utilisation. The turbine will be in an integral enclosure with equipment design and operation for the project selected to prevent and/or minimise environmental effects.

The unit is rated nominally at 419.9 MW³ gross output (at reference conditions with the evaporative cooling system in service), using natural gas as the primary fuel. The combustion turbine has a nominal natural gas firing rate of 3,951 gigajoules per hour (GJ/hr) higher heating value at reference conditions with the evaporative cooling system in service and the electric generator is rated at 543 megavolt-amperes.

The project will be capable of generating a net electrical output of approximately 408.6 MW with the evaporative coolers in operation. The expected net output is derived from the gross output from the turbine (at reference conditions of 15 degrees Celsius (°C) ambient temperature, 60% relative humidity, and 100.3 kilopascal barometric pressure (kPa)) minus the auxiliary loads used by the project of approximately 11.2 MW.

- *Combustion turbine inlet air filtration system:* This system includes filtration media and supports, as well as a filter housing structure incorporating a pulsing compressed-air cleaning system and an inlet air evaporative cooling system (described below).
- *Evaporative Cooling System:* The evaporative cooling system is designed to cool the inlet air to the combustion turbine (can be operated in ambient conditions above 15°C). The system operates by evaporating water over a dispersion media system, reducing the effective inlet air temperature and increasing the turbine output.

3. Capacity rounded up to one decimal.

- *Inlet Heating System:* Warm air will be bled from the compression cycle of the combustion turbine to reduce ice-build up which could damage the compressor blades of the turbine. The warm air will be internal to the inlet air system where it will heat the cold ambient air entering the combustion turbine before combustion.
- *Glycol Fin/Fan Heat Exchanger Air Cooler:* This component is used to cool and maintain temperatures of all operating equipment other than the turbine rotor.
- *Combined Fin/Fan Rotor Air Cooler / Fuel Gas Heater:* The air cooler / fuel gas heater will cool compressor air used for internal cooling of the turbine rotor as well as provide heating for the fuel gas before entering the combustion turbine.
- *Combustion Turbine Auxiliary Enclosure:* This enclosure will house a lube oil reservoir, lube oil pumps, filters, mist separators and other miscellaneous lube oil piping, valves, and instruments. The enclosure will also include containment sized to contain a minimum of 110% of the lube oil volume.
- *Horizontal Turbine Exhaust Transition Housing:* The turbine exhaust transition housing connects and channels the flow of hot combustion exhaust from the combustion turbine to the vertical exhaust stack.
- *Vertical Rolled Steel Exhaust Stack and Silencer:* The stack extends 47.4 metres (m) from grade and has an inner diameter of 7.47 m and has an exhaust gas flow rate of 2,109 cubic metres per second (m^3/s) and exhaust gas temperature of 616°C during normal operations at 15°C ambient temperature. The stack will include lighting for personnel access which is normally kept off except for safety or maintenance activities.
- *Continuous Emissions Monitoring System (CEMS):* The CEMS is located next to the exhaust stack, equipped with a probe installed in the stack to measure emissions characteristics, including oxygen, nitrogen oxides (NO_x), and carbon monoxide (CO).
- *Two Electric Natural-Gas Compressors:* The two compressors will increase the natural gas pressure from the incoming natural gas feed to 5,861 kPa gauge.
- *One Natural Gas-Fuelled Dew Point Heater (DPH):* The DPH is rated at 16.9 GJ/hr (HHV) firing 438 cubic metres per hour (m^3/hr) of natural gas and exhausting at a maximum exhaust flow rate of $2.56 \text{ m}^3/\text{s}$ and temperature of 177°C through a stack inner diameter of 0.86 m and extending 7.5 m above grade. The DPH increases the temperature of the natural gas fuel supply to the combustion turbine above the dewpoint which prevents liquid formation in the fuel supply.
- *One Emergency Standby Diesel Generator:* The standby diesel generated is rated at 1,250 kilowatts (kW) firing ultra-low sulphur diesel fuel at a maximum rate of 392.3 litres per hour (L/hr) and exhausting through two exhaust stacks at a maximum exhaust flow rate of $2.36 \text{ m}^3/\text{s}$ each and exit temperature of 430°C through stack inner diameters of 0.24 m and extending 4.3 m above grade. The standby diesel generator will supply power for the required safe and controlled shut down of all project equipment in the event of an outage of the 500 kV grid supply.

Power Transformers and Electricity Grid Connection

- Four oil-filled transformers which include: one GSU transformer that increases the output voltage to 500 kV, one unit auxiliary transformer (UAT) to supply the project equipment, one static excitation transformer (SET), and one static frequency converter (SFC) transformer. The combustion turbine generator is connected to the GSU transformer via a 23.5 kV isolated phase bus duct and a generator circuit breaker (GCB). All four transformers will include spill containment infrastructure.
- One new 500 kV connection into the existing switchyard to connect to the Ontario transmission grid. This will include overhead “H-frame” transmission towers which will elevate the electricity conductors to the required height before crossing the internal roadway immediately to the north of the project. From there, the overhead line will transition into a gas-insulated transmission line into the Atura Power switchyard connected with 500 kV gas-insulated switchgear to the balance of the existing switchyard.
- New bus-bar, electrical conductors, and other high-voltage electrical gear including switchgear, breakers, motorised and manual switches, grounding and lightning protection cables, and high-voltage protection systems including measurement devices, metering, and communication relays. While the planned point of interconnection is shown on **Figure 2-1** for illustration purposes, these and other electrical component installations and works may be required within the switchyard fence line as defined during detailed design to meet electrical code, safety, and best practice requirements.

Natural Gas Supply

- *Natural Gas:* The existing Enbridge pipeline connected to an expanded Enbridge metering station located on the existing NGS site will be used to supply natural gas for the project. Enbridge will be responsible for the construction and associated permitting and approvals for the expanded natural gas meter station.
- *Natural Gas Distribution Piping:* Natural gas distribution within the project site will be installed from the connection to the Enbridge meter station to the gas compressors and the combustion turbine as shown on **Figure 1-1**.

Ancillary Components

- *Water Treatment Chemical Storage:* All the chemicals required for the project are currently used by the existing NGS. Since the chemicals will be used in larger quantities, there may be more frequent deliveries, but no additional water treatment chemical storage is required.
- *Fire Suppression Chemical Storage for CO₂:* This ancillary component includes an eight-tonne low pressure tank for the combustion turbine generator fire suppression system. Carbon dioxide bottles are also used for generator purge and fill which is required for maintenance operations.

- *Diesel Fuel Storage:* Diesel Fuel will be stored in one ultra-low sulphur diesel fuel storage tank which will supply fuel for the emergency standby diesel generator located on the emergency standby diesel generator skid. The emergency standby diesel generator tank has a capacity of 7,950 Litres (L). The tank will be double walled with 110% containment, leak detection, and venting to atmosphere.
- *Demineralised Water System:* The system for the existing NGS will be expanded to accommodate additional flows required by the project. The demineralised water system will consist of the existing demineralised water storage tank and additional cooling water head tank, combustion turbine compressor blade washing tank, reverse osmosis skid, ultrafiltration skid, and associated pipelines and pumps. This expanded system is not expected to substantially affect the wastewater discharge quantity or quality as its purpose is to increase the capacity of the NGS demineralised system within its existing operating parameters.
- *Stormwater Management:* Expansion of the existing NGS underground stormwater system will collect and convey runoff south to the enhanced grassed swale as outlined in the NGS Stormwater Management Plan (SWMP). The SWMP has been reviewed and expanded to include the project, including a tie-in with the existing NGS SWMP. The SWMP is subject to MECP approval through an amendment of the existing NGS Environmental Compliance Approval (ECA) (Industrial Sewage Works). Stormwater management design objectives and criteria for the project are based on general and site-specific regulatory requirements, good engineering practices, and align with the criteria established in the existing NGS SWMP (see **Section 2.3.2.2**).
- *Oil/Water Separator:* A new oil/water separator (OWS) to collect and remove and retain traces of lube oil and oil contaminants which may inadvertently leak into the wastewater drains system. A new pipeline will carry treated water from the OWS to existing cooling tower basin. The wastewater drain system collects effluent from the evaporative cooling blowdown, floor drains, and periodically from the transformer containments. The design of the OWS system is subject to MECP approval through an amendment of the existing NGS ECA (Industrial Sewage Works) (see **Section 2.3.2.2**).
- *Underground Combustion Turbine Water Wash Drains Tank:* As part of the wastewater management system, this tank collects effluent from periodic offline turbine compressor blade washes. Effluent in the tank would be hauled offsite by a licenced hauler.
- *Evaporative Cooler Makeup System:* New equipment will be installed that will tie into the existing evaporative cooler supply line from the existing NGS pumps. The project evaporative cooler makeup system will include additional pipelines and a pump that will connect to the existing NGS evaporative cooler makeup water tank.
- *Control System:* Within the existing NGS Control Room, where operations staff monitor and operate the equipment, a new distributed control system for the project will be added, along with local control panels throughout the project site. The turbine control system will be furnished by the combustion turbine generator original equipment manufacturer (OEM) and will be integrated into the new distributed control system.

- *Site Servicing:* The project will make use of and/or expand existing NGS servicing infrastructure including water supply, water treatment, wastewater, and fire water systems (including fire water loop). Distribution-level power servicing infrastructure will also be installed including electrical lines and dry transformers.
- *Other Ancillary Components and Equipment:* The project will also include:
 - Use of the existing NGS administrative building, warehouse, and maintenance shop;
 - Air compressor and compressed air supply tanks;
 - Natural gas filtration system;
 - Sound walls;
 - Retaining wall;
 - Landscaping and berms; and
 - Internal roadways.

2.2 Site Layout

Figure 2-1 depicts the preliminary site layout and key components of the project. The final site layout is subject to project permitting and detailed design.

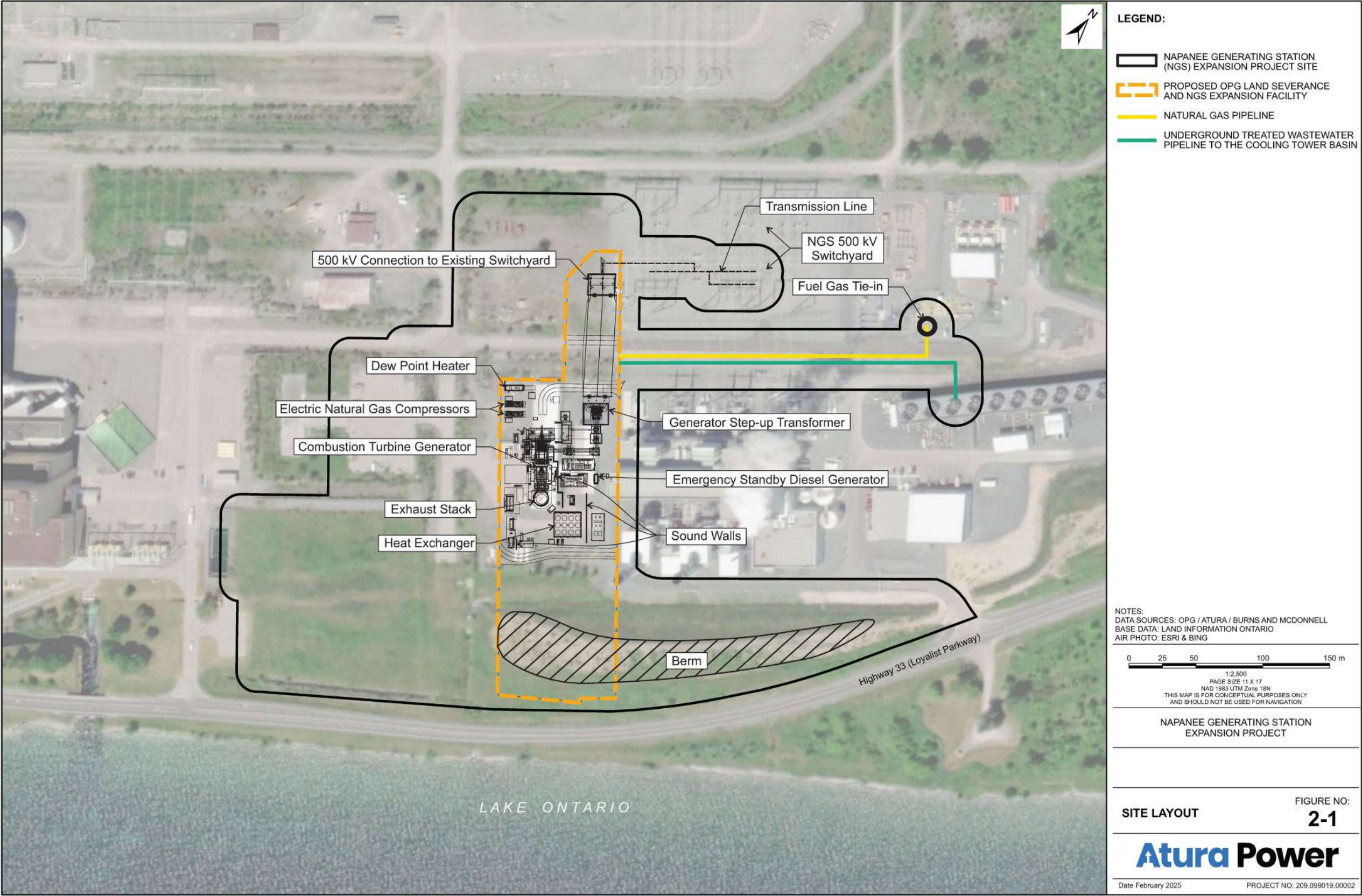
The combustion turbine generator will be located just west of the existing NGS, on land that is currently part of the fully developed OPG LGS site which will be severed and transferred to Atura Power (**Figure 2-1**). The project will add 1.6 hectares (ha) to the existing NGS property for a total fenced area of approximately 10 ha.

The combustion turbine generator will generally align north to south with the air-inlet facing north and the stack sited to the south. This will allow the isolated phase bus duct to come off the east side of the generator to the GSU transformer and connect directly to the new breaker and switches for tie-in to the existing 500 kV switchyard. From the GSU transformer at 500 kV, overhead transmission lines will carry power to the existing switchyard. The project will be connected utilising an H-frame structure to cross the existing east-west road between the area to west of the switchyard and transitioning to a gas-insulated transmission line into the Atura Power switchyard connected with 500 kV gas insulated switchgear to the balance of the existing switchyard.

Electrical equipment will be predominantly located to the north-east to facilitate efficient connection to the switchyard and remaining equipment is placed around the combustion turbine generator which is shown in more detail on the site layout shown on **Figure 2-1**.

The combustion turbine will be enclosed. Supporting equipment will be placed in various prefabricated weatherproof equipment enclosures around the site provided by the equipment manufacturers. Aboveground utility racks will provide support to pipe and electrical distribution runs between equipment that are not contained in underground piping and conduit / electrical raceway.

Figure 2-1: Preliminary Site Layout Showing Primary Components



Sound walls have been incorporated into the project design layout to meet sound requirements at sensitive receptor locations. The sound walls will be located on the east side of the combustion turbine generator unit. Additional noise mitigation includes inlet duct and stack silencers, and where available, various low noise options will be considered for incorporation into equipment specification as practicable.

The project area will be served by a new fire water loop extension from the existing NGS fire water system. The combustion turbine will have an OEM CO₂ fire protection package, and all enclosures that will normally be occupied during operations and maintenance include fire detection and annunciation.

An asphalt paved loop road will surround the project to provide permanent operations and maintenance access. The existing NGS entrance to the east will provide permanent access to the project. The new 500 kV breaker and switches and bus work to tie into the existing switchyard will be located to the north.

2.3 Project Phases

2.3.1 Construction

All construction activities will be conducted under a Construction Environmental Management Plan (CEMP). The CEMP will include procedures to manage erosion and sediment, dust, noise, waste, spills, wildlife encounters, archaeological resources, and other environmental concerns. The CEMP will also include a communications protocol to receive input from nearby property owners regarding potential adjustments to construction mitigation measures. Mitigation and management measures for the project outlined in the ERR and dictated by future permits and approvals will be incorporated into the CEMP for the construction phase of the project.

Construction activities begin with work to prepare the project site. Site preparation includes, but is not limited to:

- Mobilising and placing trailers used to support construction activities;
- Delivering equipment to site;
- Installing temporary erosion and sediment control measures prior to major earthwork activities (**Appendix A**). Final measures will be determined based on permitting requirements;
- Installing temporary stormwater management systems;
- Clearing vegetation and stripping of topsoil for the craft parking and the adjacent laydown area as well as a portion of the existing berm south of the NGS;
- Grading – approximately 10,000 cubic metres (m³) of material will be excavated. Surplus earthen materials will be used to augment the existing screening berm by up to 2 m in additional height located between the project and Highway 33 and any balance reused as general fill or removed in accordance with O. Reg. 406/19;

- Preparing internal site roadways for construction;
- Preparing construction laydown areas; and
- Installing temporary and permanent fencing to secure the project site.

Following site preparation, construction will commence. The construction activities for the project generally include:

- Transitioning to permanent stormwater management systems;
- Installing foundations and underground utilities;
- Constructing enclosures and installing equipment and sound walls;
- Expanding the switchyard;
- Constructing permanent site roads;
- Connecting the existing NGS to the project including the water and wastewater discharge systems, project OWS effluent line to the existing cooling tower basin, and evaporative cooler makeup system;
- Landscaping and installation of berms; and
- Two areas that will be used to stockpile surplus soil – these are shown on **Figure 1-1** as the temporary berm and soils management area.

After all major construction activities have been completed, final grade adjustments, finishing pavement of the permanent roads, and restoration of the areas disturbed by the construction activities will be completed in keeping with the surfacing plan and landscaping plan.

The surfacing plan for the project site details the final surfacing of the project site and surrounding areas. The project site is surfaced mostly with aggregate and concrete foundations. The construction laydown and craft parking areas will be restored to their pre-construction conditions. A landscaping plan will be developed and will include planting vegetation to the augmented areas of the southern berm. Fill that was stockpiled on-site during site preparation will be used to complete the landscaping, which will greatly reduce or remove the need to dispose of fill off site. Erosion and sediment controls servicing those areas will remain in place until vegetation is thoroughly established.

2.3.1.1 Construction Site Plan

The construction site plan is provided in **Appendix A**, identifying the preliminary layout, extent of the construction footprint and anticipated activities for the purposes of the ERR. Final configurations will be subject to permitting and detailed construction planning. The project construction site plan was developed to allow for egress on to the project site for all construction personnel. The construction entrance is proposed to utilise the existing NGS entrance off Highway 33, splitting off into the construction access road and proceeding east-west to the project site. Personnel walk paths have been laid out considering vehicular traffic and access to the project site. The construction site plan allows for foot access to the project footprint with minimal road crossings.

A craft break trailer will be located within proximity to the work area to allow for efficient break times without workers needing to walk long distances. Portable lavatories will be located within the craft break trailer area instead of within the construction footprint.

The construction laydown areas will include temporary power connections to allow the construction crew to utilise this area for preservation activities as well as pre-fabrication activities off the construction footprint.

The craft break trailer area, craft parking lot and laydown areas will be fenced.

2.3.1.2 Construction Methods and Timelines

Construction is expected to begin in Q3 2025 and continue until Q4 2027 (26 months), pending the receipt of environmental approvals. Work will be completed using conventional construction equipment, including the following:

- Excavators;
- Bulldozers;
- Loaders;
- Graders;
- Cranes; and
- Pavers.

Table 2-1 provides the expected timing of construction activities. Construction activities are expected to primarily occur during the daytime. There are some specific construction activities that are completed at night or on a continuous basis, such as setting up large equipment or concrete pouring of major foundations. These activities will comply with the relevant municipal bylaw restrictions (as appropriate). Approximately 250 construction workers are anticipated to be present on the project site during peak construction.

Table 2-1: Timing of Construction Activities

Construction Activity	Timing of Activity
Site Preparation	Months 1 – 3
Underground Construction (foundations and utilities)	Months 2 – 8
Aboveground Construction	Months 8 – 21
Commissioning	Months 19 – 26

The existing water intake infrastructure of the LGS and the NGS will be able to accommodate the water needs of construction activities. Water is drawn from Lake Ontario into the LGS forebay where the equipment is located to convey water to the existing NGS and then to the project for dust suppression, concrete mixing, wheel and truck washing, and commissioning activities.

Prior to the project supplying power to the provincial electricity grid, system commissioning and testing of all mechanical and electrical equipment will be completed according to manufacturer instructions and regulatory requirements. The commissioning period will confirm operational processes and procedures function as designed and facilitate the transition of the project from construction to operation.

2.3.2 Operation and Maintenance

The project is expected to provide reliable capacity to Ontario's grid throughout the year and is designed to be dispatched independently from the existing NGS.

The IESO contract requires the project to generate and deliver energy to the high-voltage IESO controlled grid. The project is dispatched by the IESO based on the electricity market scheduling process or as required to relieve transmission constraints or to provide contingent capacity to address reliability needs on the grid. The project may not be needed during lower electricity demand periods and therefore may be dormant for days at a time.

Based on similar simple cycle operations in Ontario, the project is expected to operate approximately 3% of the time on an annual basis, for an estimated 270 hours at full load per year based on 60 starts per year at an average of 4 ½ hours per start. However, for the purposes of the ERR, a conservative operation scenario of 606 hours per year was considered based on the expected annual operations plus an additional two weeks of non-stop operation to support the Ontario electricity grid.

The project has the ability to increase electricity production incrementally by using evaporative coolers which are anticipated to boost output capability at a similar or slightly elevated thermal efficiency when compared to having the evaporative coolers offline.

Figure 2-2 provides a diagram showing the operational process of the project.

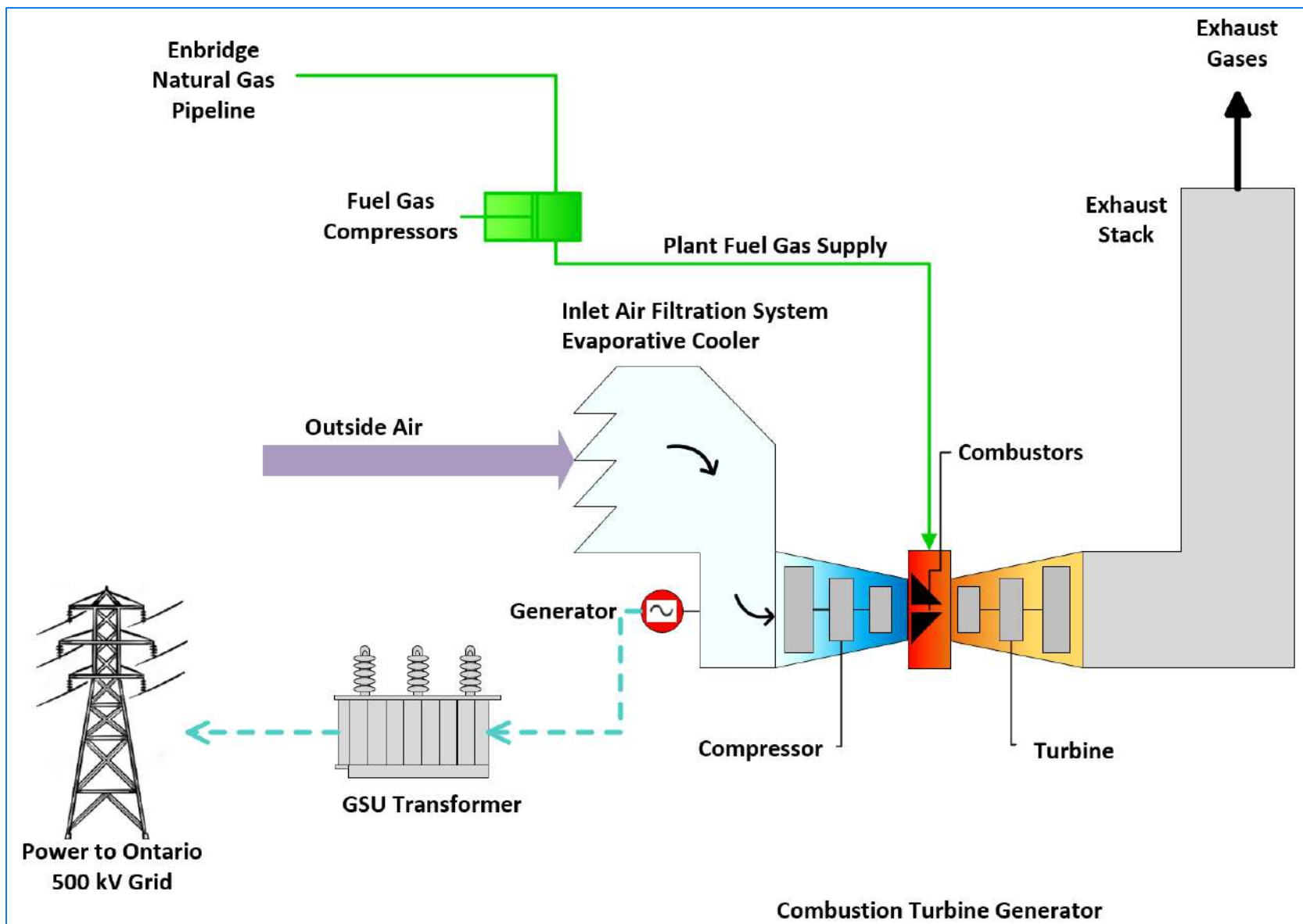
The combustion turbine generator will operate by compressing filtered ambient air within the compressor which is then supplied to the combustion section where natural gas fuel and air are mixed and ignited. The high temperature gases from the combustion process expand as they pass through the turbine blades, rotating the shaft and the generator which creates electricity.

Fuel gas will be supplied to the new combustion turbine via a gas filtration system. It is anticipated that the fuel pressure supplied to the project will at times be too low to operate the turbine. When this occurs, the natural gas will be compressed via electrically driven natural gas compressors. The natural gas-fuelled DPH will heat the incoming natural gas supply to a temperature above the condensation point.

Exhaust gases which are cooler and at lower pressure than the combustion section exit the turbine section and flow into the transition to the vertical exhaust stack. The exhaust stack returns exhaust gases to the ambient environment.

Minimal additional staffing (less than five personnel) will be added on-site to support operation of the project. Maintenance activities will include routine maintenance of mechanical and electrical systems. Major maintenance will be performed on the combustion turbine generator at specified intervals to inspect and replace any worn or broken parts. It is anticipated that the project will begin operations in 2028 and operate for a period of 12 years according to the IESO contract.

Figure 2-2: Process Diagram for NGS Expansion



The existing NGS Environmental Management Plan (EMP) for operations will be updated to include mitigation and management measures outlined in this ERR and as dictated by future permits and approvals for the project. Operations phase plans and procedures include various aspects of environmental management and monitoring including but not limited to emergency management including spill prevention and response, and monitoring of emissions including air quality and effluent, as well as communications protocols and reporting requirements.

2.3.2.1 Water Supply and Water Treatment

Water will be supplied to the project under OPG's existing Permit to Take Water (PTTW) Number P-300-1928114015 for the LGS which includes an allocation for the NGS. Water will be used within the process for evaporative cooling in warm to hot weather conditions when greater power output is required, as well as for online and offline compressor water washes. This water will come from existing tanks on the site. Ancillary water will be used for intermittent miscellaneous operations (e.g., filling, cleaning, washing, and maintenance) and will also be taken from the existing tanks and supplied to service water connections throughout the project facility. Fire water for the project will be taken from the existing fire water system at NGS through a new fire water loop extension. Preliminary detailed water balance flow diagrams for the purposes of the ERR and subject to permitting are provided in **Appendix B** (changes to the original NGS water balance are shown in red). The Water Balance Flow Diagrams indicate that the existing PTTW can accommodate the project.

2.3.2.2 Wastewater Collection, Treatment and Discharge

The sections below describe wastewater collection, treatment, and discharge in relation to industrial processes, domestic use, stormwater, and other uses. The Water Balance Flow Diagrams provided in **Appendix B** indicate that the quality of the effluent will not materially change when discharged due to the project. **Table 2-2** identifies effluent monitoring locations and methods that will be used to monitor effluent from the project.

Industrial Sewage

Detailed plans for industrial sewage discharge are subject to MECP approval as part of the amendment of the current ECA (Industrial Sewage Works) for the project (**Section 3.1.2**). In general, the project will use the same system as the NGS facility which involves all drains with the potential to contain hydrocarbon petroleum products (e.g., compressed air equipment, combustion turbine generator, exhaust stack, transformer containment) being directed through underground piping to a new OWS. Treated water leaving the OWS will discharge to the existing cooling tower basin.

A new demineralised water train will provide additional evaporative cooling makeup water for the project from the existing evaporative cooling makeup tank. The effluent from that new train (i.e., from reverse osmosis and ultrafiltration processes) will flow via the existing NGS wastewater collection basin to the existing cooling tower basin.

Domestic Sewage

Domestic waste streams resulting from floor drains located at the emergency eyewash/showers will flow via drainage piping to the OWS and discharge to the existing cooling tower basin.

Stormwater Management

A detailed SWMP was prepared in accordance with the requirements of the Ministry of the Environment (2003) publication entitled, “Stormwater Management Planning and Design Manual”. As part of the ECA requirements, the SWMP has been reviewed and expanded to include the SWMP for the project, including a tie-in to the existing NGS SWMP. The design objectives for the revised SWMP are based on review of the existing ECA as well as regulatory requirements from the Cataraqui Region Conservation Authority (CRCA), MECP, and Ministry of Transportation (MTO). The design criteria for the SWMP are as follows and align with the existing NGS SWMP:

- *Design Storm:* The underground stormwater system (minor system) will be sized for the 25-yr, 24-hr storm event. The overall site drainage system (major system) will be sized for the 100-yr, 24-hr storm event. Storm event data was collected from the MTO Intensity-Duration-Frequency (IDF) Curve database.
- *Calculation Methodology:* Soil Conservation Service (SCS) Unit Hydrograph utilising HydroCAD® 10.20-5a (©2023) Stormwater Modeling software.
- *Rainfall Distribution:* 24-hour SCS Type II.
- *Quantity Control:* quantity control measures are not required due to the site’s proximity to Lake Ontario; however, the design consideration maintains that runoff flows are limited to a minor increase which will not affect the existing stormwater conveyance system.
- *Quality Control:* quality control measures must provide an enhanced level of protection to reach a long-term average removal of at least 80% total suspended solids (TSS) from the stormwater runoff. The NGS outfall lies within the Cataraqui Source Protection Area which requires the enhanced level of protection.

Stormwater modelling was performed for the existing and future conditions of the project.

The SWMP looked at two main design criteria: stormwater quality and quantity. To minimise or avoid negative effects to stormwater quality, the project will redirect approximately 1.4 ha of previously untreated stormwater runoff through an Imbrium Systems Jellyfish® Filter capable of 89% TSS removal, which exceeds the 80% removal required by the MECP. The performance of the filter will be evaluated through post-construction monitoring (see **Section 7.2**).

Stormwater modelling of existing and future conditions predict that the project will result in a minor increase of peak discharge to existing stormwater conveyance infrastructure; however, this increase does not exceed the capacity of the downstream infrastructure and does not result in an increase of water levels. The future conditions model was used to size the underground stormwater system to convey the 25-year and 100-year storm events (Burns & McDonnell, 2025a).

This plan has been submitted as part of the ECA (Industrial Sewage Works) amendment application.

Other Wastewater Flows

The combustion turbine is washed periodically to remove compressor fouling from inlet air particles. Turbine wash water, drains, and any potential oil leakage is collected in the combustion turbine wash water drains tank and removed for disposal by a licensed waste management service provider.

Table 2-2: Effluent Monitoring Locations

Discharge Point	Discharge Method	Fluid Discharge	Monitoring
Transformer containment sumps	Gravity drains to oil water separator, with normally closed drain valve	Drainage from stormwater collected in the transformer containment	Visual monitoring of liquid level in containment and for oil sheen
Stormwater discharge	Jellyfish Filter	Stormwater samples at the outlet	Grab samples for TSS and oil/grease
Stormwater discharge	Grassed swale	Samples to be collected from before the stormwater discharge swale	Grab samples for TSS and oil/grease
Combustion Turbine Wash Water Drains Tank	Pumped out by waste management provider	Water, limited oil, and water wash capture. Periodic flows removed via vacuum truck	Manual (offline) sampling port if required by waste management service provider

2.3.2.3 Safety and Emergency Response

The project will be operated and maintained with similar care and consideration as the existing NGS and will facilitate the protection, safety and well-being of the operations staff, neighbours, public, surrounding properties, and the environment.

There is no natural gas storage on-site except for the volume that might exist within the piping, compression, and gas treatment equipment. Comprehensive gas detection and isolation systems will be used.

Various types of lubricants are used for equipment such as in the combustion turbine generator, fuel gas compressors, electric pumps, and other smaller equipment. Existing lubricant inventory and storage will be used. Operating staff are trained in spill response and have the necessary equipment to contain and cleanup spills that may occur.

The project emergency response will be integrated into the existing facility's Emergency Response Plan. The Emergency Response Plan covers:

- Preparedness Plans and Responses;
- Operational Electrical Emergency (e.g., black out restoration plan);
- Fire/ Explosion Plans;
- On-Site emergency response equipment;
- Gas leaks;
- Spill Prevention & Contingency Plans; and
- Other Emergency Incidents (e.g., medical, intruders, weather).

The Emergency Response Plan was developed in coordination with local emergency response agencies, including police and fire department. In the unlikely event that an incident or spill occurs, the site Emergency Response Plan will be put into action using trained staff. The MECP Spills Action Centre will also be informed of reportable spills.

The project is equipped with on-site private fire protection (detection and suppression) and gas detection systems for immediate response to any fire or natural gas, or hydrogen leakage condition. The combustion turbine generator will be equipped with the OEM designed fire detection and suppression systems. The fire system will have interfaces to allow continued fire suppression by the responding fire department using the expanded fire loop, fire hydrants, and the firewater reserve within the combined firewater/service water tank.

2.3.3 Decommissioning

The project is anticipated to be decommissioned starting in 2040. Atura Power is committed to environmental protection through all project phases, including decommissioning. A decommissioning plan will be developed in accordance with applicable environmental protection standards at the time of decommissioning to minimise and mitigate potential effects.

3. Permits and Approvals

This section describes the permits and approvals anticipated to be required for the project by provincial (MECP, MTO, CRCA), municipal (Town of Greater Napanee), and federal (Transport Canada) jurisdiction.

3.1 Ministry of the Environment, Conservation and Parks Approvals

3.1.1 Air and Noise

The project will require an amendment to the existing NGS ECA Number A-500-1716089792 version 1.0 (issued June 9, 2022) to include the additional air and noise emission sources associated with the project. The ECA (Air and Noise) amendment will be supported by detailed air and noise technical assessments from all on-site sources included in the application and is subject to MECP review and approval.

3.1.1.1 Local Air Quality Standards (Air)

Ontario Regulation 419/05: Air Pollution - Local Air Quality (O. Reg. 419/05) under the Ontario *Environmental Protection Act* (EPA) works within the provincial air management framework by regulating air contaminants released into the air by various sources, including natural gas fuelled generating stations. MECP administers the EPA and is the key regulatory authority for establishing applicable emission limits, reviewing applications for approvals under the EPA, and for compliance. The project is subject to MECP approval for operational air emissions and will comply with O. Reg. 419/05. O. Reg. 419/05 includes three approaches for demonstrating compliance:

- Meeting a provincial air standard; or
- Requesting and meeting a site-specific standard; or
- Registering and meeting the requirements under a sector-based technical standard (not currently available for the electricity sector).

Atura Power is consulting with the MECP to identify the applicable compliance approach and associated approval(s) for the project.

The provincial air standards compliance approach involves an assessment of maximum concentration levels for various contaminants at a point of impingement (POI) (i.e., a point where airborne emissions from a facility contact the ground or a sensitive receptor). The values are then compared to MECP's published list of air standards, guideline values, and screening levels (Ministry of the Environment, Conservation and Parks, 2021a). The MECP approvals process requires that an emissions summary and dispersion modelling report be completed and submitted with the ECA amendment application package for technical review. The documents "Guideline A-10: Procedure for Preparing an Emission Summary and Dispersion Modelling Report, Version 4.0" (Ministry of the Environment, Conservation and Parks, 2016a) and "Guideline A-11: Air Dispersion Modelling Guideline for Ontario, Version 3.0" (Ministry of the Environment, Conservation and Parks, 2016b), provide guidance for the air standards compliance approach with O. Reg. 419/05.

Through the process, preliminary emissions modelling has predicted that to demonstrate compliance with provincial air standards, Atura Power would be required to apply dispatch constraints (i.e., limitations of facility start-up operations) during specified and infrequent meteorological events. These dispatch constraints would affect Atura Power's ability to provide power to the grid when dispatched by the IESO, and therefore Atura Power is considering an application for a site-specific standard under O. Reg. 419/05. This site-specific standard compliance option would allow Atura Power to moderate these anticipated facility dispatch constraints and better position the facility to respond and provide power to the grid when needed. Should this compliance approach be pursued, Atura Power will engage with the First Nations, Town of Greater Napanee, local residents and other interested parties to share information and receive feedback about this process.

3.1.1.2 In-Stack Limits (Air)

The document "Guideline A-5 Atmospheric Emissions from Stationary Combustion Turbines" (Ministry of the Environment, Conservation and Parks, 2021b) provides concentration-based in-stack limits for stationary combustion turbines for NO_x and CO. The two existing NGS combustion turbines are subject to the original 1994 version of Guideline A-5; however, the new NGS Expansion combustion turbine will be subject to the current 2021 version.

The document "Guideline A-9: NO_x Emissions from Boilers and Heaters" (Ministry of the Environment, Conservation and Parks, 2016c) provides NO_x emission limits for new or modified fossil-fuel boilers and heaters which have a fuel energy input of greater than 10.5 GJ/hr (Ministry of the Environment, Conservation and Parks, 2016c), which is expected to apply to the natural gas dewpoint heater for the project.

3.1.1.3 Noise

Noise is considered a contaminant under the EPA. Sources of noise emission require approval under Section 9 of the EPA.

Noise emissions will be assessed against the applicable MECP standards and through comparison to existing noise levels at the closest residential area (see **Section 5.2.5**). The noise criteria for facilities located in rural areas, such as the project, are outlined in Publication Noise Pollution Control (NPC) 300. Sound levels from steady stationary noise sources are quantified using the energy equivalent sound level (L_{eq}) in A-weighted decibels (dBA). For rural areas, the day-time limit at sensitive receptors for steady noise from a stationary source is the higher of either the minimum 1-hour L_{eq} resulting from existing volumes of road traffic and any industry that is not under investigation for noise excess, or 45 dBA. The night-time limit is the higher of either the minimum ambient (road traffic plus industry) 1-hour L_{eq} noise level, or 40 dBA. For this assessment, the MECP minimum values of 45 dBA during the day and 40 dBA during the night will be applied.

The ECA (Air and Noise) amendment described in **Section 3.1.1** would include a noise component. The ECA amendment would be supported by a noise impact assessment including modelling to determine potential noise effects at sensitive receptors, and any applicable noise mitigation measures. The detailed technical assessment included in the application is subject to MECP review and approval.

3.1.2 Industrial Sewage Works

In Ontario, direct discharges to the environment and water bodies require an ECA under Section 53 of the *Ontario Water Resources Act* (OWRA) and under Section 20.2 of Part II.1 of the EPA.

An application to amend the existing ECA for NGS (Number: 9552-BQMGUV) was submitted to MECP to include the new equipment for the project and changes and/or additions to the process wastewater collection, treatment, and disposal system related to the project. The spill prevention and containment systems for the additional oil-filled transformers has also been included in the ECA (Industrial Sewage Works) amendment application.

3.1.3 Water Takings

Atura Power and the project will continue to operate under OPG's existing PTTW Number P-300-1928114015 for the LGS which includes an allocation for the existing NGS. All water taking will be within the limits of the existing PTTW. During construction, if dewatering is needed to temporarily manage groundwater levels in sub-grade construction areas and the combined volume of groundwater and stormwater removed from the excavation exceeds 50,000 L on any given day, an Environmental Activity and Sector Registry (EASR) will be required as per O. Reg. 63/16: Registrations Under Part II.2 of the Act-Water Taking. If only stormwater is removed (i.e., the base of the excavation is above the water table), an EASR will not be required regardless of volume.

3.2 Ministry of Transportation Approvals

Permits from the relevant MTO departments will be required for signage, work within the Highway 33 right-of-way and for heavy haul routing.

No public road works are anticipated for the project. Atura Power will design and construct all identified road works, signage, and security systems in accordance with entrance standards specified by the MTO.

3.3 Cataraqui Region Conservation Authority Permit

In accordance with the *Conservation Authorities Act*, O. Reg. 41/24: Prohibited Activities, Exemptions and Permits, a permit will be required for grading and work within lands regulated by the CRCA, adjacent to the north-south watercourse on-site.

3.4 Town of Greater Napanee Approvals

3.4.1 Minor Variance

The project is on lands which have been designated in the Town of Greater Napanee Official Plan (NOP) for power generation and no rezoning amendment is required. However, the project will require a Minor Variance to allow a reduced interior side yard setback per the Town of Greater Napanee Zoning By-law 02-22.

3.4.2 Site Plan Approval

The project is located within the Site Plan Control Area for the Town as per Policy 9.7 of the NOP and By-law 98-88. As such, prior to construction of the project, a Site Plan Approval amendment will be required from the Town in order for site development matters such as land use compatibility, access, site servicing and landscaping are built and maintained in a manner that is functional, appropriate and in line with municipal standards where applicable (this process is outlined by the Town, Planning Department – Site Plan Control Guide, January 2018). A pre-consultation meeting has been held with Town staff, third-party reviewers, and applicable agencies to identify the nature and scope of the required technical plans, reports and studies to support a complete site plan application under the *Planning Act* (see **Section 8** for more details). The construction site plan will be part of the approved plans through the Site Plan review and approval process. The NGS was previously subject to Site Plan Control and as a result Site Plan Approval for the project will occur through amendments to (previously) approved site plans and the existing Site Plan Agreement. Amendments to the Site Plan Agreement will be negotiated and approved by the Town, to be executed following Site Plan Approval.

Final approval is given after the application has been reviewed and any comments or conditions by the Town and outside agencies have been addressed. A Site Plan Agreement must be negotiated and approved by the Town, to be executed following site plan approval.

3.4.3 Building Permits

Building Permits for the project will be required from the Town of Greater Napanee to allow for site preparation and clearing, foundations, building construction, occupancy, and final installation and inspection. Building permits are dependent on any applicable site plan amendments, variances, or other zoning requirements.

3.5 Transport Canada Clearance

Application will be made to Transport Canada to determine if Aeronautical Obstruction Clearance may be required for the construction cranes (temporary). It is not anticipated that permanent warning beacon lights will be required per Canadian Aviation Regulations 2009-1, Chapter 5 because the permanent stack height will be 47 m, less than the existing exhaust stacks which do not have permanent warning beacon lights.

3.6 NAV Canada

As the project will be using temporary construction cranes, application will be made to the Land Use Office in advance of construction. NAV Canada assesses land use proposals near air navigation infrastructure to establish that a project will not affect aviation-specific regulations and safety standards. A general submission form and crane submission form will be required 8 to 12 weeks in advance of construction.

4. Approach to Environmental Review

According to the Guide, the ERR must include a project description, a description of the local environment, results of the analyses, evaluations, and assessments conducted for the subject effects, concerns or issues, commitments and commitment mechanisms, summaries of technical reports and an assessment of advantages and disadvantages of the project.

To describe the local environment and support the assessment of environmental effects, existing technical reports and resources were reviewed. These include:

- Official Plan of the Town of Greater Nanpsee (Town of Greater Nanpsee, 2014);
- County of Lennox and Addington Official Plan (County of Lennox & Addington, 2018);
- Provincial Planning Statement (Ministry of Municipal Affairs and Housing Ontario, 2024);
- Environmental Review Report Nanpsee Generating Station (SENEC Consultants, 2014);
- Stage 1 and 2 Archaeological Assessment for the Nanpsee Generating Station, Part of Lots 19, 20, and 21, Concession 1, Geographic Township of South Fredericksburgh in the County of Lennox & Addington, now in the Town of Greater Nanpsee (Advance Archaeology, 2014); and
- Screening Checklist: Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage (Ministry of Citizenship and Multiculturalism, 2006).

The review of existing resources identified gaps in baseline information and the need to complete an Environmental Review for the project. To complete the Environmental Review for the project, additional technical studies were completed and are documented in technical study reports under separate covers. These technical studies include:

- Air Quality and Greenhouse Gas Technical Report;
- Cultural Heritage Impact Assessment;
- Natural Heritage Existing Conditions and Impact Assessment Report;
- Noise and Vibration Assessment Report; and
- Stage 1 and 2 Archaeological Assessment.

The Environmental Review is also supported by results of additional technical studies or monitoring programs completed or currently ongoing by Atura Power to support future permits and approvals. These include:

- Land use review (MHBC, 2025);
- Groundwater monitoring (IEC, 2025a);
- Floodplain analysis (Watercom Engineering Inc., 2025);
- Stormwater management and erosion and sediment control plan (Burns & McDonnell, 2025a);

- Industrial sewage plan (Burns & McDonnell, 2025b);
- Phase II Environmental Site Assessments (Terrapex Environmental Ltd., 2024a) (Terrapex Environmental Ltd., 2024b); and
- Traffic impact study (Trans-Plan, 2025).

A key component of the ERR is the consideration of comments received through engagement with Indigenous communities, the public and government agencies in the assessment of environmental effects (see **Section 8**).

The technical studies and monitoring programs, and engagement with Indigenous communities, the public, and government agencies was used to characterise the existing conditions detailed in **Section 5**. In accordance with the Guide, the project was screened against the Screening Checklist to identify potential negative effects of the project (**Section 6**). For criteria that are not screened out, potential effects were assessed, and mitigation measures were developed to avoid or minimise negative effects (**Section 7**).

4.1 Assessment Boundaries

For the purposes of the ERR, the spatial and temporal boundaries for the assessment were determined by an examination of relevant geographic boundaries to guide the review. Spatial boundaries are defined as follows:

- **Project site** – includes the collective location of all permanent and temporary project components (including the construction footprint) as shown in **Figure 1-1**.
- **Project study area** – is defined as the area where effects of the project are expected. Study areas are established for each technical study. For environmental technical studies where effects are limited to the project site the project site boundary is defined as the project study area.

Temporal boundaries established for the project include construction, operations and maintenance, and decommissioning phases as described in **Section 2.3** and are defined as follows:

- **Construction** – anticipated to start in Q3 of 2025 after all applicable assessments, permits, and approvals have been obtained to enable construction to begin. The construction phase may range from 18 to 30 months but is assumed to take 26 months to complete;
- **Operations and maintenance** – anticipated to start in 2028 with an expected operating life of 12 years; and
- **Decommissioning** – anticipated to start in 2040 at the end of the project's useful service life.

5. Existing Conditions

5.1 Existing NGS Facility

The existing NGS is located north of the Lake Ontario shoreline in the Town of Greater Napanee, Ont. It is situated between the LGS, which is owned and operated by OPG, and the Napanee Battery Energy Storage System (BESS), a separate project being undertaken by Napanee BESS Inc., a joint venture between Atura Power and Ameresco, and anticipated to be in operation in early 2026.

The existing NGS is a natural gas-fuelled, combined cycle generating station with a maximum net output of 970 MW under average ambient conditions. The net output of 970 MW is derived from two 271 MW gas turbine generator sets and one 457 MW steam turbine and generator, gross at average ambient environmental conditions minus the auxiliary loads (~29 MW) used by the NGS.

After meeting the requirements under the Ontario *Environmental Assessment Act* and obtaining all required permits, the NGS began operation in March of 2020 with a contract term of 20 years. The original proponent, TransCanada Energy Ltd., completed an ERR in 2014 which concluded that, “the negative net environmental effects of the NGS which are considered to be overall negligible, are on balance offset by the positive contributions of the NGS” (SENES Consultants, 2014).

5.2 Existing Environmental Conditions

The description of the existing environment includes those aspects of the environment which may be affected by the construction and operation of the project. The environmental components described below include surface water, groundwater, natural environment, air, noise, land use, resources, socio-economic environment, and heritage and culture.

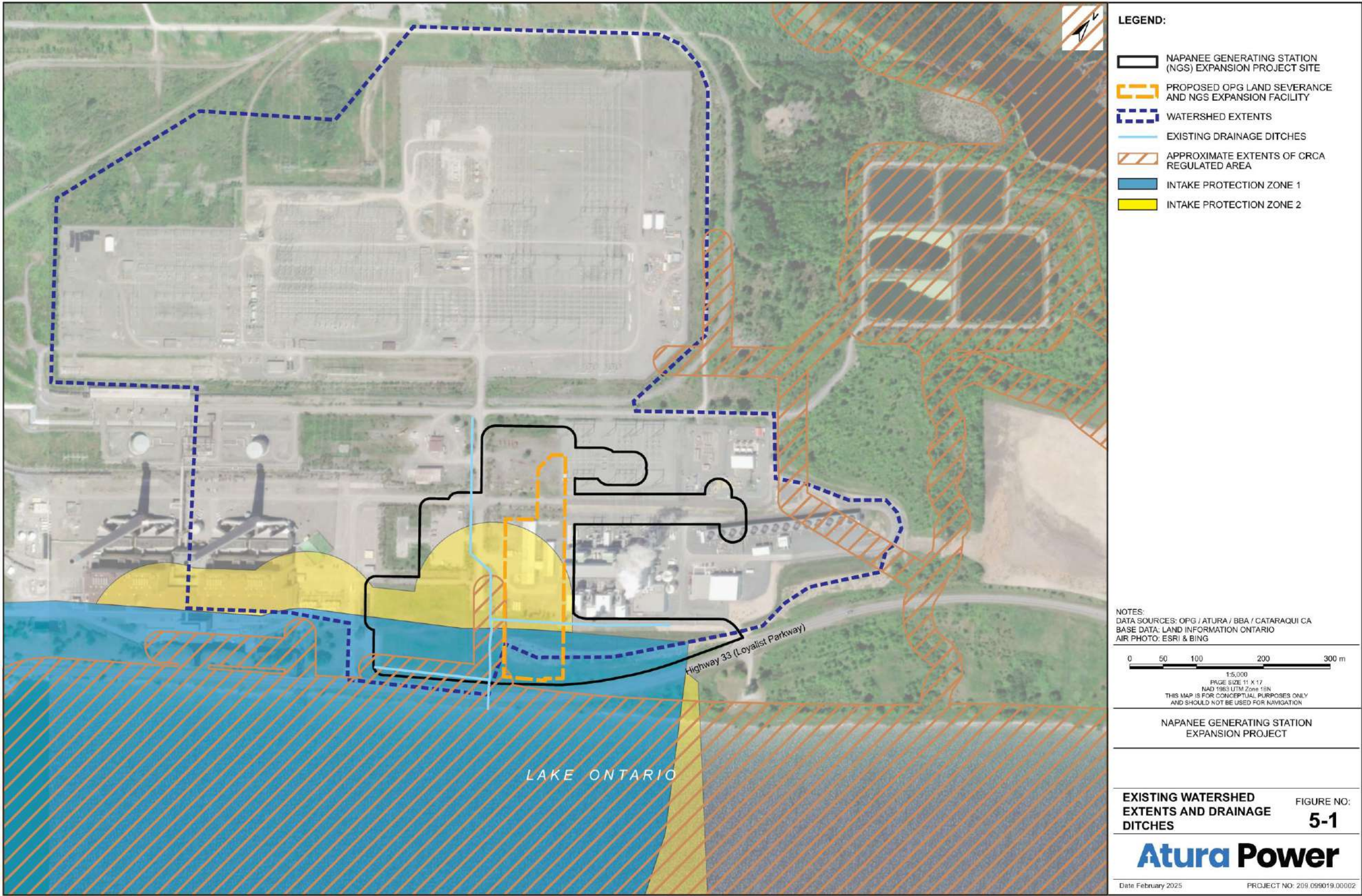
Existing environmental conditions were identified through readily available information, technical work programs, and engagement as described in **Section 4**.

5.2.1 Surface Water

Lake Ontario is located south of the project site. This portion of eastern Lake Ontario encompasses Adolphus Reach of the Bay of Quinte, Upper Gap between Cressy Point in Prince Edward County and Amherst Island, and North Channel between the mainland and Amherst Island (SENES Consultants, 2014).

The watershed within which the project is located is shown in **Figure 5-1**. A network of drainage ditches including drainage ditches within adjacent Hydro One Networks Inc. (HONI) and OPG lands, flow generally from north to south and converge into a single ditch that flows in a southerly direction, through a corrugated steel pipe culvert under Highway 33 and discharges into Lake Ontario. The drainage ditch drains an area of approximately 77 ha upstream of Highway 33 (Watercom Engineering Inc., 2025).

Figure 5-1: Existing Watershed Extents and Drainage Ditches



The project is located within the CRCA's jurisdiction as identified in O. Reg. 41/24, regulating development in areas including in and around shorelines, watercourses, floodplains, wetlands, and adjacent lands. The CRCA is also the local source water protection authority. Where the drainage ditch discharges into Lake Ontario is within the Cataraqui Source Protection Area for the A.L. Dafoe Intake Protection Zones (IPZs) 1 and 2 (see **Figure 5-1**). As such, Atura Power has been engaging with CRCA regarding the protection of drinking water (see **Section 8.5**). Details related to IPZ policies are provided in **Sections 5.2.6.1** and **5.2.6.2**.

5.2.2 Groundwater

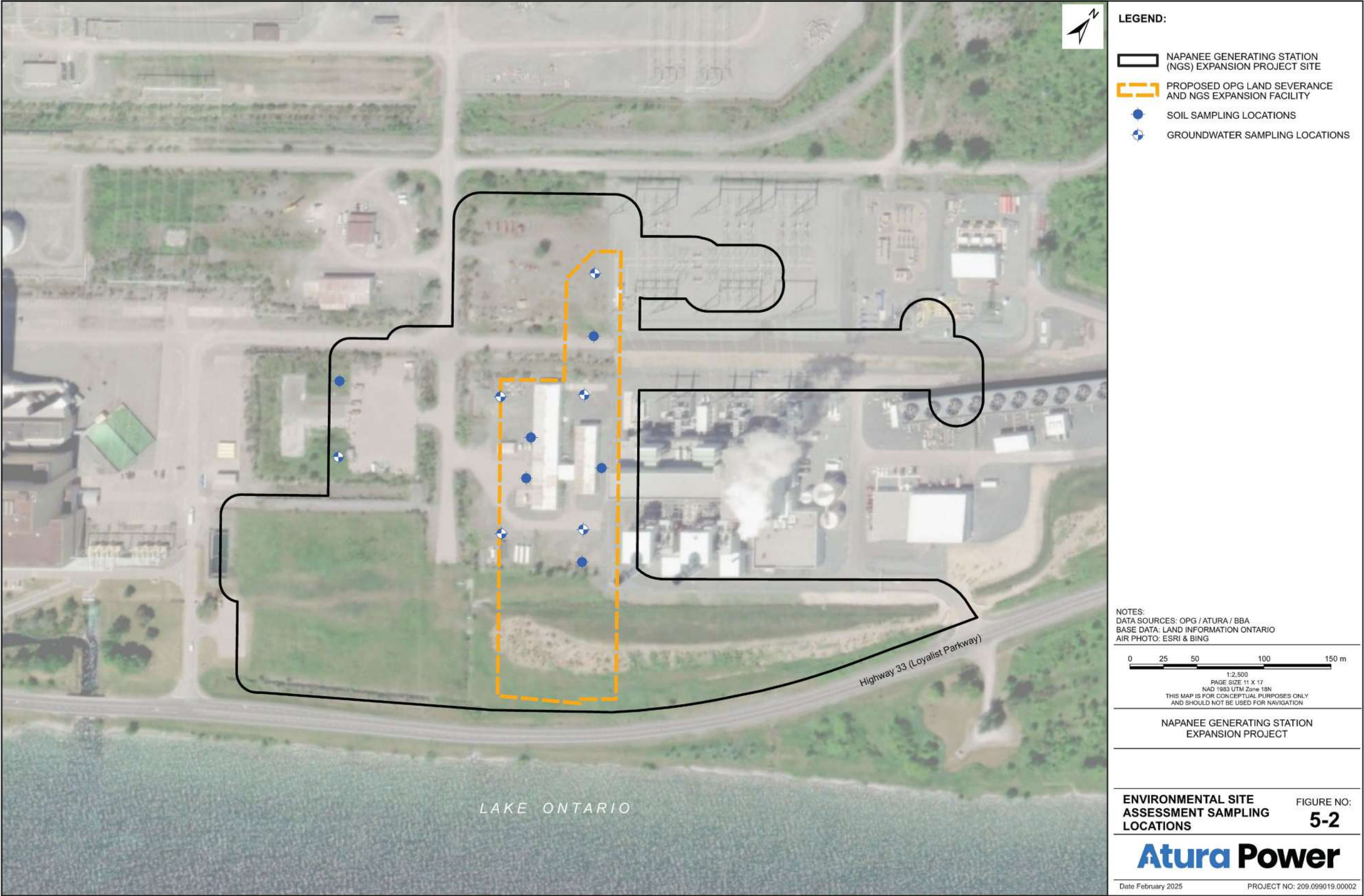
Groundwater in and near the project site is largely within the underlying limestone bedrock (SENES Consultants, 2014). Assessment of groundwater conditions was completed within the project site based on continuous water level monitoring from the six monitoring wells installed in 2024 (Terrapex Environmental Ltd., 2024a) (Terrapex Environmental Ltd., 2024b). This work confirmed that groundwater is found throughout the project site at depths below ground surface that ranges from 0.5 metres below ground surface (mbgs) in the north to 6 mbgs including more than 2 m below the bedrock surface in the southwest. Groundwater elevations at the project site change from south to north by 5.5 m.

Groundwater is commonly found in the sandy fill overlaying native silty sand and silty clay soils over the bedrock. Groundwater is commonly present from 0.9 to 4.7 m above the bedrock surface which slopes approximately 5.5 m from its highpoint in the north to the south, similar to the slope of the groundwater elevations. At the southwest corner of the site, groundwater at 79.8 to 81.6 metres above sea level (masl) is below the bedrock surface (82.2 masl) likely due to the enhanced drainage provided by the north-south ditch. This ditch has a base elevation at this location of 81.0 masl, similar to the groundwater elevations. No changes to the north-south ditch are planned and changes to groundwater elevations are not expected.

Groundwater flow is toward the south and Lake Ontario. Flow rates are expected to be low given the nature of the bedrock and native soils, with flow rates accelerating near the north-south ditch and decelerating in the northwest portion of the project site (IEC, 2025a). Groundwater levels within the construction footprint slope from the north to the southwest, ranging from approximately 90 to 81.6 masl, and 4.7 m above bedrock surface to 2.4 m below bedrock surface (Terrapex Environmental Ltd., 2024a) (Terrapex Environmental Ltd., 2024b).

Phase 1 and Phase 2 Environmental Site Assessments were completed in 2024 to determine existing groundwater quality within the project site (**Figure 5-2**). Groundwater samples were analysed for petroleum hydrocarbon (PHC) fractions 1–4, benzene, toluene, ethylbenzene, and xylenes (BTEX), volatile organic compounds (VOCs), metals and inorganics, polychlorinated biphenyls (PCBs) and chloroform. Results were evaluated against MECP standards for Generic Site Condition Standards in a Potable Ground Water Condition, selected using criteria established by O. Reg. 153/04, from Soil, Groundwater and Sediment Standards for Use under Part XV.1 of the Ontario *Environmental Protection Act* (Ministry of the Environment, Conservation and Parks, 2011).

Figure 5-2: Environmental Site Assessment Sampling Locations



An exceedance of chloroform was observed in one groundwater sample, attributed to the use of municipally treated drinking water during drilling and which had been expected to dissipate over time. This exceedance remained below within MECP's human health component values used to derive the MECP potable groundwater standards. The monitoring well where the chloroform exceedance was observed was resampled on April 10, 2025, to confirm that the levels of chloroform have dissipated as expected. The results showed that chloroform was non-detectable and therefore now meets the MECP potable groundwater standard. All other analytical results for groundwater samples were below MECP standards (Terrapex Environmental Ltd., 2024a) (Terrapex Environmental Ltd., 2024b). It is assumed that the findings of the Environmental Site Assessments are representative of the project site.

5.2.3 Natural Environment

5.2.3.1 Terrestrial Environment

Ecological Land Classification (ELC) and vegetation surveys of the project site were conducted in 2023. Vegetation communities were mapped and described following the ELC system (Lee, 1998) and are illustrated on **Figure 5-3**.

All species identified are common-to-widespread in the surrounding area. No endangered or threatened plant species were observed within the project site.

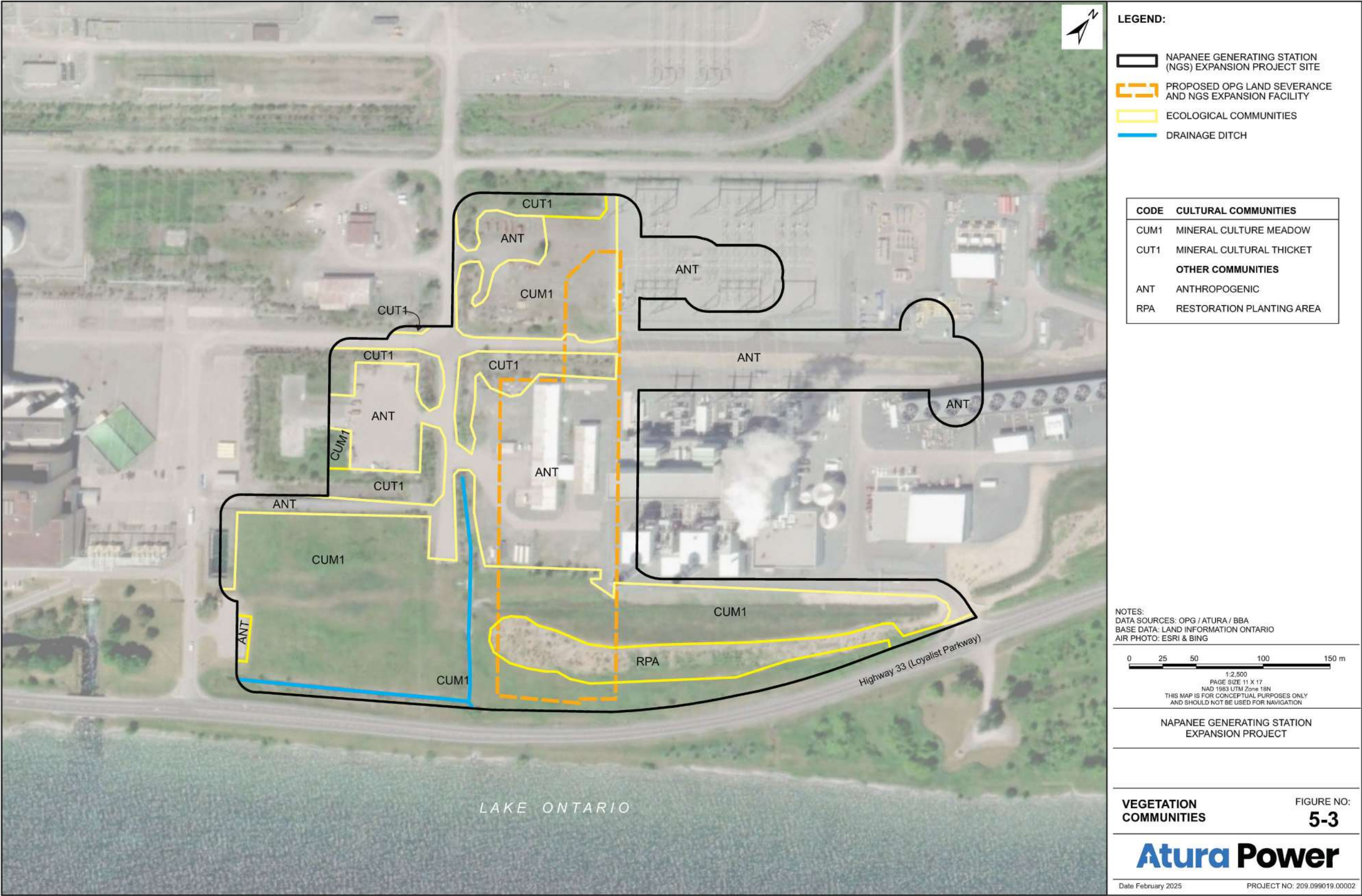
Breeding Birds

Three breeding bird surveys were conducted under suitable conditions in 2023. The breeding bird community was surveyed using a roving survey methodology. A total of 16 species of birds, 15 of which exhibited evidence of breeding, were documented. There are several existing nesting structures within the project site. During the surveys, five pairs of Purple Martin (*Progne subis*) were observed in a colony nest box and an occupied Osprey (*Pandion haliaetus*) nest was observed on a nesting platform, outside the project site, on a hydro pole beside Highway 33. The Osprey nesting platform and Purple Martin colony nest box were relocated on November 18, 2024 and December 13, 2024, respectively, prior to completing other maintenance on-site that was not associated with the project to provide the birds a quieter nesting location. The new Osprey platform was designed according to the Ontario Ministry of Natural Resources (MNR) guidance and located on a pole approximately 120 m west along Highway 33. The new Purple Martin colony nest box was relocated approximately 60 m southwest of the previous location.

Most species recorded are generalists which are often found in disturbed or successional habitats. No species provincially ranked as Critically Imperiled, Imperiled or Vulnerable by the Committee on the Status of Species at Risk in Ontario were recorded within the project site, nor were any species that are regulated under the Ontario *Endangered Species Act* (ESA).

Though not included in the breeding bird survey area, there is a long-standing heronry in the Lennox Hydro Provincially Significant Wetland located approximately 700 m to the northeast of the project site. A heronry is an area that consists of concentrated nests of Great Blue Heron (*Ardea herodias*) colonies.

Figure 5-3: Vegetation Communities within the Project Site



Winter Wildlife

Winter wildlife surveys were conducted in 2024 to document winter wildlife use of the site by non-hibernating mammals and raptors. Mammal tracks were observed throughout the northwest portion of the project site within the perimeter fence where thickets and structures are available for cover. Fewer tracks were observed in the meadow community outside the perimeter fence. All species recorded are common species of rural areas of southern Ontario.

The only raptors observed in the vicinity of the project site was a pair of Peregrine Falcon (*Falco peregrinus*) atop the LGS to the west, associated with the hack box where they nest. While the falcons may opportunistically forage within the project site, this species forages widely. Few common bird species were observed within the project site during the winter visit. In the winter, areas adjacent to Lake Ontario are expected to provide more productive foraging for gull and waterfowl prey, as well as Rock Pigeon (*Columba livia*) associated with the NGS buildings and nearby agricultural areas.

Endangered, Threatened and Species of Conservation Concern

A desktop screening was conducted followed by field investigations to assess potential habitat for species listed provincially as endangered, threatened, and special concern that may occur within the project site. Only species listed as provincially endangered or threatened are regulated under the *ESA*.

Two Special Concern species identified through the desktop screening for which potentially suitable habitat was identified within or nearby to the project site: Midland Painted Turtle (*Chrysemys picta marginata*) and Snapping Turtle (*Chelydra serpentina*). Although neither of these species were observed within the project site during the seasonal surveys in 2023 and 2024, potential habitat and previous records were identified nearby. A Midland Painted Turtle was observed approximately 300 m to the east of the project site during other surveys being conducted at the site in 2023. Snapping Turtles have been known to nest at the OPG sewage lagoons located approximately 650 m to the northeast of the project site.

5.2.3.2 Aquatic Environment

There are two channels (drainage ditches) situated on the southern portion of the project site (see **Figure 5-3**). The channels converge immediately north of Highway 33 and flow towards Lake Ontario. The culvert at the highway crossing was slightly perched and would be a potential fish barrier under lower flow conditions. The convergence point of the two channels was loaded with rip rap and present a barrier to fish attempting to migrate upstream. The culvert at the west end of the channel near the parking lot had a partial barrier with wood and steel at the outlet of the culvert. Fish sampling was conducted in 2024, during which seven Round Goby (*Neogobius melanostomus*) were captured in the channel that flows west to east along the southern part of the project site. This species is an invasive species in Ontario. No other fish were captured.

5.2.4 Air

The following sections provide the regional and local climate, meteorology and air quality context relevant to the project.

5.2.4.1 Climate and Meteorology

The area surrounding the project site has a humid continental climate like other parts of southern Ontario near the Great Lakes. The region is characterised by pronounced seasonal differences in weather and by a highly variable day-to-day weather pattern. Some periods in the summer can be characterised as a humid tropical climate (i.e., high temperature, high humidity, afternoon thunderstorms, etc.), while some periods in the winter can be characterised as a polar climate (i.e., very cold, clear, and dry) with precipitation occurring throughout the year. Due to its location on the north shore of Lake Ontario, the project site experiences moderate temperatures compared to inland areas, meaning cooler summers and milder winters. The lake effect can also bring occasional heavy snowfall and increased cloud cover in the winter.

Characterisation of the existing climate and meteorological conditions near the project site is important because these are the main forces driving the dispersion of emissions in the atmosphere. Wind direction and wind speed dictate the direction and distance from the source that emissions may travel. Near-surface temperature controls the buoyant component of turbulence (i.e., vertical motion) from the emission sources, while precipitation helps remove pollutants from the atmosphere.

The closest continuous meteorological station operated by Environment and Climate Change Canada (ECCC) is located approximately 21 kilometres (km) away from the project site at the Kingston Airport⁴. Additionally, data from the ECCC Kingston Climate Station⁵ were incorporated into the composite climate elements presented in this assessment. The long-term historical meteorological data from these two stations were used to describe the average climatic conditions at the project site. The following sections provide summary description of this data.

Temperature

Climate normals and extremes for Kingston (1991-2020) (ECCC, 2024) are presented in **Table 5-1**. “Normals” is the term commonly used for values of climatic elements averaged over a fixed standard period of years (usually 30 years).

As shown in **Table 5-1**, the normal annual temperature is 7.3°C at the Kingston Airport, with a normal daily minimum temperature of –11.5°C in January and a normal daily maximum temperature of 25.4°C in July. Extreme temperatures range between –32.8°C in January to 33.7°C in July.

4. Climate ID 6104146; elevation:92.4 m

5. Climate ID 6104142; elevation:93 m

Table 5-1: Kingston Temperature Normals (1991-2020)

Parameters	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Temperature													
Daily Average (°C)	-7.0	-6.4	-1.1	5.4	12.4	17.3	20.8	20.0	15.6	9.5	3.5	-2.2	7.3
Standard Deviation	2.9	3.2	2.6	1.1	1.3	0.9	1.4	1.1	1.2	1.5	1.8	2.2	0.9
Daily Maximum (°C)	-2.6	-1.8	3.2	10.0	17.6	22.1	25.4	24.6	20.5	13.8	7.5	1.6	11.8
Daily Minimum (°C)	-11.5	-10.9	-5.5	0.9	7.3	12.5	16.1	15.3	10.7	5.1	-0.6	-6.0	2.8
Maximum Daily Mean (°C)	8.4	6.7	14.7	16.9	22.9	26.9	28.2	26.3	25.7	21.2	14.2	9.7	28.2
Minimum Daily Mean (°C)	-25.6	-24.4	-16.7	-6.4	1.2	8.7	13.8	12.7	4.6	-1.7	-12.7	-23.4	-25.6
Extreme Maximum (°C)	13.5	12.8	21.2	24.7	31.7	31.8	33.7	33.5	30.8	26.1	19.7	14.2	33.7
Extreme Minimum (°C)	-32.8	-30.8	-23.7	-12.0	-4.0	2.6	7.5	6.7	-1.3	-7.5	-17.1	-28.3	-32.8

Note: **Bolded** values indicate the extreme for the year.

Precipitation

Table 5-2 provides precipitation normals and extremes in Kingston (1991-2020) for rainfall and snowfall. The Kingston area received an average of 959.6 millimetres (mm) of precipitation per year, 808.7 mm as rainfall and 157.1 centimetres (cm) as snowfall⁶. The highest normal monthly rainfall was 93.7 mm in August. The extreme daily precipitation rate of 91.6 mm occurred in July and the extreme daily snow depth of 58 cm was recorded during February.

Wind Speed and Direction

Wind speed and direction climate normals and extremes are summarised in **Table 5-3**. The prevailing wind direction in the spring and summer (from March to September) was from the south, and from the west in the fall and winter (from October to February). The annual average wind speed was 14.8 kilometres per hour (km/h) (or 4.1 m/s), with the highest recorded wind speed of 78 km/h (or 21.7 m/s) occurring in September.

Figure 5-4 presents a comparison of a wind rose based on the CALMET meteorological dataset extracted from the Kingston Airport (on the left) and a wind rose based on observed wind speeds recorded at the Kingston Climate station (on the right). The average wind speed based on the modelled data is 4.3 m/s whereas the observed average wind speed is 4.2 m/s.

5.2.4.2 Existing Air Quality

The existing air quality at the project site is influenced by local industrial emission sources such as the existing NGS operations, LGS, the Lafarge cement plant at Bath, smaller industrial and commercial operations, farming activities, local traffic, local residences, and long-range (including cross-border) emissions generated upwind in urban and industrial areas.

Representative background concentrations were established for each constituent of potential concern (COPC) and averaging period considered in the air quality assessment. The principal constituents from the project are combustion emissions of NO_x and CO. Minor combustion emissions related to the project are sulphur dioxide (SO₂), particulate matter, which is comprised of suspended particulate matter (SPM), particulate matter less than 10 microns in diameter (PM₁₀) and particulate matter less than 2.5 microns in diameter (PM_{2.5}), as well as polycyclic aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), and metals. Except for cadmium (Cd), benzo(a)pyrene (BaP), ethylene, and propanal, project emissions of PAHs, VOCs, and metals were determined to be insignificant through a screening analysis (detailed in Attachment B of the Air Quality and Greenhouse Gas Technical Report (IEC, 2025b).

Multiple background concentrations were determined for a single COPC and averaging period in instances where the statistical form required for comparison to MECP Ambient Air Quality Criteria (AAQC) is different than that required for comparison to Canadian Ambient Air Quality Standards (CAAQS). A summary of the representative baseline concentrations is presented in **Table 5-4**.

6. The total of snow and rainfall precipitation do not equal the average precipitation due to fluctuation of water content in snow events.

Table 5-2: Kingston Precipitation Normals (1991-2020)

Parameters	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Precipitation ^{1,2}													
Rainfall (mm) ¹	29.2	29.0	41.3	77.5	76.9	72.0	64.0	93.7	89.7	91.0	92.4	52.2	808.7
Snowfall (cm) ¹	39.5	39.1	25.4	8.1	0.0	0.0	0.0	0.0	0.0	1.2	8.0	35.9	157.1
Precipitation (mm) ¹	65.2	65.1	69.2	87.1	76.9	72.0	64.0	93.7	89.7	92.4	100.3	84.1	959.6
Days with Rainfall ≥ 0.2 mm ¹	5.4	5.1	8.2	11.9	12.9	11.4	9.3	11.1	12.3	13.6	14.0	8.1	123.4
Days with Snowfall ≥ 0.2 cm ¹	13.2	11.1	7.3	2.6	0.0	0.0	0.0	0.0	0.0	0.4	4.3	11.5	50.4
Days with Precipitation ≥ 0.2 mm ¹	16.1	13.9	12.8	13.5	12.9	11.4	9.3	11.1	12.3	13.7	16.2	15.8	159.1
Extreme Daily Precipitation (mm) ²	38.1	39.8	41.3	47.2	46.2	67.8	91.6	58.0	91.0	53.6	58.4	49.5	91.6
Extreme Snow Depth (cm) ²	27.0	58.0	48.0	22.0	0.0	0.0	0.0	0.0	0.0	1.0	14.0	42.0	58.0

Notes: **Bolded** values indicate the extreme for the year

1. Climate Normals 1981-2010;

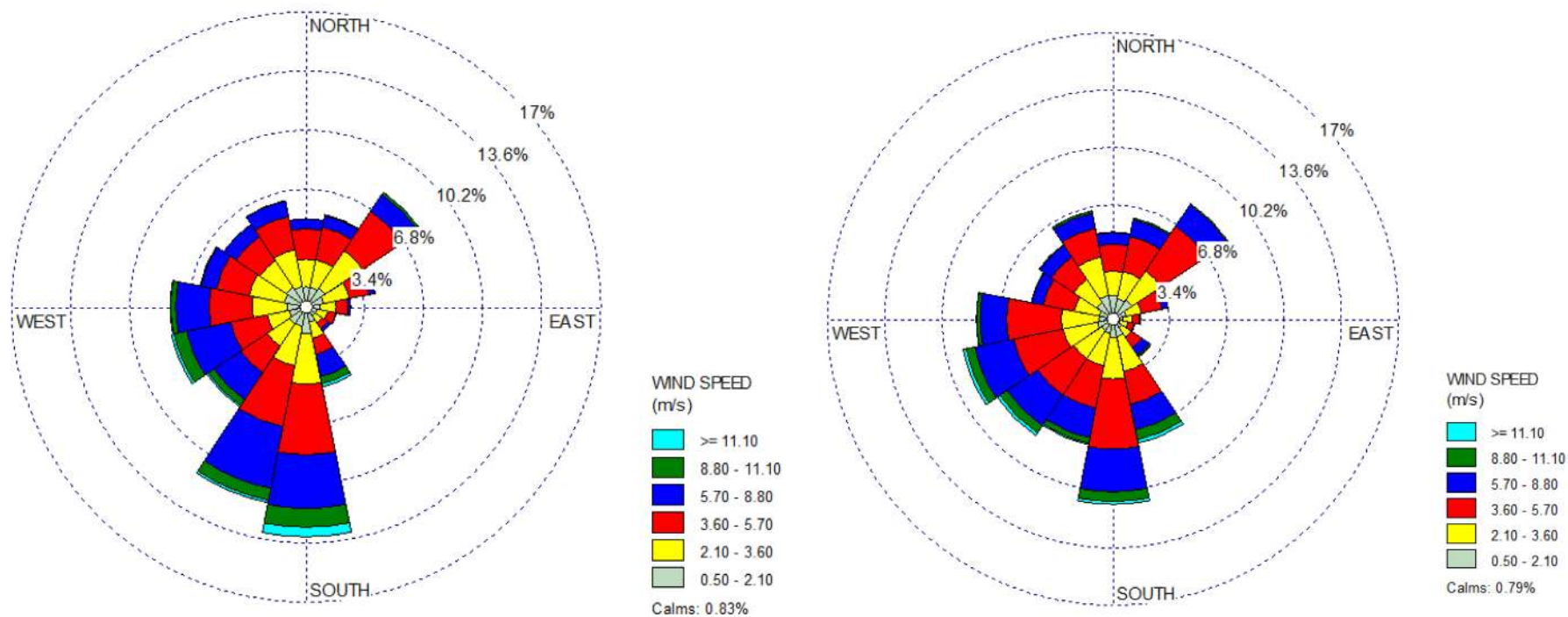
2. Climate Normals 1991-2020

Table 5-3: Kingston Wind Normals (1991-2020)

Parameters	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Wind													
Wind Speed (km/h)	16.6	15.6	15.4	15.7	12.9	12.2	12.7	13.1	14	16	16.7	16.5	14.8
Most Frequent Wind Direction	W	W	S	S	S	S	S	S	S	W	W	W	S
Extreme Wind Speed (km/h)	67	69	74	59	57	46	70	54	78	61	71	65	78
Direction of Extreme Wind Speed	SW	W	SW	SW	SW	W	E	S	N	SW	SW	S	N
Extreme Gust Speed (km/h)	91	86	115	100	96	81	120	111	91	95	130	100	130
Direction of Extreme Gust Speed	SW	SW	SW	SW	N	N	W	NW	SW	W	SW	W	SW

Note: **Bolded** values indicate the extreme for the year

Figure 5-4: Comparison of CALMET and Observed Kingston Wind Roses (2014-2018)



CALMET Wind Rose at Kingston Airport, 2014-2018 Wind Rose at Kingston Climate Station (6104142), 2014-2018

Table 5-4: Representative Baseline Concentrations Near the Project Site

COPC	Chemical Abstracts Service (CAS) #	Averaging Period	Representative Baseline Concentration	
			(µg/m ³) for comparison to MECP AAQC ¹	(µg/m ³) for comparison to CAAQS ²
NO _x (as NO ₂) ³	10102-44-0	1-Hour	15.3	62.7
		24-Hour	13.6	-
		Annual	-	7.3
O ₃ ^{3,4}	10028-15-6	1-Hour	87.8	134.9
		24-Hour	81.3	-
		Annual	-	60.0
CO ⁵	630-08-0	1-Hour	172.3	-
		8-Hour	169.5	
SPM ⁶	-	24-Hour	41.8	
		Annual	24.9	
PM ₁₀ ⁶	-	24-Hour	20.9	
PM _{2.5} ³	-	24-Hour	16.2	16.2
		Annual	6.0	6.0
SO ₂ ^{5,7}	7446-09-5	1-Hour	2.7	32.0
		Annual	0.8	0.8
BaP ⁸	50-32-8	24-Hour	0.00004	-
		Annual	0.00002	-

Notes: 1. For comparison to MECP AAQC using the COPC specific statistical forms noted below

- 90th percentile statistical form for all COPC with 1-hour, 8-hour, and 24-hour averaging periods except for PM_{2.5}
- Average statistical form for all COPC with annual averaging periods except for PM_{2.5}
- See note 2 for PM_{2.5} statistical forms

2. For comparison to CAAQS using the COPC specific statistical forms noted below

- NO₂ (1-hour avg) statistical form: the 3-year average of the annual 98th percentile of the daily maximum 1-hour average concentrations
- NO₂ (annual avg) statistical form: the average over a single calendar year of all 1-hour average concentrations
- PM_{2.5} (24-hour avg) statistical form: the 3-year average of the annual 98th percentile of the daily 24-hour average concentrations
- PM_{2.5} (annual avg) statistical form: the 3-year average of the annual average of the daily 24-hour average concentrations
- SO₂ (annual avg) statistical form: the average over a single calendar year of all 1-hour average SO₂ concentrations

3. Based on current (2019-2023) MECP monitoring data from Belleville (54012) and Kingston (52023) monitoring stations

4. Baseline concentration applied for Ozone Limiting Method (OLM)

5. Belleville and Kinston NO₂ have been trending down since 2014 therefore historic project site CO and SO₂ baseline measurements were considered

6. SPM and PM₁₀ were estimated by using the typical ratio seen in National Air Pollution Surveillance (NAPS) NAPS dichotomous sampler sites (SPM:PM₁₀:PM_{2.5} ratio of 4:2:1) (Brook, 1997) (ECCC, 2007)

7. Maximum 1-hour historic project site measurement applied to be conservative since 98th percentile cannot be determined

8. Historic (2007-2011) Point Petre NAPS Station 64601 monitoring data remains the most current and representative

Nitrogen Oxides

NO_x is present in the atmosphere as the sum of nitrogen dioxide (NO₂) and nitric oxide (NO). NO_x emissions are primarily from high-temperature combustion processes such as the burning of fossil fuels. While the primary chemical parameter emitted from combustion processes is NO, it oxidises rapidly, in the presence of ozone (O₃), hydrocarbons and sunlight, to NO₂. NO₂ is a major contributor to the formation of acid rain.

The representative 1-hour and annual background NO₂ concentrations for the project site for comparison to the CAAQS are 62.7 micrograms per cubic metre (µg/m³) and 7.3 µg/m³, respectively. These concentrations represent 78% and 32% of their respective CAAQS of 80.3 µg/m³ and 23.0 µg/m³. The representative 1-hour and 24-hour background NO₂ concentrations for comparison to the MECP AAQC are 15.3 µg/m³ and 13.6 µg/m³, respectively. These background concentrations are minor in comparison to the corresponding MECP AAQCs for NO_x (as total NO₂) of 400 µg/m³ and 200 µg/m³ for 1-hour and 24-hour averaging periods, respectively.

Ozone

Ground level ozone results from chemical reactions between VOCs and NO_x in the presence of sunlight. Ozone is not a COPC for the project however representative background ozone levels are required to apply the OLM and calculate the maximum NO₂ concentrations from the predicted NO_x concentrations.

Carbon Monoxide

CO is produced primarily through the incomplete combustion of fossil fuels. The representative 1-hour and 8-hour background CO concentrations for the project site for comparison to the MECP AAQC are 172.3 µg/m³ and 169.5 µg/m³, respectively. These background concentrations are minor in comparison to the corresponding MECP AAQCs for CO of 36,200 µg/m³ and 15,700 µg/m³ for 1-hour and 8-hour averaging periods, respectively.

Particulate Matter

PM_{2.5} is the fraction of SPM with aerodynamic diameters less than 2.5 µm. MECP has adopted for their AAQC the 24-hour and annual CAAQS of 27 µg/m³ and 8.8 µg/m³, respectively. The representative 24-hour and annual background PM_{2.5} concentrations for the project site are 16.2 µg/m³ and 6.0 µg/m³, respectively. These concentrations represent 60% and 68% of their respective CAAQS of 27.0 µg/m³ and 8.8 µg/m³.

PM₁₀ is the fraction of SPM with aerodynamic diameters less than 10 µm. The representative 24-hour background PM₁₀ concentration was estimated from the measured PM_{2.5} concentration to be 20.9 µg/m³, which is 42% of the MECP AAQC of 50 µg/m³.

SPM is a measure of particulate matter, with aerodynamic diameters less than 44 µm, suspended in the air. The 24-hour and annual MECP AAQC for SPM is 120 µg/m³ and 60 µg/m³, respectively. The representative 24-hour and annual background SPM concentrations were estimated from the measured PM_{2.5} concentrations to be 41.8 µg/m³ and 24.9 µg/m³, respectively, which are 35% and 41% the respective MECP AAQC.

Sulphur Dioxide

SO₂ is another combustion by-product that primarily occurs from the combustion of sulphur containing fossil fuels and is a major contributor to the formation of acid rain. The representative 1-hour and annual background SO₂ concentrations for the project site for comparison to the MECP AAQC are 2.7 µg/m³ and 0.8 µg/m³, respectively. These represent 3% and 8% of the corresponding MECP AAQCs for SO₂ of 106 µg/m³ and 10.6 µg/m³ for 1-hour and annual averaging periods, respectively.

Benzo(a)pyrene

BaP is a toxic air pollutant that is emitted from combustion sources as well as industrial processes. BaP is a PAH and is produced through incomplete combustion when organic materials are burned incompletely.

The BaP AAQC is very stringent, and in some instances the background concentrations are greater than this limit. This is the case for the project site where the representative 24-hour and annual background BaP concentrations for the project site for comparison to the MECP AAQC are 0.00004 µg/m³ and 0.00002 µg/m³, respectively. These represent 80% and 200% of the corresponding MECP AAQCs of 0.00005 µg/m³ and 0.00001 µg/m³, respectively.

5.2.5 Noise

MECP outlines its requirements for noise assessments in Publication NPC-300 “*Environmental Noise Guideline*” (Ministry of the Environment, Conservation and Parks, 2013). NPC-300 establishes sound level limits based on the characteristics of the sensitive receptors in proximity to the facility. The project site and the closest receptor locations are typical of a Class 3 (Rural) Area. A “Class 3 Area” is defined by the MECP as “*a rural area with an acoustical environment that is dominated by natural sounds having little or no road traffic, such as:*

- *a small community,*
- *agricultural area,*
- *a rural recreational area such as a cottage or a resort area, or*
- *a wilderness area.”*

A POR (point of reception) is defined in Publication NPC-300 as “any location on a noise sensitive land use where noise from a stationary source is received” (Ministry of the Environment, Conservation and Parks, 2013). Noise sensitive land uses include properties that accommodate a dwelling (i.e., residential properties, inclusive of legal non-conforming residential, but excluding dwellings that are within the property boundary of the stationary source), as well as properties that contain a noise sensitive commercial purpose building (e.g., hotels and motels) or noise sensitive institutional purpose building (e.g., educational facilities, hospitals, and places of worship).

Background sound levels were measured in 2012 and 2013, prior to the construction of the existing NGS at the four closest sensitive receptor locations (POR1 to POR4) to the project shown in **Figure 5-5**.

Figure 5-5: Noise Sensitive Points of Reception



These background sound levels were representative of contributions from local traffic (e.g., on Highway 33 and County Rd. 21), existing industry (e.g., LGS and Lafarge Bath Cement Plant), and sounds of nature (e.g., wave noise from Lake Ontario). The natural sounds and sound levels from industry that existed prior to the existing NGS operation are not expected to have changed significantly since the monitoring was completed, while the sound level contribution from local traffic to the ambient conditions is expected to have increased. As a conservative measure, the ambient conditions established in 2012 and 2013 have been carried forward for this assessment.

A total of seven PORs were identified near the project site. These locations include five PORs that were identified for previous regulatory approvals associated with the NGS (POR1 to POR5) and two that have been added based on community and regulator feedback. These PORs include residential agricultural properties (**Figure 5-5**).

5.2.5.1 Statistical Analysis

The 2014 ERR for the existing NGS included a statistical analysis of the monitoring data for purposes of establishing the existing conditions for use in the evaluation of predicted change in existing sound levels due to the introduction of the project. The L_{eq} and sound level exceeded for 90% of a given time period (L90, a typical indicator of steady background conditions) measured at each of the receptors over the three monitoring campaigns were calculated and are presented in **Table 5-5**. These levels are presented as the period L_{eq} and period L90, which provide a time-integrated “average” value across all the valid 15-minutes measurements taken during the monitoring period (i.e., 128 hours in November 2012; 889 hours in July–September 2013; 454 hours in November 2013). As a conservative approach, the lowest L90 sound level measured at each of the PORs was used to establish existing background conditions.

Table 5-5: Summary of Acoustic Existing Conditions

Receptor	Time of Day	Campaign	Period L_{eq} (dBA)	Period L90 (dBA)	Existing Condition for Assessment
POR1	Day	Nov. 2012	53.2	50.1	43.8
		Jul. to Sept. 2013	49.1	43.8	
	Evening/Night	Nov. 2012	48.5	45.7	43.6
		Jul. to Sept. 2013	46.9	43.6	
POR2	Day	Jul. to Sept. 2013	53.2	41.3	41.3
	Evening/Night	Jul. to Sept. 2013	46.8	43.6	43.6
POR3 ⁽¹⁾	Day	Nov. 2012	51.7	47.2	43.7
		Jul. to Sept. 2013	53.4	43.7	
	Evening/Night	Nov. 2012	46.0	41.4	41.4
		Jul. to Sept. 2013	50.0	43.6	
POR4 ⁽²⁾	Day	Nov. to Dec. 2013	56.9	53.6	53.6
	Evening/Night	Nov. to Dec. 2013	56.4	54.1	54.1

Note: (1) Value at POR3 assumed to apply at POR5 (adjacent property).
(2) Value at POR4 assumed to apply at POR6 and POR7 (similar waterfront setting).

5.2.6 Land Use, Resources and Socio-Economic Environment

5.2.6.1 Municipal Plans and Policies

Given its location within a two-tier municipality, the project site is subject to the policies of both the County of Lennox & Addington Official Plan (LAOP) and NOP. The Town of Greater Napanee Zoning By-law 02-22 (the Zoning By-law) also applies to the project site.

The project site is designated Rural Area on Schedule A – Land Use of the LAOP. The Rural Area designation applies to all lands within the rural area of the County that are not designated prime agricultural area. Rural Areas are intended to accommodate a limited range of uses that are to be further refined at the local Official Plan level. Policy C.4.4d) recognises that certain lands within the County were designated for industrial, commercial, or recreational uses in the local OP when the LAOP was adopted— such as in the case of the project site— and in those cases the policies of the local Official Plan prevail. No portion of the project site is designated as an Environmental Protection Area in Schedule A – Land Use Plan to the LAOP.

Within the NOP, the project site is designated General Industrial on Schedule A – Land Use and located within Industrial Specific Policy Area One (1)—Lennox Generating Station Industrial Development Area as per Schedule G – Site Specific Policies of the NOP. The Lennox Generating Station Industrial Development Area is a special policy area that recognises in part that the project site and surrounding lands are used for electrical power generation. Existing uses of the site are to be reflected and permitted in the Zoning By-law as per Policy 4.6.3.6.1 b). Permitted uses within this special policy area include the following as per Policy 4.6.3.6.1 c):

“The permitted use of lands within the Lennox Industrial Development Area shall be industrial uses which may:

- i. utilize steam and/or products or by-products or infrastructure of the Lennox Generating Station (LGS) and benefit from being situated near the LGS to utilize the product or by-product or infrastructure; and/or*
- ii. utilize products or by-products of any of those uses identified in Section 4.6.3.6.1(c)(i); and/or*
- iii. and/or produce products required by those uses identified in Section 4.6.3.6.1(c)(i).*

Policy 4.6.3.6.1 c) is interpreted to also reference the products, or by-products or infrastructure of the NGS considering it is a power generation facility similar to LGS.

A review of the NOP was initiated by the Town in January 2022. The intent of proposed policies of the 2024 draft NOP remains generally unchanged as they apply to the project site. The draft NOP also includes policies related to source water protection to implement the applicable mapping and policies of the Cataraqui Source Protection Plan (CSPP). Draft Policy 6.5.3.1 a. speaks to the expansion or alterations to existing development within IPZs that involve potential contaminants where they would constitute a moderate or low drinking water threat. The policy continues that in these instances, new development or expansions to existing development may be subject to the

implementation of site plan control and risk management measures to protect the drinking water supply—and in the case of site plan approvals, a risk reduction plan may be required that identifies measures to be incorporated into the design and implemented through the approval that addresses potential contaminants.

The project site is zoned General Industrial Exception 2 Zone with a Holding Provision (M2-2-H) on Map 20 to Schedule A of Zoning By-law 02-22. A non-nuclear power generating station is a permitted use in the M2-2-H zone category. The regulations of the M2-2-H Zone category include minimum required setbacks from property lines and Highway 33, and maximum heights for buildings and related structures, including stacks associated with power generating stations. **Table 5-6** provides required setbacks according to the relevant regulations of the M2- 2-H Zone category.

Table 5-6: Required Zoning Setbacks

Zoning Provision	Required
Minimum Lot Area	0.4 ha
Minimum Lot Frontage	30 m
Minimum Front Yard	12 m
Minimum Interior Side Yard	6 m
Minimum Rear Yard	20 m
Maximum Lot Coverage	50%
Minimum Landscaped Open Space	10%
Setback from Street Centreline	100 m from the northern limit of the road allowance of Highway 33 for buildings and structures associated with new industrial development
Power Generating Station & Administration Building	60 m
Stacks associated with Power Generating Station	200 m
Accessory Buildings and Structures	12 m, with building height permitted above 12 m provided the building, or structure is setback an equivalent distance from the front, side or rear lot lines and not erected closer to the street line than the minimum required yard.

5.2.6.2 Provincial Plans and Policies

The project site is not within lands subject to the Oak Ridges Moraine Conservation Plan (2017), Lake Simcoe Protection Plan (2009), Niagara Escarpment Plan (2017), Greenbelt Plan (2017) or Growth Plan for Northern Ontario (2011) or A Place to Grow: Growth Plan for the Greater Golden Horseshoe (Ministry of Municipal Affairs and Housing, 2017a), (Ministry of the Environment, Conservation and Parks, 2009), (Ministry of Natural Resources and Forestry, 2017), (Ministry of Municipal Affairs and Housing, 2017b), (Ministry of Municipal Affairs and Housing, 2011), (Ministry of Municipal Affairs and Housing, 2020). The Provincial Planning Statement (PPS), 2024 was issued by the Province of Ontario on October 20, 2024, under Section 3 of the *Planning Act*.

The project is defined as a 'major facility' within the PPS, 2024, with major facilities being defined in part as those facilities which may require separation from sensitive land uses. Energy generation facilities and transmission systems are specifically referenced in the major facilities definition.

Major facilities are to be planned and developed to avoid, and if avoidance is not possible, minimise and mitigate any potential adverse effects from odour, noise, and other contaminants as per Policy 3.5.1. The project site is designated for industrial use and the project is sited between two existing power generation facilities. Furthermore, Policy 3.5.2 directs that where avoidance is not possible in accordance with Policy 3.5.1, planning authorities shall protect the long-term viability of existing or planned industrial, manufacturing, or other uses that are vulnerable to encroachment. In this regard, the province aims to protect major facilities from encroachment by sensitive uses over the long term.

With respect to infrastructure, Policy 3.1.2 directs that before consideration is given to the development of new infrastructure, the use of existing infrastructure should be optimised and opportunities for adaptive re-use should be considered where feasible. The project represents an expansion of an existing power generation station and will connect to existing infrastructure, being the NGS switchyard, to supply power to the electricity grid. The project site will be developed using existing power generation infrastructure and is located on lands associated with power generation. Furthermore, the development of energy facilities to accommodate current and projected needs being is supported by Policy 3.8.1, which reads as follows:

3.8.1 Planning authorities should provide opportunities for the development of energy supply including electricity generation facilities and transmission and distribution systems, energy storage systems, district energy, renewable energy systems, and alternative energy systems, to accommodate current and projected needs.

Policy 4.2.1 e) of the PPS directs planning authorities to protect, improve or restore the quality and quantity of water by implementing necessary restrictions on development and site alteration to protect all municipal drinking water supplies and designated vulnerable areas, including IPZs. There are no significant drinking water threats associated with the A.L. Dafoe Intake given associated low vulnerability scores, and as such there are no prohibitions or restrictions related to development outlined in the CSPP.

The CSPP notes that moderate and low drinking water threats can occur within the A.L. Dafoe IPZ, with the most common (low and moderate) threats being associated with the road salt application; the transportation, handling, and storage of liquid fuel; and septic systems and holding tanks, among others. Given the lower vulnerability scores of the Intakes, being 7.0 and 5.6 for IPZs 1 and 2 respectively, no land uses are prohibited or regulated according to the CSPP.

5.2.6.3 Contaminated Sites

As noted in **Section 5.2.2**, Phase 1 and Phase 2 Environmental Site Assessments were completed in June and October 2024, respectively. The results of these site assessments did not identify any contamination (aggregate, landfill, or contamination). In the Phase 2 ESA, soil samples were collected and analysed for PHC fractions 1–4, benzene, toluene, BTEX, metals, VOCs, PCBs, and organic pesticides. All analytical results for soil samples were below MECP standards (Terrapex Environmental Ltd., 2024a) (Terrapex Environmental Ltd., 2024b). It is assumed the findings of the Environmental Site Assessments are representative of the project site and conditions of the construction laydown areas are consistent with these findings.

Despite the industrial use of this area, there have been no reports of contamination at the time of report publication.

5.2.6.4 Resources

The project site is designated as a Rural Area in the LAOP and further designated for industrial uses in the NOP and is not part of the prime agricultural area as defined in the PPS, 2024. There are no forest (Government of Ontario, 2023a), fishery, or game resources within the project site. While agricultural and forested lands are present beyond the industrial infrastructure directly surrounding the project site, these lands are not part of the prime agricultural area.

There are no pits, quarries, (Government of Ontario, 2023b), aggregate resources (Town of Greater Napanee, 2014) or active petroleum resources (Oil, Gas and Salt Resources Corporation, n.d.) within the project site.

5.2.6.5 Socio-Economic

Located in Lennox and Addington County, the Town of Greater Napanee consists of five wards with a recorded population of 16,879 in 2021 (Statistics Canada, 2021). Residential properties are located more than 1 km from the project site and several small communities or hamlets are located more than 3 km from the project site (**Figure 5-6**).

The land immediately surrounding the project site is occupied by the existing LGS to the west, existing HONI switchyard/transmission lines, LGS sewage lagoons, the Town of Greater Napanee Pumping Station, and a wetland to the north, the Napanee BESS, actively farmed fields, and rural residential to the east, and Highway 33 to the immediate south of the project site.

The nearest emergency services to the project site are in Bath and Napanee, Ontario. There are no emergency services within 5 km of the project site.

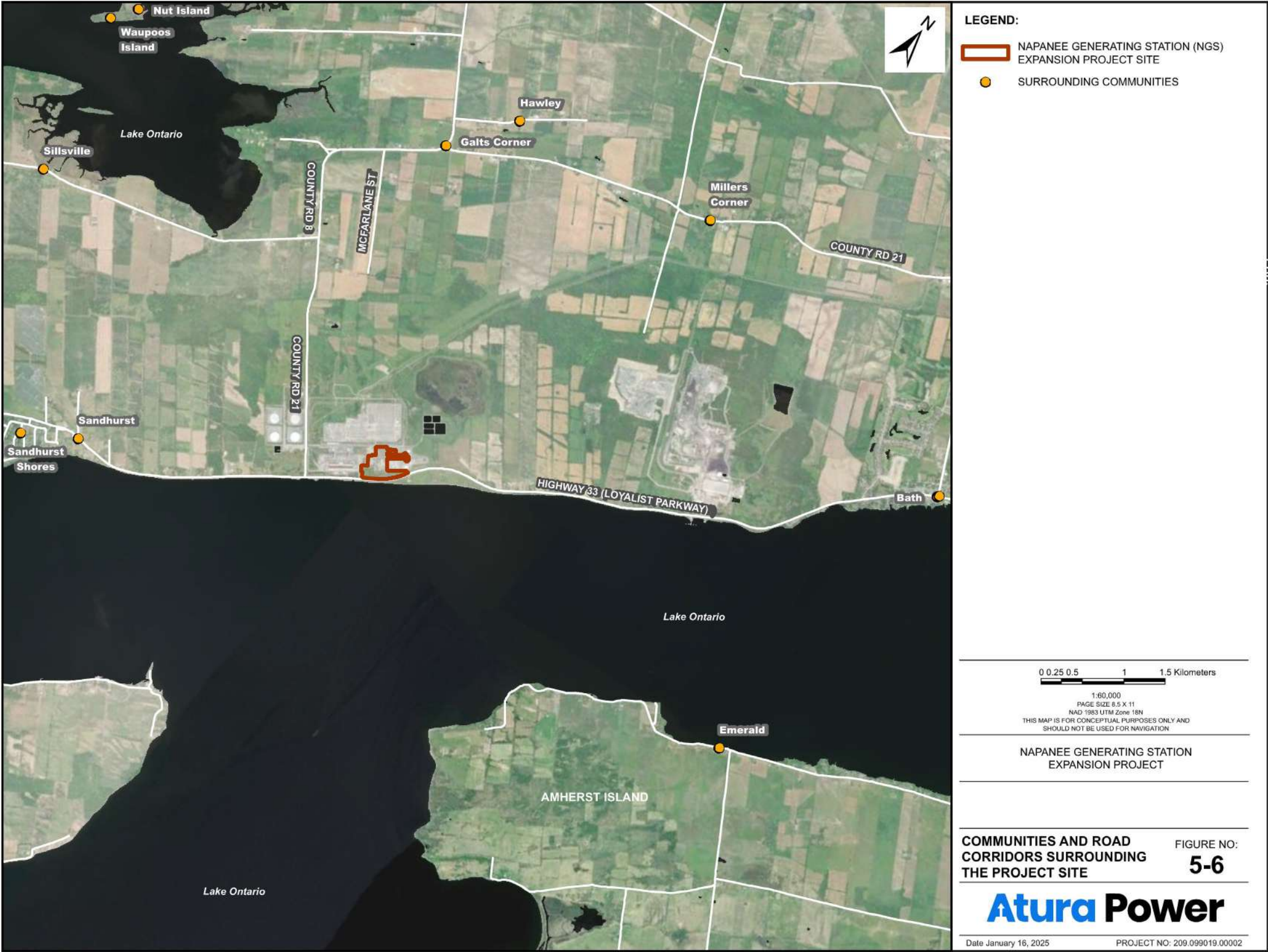
The nearest landfill, Ridge Landfill, is owned and operated by Waste Connections of Canada and located in Blenheim, Ontario.

5.2.6.6 Recreation

There are no recreational areas near the project site. Approximately 4 km west of the project site is the community of Sandhurst which consists of a waterfront park and recreational area.

Recreational offerings in the Bath area, the closest neighbouring township to the project site by approximately 7 km, include a self guided heritage walking tour, golf course, and park spaces (e.g., Heritage Park) on Lake Ontario, and a variety of passive and active recreational areas. The Great Lakes Waterfront Trail, an on-road cycling route is located along Highway 33.

Figure 5-6: Communities and Road Corridors Surrounding the Project Site



5.2.6.7 Roads

The project site is located adjacent to Highway 33 (Loyalist Parkway), a provincially maintained highway. Highway 33 runs along the north shore of Lake Ontario from County Rd. 21 east through Bath to Millhaven at County Rd. 4 and provides direct access to the project site. Atura Power has 'adopted' a section of Highway 33 near the project site. Adopt-a-Highway is a public service program by the MTO that is upheld by the municipality of Lennox & Addington. The program provides an opportunity for volunteers to enhance local litter collection activities by collecting litter along county road allowances.

County Rd. 21 runs from the Highway 401 interchange with County Rd.41 (Centre St.) south via Centre St., County Rd.8 and County Rd. 21 to Highway 33. This corridor carries traffic travelling to the project site from communities north and west of Napanee.

5.2.7 Heritage and Cultural Environment

5.2.7.1 Archaeology

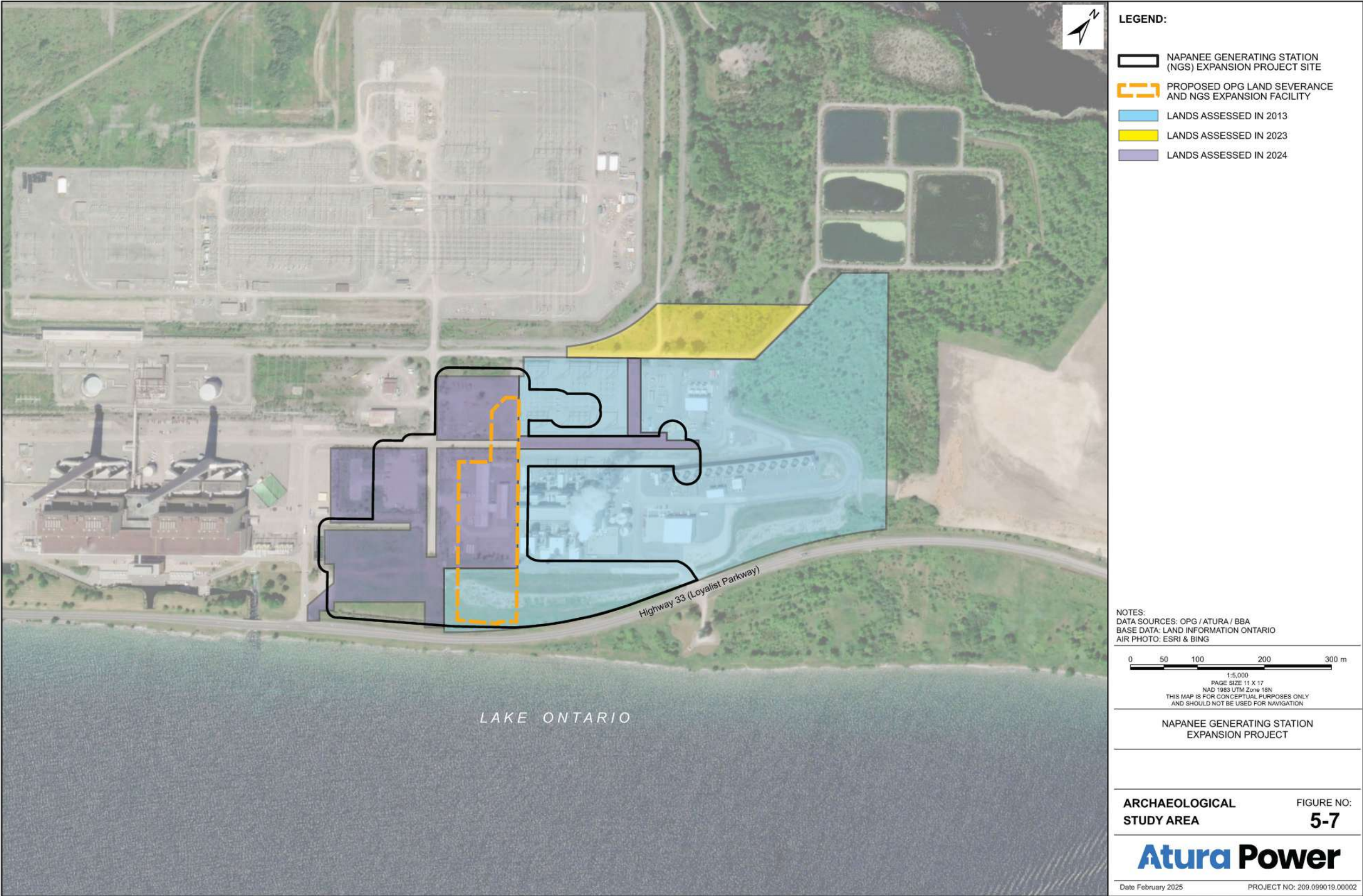
A Stage 1 & 2 Archaeological Assessment was completed for the proposed project on part of Lots 18, 19, and 20 in Concession 1 of the geographic Township of South Fredericksburgh, County of Lennox & Addington, now in the Municipality of the Town of Greater Napanee. The assessment was conducted under Project Information Form # P025-0903-2024 and in compliance with the 2011 *Standards and Guidelines for Consultant Archaeologists* (Ministry of Tourism and Culture, 2011), as used by the Ministry of Citizenship and Multiculturalism (MCM). The MCM shared notice and an accompanying letter on March 18, 2025, indicating that the Stage 1 & 2 Archaeological Assessment has been deemed compliant with ministry requirements for archaeological fieldwork and reporting, and has been entered into the *Ontario Public Register of Archaeological Reports*.

The Stage 1 assessment determined that, even though some parts of the archaeological study area have experienced high degrees of prior soil disturbance related to various types of construction activities, large portions of the archaeological study area are considered to have high or moderate archaeological potential based on criteria described in detail in the Ministry's *Standards and Guidelines*.

As stated in Standard 1 of Section 1.3 in the *Standards & Guidelines*, if the Stage 1 evaluation indicates there is archaeological potential anywhere within the archaeological study area, then a Stage 2 assessment is required. In this case, it was recommended that the Stage 2 assessment consist of test-pit survey of any areas with high or moderate archaeological potential, while areas such as compacted gravel storage yards and access roads would be exempt from test-pit survey due to low archaeological potential (see **Figure 5-7**).

The Stage 2 test-pit survey was conducted as recommended. Despite the use of 5 m and 10 m survey grid intervals in the areas with high and moderate archaeological potential, nothing of cultural heritage value or interest was recovered or observed. In addition to the test-pit survey, Stage 2 archaeological monitoring of borehole drilling also took place for five boreholes within the archaeological study area. The monitoring was conducted according to instructions from MCM, but nothing of archaeological or cultural heritage significance was discovered.

Figure 5-7: Archaeological Assessment Study Area



As Indigenous peoples lived in this vicinity for thousands of years before European settlement, it is likely that these areas had High Archaeological Potential originally. However, the construction activities related to building the various components of the NGS and earlier features of the LGS would have greatly decreased or possibly eliminated any archaeological potential in those locations. As a result, they are currently considered to be areas of Low Archaeological Potential. Based on the results of the Stage 2 archaeological assessment, no further assessment is recommended, as per Section 7.8.4 Standard 3 of the *Standards and Guidelines for Consultant Archaeologists* (Northeastern Archaeological Associates Ltd., 2024).

5.2.7.2 Heritage and Culture

The Upper Gap Aboriginal Peoples' Cemetery located at 7140 Highway 33, adjacent to the south of the project site, includes a gravel driveway off Highway 33 which leads to a circular parking area that is demarcated by stones and an open green space area. Access to the associated historic plaques is available off the parking area. The Upper Gap Aboriginal Peoples' Cemetery and surrounding area consists of open space with natural topography including the rocky shoreline, natural vegetative growth and water features including Lake Ontario and associated creeks. There are pedestrian paths made from cuttings that lead to the shoreline.

5.2.7.3 Built Heritage and Cultural Heritage Landscapes

Built heritage and cultural landscapes were identified using the Screening Checklist: Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage (Ministry of Tourism, Culture and Sport, 2022). Based on the screening, the project site is not considered part of a potential or identified cultural heritage landscape. The screening confirmed that there are no 'listed' (non-designated) or designated heritage properties on the Municipal Heritage Register located within or adjacent to the project site (MHBC, 2024). Furthermore, the Town of Greater Napanee confirmed on March 20, 2024, that the Town did not intend to designate any properties as having heritage value within the project site or adjacent thereto at time of the screening. The screening identified an Ontario Heritage Foundation (currently the Ontario Heritage Trust (OHT)) plaque adjacent to the project site commemorating the Upper Gap Archaeological Site as well as the Upper Gap Aboriginal Peoples' Cemetery located at 7140 Highway 33 (shown on **Figure 5-8**). These features were also identified as a potential Indigenous Cultural Landscape as a result of engagement with Mississaugas of Scugog Island First Nation. As the project site is adjacent to a known burial site and/or cemetery, a Cultural Heritage Impact Assessment was required to assess potential effects on recognised and potential cultural heritage resources (which include built heritage and cultural heritage landscapes) and to assess alternative development options, mitigation and conservation measures as required (MHBC, 2024).

The site has been recognised by the Province of Ontario with a provincial plaque overseen by the OHT which is located 1.2 km east of County Rd. 21 on the south side of Highway 33 (Ontario Heritage Trust, 2024). The site is located east of the project and the OHT describes it as follows, "the Parkway has been curved around the site of a native longhouse and burial ground dating to about A.D. 800. The site was important because it viewed the gap between the islands offshore" (Ontario Heritage Trust, 2024). Although the original researchers described structural evidence of longhouses, it is possible that the findings were from "short-houses" or another type of structure.

Figure 5-8: Cultural Heritage Resources



In review of the statements provided with the plaques, the following can be identified as heritage attributes relative to real property include:

- Situation of the site along the shoreline and associated natural topography;
- Curved delineation of western boundary due to Highway 33 to accommodate protection of the property; and
- Vista from the property looking towards the Upper Gap between Amherst Island and Cressy Point.

6. Environmental Screening

6.1 Review of Screening Criteria

Appendix B of the Guide includes a Screening Criteria Checklist that needs to be applied to every project subject to the Environmental Screening Process (see **Section 6.2**). As the proponent, Atura Power is required to identify potential negative environmental effects resulting from the project as it relates to each screening criterion based on current knowledge or preliminary investigations.

The Screening Criteria used to identify potential negative effects of the project are listed under the following categories:

- Surface and Ground Water
- Land
- Air and Noise
- Natural Environment
- Resources
- Socio-economic
- Heritage and Culture
- Indigenous
- Other

The Guide states that, in cases where there is uncertainty about the project's potential for negative effects pertaining to a select criterion within any of the nine categories, further studies may be undertaken to accurately identify and understand the potential for effects.

6.2 Screening Checklist

The Screening Criteria Checklist as presented in Appendix B of the Guide provides the following questions that must be answered with 'Yes' or 'No' based on whether the project has potential for negative effects on these criteria prior to any mitigation being applied. Additional information is also provided to support the selected response. Each criterion is based on a question which is prefaced with the phrase: "Will the project..."

Surface and Ground Water

Criterion	Yes	No	Additional Information
1.1 Have negative effects on surface water quality, quantities, or flow?	X		The project requires changing the grading of land used for construction laydown, project components and a berm may minimally increase runoff flow to channelized surface water features that could affect water quality. Refer to Section 7.1 for additional details.
1.2 Have negative effects on ground water quality, quantity, or movement?	X		While groundwater is close to the surface north of the project site and below the bedrock surface at the southwest corner, the construction and operation of the project is not expected to alter these conditions. However, the addition of fill and topsoil as part of the berm expansion has the potential to affect groundwater flow and levels. Refer to Section 7.2 for additional details.
1.3 Cause significant sedimentation, soil erosion or shoreline or riverbank erosion on or off-site?		X	The project is not anticipated to cause significant sedimentation and erosion as the project is on relatively stable land and is not adjacent to a shoreline or riverbank. Section 2.1 provides details on the stormwater management system, including erosion and sediment control (ESC) measures, for the project which is subject to an ECA (Industrial Sewage Works) amendment and municipal Site Plan Approval amendment.
1.4 Cause potential negative effects on surface or ground water from accidental spills or releases to the environment?	X		Although not anticipated, the potential for accidental spills and releases into the environment due to equipment malfunction or human error is possible during construction and operations. Refer to Sections 2.3.2.3, 7.1 and 7.2 for additional details.

Land

Criterion	Yes	No	Additional Information
2.1 Have negative effects on residential, commercial, or institutional land uses within 500 metres of the site?		X	No land is designated for residential, commercial, or institutional use within 500 m of the site.
2.2 Be inconsistent with the Provincial Policy Statement, provincial land use or resource management plans?		X	The proposed project is consistent with the Provincial Planning Statement, 2024 as discussed in Section 5.2.6.2. No other Provincial Plans are applicable to the location of the project site.
2.3 Be inconsistent with municipal land use policies, plans and zoning bylaws?		X	The proposed project conforms to municipal land use policies and zoning regulations. As discussed in Section 3.4, a Minor Variance will be sought through a future approval process with the Town of Greater Napanee to meet minimum interior side yard requirements.
2.4 Use hazard lands or unstable lands subject to erosion?	X		A portion of the project site is located on a slope within regulated lands by the CRCA. Atura Power will submit an application to CRCA to permit work within the regulated area (see Section 3.3).
2.5 Have potential negative effects related to the remediation of contaminated land?		X	As detailed in Section 5.2.2 and 5.2.6.3, studies conducted in 2024 determined there are no contaminated areas on-site. As such, the proposed project works will not require remediation of contaminated land.

Air and Noise

Criterion	Yes	No	Additional Information
3.1 Have negative effects on air quality due to emissions of nitrogen dioxide, sulphur dioxide, suspended particulates, or other pollutants?	X		The project has the potential to affect the local air quality during operations and maintenance phase as well as construction phase. Refer to Section 7.3 for additional details.
3.2 Cause negative effects from the emission of greenhouse gases (CO ₂ , methane)?	X		The project has the potential to emit greenhouse gases (GHGs) during operations and maintenance phase as well as construction phase. Refer to Sections 7.3 and 7.10 for additional details.
3.3 Cause negative effects from the emission of dust or odour?	X		The project has the potential to emit dust during construction phase. Refer to Section 7.3 for additional details.
3.4 Cause negative effects from the emission of noise?	X		The project may generate increased noise during construction, operations, and maintenance. Refer to Section 7.4 for additional details.

Natural Environment

Criterion	Yes	No	Additional Information
4.1 Cause negative effects on rare, threatened, or endangered species of flora or fauna or their habitat?		X	Proposed project works will take place predominantly within lands that have been built-up and industrialised or are comprised of cultural vegetation communities (i.e., vegetation that has been planted, treated or heavily affected by human disturbance). Natural heritage field studies conducted in 2023 and 2024 found no evidence of rare, threatened, or endangered species within the project site.
4.2 Cause negative effects on protected natural areas such as Areas of Natural and Scientific Interest (ANSIs), Environmentally Sensitive Areas or other significant natural areas?		X	No protected natural areas such as ANSIs, Environmentally Sensitive Areas or other significant natural areas are present on or immediately adjacent to the project site.
4.3 Cause negative effects on wetlands?		X	There will be no negative effects on wetlands; no wetlands are present on or within 30 m of the project site.
4.4 Have negative effects on wildlife habitat, populations, corridors, or movement?	X		Proposed project works will result in a small permanent loss of isolated cultural communities (i.e., vegetation that has been planted, treated or heavily affected by human disturbance) from within the industrial portion of the site and temporary disturbance to other cultural communities and wildlife as a result of noise and dust during construction. Refer to Section 7.5 for additional details.
4.5 Have negative effects on fish or their habitat, spawning, movement, or environmental conditions e.g., water temperature, turbidity, etc.)?	X		Construction activities may result in some sedimentation and soil erosion that could affect fish habitat. Section 7.5 provides additional detail specific to fish, fish habitat, and spawning.
4.6 Have negative effects on migratory birds, including effects on their habitat or staging areas?	X		Proposed project works will result in a small permanent loss of isolated cultural communities (i.e., vegetation that has been planted, treated or heavily affected by human disturbance) from within the industrial portion of the site and temporary disturbance to other cultural communities and wildlife as a result of noise and dust during construction. Refer to Section 7.5 for additional details.
4.7 Have negative effects on locally important or valued ecosystems or vegetation?		X	Proposed project works will take place entirely within lands that have been built-up and industrialised. Vegetation community mapping and flora surveys found no evidence of locally important or valued ecosystems or vegetation on or adjacent to the project site.

Resources

Criterion	Yes	No	Additional Information
5.1 Result in inefficient (below 40%) use of a non-renewable resource (efficiency is defined as the ratio of output energy to input energy, where output energy includes electricity produced plus useful heat captured)?	X		The project is being designed to use the most efficient technology available for a simple cycle operation and will provide dependable generation capacity. In this way the project will optimise use of non-renewable resources (natural gas) and only operate as necessary (as determined by the IESO). See Sections 1.2 and 2.3.2 for more information.
5.2 Have negative effects on the use of Canada Land Inventory Class 1-3, specialty crop or locally significant agricultural lands?		X	Proposed project works will take place predominantly within lands that have been built-up and industrialised. No effects on agricultural lands will occur.
5.3 Have negative effects on existing agricultural production?		X	Proposed project works will take place predominantly within lands that have been built-up and industrialised. No effects on agricultural production will occur.
5.4 Have negative effects on the availability of mineral, aggregate or petroleum resources?		X	Proposed project works will take place predominantly within lands that have been built-up and industrialised. No effects on mineral, aggregate or petroleum resources will occur.
5.5 Have negative effects on the availability of forest resources?		X	Proposed project works will take place predominantly within lands that have been built-up and industrialised. No effects on forest resources will occur.
5.6 Have negative effects on game and fishery resources, including negative effects caused by creating access to previously inaccessible areas?		X	Proposed project works will take place predominantly within lands that have been built-up and industrialised. No effects on game and fishery resources will occur.

Socio-economic

Criterion	Yes	No	Additional Information
6.1 Have negative effects on neighbourhood or community character?		X	No effects on neighbourhood or community character are anticipated as proposed project works will take place predominantly within lands that have been industrialised. The communities of Sandhurst and Bath are approximately 3 km and 5 km away, respectively.
6.2 Have negative effects on local businesses, institutions, or public facilities?		X	No direct negative effects on local businesses, institutions or public facilities will occur as proposed project works will take place entirely within lands that have been industrialised.
6.3 Have negative effects on recreation, cottaging or tourism?	X		The project site is not located within a cottaging or tourism area. Proposed project works will take place predominantly within lands that have been industrialised. However, there is the potential for the project to affect the cycling route on Highway 33 due to increased dust and traffic during construction. Refer to Section 7.6 for additional details.
6.4 Have negative effects related to increases in the demands on community services and infrastructure?		X	The proposed project will use services already employed by the existing NGS and will not increase demands on municipal services and infrastructure.
6.5 Have negative effects on the economic base of a municipality or community?		X	The proposed project will not negatively affect the economic base of a municipality or community. There may be a benefit to the community through increased economic activity during construction.
6.6 Have negative effects on local employment and labour supply?		X	No negative effects on local employment and labour supply are anticipated. During construction, the project is expected to employ approximately 250 personnel and approximately five personnel during operations. These numbers are not anticipated to measurably affect local employment levels of labour supply.
6.7 Have negative effects related to traffic?	X		There are no anticipated effects during operation as the project will use the existing NGS entrance road and staffing and vehicular traffic will not substantively differ from the existing NGS operational requirements. However, there is the potential for the project to temporarily increase local traffic during construction. Refer to Section 7.6 for additional details.
6.8 Cause public concerns related to public health and safety?	X		The project will meet all applicable regulatory standards and requirements. However, Atura Power recognises that there has been increased public interest on other similar projects and as such, acknowledges the potential for the public to have questions and concerns related to health and safety. Section 8 and Appendix C provide details on Atura Power's engagement program and response to public questions and comments to date.

Heritage and Culture

Criterion	Yes	No	Additional Information
7.1 Have negative effects on heritage buildings, structures or sites, archaeological resources, or cultural heritage landscapes?	X		The Stage 2 Archaeological Assessment did not find any archaeological resources within project site. However, as with any project site, there is always some potential for the presence of deeply buried archaeological or cultural heritage resources. Refer to Section 7.7 for additional details.
7.2 Have negative effects on scenic or aesthetically pleasing landscapes or views?	X		Proposed project works will take place predominantly within lands that have been industrialised and will not result in taller structures. However, during the project construction phase there is potential for construction activities to affect the scenic visual landscape along Highway 33. Refer to Section 7.8 for additional details.

Indigenous Communities

Criterion	Yes	No	Additional Information
8.1 Cause negative effects on First Nations or other Aboriginal communities?		X	Proposed project works will take place predominantly within lands that have been industrialised. Indigenous communities were given the opportunity to review a draft of the ERR and technical study reports. At the time of writing, no negative effects to Indigenous communities are anticipated as result of the proposed project. Engagement with Indigenous communities is ongoing and will continue beyond the Environmental Screening Process. Atura Power is committed to working collaboratively with Indigenous communities in the development of mitigation strategies to avoid or reduce effects of the project. Engagement activities to date are documented in Section 8.

Other

Criterion	Yes	No	Additional Information
9.1 Result in the creation of waste materials requiring disposal?	X		Waste materials will be generated as a result of construction activities and maintenance activities during operations. Refer to Section 7.9 for additional details.
9.2 Cause any other negative environmental effects not covered by the criteria outlined above?	X		Potential effects on climate change associated with the project and potential effects of climate change on the project have been considered. Refer to Section 7.10 for additional details.

6.2.1 Screening Results

Of the nine categories listed above, there is potential for negative effects prior to the implementation of mitigation measures associated with the following categories:

- Surface and Ground Water;
- Land;
- Air and Noise;
- Resources;
- Natural Environment;
- Socio-economic;
- Heritage and Culture; and
- Other.

Section 7 provides further details on the potential negative effects related these categories.

6.3 Consideration of the Ministry of the Environment, Conservation and Park's Areas of Interest

In a letter to Atura Power dated April 24, 2024, the MECP requested consideration of the Ministry's Areas of Interest (v. Aug 2022) with respect to the environmental effects associated with the project and consequent Environmental Screening Process. **Table 6-1** provides Atura Power's consideration of these MECP Areas of Interest as they relate to the project.

Table 6-1: Consideration of MECP’s Areas of Interest

MECP’s Area of Interest	Consideration in Relation to the Project
Planning and Policy	
Applicable plans and policies should be identified in the report, and the proponent should describe how the proposed project adheres to the relevant policies in these plans. • Projects located in MECP Central, Eastern or West Central Region may be subject to A Place to Grow: Growth Plan for the Greater Golden Horseshoe (2020). • Projects located in MECP Central or Eastern Region may be subject to the Oak Ridges Moraine Conservation Plan (2017) or the Lake Simcoe Protection Plan (2014). • Projects located in MECP Central, Southwest or West Central Region may be subject to the Niagara Escarpment Plan (2017). • Projects located in MECP Central, Eastern, Southwest or West Central Region may be subject to the Greenbelt Plan (2017). • Projects located in MECP Northern Region may be subject to the Growth Plan for Northern Ontario (2011). The <i>Provincial Policy Statement</i> (2020) contains policies that protect Ontario’s natural heritage and water resources. Applicable policies should be referenced in the report, and the proponent should describe how the proposed project is consistent with these policies. In addition to the provincial planning and policy level, the report should also discuss the planning context at the municipal and federal levels, as appropriate.	Both the Provincial Policy Statement, 2020 and the Growth Plan for the Greater Golden Horseshoe, 2020 were repealed on October 20, 2024, and replaced with the PPS, 2024. The project is consistent with the Provincial Planning Statement, 2024, the LAOP, and NOP. See Section 5.2.6.2 for additional details.
Source Water Protection	
The Ontario <i>Clean Water Act</i>, 2006 (CWA) aims to protect existing and future sources of drinking water. To achieve this, several types of vulnerable areas have been delineated around surface water intakes and wellheads for every municipal residential drinking water system that is located in a source protection area. These vulnerable areas are known as a Wellhead Protection Areas (WHPAs) and surface water IPZs. Other vulnerable areas that have been delineated under the CWA include Highly Vulnerable Aquifers (HVAs), Significant Groundwater Recharge Areas (SGRAs), Event-Based Modelling Areas (EBAs), and Issues Contributing Areas (ICAs). Source protection plans have been developed that include policies to address existing and future risks to sources of municipal drinking water within these vulnerable areas. Projects that are subject to the Ontario <i>Environmental Assessment Act</i> that fall under a Class EA, or one of the Regulations, have the potential to impact sources of drinking water if they occur in designated vulnerable areas or in the vicinity of other at-risk drinking water systems (i.e., systems that are not municipal residential systems). Projects may include activities that, if located in a vulnerable area, could be a threat to sources of drinking water (i.e., have the potential to adversely affect the quality or quantity of drinking water sources) and the activity could therefore be subject to policies in a source protection plan. Where an activity poses a risk to drinking water, policies in the local source protection plan may impact how or where that activity is undertaken. Policies may prohibit certain activities, or they may require risk management measures for these activities. Municipal Official Plans, planning decisions, Class EA projects (where the project includes an activity that is a threat to drinking water) and prescribed instruments must conform with policies that address significant risks to drinking water and must have regard for policies that address moderate or low risks. • The proponent should identify the source protection area and should clearly document how the proximity of the project to sources of drinking water (municipal or other) and any delineated vulnerable areas was considered and assessed. Specifically, the report should discuss whether the project is located in a vulnerable area and provide applicable details about the area. • If located in a vulnerable area, proponents should document whether any project activities are prescribed drinking water threats and thus pose a risk to drinking water (this should be consulted on with the appropriate Source Protection Authority). Where an activity poses a risk to drinking water, the proponent must document and discuss in the report how the project adheres to or has regard to applicable policies in the local source protection plan. This section should then be used to inform and be reflected in other sections of the report, such as the identification of net positive/negative effects of alternatives, mitigation measures, evaluation of alternatives etc. • While most source protection plans focused on including policies for significant drinking water threats in the WHPAs and IPZs it should be noted that even though source protection plan policies may not apply in HVAs, these are areas where aquifers are sensitive and at risk to impacts and within these areas, activities may impact the quality of sources of drinking water for systems other than municipal residential systems.	According to the Source Protection Information Atlas (Ministry of the Environment, Conservation and Parks, 2024b), the project site is located within the Cataraqui Source Protection Area and is not located in a vulnerable area. • Source Protection Area: Cataraqui • Wellhead Protection Area: No • Wellhead Protection Area (WHPA-E): No • Intake Protection Zone: 1, Score 7 • Intake Protection Zone: 2, Score 5.6 • Issue Contributing Area: No • Significant Groundwater Recharge Area: No • Highly Vulnerable Aquifer: No • Event Based Area: No • Wellhead Protection Area Q1: No • Wellhead Protection Area Q2: No • Intake Protection Zone Q: No As discussed in Section 5.2.1, the southern portion of the project site is located within IPZs 1 and 2 associated with the A.L. Dafoe Intake, a source of municipal drinking water. As CRCA is the Source Protection Authority for the area, Atura Power is engaging with them, as well as the Town of Greater Napanee and the MECP, to address comments and concerns, and that protection of drinking water requirements are met. Consultation with these authorities is ongoing (see Section 8.4 and 8.5) and the stormwater management system is subject to municipal Site Plan Approval amendment and MECP review and approval (Section 3.1 and 3.4).

MECP's Area of Interest	Consideration in Relation to the Project
- In order to determine if this project is occurring within a vulnerable area, proponents can use Source Protection Information Atlas, which is an online mapping tool available to the public. Note that various layers (including WHPAs, WHPA-Q1 and WHPA-Q2, IPZs, HVAs, SGRAs, EBAs, ICAs) can be turned on through the "Map Legend" bar on the left. The mapping tool will also provide a link to the appropriate source protection plan in order to identify what policies may be applicable in the vulnerable area. - For further information on the maps or source protection plan policies which may relate to their project, proponents must contact the appropriate source protection authority. Please consult with the local source protection authority to discuss potential impacts on drinking water. Please document the results of that consultation within the report and include all communication documents/correspondence. <u>More Information</u> For more information on the Ontario <i>Clean Water Act</i>, source protection areas and plans, including specific information on the vulnerable areas and drinking water threats, please refer to Conservation Ontario's website where you will also find links to the local source protection plan/assessment report. A list of the prescribed drinking water threats can be found in Section 1.1 of Ontario Regulation 287/07 made under the Ontario <i>Clean Water Act</i>. In addition to prescribed drinking water threats, some source protection plans may include policies to address additional "local" threat activities, as approved by the MECP.	
Climate Change	
The document "Considering Climate Change in the Environmental Assessment Process" (Guide) is part of the Environmental Assessment program's Guides and Codes of Practice. The Guide sets out the MECP's expectation for considering climate change in the preparation, execution and documentation of environmental assessment studies and processes. The guide provides examples, approaches, resources, and references to assist proponents with consideration of climate change in their study. Proponents should review this Guide in detail. - The MECP expects proponents of projects under a Class EA or EA Act Regulation to: - Consider during the assessment of alternative solutions and alternative designs, the following: - the project's expected production of greenhouse gas emissions and impacts on carbon sinks (climate change mitigation); and - resilience or vulnerability of the undertaking to changing climatic conditions (climate change adaptation). - Include a discrete section in the report detailing how climate change was considered in the EA. How climate change is considered can be qualitative or quantitative in nature and should be scaled to the project's level of environmental effect. In all instances, both a project's impacts on climate change (mitigation) and impacts of climate change on a project (adaptation) should be considered. Please ensure climate change is considered in the report. - The MECP has also prepared another guide to support provincial land use planning direction related to the completion of energy and emission plans. The "Community Emissions Reduction Planning: A Guide for Municipalities" document is designed to educate stakeholders on the municipal opportunities to reduce energy and greenhouse gas emissions, and to provide guidance on methods and techniques to incorporate consideration of energy and greenhouse gas emissions into municipal activities of all types. We encourage you to review the Guide for information.	The IESO is moving forward with a procurement process to meet near, medium, and long-term energy needs while maintaining the province's focus on cost-effective reliability. Part of this process is the province's request for expansion of electricity resources to increase electricity production at existing facilities. Atura Power is responding to this need identified by the IESO through the contract awarded by the IESO as part of the competitive LT1-RFP, in May 2024. Given the recommendations of the IESO and government initiatives, other alternatives were not considered as part of the project, nor are they required as part of the Screening Process being followed for the project. Section 7.10 provides a description of climate change considerations and a qualitative assessment of the project's resiliency to climate change. According to IESO (IESO, 2021) , electricity generation contributes only 3% of Ontario's total GHG emissions. Industries such as transportation and manufacturing produce 38% and 25% of GHG emissions, respectively. By switching to electricity, these sectors can be decarbonised resulting in an overall reduction of GHG emissions; however additional electricity resources are needed. As a low GHG emitting source, the project will become part of the solution to meet the increased electricity demand needed for the broader decarbonisation of the Ontario economy. The project has been designed to limit the negative effects of climate change on the project. A floodplain analysis was conducted to establish existing and future floodline elevations within the stormwater study area associated with the 100-year storm event (which is CRCA's "regulatory storm event" for the area). The study found that no effects on floodline elevations or flow velocities will occur as a result of the project during the regulatory storm event and that the available flood storage will be maintained.

MECP's Area of Interest	Consideration in Relation to the Project
Air Quality, Dust and Noise If there are sensitive receptors in the surrounding area of this project, a quantitative air quality/odour impact assessment will be useful to evaluate alternatives, determine impacts and identify appropriate mitigation measures. The scope of the assessment can be determined based on the potential effects of the proposed alternatives and typically includes source and receptor characterisation and a quantification of local air quality impacts on the sensitive receptors and the environment in the study area. The assessment will compare to all applicable standards or guidelines for all contaminants of concern. Please contact this office for further consultation on the level of Air Quality Impact Assessment required for this project if not already advised. If a quantitative Air Quality Impact Assessment is not required for the project, the MECP expects that the report contain a qualitative assessment which includes: • A discussion of local air quality including existing activities/sources that significantly impact local air quality and how the project may impact existing conditions; • A discussion of the nearby sensitive receptors and the project's potential air quality impacts on present and future sensitive receptors; • A discussion of local air quality impacts that could arise from this project during both construction and operation; and • A discussion of potential mitigation measures. As a common practice, "air quality" should be used an evaluation criterion for all road projects. Dust and noise control measures should be addressed and included in the construction plans to ensure that nearby residential and other sensitive land uses within the study area are not adversely affected during construction activities. The MECP recommends that non-chloride dust-suppressants be applied. For a comprehensive list of fugitive dust prevention and control measures that could be applied, refer to <i>Cheminfo Services Inc. Best Practices for the Reduction of Air Emissions from Construction and Demolition Activities</i> report prepared for Environment Canada (March 2005). The report should consider the potential impacts of increased noise levels during the operation of the completed project. The proponent should explore all potential measures to mitigate significant noise impacts during the assessment of alternatives.	Section 7.3 provides an assessment of the potential effects of the project on air quality. Measures for reducing any potential effects of dust emissions during construction include the use of well-maintained construction equipment, dust suppression techniques, and adherence to recommended best practices as identified in the CEMP. These effects are expected to be of short duration and unlikely to have long-lasting effects. During operations, emissions from the project are predicted to be within applicable MECP AAQC and CAAQS. As noted in Section 7.3.3, the cumulative concentrations for COCP attributed to the project are considered negligible, with no mitigation measures required. Additional detail on the assessment is provided in the Air Quality Technical Report (IEC, 2025b). The project is subject to MECP approval for operational air emissions and will comply with O. Reg. 419/05. Noise during construction will be managed using the best practices summarised in Section 7.4.3, including development of a community noise complaints and complaint response procedure. An assessment of increased noise locally from the construction workforce predicted that the incremental increase over baseline conditions would be imperceptible. In terms of noise during operations, the project has been assessed under a worst-case scenario in accordance with the MECP requirements as outlined in MECP Publication NPC-300. Noise controls as outlined in Section 7.4.3 have been designed into the project to comply with NPC-300 sound level limits. It is standard practice for the MECP to require an acoustic audit be completed once the facility is operational to maintain appropriate sound level limits.
Ecosystem Protection and Restoration Any impacts to ecosystem form and function must be avoided where possible. The report should describe any proposed mitigation measures and how project planning will protect and enhance the local ecosystem. Natural heritage and hydrologic features should be identified and described in detail to assess potential impacts and to develop appropriate mitigation measures. The following sensitive environmental features may be located within or adjacent to the study area: • Key Natural Heritage Features: Habitat of endangered species and threatened species, fish habitat, wetlands, Areas of Natural and Scientific Interest (ANSIs), significant valley lands, significant woodlands; significant wildlife habitat (including habitat of special concern species); sand barrens, savannahs, and tallgrass prairies; and alvars. • Key Hydrologic Features: Permanent streams, intermittent streams, inland lakes and their littoral zones, seepage areas and springs, and wetlands. • Other natural heritage features and areas such as: vegetation communities, rare species of flora or fauna, Environmentally Sensitive Areas, Environmentally Sensitive Policy Areas, federal and provincial parks and conservation reserves, Greenland systems etc. We recommend consulting with the Ministry of Natural Resources and Forestry (MNR), Fisheries and Oceans Canada (DFO) and your local conservation authority to determine if special measures or additional studies will be necessary to preserve and protect these sensitive features. In addition, for projects located in Central Region you may consider the provisions of the Rouge Park Management Plan if applicable.	Detailed seasonal and species-specific field surveys were conducted to confirm the presence/absence of natural heritage and hydrologic features as described in Section 0. Vegetation communities were mapped and described using ELC for Southern Ontario (Lee, 1998) which is the standard method for this area. Watercourses and fish habitat were identified and assessed during seasonal field investigations of the terrestrial study area. No effects on ecosystem form or functions are anticipated (see Section 7.5). MNR was notified about the project, and no concerns have been raised. CRCA was notified about the project and was engaged with as part of the municipal Site Plan Approval amendment process which is ongoing (see Section 8.5). Due to project design and location (i.e., 15 m set back from east-west drainage channels and implementation of ESC measures), engagement with DFO was not required as the project is not anticipated to result in harm to fish or fish habitat following implementation of mitigation measures (see Section 7.5.3).

MECP's Area of Interest	Consideration in Relation to the Project
Species at Risk	
The Ministry of the Environment, Conservation and Parks has now assumed responsibility of Ontario's Species at Risk program. Information, standards, guidelines, reference materials and technical resources to assist you are found at https://www.ontario.ca/page/species-risk. The Client's Guide to Preliminary Screening for Species at Risk (Draft May 2019) has been attached to the covering email for your reference and use. Please review this document for next steps. For any questions related to subsequent permit requirements, please contact SAROntario@ontario.ca.	Detailed seasonal and species-specific field surveys were conducted to confirm the presence/absence of species at risk as described in Section 5.2.3.1. Through these field investigations no species at risk were identified. No effects on species at risk are anticipated.
Surface Water	
The report must include enough information to demonstrate that there will be no negative impacts on the natural features or ecological functions of any watercourses within the study area. Measures should be included in the planning and design process to ensure that any impacts to watercourses from construction or operational activities (e.g., spills, erosion, pollution) are mitigated as part of the proposed undertaking. Additional stormwater runoff from new pavement can impact receiving watercourses and flood conditions. Quality and quantity control measures to treat stormwater runoff should be considered for all new impervious areas and, where possible, existing surfaces. The ministry's Stormwater Management Planning and Design Manual (2003) should be referenced in the report and utilised when designing stormwater control methods. A Stormwater Management Plan should be prepared as part of the Environmental Screening Process that includes: • Strategies to address potential water quantity and erosion impacts related to stormwater draining into streams or other sensitive environmental features, and to ensure that adequate (enhanced) water quality is maintained • Watershed information, drainage conditions, and other relevant background information • Future drainage conditions, stormwater management options, information on erosion and sediment control during construction, and other details of the proposed works • Information on maintenance and monitoring commitments. Any potential approval requirements for surface water taking or discharge should be identified in the report. A PTTW under the OWRA will be required for any water takings that exceed 50,000 L/day, except for certain water taking activities that have been prescribed by the Water Taking Environmental Activity and Sector Registry (EASR) Regulation – <i>O.Reg. 63/16</i>. These prescribed water-taking activities require registration in the EASR instead of a PTTW. Please review the Water Taking User Guide for EASR for more information. Additionally, an ECA under the OWRA is required for municipal stormwater management works.	Section 7.1 describes potential effects of the project on surface water features and mitigation measures to prevent effects on watercourses. The movement of sediment will be mitigated through the design and implementation of ESC measures which will include the installation of ESC fencing and SWM controls. Regular inspection and maintenance will prevent transport of sediment off-site into adjacent natural features. Future permitting and approvals, including the ECA (Industrial Sewage Works) amendment and municipal Site Plan Approval amendment, will outline mitigation measures to be implemented and will consider stormwater management, ESC, spill prevention, contingency planning, and response measures. Section 3.1.3 provides details on the existing PTTW the project will continue to operate under.
Groundwater	
The status of, and potential impacts to any well water supplies should be addressed. If the project involves groundwater takings or changes to drainage patterns, the quantity and quality of groundwater may be affected due to drawdown effects or the redirection of existing contamination flows. In addition, project activities may infringe on existing wells such that they must be reconstructed or sealed and abandoned. Appropriate information to define existing groundwater conditions should be included in the report. If the potential construction or decommissioning of water wells is identified as an issue, the report should refer to Ontario Regulation 903, Wells, under the OWRA. Potential impacts to groundwater-dependent natural features should be addressed. Any changes to groundwater flow or quality from groundwater taking may interfere with the ecological processes of streams, wetlands, or other surficial features. In addition, discharging contaminated or high volumes of groundwater to these features may have direct impacts on their function. Any potential effects should be identified, and appropriate mitigation measures should be recommended. The level of detail required will be dependent on the significance of the potential impacts. Any potential approval requirements for groundwater taking or discharge should be identified in the report. A PTTW under the OWRA will be required for any water takings that exceed 50, 000 litres (L)/day, with the exception of certain water taking activities that have been prescribed by the Water Taking EASR Regulation – <i>O. Reg.63/16</i>. These prescribed water-taking activities require registration in the EASR instead of a PTTW. Please review the Water Taking User Guide for EASR for more information. Consultation with the railroad authorities is necessary wherever there is a plan to use construction dewatering in the vicinity of railroad lines or where the zone of influence of the construction dewatering potentially intercepts railroad lines.	Groundwater taking is not anticipated for this project. Should dewatering be required to manage groundwater levels during construction, Atura Power will obtain the relevant environmental approvals discussed in Section 3. Groundwater is close to the surface at the north end of the project site and below the bedrock surface at its southwest corner. Groundwater flow is intercepted by the north-south ditch which connects to Lake Ontario and the IPZs. While the actual construction of the project is not expected to alter these conditions, the groundwater being close to the surface is susceptible to contamination from spills and accidents. Refer to Section 7.2 for additional details of potential effects and mitigation measures. There are no railroad lines within the immediate vicinity of construction activities.

MECP's Area of Interest	Consideration in Relation to the Project
Excess Materials Management In December 2019, MECP released a new regulation under the Ontario <i>Environmental Protection Act</i>, titled “On-Site and Excess Soil Management” (O. Reg. 406/19) to support improved management of excess construction soil. This regulation is a key step to support proper management of excess soils, ensuring valuable resources do not go to waste and to provide clear rules on managing and reusing excess soil. New risk-based standards referenced by this regulation help to facilitate local beneficial reuse which in turn will reduce greenhouse gas emissions from soil transportation, while ensuring strong protection of human health and the environment. The new regulation is being phased in over time, with the first phase in effect on January 1, 2021. For more information, please visit https://www.ontario.ca/page/handling-excess-soil. The report should reference that activities involving the management of excess soil should be completed in accordance with O. Reg. 406/19 and the MECP’s current guidance document titled “Management of Excess Soil – A Guide for Best Management Practices” (2014). All waste generated during construction must be disposed of in accordance with ministry requirements.	Section 2.3.1 provides details on construction activities related to ground disturbance and soil management. During construction, the project site will be re-graded to prepare the land for construction laydown areas and the installation of project components. Excavated soil and/or aggregates will be stockpiled within a soils management area located within the project site, south of the power block. The stockpiled material will be used to increase the size of the existing berm per the request of the Town of Greater Napanee. A temporary berm will also be created within a construction laydown area (Figure 1-1) for the duration of construction to stockpile topsoil from the areas to be used for the craft parking lot. Should more than 100 m³ of soil need to be moved off-site, a Notice of the Excess Soils Registry would be filed, and an Assessment of Past Uses, Sampling and Analysis Plan, Soil Characterization Report and Excess Soil Destination Report would be completed, as applicable, in accordance with O. Reg. 406/19. Soil movement would also be tracked and recorded.
Contaminated Sites Any current or historical waste disposal sites should be identified in the report. The status of these sites should be determined to confirm whether approval pursuant to Section 46 of the <i>EPA</i> may be required for land uses on former disposal sites. We recommend referring to the MECP’s D-4 guideline for land use considerations near landfills and dumps. Resources available may include regional/local municipal official plans and data; provincial data on large landfill sites and small landfill sites; ECA information for waste disposal sites on Access Environment. Other known contaminated sites (local, provincial, federal) in the study area should also be identified in the report (Note – information on federal contaminated sites is found on the Government of Canada’s website). The location of any underground storage tanks should be investigated in the report. Measures should be identified to ensure the integrity of these tanks and to ensure an appropriate response in the event of a spill. The ministry’s Spills Action Centre must be contacted in such an event. Since the removal or movement of soils may be required, appropriate tests to determine contaminant levels from previous land uses or dumping should be undertaken. If the soils are contaminated, you must determine how and where they are to be disposed of, consistent with Part XV.1 of the <i>EPA</i> and Ontario Regulation 153/04, Records of Site Condition, which details the new requirements related to site assessment and clean up. Please contact the appropriate MECP District Office for further consultation if contaminated sites are present.	Section 5.2.6.5 identifies the nearest landfill to the project site is located in Blenheim, Ont. There are no active or closed waste disposal sites identified in proximity to the project site in Schedule B – Environmental and Resource Constraint Areas of NOP and there are no known current or historical waste disposal sites within the vicinity of the project site according to the MECP landfill sites map (Ministry of the Environment, Conservation and Parks, 2022). Further, the project site is not located within a known contaminated site according to Federal Contaminated Sites Inventory (Treasury Board of Canada Secretariat, 2024). As detailed in Sections 5.2.2 and 5.2.6.3, studies conducted in July 2024 determined there is no soil contamination present in the project site and no remediation is required. Soil movement for grading and augmentation of the existing berm will be limited to within the project site (Section 2.3.1). Therefore, the project will not interact with contaminated sites.
Servicing, Utilities and Facilities The report should identify any above or underground utilities in the study area such as transmission lines, telephone/internet, oil/gas etc. The owners should be consulted to discuss impacts to this infrastructure, including potential spills. The report should identify any servicing infrastructure in the study area such as wastewater, water, stormwater that may potentially be impacted by the project. Any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports, or disposes of waste must have an ECA before it can operate lawfully. Please consult with MECP’s Environmental Permissions Branch to determine whether a new or amended ECA will be required for any proposed infrastructure. We recommend referring to the ministry’s environmental land use planning guides to ensure that any potential land use conflicts are considered when planning for any infrastructure or facilities related to wastewater, pipelines, landfills, or industrial uses.	Section 2 provides details on servicing, utilities, and facility requirements for the project. The project will not interfere with existing servicing, utilities or facilities as the project will in part rely on the extension of existing infrastructure. The existing transmission system will be able to manage the additional electrical load produced by the project. Natural gas will be supplied through the existing Enbridge pipeline connecting to a new or expanded Enbridge metering station located on the existing NGS site. Enbridge will be responsible for the construction and associated permitting and approvals for the expanded or new natural gas meter station. As discussed in Section 3.4.2, the project is subject to Site Plan Approval amendment by the Town of Greater Napanee, which will include addressing the requirements of all municipal departments, including emergency services. ECA Amendments (Air and Noise and Industrial Sewage Works) are required for the project. Engagement with MECP is ongoing.

MECP's Area of Interest	Consideration in Relation to the Project
Mitigation and Monitoring Contractors must be made aware of all environmental considerations so that all environmental standards and commitments for both construction and operation are met. Mitigation measures should be clearly referenced in the report and regularly monitored during the construction stage of the project. In addition, we encourage proponents to conduct post-construction monitoring to ensure all mitigation measures have been effective and are functioning properly. Design and construction reports and plans should be based on a best management approach that centres on the prevention of impacts, protection of the existing environment, and opportunities for rehabilitation and enhancement of any impacted areas. The proponent's construction and post-construction monitoring plans must be documented in the report.	Mitigation and monitoring are addressed in Section 7 . Section 7.12 summarises commitments Atura Power will implement including outlining mitigation measures and monitoring identified in the ERR in a CEMP for the construction phase of the project and incorporating them into the existing EMP for the operations phase.
Consultation The report must demonstrate how the consultation provisions of the Environmental Screening Process have been fulfilled, including documentation of all consultation efforts undertaken during the planning process. This includes a discussion in the report that identifies concerns that were raised and describes how they have been addressed by the proponent throughout the planning process. The report should also include copies of comments submitted on the project, and the proponent's responses to these comments (as directed by the Guide to Environmental Assessment Requirements for Electricity Projects as amended in February 2024 to include full documentation). Please include the full distribution/consultation list in the documentation.	The engagement program is described in Section 8 and the full Records of Engagement are available in Appendix C , including the project mailing/distribution list.
Environmental Screening Process The purpose of the Screening Report/Environmental Review Report is to document the process followed and the conclusions reached. It should provide clear and complete documentation of the planning process to allow for transparency in decision-making and to allow for its timely review by government agencies, and interested persons, including Indigenous communities. The Environmental Screening Process requires the consideration of the effects of the project on all aspects of the environment (including planning, natural, social, cultural, economic, technical). The report should include a level of detail (e.g. hydrogeological investigations, terrestrial and aquatic assessments, cultural heritage assessments) such that all potential impacts can be identified, and appropriate mitigation measures can be developed. Any supporting studies conducted during the Environmental Screening Process should be referenced and included as part of the report. There are two possible stages of review required under the Environmental Screening Process, depending on the environmental effects of a project: a Screening stage and an Environmental Review stage. • All projects that are subject to the process are required to go through the Screening stage, which requires proponents to apply a series of screening criteria to identify the potential environmental effects of the project. • A more detailed study (an Environmental Review) is required if potential concerns are raised during the Screening stage that could not be readily addressed. Please include in the report a list of all subsequent permits or approvals that may be required for the implementation of the project, including but not limited to, MECP's PTTW, EASR Registrations and ECAs, conservation authority permits, species at risk permits, MTO permits and approvals under federal impact assessment legislation. Proponents are encouraged to circulate a draft of the Screening Report/Environmental Review Report, or relevant sections of the report, to the appropriate agencies and key stakeholders for comment prior to the formal review periods. Ministry guidelines and other information related to the issues above are available at http://www.ontario.ca/environment-and-energy/environment-and-energy . We encourage you to review all the available guides and to reference any relevant information in the report.	The requirements of the Environmental Screening Process are documented in Section 1.3 of this report. In addition to the requirements of the Environmental Screening Process, Atura Power voluntarily shared a draft ERR with Indigenous communities and MECP to offer an additional opportunity to review the project details, the Environmental Screening Process undertaken for the project, and the assessment findings. Comments received on the draft ERR will be responded to and incorporated into this final ERR, where applicable. Supporting studies are identified in Section 4 and the findings and results of the studies are detailed in Sections 5 and 7 . Requirements associated with other permits and approvals are documented in Section 3 .

MECP's Area of Interest	Consideration in Relation to the Project
Notice of Completion	
Once the Screening Report/Environmental Review Report is finalised, the proponent must issue a Notice of Completion providing a minimum 30-day period during which documentation may be reviewed and comment and input can be submitted to the proponent. The Notice of Completion must be sent to the appropriate MECP Regional Office email address. Members of the public, Indigenous communities or agencies with outstanding concerns can submit an elevation request, which requests a higher level of assessment on a project if they have outstanding environmental concerns. In addition, at any point in the Environmental Screening Process, if it is determined that a project is likely to have significant negative environmental effects, and that the scope and scale of these effects are such that a comprehensive EA is warranted, the Minister of the Environment, Conservation and Parks may of his or her own initiative require that a project be made subject to Part II.3 of the Ontario <i>Environmental Assessment Act</i> (a comprehensive EA). If the Minister requires a comprehensive EA, the proponent will be informed in writing, stating reasons for the decision. The proponent may not proceed after following the end of the 30-day comment period provided for in the Notice of Completion if: • an elevation request has been submitted by any interested person including Indigenous communities to the ministry regarding outstanding environmental concerns, or • the Minister has given notice to the proponent requiring that an environmental assessment be prepared. Please ensure that the Notice of Completion advises that outstanding concerns are to be directed to the proponent for a response, and that in the event there are outstanding environmental concerns, elevation requests should be submitted in writing to the Minister and a copy sent to the Director and proponent. Requests should be addressed to: Minister of the Environment, Conservation and Parks 777 Bay Street, 5th Floor Toronto ON M7A 2J3 minister.mecp@ontario.ca and copied to: Director, Environmental Assessment Branch Ministry of the Environment, Conservation and Parks 135 St. Clair Ave. W, 1st Floor Toronto ON, M4V 1P5 EABDirector@ontario.ca For more information on the Environmental Screening Process and environmental assessment requirements for Electricity Projects, please visit the following link: Guide to Environmental Assessment Requirements for Electricity Projects ontario.ca	Details of the Notice of Completion are provided in Section 8.8.

7. Environmental Effects Assessment, Mitigation Measures, Net Effects, and Commitments

This section provides an environmental effects assessment for categories identified through the screening results in **Section 6.2**. The effects assessment contemplates mitigation measures both built into the project design and that Atura Power has committed to. Effects that may occur during the decommissioning phase are expected to be similar to construction effects. For the purposes of the ERR, the assessment of effects during the construction phase also applies to the decommissioning phase.

This section also summarises net effects following the implementation of the mitigation measures. Net effects can range from negligible to significant, with negligible meaning that they are not likely to result in a noticeable change and significant meaning they are severe in magnitude, irreversible, or occur in sensitive areas.

A summary table of net effects and mitigation measures is provided at the end of this section.

7.1 Surface Water

7.1.1 Potential Construction Effects

There is a network of drainage ditches within the project site that could be affected by potential increased erosion and sediment from construction activities. Construction works completed without mitigation such as grading, grubbing, and excavation have the potential to result in the movement of sediment into the drainage features and adjacent habitats. Uncontrolled runoff from the site could transport deleterious substances into the drainage features or increase erosion. There could also be negative effects on surface water quality from accidental spills.

The southern portion of the project site is located within IPZs 1 and 2 associated with the A.L. Dafoe Intake, a source of municipal drinking water as per the CSPP. Accidental spills as a result of human error or equipment malfunction during construction could affect the A.L. Dafoe IPZs 1 and 2.

7.1.2 Potential Operations and Maintenance Effects

Potential operation and maintenance effects may include minimally increased runoff flow rates and volumes, as well as negative effects on surface water quality. The increased flow rates, if unmitigated, would need to be evaluated in terms of effects on downstream conveyance systems and infrastructure. Since the project will implement a SWMP that is subject to MECP review and approval (**Section 3.1.2**) and this will be considered in the detailed design of the facility, there are no potential effects on surface water during operations from runoff. There may be effects on surface water quality as a result of accidental spills on-site during maintenance activities.

7.1.3 Mitigation Measures

The following mitigation measures will be implemented to reduce effects to surface water:

- Install erosion and sediment control devices prior to commencing construction;
- Follow site surfacing plan once construction is completed to minimise erosion and provide sediment control during operations;
- Follow SWMP, which will be developed as described in **Section 3.1.2**;
- Follow Emergency Response Plan; and
- Ongoing engagement with the MECP, Town of Greater Napanee and CRCA (the Source Protection Authority).

7.1.4 Net Effects

Through the implementation of runoff quality controls, runoff from the site will be treated to the level required by MECP, CRCA, the Town of Greater Napanee, and MTO through permitting processes as discussed in **Section 3**. Erosion during and after construction will be minimised through the implementation of ESC measures and site stabilisation. Based on these mitigations, the effects on surface water are expected to be **Negligible**.

7.2 Groundwater

7.2.1 Potential Construction Effects

Based on the proposed project design with large open areas with infrastructure facilities surrounding the main generation components replacing the current warehouse and hardened parking surfaces, a negligible change to local groundwater infiltration rates is predicted. It is anticipated that most structures will be built on grade with only limited piling and foundations constructed to bedrock. Also, dewatering is not planned during construction, but if required it will be done in accordance with applicable permits and regulations (see **Section 3**). Based on the groundwater conditions at the project site and construction activities involving minimal intrusion into bedrock, potential effects on regional flow toward Lake Ontario are anticipated to be negligible. Effects on local groundwater infiltration are also expected to be negligible due to the negligible change in infiltration rates and the negligible change in surface water runoff with the implementation of the SWMP.

The addition of fill and topsoil horizontally and vertically within the soils management area and as part of the berm expansion during the construction phase are expected to result in a locally elevated groundwater levels in the overburden of this area. With respect to the soils management area, groundwater levels will recede to background once the soil is removed. The increased footprint of the berm will result in a permanent, minor change to shallow groundwater in the overburden.

7.2.2 Potential Operations and Maintenance Effects

Potential effects to groundwater during operations and maintenance are limited to accidental spills at surface that may infiltrate groundwater resources and reduce groundwater quality. As discussed in the Groundwater Monitoring In Support of Napanee Generating Station Expansion Electricity Project report (IEC, 2025a), the project has the potential to affect soil and groundwater quality as a result of accidental spills or leaks of contaminants, in particular in the existing ditch along the western boundary of the project site.

7.2.3 Mitigation Measures

The following mitigations will be implemented for the construction and operations phases of the project to reduce or eliminate effects on groundwater quantity and quality:

- Implement an enhanced surface and groundwater monitoring program, including a proactive prevention of contaminants entering the existing ditch along the western boundary of the site and eventually entering Lake Ontario. This monitoring program is to be developed in consultation with MECP, the Town, and CRCA (Source Protection Authority).
- Implement spill prevention, response, and mitigation measures, as discussed in the Emergency Response Plan in **Section 2.3.2.3**.

7.2.4 Net Effects

Based on the minor elevation of groundwater in limited areas, the slow rate of groundwater flow at the project site, and implementation of mitigation measures, the effects to groundwater are anticipated to be **Negligible**.

7.3 Air Quality

7.3.1 Potential Construction Effects

The project has the potential to affect the local air quality during the construction phase. Emissions that are associated with construction activities are SPM from heavy equipment use and earthwork activities, and typical combustion emissions, such as NO_x, SO₂, and CO₂, from construction equipment.

The construction phase will last less than three years (18 to 30 months) and will result in emissions primarily from heavy equipment use and other earthworks activities that generate fugitive dust (e.g., land clearing). As with any construction site, these emissions will be of relatively short duration and unlikely to have any long-lasting effect on the surrounding area.

7.3.2 Potential Operations and Maintenance Effects

Air dispersion modelling was completed using the CALMET/CALPUFF modelling system as required by MECP for facilities such as the project that are located near large bodies of water and have tall stacks. This modelling system accounts for spatial changes in meteorology, variable

surface conditions, and plume interactions with terrain and the water-land interface. All historical dispersion modelling for the existing NGS has been completed using the CALMET/CALPUFF modelling system, as approved by the MECP under sections 7(1) and 13(1) of O. Reg. 419/05.

The air quality assessment for operations and maintenance considered short-term (e.g., 1-hour and 24-hour) as well as long-term (i.e., annual) average emission rates for the project (incremental contribution of the project), and the project in combination with the existing NGS operations and background air quality concentrations (cumulative contribution) for a total of eight assessment scenarios:

- Scenario 1 – Worst-Case 1-Hour Incremental Project Scenario
- Scenario 2 – Normal Operation 1-Hour Incremental Project Scenario
- Scenario 3 – Worst-Case 24-Hour Incremental Project Scenario
- Scenario 4 – Worst-Case Annual Incremental Project Scenario
- Scenario 5 – Worst-Case 1-Hour Cumulative Project Scenario
- Scenario 6 – Normal Operation 1-Hour Cumulative Project Scenario
- Scenario 7 – Worst-Case 24-Hour Cumulative Project Scenario
- Scenario 8 – Worst-Case Annual Cumulative Project Scenario

The CALPUFF air dispersion model was run for each of the ten assessment scenarios to determine the maximum predicted ground-level concentrations at receptor locations for COPCs that were determined to be relevant to the project. The receptor locations ("receiving" point for the modelled COPC) included the closest neighbouring homes (sensitive receptors), points along the project property boundary at 10 m intervals, and nested grid receptors located at intervals in accordance with the Air Dispersion Modelling Guideline for Ontario (Ministry of Environment, Conservation and Parks, 2017). The COPCs chosen for inclusion in the air quality assessment are:

- Nitrogen oxides (NO_x), as nitrogen dioxide (NO₂);
- Carbon monoxide (CO);
- Suspended particulate matter (SPM);
- Particulate matter – inhalable fraction (PM₁₀);
- Particulate matter – fine fraction (PM_{2.5});
- Sulphur dioxide (SO₂);
- Cadmium (Cd);
- Benzo(a)pyrene (BaP);
- Ethylene; and
- Propanal.

For each assessment scenario, the maximum concentrations at receptor locations for each COPC predicted by the CALPUFF model were compared with applicable MECP AAQC (Human Toxicology and Air Standards Section, Technical Assessment and Standards, 2020) and CAAQS (Canadian Council of Ministers of the Environment, 2025) presented in **Table 7-1**.

Table 7-1: Project Air Quality Criteria

COPC	CAS #	Averaging Period	MECP AAQC	CAAQS ¹	
			(µg/m ³)	(ppb)	(µg/m ³)
NO _x (as NO ₂)	10102-44-0	1-Hour	400	42	80
		24-Hour	200	-	
		Annual	-	12.0	23.0
CO	630-08-0	1-Hour	36,200	-	
		8-Hour	15,700		
SPM	-	24-Hour	120		
		Annual	60		
PM ₁₀	-	24-Hour	50		
PM _{2.5}	-	24-Hour	27 ¹	-	27
		Annual	8.8 ¹		8.8
SO ₂	7446-09-5	10-Minute	178	-	
		1-Hour	106	65	173
		Annual	10.6	4.0	10.6
Cd	7440-43-9	24-Hour	0.025	-	
		Annual	0.01		
BaP	50-32-8	24-Hour	0.00005		
		Annual	0.00001		
Ethylene	74-85-1	24-Hour	40		
Propanal	123-38-6	10-Minute	10		

Notes: 1. NO₂ (1-hour avg) statistical form: the 3-year average of the annual 98th percentile of the daily maximum 1-hour average concentrations

NO₂ (annual avg) statistical form: the average over a single calendar year of all 1-hour average concentrations

PM_{2.5} (24-hour avg) statistical form: the 3-year average of the annual 98th percentile of the daily 24-hour average concentrations

PM_{2.5} (annual avg) statistical form: the 3-year average of the annual average of the daily 24-hour average concentrations

SO₂ (1-hour avg) statistical form: the 3-year average of the annual 99th percentile of the SO₂ daily maximum 1-hour average concentrations

SO₂ (annual avg) statistical form: the average over a single calendar year of all 1-hour average SO₂ concentrations

7.3.2.1 Incremental Project Scenarios (Scenarios 1 to 4)

Comparison to AAQC

The maximum predicted 1-hour average incremental concentrations of NO₂ and CO for the worst-case project scenario are 20% and 11% of the applicable criteria, respectively and the maximum predicted 24-hour average incremental concentration of NO₂ is 10% of the applicable criteria. In comparison, the maximum predicted 1-hour average incremental concentrations of NO₂ and CO from the normal operation project scenario are 10% and 0.2% of the applicable criteria, respectively. Maximum predicted incremental concentrations for all other COPC and averaging periods are less than 10% of the applicable MECP criteria for all incremental project scenarios.

The maximum predicted incremental project concentrations occur at or near the west or north property boundary of the project and within the lands occupied by LGS. Concentrations drop off quickly with distance from the project site and are substantially lower at the sensitive receptors.

Comparison to CAAQS

The maximum predicted 1-hour average incremental concentrations of NO₂ are 23% for both the worst-case and normal operation scenarios. The maximum predicted incremental concentrations for PM_{2.5} and SO₂ for the worst-case scenarios are less than 10% of the CAAQS for all averaging periods.

7.3.2.2 Cumulative Project Scenarios (Scenarios 5 to 8)

Comparison to AAQC

The maximum predicted 1-hour average cumulative concentrations of NO₂ and CO are 55% and 92% of the applicable criteria, respectively. In comparison, the maximum predicted 1-hour average cumulative concentrations of NO₂ and CO from the normal operation scenario are 42% and 4.3%, respectively. The significant decrease in the maximum predicted 1-hour CO concentration from the worst-case to normal operation scenario highlights the decreased emissions following startup when the natural gas combustion is more complete. The maximum predicted 24-hour average cumulative concentration of NO₂ and the maximum 8-hour average cumulative concentration of CO are 18% and 28% of the applicable criteria, respectively.

The BaP AAQC is very stringent, and in some instances the background concentrations are greater than this limit. This is the case for the NGS site where the 24-hour and annual background concentrations of BaP represent 80% and 200% respectively of the corresponding MECP AAQCs. The maximum predicted cumulative project concentration of BaP without background (i.e., incremental contribution attributed to the project plus the contribution of the existing NGS operations) are well within the 24-hour and annual average criteria at 1.3% and 0.3%, respectively. The predicted exceedance of the annual AAQC is due to the fact that the existing background concentration in the region is already above the corresponding AAQC, while the incremental contribution attributed to the project in addition to the contribution of the existing NGS operations is negligible.

The maximum predicted cumulative SPM, PM₁₀ and PM_{2.5} concentrations for the worst-case scenarios range from 40% (for 24-hour SPM) to 77% (for annual PM_{2.5}) of the applicable criteria. The maximum predicted 10-minute cumulative concentration of propanal for the worst-case scenario is 50% of the applicable criteria. The maximum predicted cumulative concentrations of SO₂, Cd, and ethylene for the worst-case scenarios are less than 10% of applicable criteria for all averaging periods.

The maximum predicted cumulative concentrations occur at the west and north property boundary. Concentrations drop off quickly with distance from the project site and are substantially lower at the sensitive receptors.

Comparison to CAAQS

The maximum predicted 1-hour average cumulative concentrations of NO₂ are 107% and 102% of the CAAQS for the worst-case and normal operation scenarios, respectively. The maximum

predicted cumulative PM_{2.5} and SO₂ concentrations for the worst-case scenarios range from 8.2% (for annual SO₂) to 77% (for annual PM_{2.5}) of the applicable CAAQS.

The predicted exceedance of the 1-hour average NO₂ CAAQS extends beyond the east and north property boundary and outside of the LGS lands. However, the 1-hour background NO₂ concentration of 62.7 µg/m³ in comparison to the CAAQS represents 78% of the applicable criterion. In comparison, the maximum predicted concentrations for NGS represent 29% and 24% of applicable criteria for the worst-case and normal operation scenarios, respectively. Also, it is likely that the selected background concentrations from the MECP monitoring stations are overly conservative to characterise the project site.

It should also be noted that maximum predictions occur during worst-case meteorological conditions within the meteorological data set which must occur simultaneously with the worst-case scenario (i.e., existing NGS and project combustion turbine generator all in start-up) for the maximum modelled concentrations to occur. This absolute maximum concentration occurs only at a single location only once in five years of meteorological data. For all other locations and at all other times, the concentration will be less.

7.3.3 Mitigation Measures

7.3.3.1 Construction

To reduce the potential effects of dust emissions during the construction phase, the use of industry standard best practices will be implemented as identified in the CEMP. Measures may include use of well-maintained construction equipment, effective dust suppression techniques (e.g., on-site watering, and limiting the speed of vehicles travelling on unpaved surfaces) in addition to adherence to the practices and procedures outlined in the document “Best Practices for the Reduction of Air Emissions from Construction and Demolition Activities” (Cheminfo Services Inc., 2005). The use of an electric fleet of construction equipment will be considered to the extent possible.

7.3.3.2 Operations and Maintenance

The maximum predicted cumulative project concentrations for COPC did not exceed any applicable air quality criteria at any location except for annual BaP and 1-hour NO₂, which were above the applicable MECP AAQC and CAAQS, respectively. However, the maximum predicted concentration of BaP attributed to NGS is only 0.3% of the applicable MECP AAQC and the predicted exceedance is due to the fact that the existing baseline concentration in the region is already above the corresponding AAQC. The project contribution is therefore considered negligible, and no mitigation measures are required.

The maximum predicted cumulative concentration of 1-hour NO₂ is 107% of the CAAQS. The maximum predicted cumulative concentration exceeds the 1-hour average NO₂ CAAQS beyond the east and north property boundary and outside of the LGS lands. However, as previously discussed the 1-hour background NO₂ concentration of 62.7 µg/m³ in comparison to the CAAQS represents 78% of the applicable criterion and is overly conservative to characterise the project

site. It should also be noted that CAAQS are intended to be used as indicators to help manage regional air quality and drive the improvement of air quality across Canada. CAAQS are established to work with regional air quality management systems (AQMS) to control and monitor air quality at the regional level but not intended to be directly applied to individual facilities (Canadian Council of Ministers of the Environment, 2025) or the compliance of individual facilities.

In accordance with MECP guidelines for end-of stack emission limits from stationary combustion turbines, emissions of NO_x and CO from the project combustion turbine generator will be continuously monitored through the CEMS to verify compliance with applicable limits. No further mitigation measures are anticipated.

7.3.4 Net Effects

Construction

Emissions from construction activities are well understood and easily managed through the implementation of industry standard best practices. Net effects will be of relatively short duration and unlikely to have any long-lasting effect on the surrounding area. Effects are considered **Negligible**.

Operations and Maintenance

During the operations phase, additional COPC emissions to existing conditions are expected but are considered to be in accordance with applicable MECP AAQC and CAAQS. Given that the project is also subject to MECP requirements and future approval, effects of air emissions are considered to be **Negligible**.

7.4 Noise

7.4.1 Potential Construction Effects

Construction is expected to begin in Q3 2025 and last 18 to 30 months. All work is expected to be completed using conventional construction methods. Construction activities are generally expected to occur during the daytime; however, there will be some specific construction activities that are completed at night or on a continuous basis, for example such as setting of critical and large equipment or concrete pouring of major foundations. In all cases, these activities will comply with the relevant municipal By-law restrictions.

Construction noise will be generated by activities such as general site grading, drilled shaft installation (including rock drilling), foundation and buried utility work, site servicing, and worker vehicular movements during site preparation, aboveground construction, and underground construction. It should be noted that there will be no blasting completed as part of the construction undertaking. Overall, it is expected that the construction noise will be less than the operational noise scenario. Noise from conventional construction activity will be managed using best practices and in accordance with the local noise By-law. Proactive construction mitigation measures are discussed in **Section 7.4.3**.

Potential noise from traffic associated with the construction workforce was assessed quantitatively. In terms of the workforce, the peak construction traffic demand is expected to run for about 12 months during 2026. The first day shift is assumed to run from 7:00 a.m. until 5:00 p.m. The second shift, which is generally only required during peak construction and commissioning or special activities (if required), is assumed to be from 4:00 p.m. until 1:00 a.m. Assuming workers arrive and depart in the hour proceeding and following their shift, the peak hour periods for forecasting background traffic will be from 6:00 a.m. to 8:00 a.m. to cover worker and administrative employees and from 3:00 p.m. until 5:00 p.m. to cover the afternoon shift change. The departing workers at 1:00 a.m. were not considered in the analyses because of the relatively low traffic volumes associated with that shift. The predicted increments during the maximum hour and day were considered to be imperceptible as they were less than 3 dBA in each instance.

7.4.2 Potential Operations and Maintenance Effects

MECP outlines its requirements for noise assessment, including the derivation of sound level limits to be applied at sensitive receptors, in Publication NPC-300 “*Environmental Noise Guideline*” (Ministry of the Environment, Conservation and Parks, 2013). According to Section B4 of NPC-300, the sound level limit at a point of reception is the higher of either the applicable exclusionary limit (i.e., a default minimum provided by the MECP based on the project/receptor setting), or the minimum background sound level that occurs or is likely to occur during the time period corresponding to the operation of the stationary source under impact assessment (established either through modelling or monitoring). The lowest hourly modelled or measured L_{eq} ⁷ value should be selected to represent the background sound level when not applying the exclusionary limits. The minimum exclusionary limits for a “Class 3 Area” (i.e., a rural area) are presented in **Table 7-2**. Per the MECP guidance, no restrictions apply to stationary sources that result in a one-hour L_{eq} lower than these minimum values.

Table 7-2: Class 3 Minimum One-Hour L_{eq} by Time of Day

POR Location	Time of Day	Period Designation	Performance Limit (1-hr L_{eq} , dBA)
Outdoor	7:00 am to 7:00 pm	Day	45
	7:00 pm to 11:00 pm	Evening	40
Plane of Window	7:00 am to 7:00 pm	Day	45
	7:00 pm to 11:00 pm	Evening	40
	11:00 pm to 7:00 am	Night	40

A comparison of the measured minimum one-hour L_{eq} values with the MECP Class 3 exclusionary limits is provided in **Table 7-3**, and indicates that the exclusionary limits apply at each receptor location for purposes of assessment in accordance with NPC-300.

7. An energy equivalent sound level is used to describe time-varying noise in terms of a single number. The one-hour L_{eq} is therefore the steady sound level that contains the same amount of energy as the varying noise levels experienced over a one-hour period.

Table 7-3: Minimum One-Hour Background Sound Levels

Receptor	Time of Day	Minimum One-Hour L_{eq} (dBA)	MECP Exclusionary Limit (dBA)	Appropriate Sound Level Limit (dBA)
POR1	Day	36.3	45	45
	Evening/Night	31.2	40	40
POR2	Day	39.0	45	45
	Evening/Night	24.9	40	40
POR3	Day	39.6	45	45
	Evening/Night	26.6	40	40
POR4	Day	33.2	45	45
	Evening/Night	25.6	40	40

Noise modelling was completed continuously throughout the design of the project to determine that predicted sound levels using the best and most recently available information would comply with the sound level limits stipulated by the MECP at all sensitive locations. Sound level effects due to operations were evaluated not only in terms of the MECP guideline, but also in terms of the expected incremental increase from the baseline condition and the potential for effects due to low frequency noise (LFN, or noise-induced vibration effects such as the potential for rattling of building components).

As a worst-case scenario, the predictions for the project were completed with the existing NGS site operating simultaneously. MECP's issuance of an ECA (Air and Noise) amendment requires that the sound level limits be met with no exceedances; therefore, mitigation measures were built into the design of the project as summarised in **Section 7.4.3**. Per MECP requirements, the project operating under a worst-case operating scenario is predicted to comply with the applicable sound level limits stipulated in NPC-300.

In terms of incremental increases in sound level over existing conditions, several operating scenarios were considered including the worst-case condition as noted above of both the existing NGS and the NGS Expansion operating simultaneously and being compared to the measured background conditions. The incremental increase was predicted to be less than 3 dBA at all receptors. The maximum predicted increment was +2.5 dBA at POR5. Increases in sound level of less than 3 dBA are considered to be imperceptible to the human ear.

Noise at low frequencies has the potential to induce vibration in lighter building components (e.g., windows), and combustion turbines have the potential to produce LFN. LFN does not tend to be assessed appropriately when using standard environmental noise guidelines that rely on A-weighted sound levels (dBA), as the A-weighting adjustments de-emphasise low frequencies since the human ear does not perceive them clearly. An American National Standards Institute criterion was therefore adopted for this assessment based on the energy sum of predicted sound pressure levels in linear decibels (dB, rather than dBA) at the point of reception in the frequency bands less than 100 Hz. There were no predicted noise-induced vibration effects from the project as all predicted values are less than the adopted American National Standards Institute criterion of 70 dB.

7.4.3 Mitigation Measures

The project will be constructed using best management practices for construction projects, including observance of the relevant MECP model municipal By-law publications (Ministry of the Environment, 1978a) (Ministry of the Environment, 1978b) and the Town of Greater Napanee noise By-law (Town of Greater Napanee, 2023). In general, best practices will be implemented to mitigate noise during the construction phase, and may include:

- Develop a community complaint and response procedure to address noise and vibration concerns that may arise during the construction phase, including identification of a designated contact person and clear response timelines;
- Equip gas- or diesel-powered equipment with exhaust silencers (mufflers) meeting manufacturer recommendations, and intake silencers (as appropriate), and maintain these devices in effective working order;
- Complete regular maintenance of all equipment, including lubrication and replacement of worn parts — especially exhaust systems — to minimise noise emissions;
- Select construction equipment and construction methods that produce the least noise for any given task whenever feasible;
- Establish on-site vehicle restrictions, including restrictions on tailgate banging during off-loading, posting and enforcing on-site speed limits of <25 km/hr, and limiting site traffic to established routes;
- Turn off idling equipment when not in use where feasible;
- Maintain road surfaces to reduce noise from truck movement, including truck bed and tailgate banging;
- Minimise potential for excessive noise generation by staging equipment use and activities, where appropriate; and
- Utilise low-noise reverse alarms (e.g., broadband reverse alarms).

In terms of operation, the results discussed in **Section 7.4.2** do not exceed any of the adopted criteria, as they already account for mitigation measures that were found to be required to comply with the regulatory limits from the MECP. The mitigation measures that have been accounted for in the analysis presented above include the following:

- One exhaust stack silencer;
- One silencer and noise mitigation for the inlet air duct and elbow to the combustion turbine;
- One sound wall on the east side of the combustion turbine generator (53.5 m length and 18.3 m height) with improved acoustic absorption on the side facing the combustion turbine generator;

- One sound wall on the east side of the air-cooled heat exchanger (38.0 m in length and 11.0 m in height) with improved acoustic absorption on the side facing the heat exchanger; and
- One sound wall on the east side of the enhanced cooling air cooler (9.0 m in length and 3.1 m in height).

7.4.4 Net Effects

Following the implementation of best practices and mitigation measures, the effects from noise are anticipated to be **Negligible**.

7.5 Natural Environment

7.5.1 Potential Construction Effects

The potential effects on the natural environment related to construction activities are:

1. Direct removal of vegetation and wildlife habitat;
2. Increased risk of erosion and transport of sediment;
3. Noise generation negatively affecting wildlife; and
4. Dust generation negatively affecting vegetation.

The development of the project requires limited vegetation removal. It is anticipated that there will be loss of less than 0.2 ha of cultural vegetation communities (i.e., meadows and thickets that have been previously affected by human disturbance) and temporary disturbance of 2.1 ha of these communities. These cultural communities have relatively low ecological function, provide little supporting function to nearby features, and have no policy or regulatory requirement for their retention. There are no natural or native vegetation communities within the project site. The loss and temporary disturbance of meadow and thicket habitat will have some effect on the diversity and number of breeding birds within the project site, none of which are listed as endangered or threatened and all have a breeding status of secure. While there will be a minimal outright loss of cultural habitat for these breeding bird species, it is likely once construction has finished and the temporary disturbances at the berm and cultural meadow is restored, some will return to the area. Some that are more sensitive to disturbance may not return to the site but will remain present in the surrounding area.

Habitat for a variety of common mammals will be removed or temporarily disturbed, none of which are endangered, threatened or species of conservation concern. Given the small loss of cultural communities within a fenced, anthropogenic environment and the presence of similar communities adjacent to the project site, no effect to these common mammals or wildlife corridors is anticipated.

Effects on surface water (discussed in **Section 7.1**) can lead to effects on fish habitat and therefore fish. Increased erosion can dislodge plants, invertebrates and insects reducing the food sources available to fish. Increased sediment particles can bury and suffocate fish eggs and carry toxic industrial compounds into the watercourses which can cause a reduction in fitness and/or death of fish.

Construction works such as grading, grubbing, and excavation have the potential to result in temporary noise which may disturb local wildlife. It is important, however, to consider the existing levels of noise to which wildlife that is using the site has become accustomed. At the project site, there are several sources of constant and intermittent noise. These include the adjacent highway, the existing NGS, and other occasional other sources such as the railway line and operational activities at the sewage lagoons. The attributes of the existing environment have become habituated to the existing levels of noise.

Potentially sensitive ecological receptors considered in the assessment include waterfowl using the Lake Ontario shoreline and open water in the ditch immediately south of the project site (in the surrounding area), breeding birds in the thicket within the project site and the heronry and waterfowl staging located to the north in the Lennox Hydro Marsh (within the surrounding area).

The anticipated noise levels at the key receptors during the loudest anticipated activity (rock breaking) (IEC, 2025c) are presented in **Table 7-4**.

Table 7-4: Estimated Construction Noise Levels at Selected Receptors

Receptor	Overall Sound Level Max. Hr. dB(A)	Coordinates	
		X (m)	Y (m)
Terrestrial: Heronry	24.9	352661	4890929
Terrestrial: Thicket 1	14.6	353024	4890357
Terrestrial: Thicket 2	21.4	352828	4890380
Terrestrial: Lakeshore 1	40.8	352286	4889341
Terrestrial: Lakeshore 2	16.9	353342	4890099

The construction phase of the project has the potential to affect the local air quality (IEC, 2025b). Fugitive dust will be generated by activities related to excavation, grading, and on-site traffic. Dust can create effects to plants through smothering. During the growing season or year-round for evergreen species, dust can physically coat vegetation limiting photosynthesis and other growth processes. This in turn, can affect associated wildlife communities. These effects are most likely to influence vegetation communities and species.

Effects due to deposition of dust during the construction phase are unlikely to occur. Considering the relatively short period of effects during construction, a measurable effect from dust on vegetation in the relatively robust vegetation communities of the NGS site is unlikely (**Section 7.3.1**).

7.5.2 Potential Operations and Maintenance Effects

The vertical rolled steel exhaust stack and silencer which extends 47.2 m from grade is the only element of the operations phase that could be anticipated to cause effects through the potential for the killing of, or injury to migrant birds. While 47.2 m is out of range from the altitude at which migrants generally fly, the proximity of the tower to the lake increases the risk of migrant bird strikes as migrants tend to congregate, and therefore take off and land, along the lakeshore. It has also been documented that fog and/or low cloud conditions are a relatively seasonally frequent

occurrence in the project site. The tower's height, proximity to the lake, and local weather conditions may result in some bird strikes.

Operations activities due to run time and start ups have the potential to result in noise which may disturb local wildlife. The noise conditions at the existing NGS during normal operations at the five terrestrial receptors is relatively high, ranging from 69.5 to 75.2 dB (IEC, 2025c), which exceeds the Environment Canada Guideline criteria for significant sources of disturbance to migrant birds "*noise greater than about 50 dB for birds*". Given that the existing noise levels are already exceeding this level, and birds continue to nest on site, it is assumed that these birds have habituated to the high levels of existing noise.

The difference between noise conditions at the existing NGS during normal operations and the project with the existing NGS in normal operations is the impulse noise generated on project start ups, ranging from a 4-5% across the five receptors which is considerably less than the Environment Canada guidelines which is 10%. At that level of change a disturbance to the avian community is not anticipated.

7.5.3 Mitigation Measures

The following mitigations will be implemented for construction phase of the project to reduce effects on the natural environment:

- Conduct vegetation removals either outside the active breeding bird season (approximately April 1–August 31) or for removals that cannot occur within this timing a nest check will be completed by a qualified avian ecologist for compliance with the *Migratory Birds Convention Act* (MBCA);
- Implement ESC measures prior to work beginning on-site and regularly inspect and maintain ESC measures through construction and restoration activities. ESC measures are subject to approval through future permitting and approvals, including the ECA (Industrial Sewage Works) amendment and municipal Site Plan Approval amendment;
- Use well maintained construction equipment, effective dust suppression techniques such as on-site watering and limiting the speed of vehicles travelling on roads, in addition to the practices and procedures outlined in the "Best Practices for the Reduction of Air Emissions from Construction and Demolition Activities" (Cheminfo Services Inc., 2005);
- Implement a best management practices for dust and noise. These mitigation measures will be included in the CEMP.
- Conduct restoration planting as soon as possible following completion of construction of areas that were temporarily disturbed.

A seed collection program may be implemented during the growing season (April to October) prior to vegetation removal to minimise loss of native species from the project site, based on feedback received through engagement with Indigenous communities. If undertaken, a collection program will be completed in collaboration with Indigenous communities.

The following mitigations to minimise risk of bird strike will be considered during the detailed design phase and, where appropriate, implemented for operations and maintenance phases of the project:

- Light the tower with strobe lights instead of continuous lighting, with a maximum admissible off-period;
- Face other external lighting downward and shield lighting to the maximum extent practicable;
- Use lighting only as required and efforts should be made to minimise both the number of external lights and their luminosity; and
- Avoid placing tree or shrub landscaping within 30 m of reflective glass windows or use non-reflective glass.

7.5.4 Net Effects

Based on the implementation of mitigation measures and the project being located on a previously developed site, the effects to the natural environment are anticipated to be **Negligible**.

7.6 Socio-economic Conditions

7.6.1 Potential Construction Effects

The project has the potential to have the following nuisance effects on the socio-economic conditions in nearby communities:

- Dust from construction activities may affect the cycling route on Highway 33; and
- There will be a temporary increase in traffic during the construction phase.

These effects are anticipated to be limited to the construction phase of the project and not likely to prevent people from undertaking their day-to-day activities. Other effects related to air emissions and noise are described in **Sections 7.3.1** and **7.4.1**.

It is anticipated that during the construction phase some of the workforce and supplies will come from the local community, which may have a positive effect on the local economy. Furthermore, the purchase of goods and services from local businesses, such as restaurants, may have an indirect positive effect on the local economy.

7.6.2 Potential Operations and Maintenance Effects

There are no anticipated negative effects on socio-economic conditions during the operations phase of the project.

7.6.3 Mitigation Measures

The following mitigations will be implemented to reduce the effects on socio-economic conditions:

- Implement dust suppression mitigations as described in **Section 7.3**. These mitigation measures will be included in the CEMP.
- Obtain permits from MTO as required.

As the potential increase in traffic is expected to be temporary and less pronounced following the delivery of equipment, mitigation measures for traffic are not required (Trans-Plan, 2025).

7.6.4 Net Effects

Based on the fact the temporary nature of the effects discussed above and the fact that they are limited to the construction phase, the overall effects on socio-economic conditions is anticipated to be **Negligible**.

7.7 Archaeology

7.7.1 Potential Construction Effects

It is unlikely for the project to have adverse effects on archaeological resources as there has been significant prior soil disturbance throughout the archaeological study area and no archaeological artifacts or cultural heritage resources were found during the Stage 2 Archaeological Assessment. However, as with any project site, there is always some potential for the presence of deeply buried archaeological or cultural heritage resources as a result of ground disturbance during construction.

7.7.2 Potential Operations and Maintenance Effects

No adverse effects are anticipated to archaeological resources during the operation and maintenance phases of the project.

7.7.3 Mitigation Measures

The following mitigations will be put in place to minimise potential effects to archaeological resources:

- Prepare an Archaeological Risk Management Plan which will provide the specific details and protocols that should be followed in the event of a chance find.
- Cease work immediately and engage a licensed archaeologist if there is a chance find, in compliance with Section 48 (1) of the *Ontario Heritage Act* (OHA).

An archaeological monitor is recommended to be on-site to observe construction activities, as appropriate.

7.7.4 Net Effects

Based on the prior soil disturbance throughout the project site and that no archaeological artifacts or cultural heritage resources found during the Stage 2 Archaeological Assessment, the effects to archaeological resources are anticipated to be **Negligible**.

7.8 Visual Effects

7.8.1 Potential Construction Effects

The project has the potential to negatively affect the visual landscape during the construction phase due to the presence of the construction laydown area which will be visible from Highway 33.

7.8.2 Potential Operations and Maintenance Effects

The project has the potential to affect the visual landscape due to the presence of project components such as tall buildings or stacks. The project will take place entirely within industrialised lands that have been built-up and will not result in taller structures; therefore no potential adverse visual effects are anticipated during the operations phase of the project.

7.8.3 Mitigation Measures

A temporary berm will be installed in the construction laydown area to mitigate views from Highway 33 during construction.

The Town of Greater Napanee has also requested to augment the existing berm south of the existing NGS to screen the project from Highway 33. This will be done using fill from the grading that is completed during the construction phase. Landscaping will be added to the berm in accordance with the project's landscaping plan.

7.8.4 Net Effects

The effect of the project on the visual landscape is expected to be **Negligible** with the implementation of mitigation measures.

7.9 Waste Management

7.9.1 Potential Construction Effects

The project will generate typical construction type waste during the construction phase of the project. Improper disposal could result in contaminants being released into the environment or cause unsightly litter.

7.9.2 Potential Operation and Maintenance Effects

There are no additional waste streams during operation because of the project; therefore no potential effects during operations are anticipated.

7.9.3 Mitigation Measures

The project will follow the existing waste management plan. The mitigations within the plan include but are not limited to best practices such as:

- Collect and store construction waste on-site and then transfer to a licensed disposal facilities by a licensed contractor;
- Dispose of all waste in accordance with applicable permits and regulations;
- Store and dispose of hazardous waste in accordance with applicable permits and regulations; and
- Adhere to existing waste management protocols on-site.

7.9.4 Net Effects

The project will have a **Negligible** effect on waste management.

7.10 Consideration of Climate Change

Projects can both have an effect on climate change and be affected by climate change. The sections below describe anticipated GHG emissions from the project, how the project will contribute to offsetting GHG emissions in alignment with Ontario's broader decarbonisation targets, and how the effects of climate change have been considered in the project's design to enhance resiliency to extreme precipitation and heat.

7.10.1 Greenhouse Gas Assessment

The combustion of any fossil fuel will result in the production of CO₂ which is the predominant GHG emitted from the existing NGS and the project. Small quantities of methane (CH₄) and nitrous oxide (N₂O) are also produced from fossil fuel combustion which have more significant global warming potential in comparison to CO₂.

Annual GHG emissions from existing NGS operations as well as the operation and maintenance phase of the project are based on the plant's verified 2023 GHG emissions and natural gas consumption for the existing NGS and the projected natural gas consumption for each calendar year up to and including the operation and maintenance phase of the project. As GHG emissions are linear to fuel consumption, the projected emissions in tonnes of carbon dioxide equivalent (CO₂e) are prorated from the verified 2023 emissions based on the projected natural gas consumption for existing NGS operations as well as the project. The GHG assessment considers two scenarios: expected annual operations of 270 hour per year based on 60 starts at an average of 4 ½ hours per start, and worst-case annual operations of 606 hours per year based on expected annual operations plus an additional two weeks of non-stop operation to support the Ontario electricity grid.

The estimated annual GHG emissions are shown in **Table 7-5** for existing NGS operations, the project's expected annual operations scenario (i.e., 270 hours annual run time), and the worst-case project scenario (i.e., 606 hours annual run time). **Table 7-5** also shows the percent increase in emissions from the projected emissions for the existing NGS for each project scenario and calendar year. The maximum increase of CO₂e emissions due to the project is estimated to be 3.8% and 8.5% for the expected and worst-case project scenarios, respectively.

The IESO's 2022 and 2024 APOs (IESO, 2022a; IESO, 2024b) illustrate how the electricity system is driving the overall decarbonisation of Ontario's economy. The most significant near-term emission reductions are achieved through the increased adoption of electric vehicles (EV) and the conversion of steel mills to electric arc furnaces (EAF) from coal. Due to the influence of factors including electrification, the IESO forecasts that electricity demand in Ontario will grow by 75% by 2050 and it is recognised that more electricity generation is needed (IESO, 2024a; IESO, 2024b). Decarbonisation and electrification of steel facilities alone are expected to add up to 0.4 GW to Ontario's electricity demand by 2026 (IESO, 2024b). Natural gas will be needed to meet electricity demand until other types of electricity generation become reliable and established (Ministry of Energy and Electrification, 2023). The project will support these efforts to continue to meet the electricity needs of Ontarians as the shift to electrification continues.

Table 7-5: Estimated Annual GHG Emissions

	2023 ¹	2024	2025	2026	2027	2028	2029	2030	2031
Existing NGS									
Natural Gas Consumption (m³)	590,061,762	746,877,947	688,665,644	755,350,516	816,478,911	828,696,837	782,657,157	775,263,478	726,136,578
CO ₂ e Emissions (megatonnes) (Mt)	1.160	0.806	0.786	0.833	1.148	1.002	1.044	1.044	1.069
Project (NGS Expansion) – Expected Scenario (270 hours per year)									
Natural Gas Consumption (m³)	-	-	-	-	-	27,408,767	27,408,767	27,408,767	27,408,767
CO ₂ e Emissions (Mt)	-	-	-	-	-	0.054	0.054	0.054	0.054
CO ₂ e % Increase	-	-	-	-	-	3.3%	3.5%	3.5%	3.8%
Project (NGS Expansion) – Worst-Case Scenario (606 hours per year)									
Natural Gas Consumption (m³)	-	-	-	-	-	61,517,455	61,517,455	61,517,455	61,517,455
CO ₂ e Emissions (Mt)	-	-	-	-	-	0.121	0.121	0.121	0.121
CO ₂ e % Increase	-	-	-	-	-	7.4%	7.9%	7.9%	8.5%

Note: 1. Existing NGS verified 2023 GHG Emissions Report

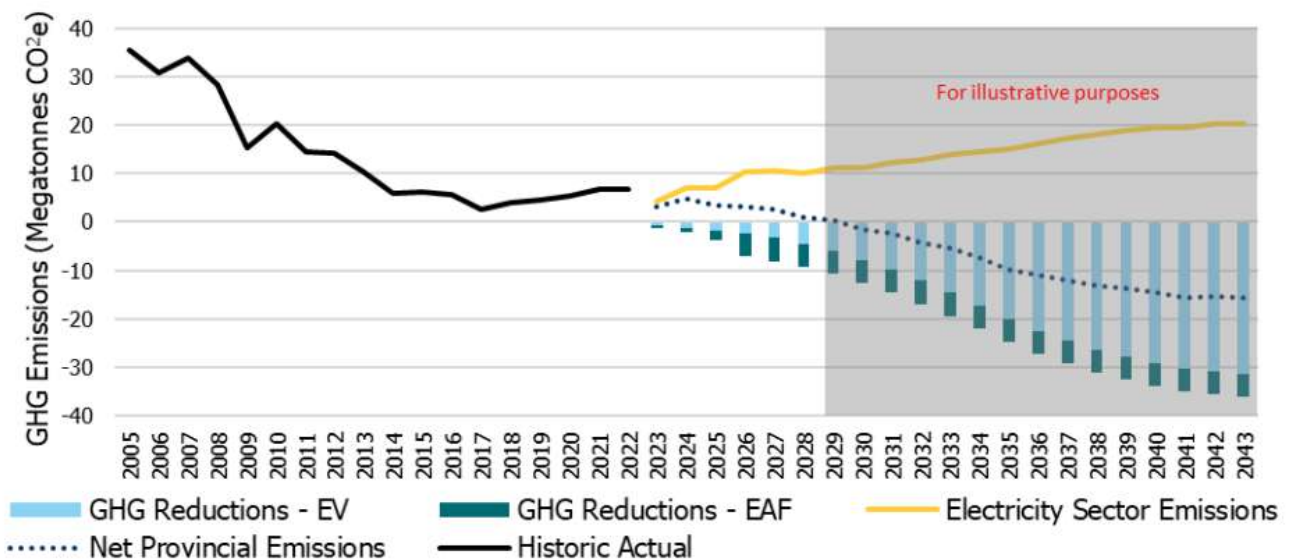
Estimated Annual GHG Emissions (continued)

	2032	2033	2034	2035	2036	2037	2038	2039	2040
Existing NGS									
Natural Gas Consumption (m³)	859,322,345	875,596,119	828,678,488	778,817,697	857,925,053	882,078,856	864,601,547	738,188,708	806,085,797
CO ₂ e Emissions (Mt)	1.689	1.721	1.629	1.531	1.686	1.734	1.700	1.451	1.585
Project (NGS Expansion) – Expected Scenario (2704,150 hours per year)									
Natural Gas Consumption (m³)	27,408,767	27,408,767	27,408,767	27,408,767	27,408,767	27,408,767	27,408,767	27,408,767	27,408,767
CO ₂ e Emissions (Mt)	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054
CO ₂ e % Increase	3.2%	3.1%	3.3%	3.5%	3.2%	3.1%	3.2%	3.7%	3.4%
Project (NGS Expansion) – Worst-Case Scenario (606 hours per year)									
Natural Gas Consumption (m³)	61,517,455	61,517,455	61,517,455	61,517,455	61,517,455	61,517,455	61,517,455	61,517,455	61,517,455
CO ₂ e Emissions (Mt)	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121
CO ₂ e % Increase	7.2%	7.0%	7.4%	7.9%	7.2%	7.0%	7.1%	8.3%	7.6%

Note: 1. Existing NGS verified 2023 GHG

As described above, the project will operate as directed by IESO and is expected to operate up to 600 hours annually. Although the project will generate GHG emissions, the project will ultimately contribute to a substantial offset of GHG emissions (**Figure 7-1**) as the electricity will be far less carbon intense than other fuels such as gasoline for automotive transportation or fuel oil for space heating (IESO, 2022a). By 2035, the provincial electricity sector is anticipated to reduce emissions by at least three times the amount it produces (IESO, 2024c). Thus, the project will support the shift to electrification and the overall reduction of GHG emissions.

Figure 7-1: Electricity Sector GHG Emissions, Historical and Forecast (IESO, 2022a)



7.10.2 Climate Change Resiliency

The 2023 Ontario Provincial Climate Change Impact Assessment Technical Report evaluated electrical power generation against high and extreme temperatures and extreme precipitation events (Climate Risk Institute, 2023). The assessment found that extreme precipitation was the greatest driver of risk for this infrastructure category. Overall, the sections below show that the project has considered and is reasonably prepared to withstand extreme precipitation and heat events anticipated under climate change.

7.10.2.1 Effects of the Environment on the Project

Extreme Precipitation

A series of drainage ditches traverse the NGS and OPG lands where the project will be established (**Section 5.2.1**). A floodplain study was conducted in support of the project to establish the existing floodline elevations associated with the 100-year storm event (i.e., the CRCA’s “regulatory storm event” for the project site), delineate the horizontal extent of the floodline, analyse the potential

effects of the project on the regulatory floodplain, and analyse riparian storage (Watercom Engineering Inc., 2025).

The study found that the proposed project development will not encroach into the floodplain (Watercom Engineering Inc., 2025). No effects to floodline elevations or flow velocities are expected to occur as a result of the project during the regulatory storm event (100-year storm event) and the available flood storage will be maintained (Watercom Engineering Inc., 2025). The study also found that the Highway 33 culvert met all the MTO design criteria with the proposed development and the culvert has the capacity to convey the 100-year flow rate without overtopping (Watercom Engineering Inc., 2025).

Extreme Heat

Climate projections suggest that for Napanee, Ont., the number of days of extreme heat where the maximum daily temperature is greater than 32°C will increase by the following amounts under a sustainable development scenario (Shared Socio-economic Pathway (SSP)1-2.6) and a fossil-fueled development scenario (SSP5-8.5) compared to the period 1971-2000 (ClimateData.ca, n.d.; ClimateData.ca, n.d.):

- For years 2021-2050,
 - median +4 days (SSP1-2.6)
 - median +6 days (SSP5-8.5)

The design of the project is equipped for days with warmer temperatures. A fin/fan air-cooled heat exchanger will be a key component of the project and used to cool and maintain temperatures of all operating equipment other than the turbine rotor (**Section 2.1**). The project will also include an evaporative cooling system, to cool the inlet air to the generator to produce additional electrical output in ambient conditions greater than or equal to 15°C due to the latent heat vaporisation of water (**Section 2.1**).

7.11 Summary of Mitigation Measures and Net Effects

Table 7-6 summarises proposed mitigation for the project and resulting net effects.

It should be noted that upon implementation of mitigation measures, all potential negative effects as a result of the project are anticipated to be negligible.

Table 7-6: Summary of Mitigation Measures and Net Effects

Phase	Effect	Mitigation Measures	Net Effects
Surface Water			
Construction	• Potential impact to surface water quality due to erosion and sediment transport.	• Implement ESC measures prior to commencing construction (described in Section 2.3.1). • Follow SWMP, which will be developed as described in Section 3.1.2 and according to regulatory requirements. • Ongoing engagement with the Town of Greater Napanee and CRCA (the Source Protection Authority).	• Negligible
	• Potential impact to surface water quality due to accidental spills.	• Follow Emergency Response Plan (Section 2.3.2.3).	• Negligible
Operations and Maintenance	• Potential impact to surface water quality due to erosion and sediment transport.	• Follow site surfacing plan once construction is completed to minimise erosion and provide sediment control during operations. • Follow SWMP, which will be developed as described in Section 3.1.2 and according to regulatory requirements. • Ongoing engagement with the Town of Greater Napanee and CRCA (the Source Protection Authority).	• Negligible
	• Potential impact to surface water quality due to accidental spills.	• Follow Emergency Response Plan (Section 2.3.2.3).	• Negligible
Groundwater			
Construction	• Potential change to groundwater levels or flows.	• Implement a groundwater monitoring program, to be developed in consultation with MECP, CRCA, and the Town. • If groundwater dewatering is identified as required, development of a dewatering plan to appropriately monitor pumped volumes.	• Negligible
	• Potential impact to groundwater quality due to accidental spills.	• Implement an enhanced surface and groundwater monitoring program, to be developed in consultation with MECP, the Town, and CRCA (Source Protection Authority). • Follow Emergency Response Plan (Section 2.3.2.3).	• Negligible
Operations and Maintenance	• Potential impact to groundwater quality due to accidental spills.	• Implement an enhanced surface and groundwater monitoring program, to be developed in consultation with MECP, the Town, and CRCA (Source Protection Authority). • Follow Emergency Response Plan (Section 2.3.2.3).	• Negligible
Air and Noise			
Construction	• Potential disturbance due to typical noise, dust, and air emissions during construction activities.	• Follow CEMP, which will include best practices to mitigate construction noise, dust, and air emissions as described in Section 7.3.3 and Section 7.4.3 . • Consider the use of an electric fleet of construction equipment to the extent possible.	• Negligible
Operations and Maintenance	• Potential impacts due to increased air emissions during operation.	• In accordance with MECP guidelines for end-of stack emission limits from stationary combustion turbines, emissions of NOx and CO from the project combustion turbine generator will be continuously monitored through the CEMS to verify compliance with applicable limits. No further mitigation measures are anticipated.	• Negligible
	• Potential disturbance due to noise during operation.	• Noise controls were included in the design of the facility, including a stack silencer and several sound walls.	• Negligible
Natural Environment			
Construction	• Potential impact due to removal of less than 0.2 ha of vegetation and wildlife habitat.	• Clear vegetation outside the migratory bird breeding season (April 1 to August 31) or following a nest check by a qualified avian ecologist. • Implement ESC measures to protect adjacent habitats. • Conduct restoration planting as soon as possible following completion of construction of areas that were temporarily disturbed.	• Negligible
	• Potential impact due to erosion and sediment transport.	• Implement ESC measures prior to commencing construction (described in Section 2.3.1). • Inspect and maintain ESC measures regularly throughout construction, and restoration activities. • Follow SWMP, which will be developed as described in Section 3.1.2 and according to regulatory requirements.	• Negligible
	• Potential disturbance to wildlife to typical noise during construction activities.	• Use pneumatic rock breaking methods. • Follow CEMP, which will include best practices to mitigate construction noise.	• Negligible
	• Potential impact to vegetation due to dust generated during construction activities.	• Follow CEMP, which will include best practices to mitigate dust including: – Use well-maintained construction equipment and implement dust suppression measures. – Use practices and procedures outlined in the “Best Practices for the Reduction of Air Emissions from Construction and Demolition Activities (March 2005)” (Cheminfo Services Inc., 2005).	• Negligible
Operations and Maintenance	• Potential for stack to cause bird strikes.	• Consider designs which minimise the risk of bird strike, which may include: – Consider use of strobe lights for tower lighting with a maximum admissible off-period. – Face other external lighting downward and shielded to the maximum extent practicable. – Use lighting only as required and minimise both the number of external lights and their luminosity. – Avoid tree or shrub landscaping within 30 m of reflective glass windows or use non-reflective glass.	• Negligible
	• Potential disturbance to wildlife to noise from start ups and operational run time.	• Implement best management practices to diminish operation and other noise, as possible.	• Negligible

Phase	Effect	Mitigation Measures	Net Effects
Socio-Economic Conditions			
Construction	Potential temporary impact to recreational activity (cycling) due to dust generated during construction activities.	Implement dust suppression mitigations as described in Section 7.3.1. These mitigation measures will be included in the CEMP.	Negligible
	Potential temporary increase in traffic.	Obtain permits from MTO as required.	Negligible
Archaeology			
Construction	Discovery of previously undocumented archaeological resources.	- Cease work immediately and engage a licensed archaeologist if there is a chance find, in compliance with Section 48 (1) of the OHA. - Implement an Archaeological Risk Management Plan which will provide the specific details and protocols that should be followed in the event of a chance find.	Negligible
Visual Effects			
Construction	Potential visual effects during construction.	Install a temporary berm in construction laydown area #2 to mitigate views from Highway 33 during construction.	Negligible
Waste Management			
Construction	Potential to cause contamination and unsightly litter.	- Collect and store construction waste on-site and then transfer to a licensed disposal facilities by a licensed contractor. - Dispose of all waste in accordance with applicable permits and regulations. - Store and dispose of hazardous waste in accordance with applicable permits and regulations. - Adhere to existing waste management protocols on-site.	Negligible
Consideration of Climate Change			
Project-wide	A slight increase in the production of GHG emissions from existing NGS baseline conditions.	Support the shift to electrification in Ontario and an overall reduction of GHG emissions despite initial increase.	Negligible
	Risk of effects to project from extreme precipitation and heat.	Follow project design that will not encroach into the floodplain and is capable of withstanding extreme precipitation and heat.	Negligible

7.12 Commitments

In addition to mitigation measures that will be applied, **Table 7-7** summarises commitments Atura Power will implement as a result of the technical studies, effects assessment, and engagement activities undertaken during the preparation of the ERR.

Table 7-7: Summary of Project Commitments

Environmental Component	Commitment	Section Reference
Project Planning	Obtain necessary permits and approvals and comply with requirements from regulatory authorities.	3
Construction	All construction activities will be conducted under a CEMP. The CEMP will include procedures to manage erosion and sediment, dust, noise, waste, spills, wildlife encounters, archaeological resources, and other environmental concerns. The CEMP will also include a communications protocol to receive input from nearby property owners regarding potential adjustments to construction mitigation measures. Mitigation, monitoring, and management measures for the project outlined in the ERR and dictated by future permits and approvals will be incorporated into the CEMP for the construction phase of the project.	2.3.1
Operations	Mitigation and management measures for the project outlined in the ERR and dictated by future permits and approvals will be incorporated into the existing NGS EMP for project operations.	2.3.1
Decommissioning	A decommissioning plan will be developed in accordance with applicable environmental protection standards at the time of decommissioning to minimise and mitigate potential effects.	2.2
Natural Heritage	Consider a seed collection program during the growing season (April to October) prior to vegetation removal to minimise loss of native species from the project site.	7.5.3
Archaeology	An archaeological monitor is recommended to be on-site to observe construction activities, as appropriate.	7.7.3
Emergency Response	NGS staff will hold regular emergency response exercises including training and will invite local emergency response personnel to participate.	2.3.1
Stormwater Management	Mitigation and management measures including discharge monitoring for the project, outlined in the ERR and dictated by future permits and approvals will be implemented.	2.2
Groundwater Monitoring	The monitoring well where the chloroform exceedance was observed will be resampled to confirm the levels of chloroform have dissipated.	5.2.2
Indigenous Communities	Atura Power will establish a distribution list to which it will send monthly project schedule updates noting when excavation activities are planned to occur. That communication would include contact information for the Construction Project Manager, who will make arrangements for monitors to come to site. Atura Power is also committed to working collaboratively in the development of mitigation strategies for the project and sharing draft reports with Indigenous communities for review.	Engagement with Indigenous Communities

Environmental Component	Commitment	Section Reference
Indigenous Communities / Archaeology	Atura Power will develop and implement an Archaeological Risk Management Plan for the project if an archaeological resource is discovered and mitigations to avoid potential effects to the Upper Gap Archaeological Site.	Engagement with Indigenous Communities
Public Engagement	Atura Power is committed to actively engaging with the public and responding to all comments and questions received.	8.4
Visual Effects	Atura Power committed to add to the existing berm south of the existing NGS facility and extend the berm to the project using excavated soils from construction at the Town's request.	8.4.1

8. Engagement

Engagement with Indigenous communities, the public and agencies is a key component of the EA process and was integrated from the initial development stages of the project planning and throughout the Environmental Review.

This section describes the engagement activities that were undertaken and demonstrates how Atura Power meets and exceeds the engagement requirements of the Environmental Screening Process. This section is organised as follows:

- **Section 8.1** – Pre-Environmental Assessment Engagement
- **Section 8.2** – Engagement Program for the Environmental Assessment
- **Section 8.3** – Public Engagement
- **Section 8.4** – Engagement with Municipal Staff and Elected Officials
- **Section 8.5** – Agency Engagement
- **Section 8.6** – Indigenous Community Engagement
- **Section 8.7** – Draft Environmental Review Report
- **Section 8.8** – Notice of Completion
- **Section 8.9** – Elevation Requests

8.1 Pre-Environmental Assessment Engagement

8.1.1 Independent Electricity System Operator Long-Term Request for Proposals Procurement Process

Atura Power submitted two projects in the vicinity of the NGS to the IESO through the LT1 procurement process, the NGS Expansion and Napanee BESS Phase 2. The Napanee BESS was proposed to be a two phase-project consisting of BESS units, high-voltage substations, and other supporting electrical and environmental safety equipment. Phase 1 of the Napanee BESS project was awarded a contract by IESO during the Expedited Long-Term RFP (E-LT1 RFP) process and is currently under construction.

Atura Power conducted engagement for both the NGS Expansion and Napanee BESS Phase 2 projects concurrently during the LT1 process. The following engagement tools and activities were undertaken by Atura Power as part of the LT1 engagement program:

- Project webpage;
- Engagement Plan;
- Notices of a Public Community Meeting delivered to adjacent property owners and residents, local municipalities, and Indigenous communities;
- In-person public meeting hosted on October 18, 2023; and
- Virtual public meeting hosted on November 23, 2023.

8.1.2 Pre-Engagement with the Town of Greater Napanee

Atura Power introduced the project to the Town of Greater Napanee Council during the LT1 process. **Table 8-1** provides details on pre-engagement with the Town that occurred prior to the commencement of the EA on April 8, 2024.

Table 8-1: Pre-Environmental Assessment Engagement with the Town of Greater Napanee

Title and/or Department	Communication Method and Date	Communication Summary
General Manager of Growth & Infrastructure/Chief Building Official	September 6, 2023; Email	Atura Power requested a meeting to discuss the project as part of the IESO LT1 RFP procurement process.
Municipal Clerk	October 2, 2023; Mail	Atura Power distributed a letter and invitation to a Public Community Meeting on October 18, 2023.
Municipal Clerk	November 6, 2023; Mail	Atura Power distributed a letter and invitation to a virtual Public Community meeting on November 23, 2023.
- Deputy Chief Administrative Officer - General Manager of Growth & Infrastructure/Chief Building Official - Municipal Clerk	November 7, 2023; Email	Atura Power circulated an invitation to a virtual Public Community meeting on November 23, 2023, to learn more about the Napanee BESS Phase 2 and NGS Expansion projects.
Town Council	November 14, 2023; Council Meeting	Atura Power presented the project to Town Council, identifying the project requires Municipal support as part of the IESO LT1 procurement process. During the meeting, interest groups and members of the public shared concerns about the project regarding GHGs, climate change, human health, and air quality.
Town Council	November 28, 2023; Council Meeting	Town Council discussed the project and voted in favour to provide Municipal Support Resolution for the LT1 process.

8.2 Engagement Program for the Environmental Assessment

8.2.1 Requirements

The project engagement program reflects requirements identified by O. Reg. 50/24 under the Act (Government of Ontario, 2024a). It is required that potentially interested parties, including Indigenous communities, adjacent landowners, municipal staff, elected officials, and agencies are

all afforded an opportunity to learn about the project and voice any potential concerns. Public engagement requirements of the Guide include:

- Identification of potentially affected stakeholders;
- Providing a description of how the project may affect the environment;
- Providing appropriate notification to identified stakeholders as prescribed in the Environmental Screening Process;
- Informing the public where, when and how they can be involved;
- Identifying public concerns and issues related to the project;
- Addressing public concerns and issues raised during the program; and
- Documenting how public input is taken into account in the screening process and in the project planning and development (Government of Ontario, 2024a).

8.2.2 Project Contact List

The project contact list was developed by researching the area 100 m around the project site to identify potentially interested groups, including elected officials and municipal staff. Agencies were identified using the Environmental Assessment Government Review Team Master Distribution List and requirements according to the Guide. The contact list also included stakeholders previously engaged during the first phase of the Napanee BESS project. The project contact list is included in **Appendix C**.

Indigenous communities were identified based upon proximity to the project site, potential interest in the project, and communities that were engaged with during the first phase of the Napanee BESS and whom Atura Power was delegated the Duty to Consult by the Ministry of Energy and Electrification. Atura Power provided the list of Indigenous communities to be engaged to MECP in a letter dated April 8, 2024. On April 24, 2024, MECP confirmed the list was complete. The following communities have been engaged on the project:

- Alderville First Nation (ADFN)
- Beausoleil First Nation (BSFN)
- Chippewas of Georgina Island First Nation (CGIFN)
- Chippewas of Rama First Nation (CRFN)
- Curve Lake First Nation (CLFN)
- Hiawatha First Nation (HFN)
- Huron Wendat Nation (HWN)
- Kawartha Nishnawbe (KN)
- Mississaugas of Scugog Island First Nation (MSIFN)
- Mohawks of the Bay of Quinte First Nation (MBQFN)

ADFN, CLFN, HFN, and MSIFN are part of the Williams Treaties First Nations (WTFNs). As such, the WTFN Process Coordinator was included in engagement for WTFN communities as directed by MECP.

The project contact list was created to provide notices and information to all potentially affected or interested Indigenous communities, adjacent property owners, agencies, interest groups, and other stakeholders to keep them informed on the project and opportunities to provide input.

8.2.3 Communication Methods and Tools

Throughout the engagement program, Atura Power utilised multiple methods to engage with Indigenous communities, adjacent property owners, agencies, interest groups, and members of the public. The objective of engagement efforts is to confirm that all potentially interested or affected parties are notified of key project information and milestones, identify any concerns and possible effects of the project, and address to concerns where possible. Potentially interested parties were contacted using the following methods: email, direct mail, phone calls, newspaper advertisements and the project webpage.

The project webpage (aturapower.com/napaneeexpansion) was developed and maintained throughout the duration of the project. The webpage contains information on the project and the EA process, a project timeline, public meeting materials, project documents, and a contact form to submit questions and comments to Atura Power.

A database was used to track comments, questions, and concerns provided on the project. The database includes details including who provided comments, when and how comments were received, the responses provided, and when and how responses were provided.

8.2.4 Engagement Activities

The following sections outline engagement activities with Indigenous communities, agencies, municipal staff and elected officials, and the public. This record of engagement begins with the Notice of Commencement (NoC) on April 8, 2024, and details engagement activities up until March 31, 2025.

8.2.4.1 Notification of Commencement and Invitation to a Public Meeting

Engagement commenced with the publication of the NoC and Invitation to a Public Meeting on April 8, 2024 (**Appendix C**). The NoC was distributed directly to contacts in the contact list and published on the project webpage and in the Napanee Beaver (**Appendix C**). The NoC included information as required by the Guide including a project description, proponent name, project site, information on the Environmental Screening Process and contact details. The NoC directed recipients to the project webpage for additional project information and project resources and included details of the upcoming public meeting for an opportunity to learn more about the project and share feedback.

The NoC along with a cover letter providing details on the project and engagement opportunities was shared with Indigenous communities, members of the public, municipal staff and elected

officials, and agencies on the contact list via email, registered mail and regular mail as described in **Table 8-2**. Recipients were encouraged to share questions and feedback with Atura Power through the project email address (**Appendix C**).

Table 8-2: Notice of Commencement Distribution

Type	Recipient	Method
Federal and Provincial Ministry Contacts	Canada Energy Regulator	Email / Mail
	Crown-Indigenous Relations and Northern Affairs Canada	
	Environment and Climate Change Canada	
	Impact Assessment Agency	
	Independent Electricity System Operator (IESO)	
	Member of Parliament for Hastings -- Lennox and Addington	
	Member of Provincial Parliament	
	Ministry of Agriculture, Food and Agribusiness	
	Ministry of Citizenship and Multiculturalism (MCM)	
	Ministry of Economic Development, Job Creation and Trade	
	Ministry of Energy and Electrification	
	Ministry of Mines	
	Ministry of Municipal Affairs and Housing	
	Ministry of Natural Resources (MNR)	
	Ministry of the Environment, Conservation and Parks (MECP)	
	Ministry of Transportation (MTO)	
	Ontario Energy Board (OEB)	
	Ontario Provincial Police	
Regional and Municipal Contacts	Algonquin & Lakeshore Catholic District School Board	Email / Mail
	Cataraqui Region Conservation Authority (CRCA)	
	City of Kingston	
	County of Lennox and Addington - Elected Officials	
	County of Lennox and Addington – Municipal Staff	
	Limestone District School Board	
	Loyalist Township	
	Prince Edward County	
	Town of Greater Napanee - Elected Officials	
	Town of Greater Napanee – Municipal Staff	
Other Agencies/ Utilities	Hydro One Networks Inc. (HONI)	Email
	Kingston, Frontenac, and Lennox & Addington Public Health	
	Ontario Power Generation Inc. (OPG)	
Indigenous Communities	Alderville First Nation (ADFN)	Email
	Beausoleil First Nation (BSFN)	
	Chippewas of Georgina Island First Nation (CGIFN)	
	Chippewas of Rama First Nation (CRFN)	
	Curve Lake First Nation (CLFN)	
	Hiawatha First Nation (HFN)	
	Huron Wendat Nation (HWN)	
	Kawartha Nishnawbe (KN)	
	Mississaugas of Scugog Island First Nation (MSIFN)	
	Mohawks of the Bay of Quinte First Nation (MBQFN)	
Members of Public / Interested Parties	31 notices were delivered to members of the public and interested parties	Email / Mail

8.3 Public Engagement

Atura Power facilitated public engagement opportunities and processes throughout the project. Public engagement for the EA began with the distribution of the NoC on April 8, 2024. Through the notice, members of the public were encouraged to share questions and feedback with Atura Power through the project email address. Additionally, the notice directed members of the public to project information and resources accessible on the project webpage. Both the project email and webpage have been available to the public throughout the life of the project. A summary of public comment topics received over the course of the project is provided in **Section 8.3.2**.

8.3.1 Public Meeting

Atura Power hosted a public meeting on Thursday, May 16, 2024, from 4:00 p.m. to 8:00 p.m. at South Fredericksburgh Hall, located at 2478 County Rd. 8, Greater Napanee, Ont. The meeting was held to provide information about the project, describe the EA process, and to provide an opportunity to obtain feedback from the community.

An invitation to the public meeting was provided in the NoC distributed on April 8, 2024. Along with the initial distribution of the notice, Atura Power sent an email on May 13, 2024, to remind public stakeholders and Town of Greater Napanee officials of the upcoming public meeting.

The public meeting was structured as an open house, with displays and activities set up around the room allowing participants to learn about the project at their own pace. These included 14 poster boards containing project information, a slideshow, project renderings depicting conceptual drawings depicting the facility after construction, and maps. Colouring pages were also provided for any children that might attend. Atura Power was present to engage with attendees, answer questions and listen to comments related to the project.

For documentation purposes, attendees were asked to sign in upon arrival. The meeting was attended by 20 participants, including a Town of Greater Napanee Ward Councillor, a member of MBQFN, neighbours, nearby residents, and local business owners. Throughout the evening, Atura Power engaged in discussions with attendees noting any concerns or questions about the project. Attendees were encouraged to ask questions and provide feedback to Atura Power either during discussions, through comment forms, or via the project-specific email address (napaneeexpansion@aturapower.com). Two completed comment forms were submitted during the public meeting.

8.3.2 Summary of Public Comments

Atura Power is committed to actively engaging with the public and responding to all comments and questions received. During the EA process, members of the public shared questions, comments, and feedback with Atura Power via the project email address, the project webpage, and during public meetings. Topics of questions and comments received are summarised by topic in **Table 8-3**. The full summary of questions and comments received, and Atura Power's responses is provided in **Appendix C**.

Table 8-3: Summary of Public Comment Topics by Categories and Sub-Categories

Category	Subcategory
Atura Power	Business Plan
	General
Project Need and Procurement	General
	IESO
	LT1 RFP Contract Award
	LT1 Municipal Support
Project Components	Design
	General
	Hydrogen
Project Timelines	Construction Activities
	General
Air and Noise	Air Quality
	Alarms
	Light Pollution
	Noise Increase
	Noise Mitigation
	Vibration
Surface Water and Groundwater	Effects on Water Bodies (Lake Ontario)
	General
	Water usage
Visual Effects	Appearance
Environment and Technical Studies	Archaeological Studies
	Environmental Studies
	General
	Species at Risk
Environmental Screening Process	Access to Information
	Engagement
	Environmental Review
Climate	Climate Change
Socio-Economic Effects	Effects on Surrounding Properties
	Employment
Health and Safety	Emergency Response and Preparedness
	Emissions
	General
	High-Voltage Wires
Traffic	Effects
	Patterns
	Suggested Routes
Out of Scope	Gas Prices
	General
	Napanee BESS
	Property Values

8.4 Engagement with Municipal Staff and Elected Officials

Throughout the operation of the existing NGS, Atura Power has endeavoured to build strong relationships with the Town of Greater Napanee and the County of Lennox and Addington leadership and elected officials and continues to do so. To support that effort, communication between the project team and municipal staff and elected officials has been ongoing so that the Town and the County are aware of the project's status and activities.

As mentioned in **Table 8-2**, both the Town of Greater Napanee and the County of Lennox and Addington were provided the NoC. An email reminder about the in-person public meeting was sent to municipal staff, the Mayor and relevant Councillors, and the relevant provincial and federal Members of Parliament on May 13, 2024.

8.4.1 Summary of Engagement with Town of Greater Napanee

Table 8-4 documents engagement with the Town following the distribution of the NoC on April 8, 2024, including discussion of municipal permitting and approvals for the project. Records of engagement documenting emails received are in **Appendix C**.

Table 8-4: Summary of Engagement with the Town of Greater Napanee

Title and/or Department	Communication Method and Date	Communication Summary
• Deputy Chief Administrative Office • General Manager of Growth & Expansion/ Chief Building Officer • Manager of Community Economic Development • Municipal Clerk	May 13, 2024; Email	• Atura Power provided a reminder about the public meeting for the project on Thursday, May 16, 2024.
• Town of Greater Napanee Councillor	June 12, 2024; Email	• Atura Power emailed the attendees of the May 16, 2024, Public Meeting to thank them for attending. Atura Power sent the link to the meeting materials (presentation, poster, boards and handout) and let them know they could reach out with any questions or comments.
• General Manager of Growth & Expansion/ Chief Building Official	September 10, 2024; Meeting	• Atura Power met with Town staff to discuss the equipment enclosure for the project.
• General Manager of Growth & Expansion/ Chief Building Official	September 26, 2024; Email	• Atura Power thanked the Town for the September 10, 2024, meeting and attached the meeting minutes. Atura Power requested the Town to review the meeting minutes to confirm their accuracy and clarity.
• General Manager of Growth & Expansion/ Chief Building Official	September 27, 2024; Email	• The Town reviewed and noted that the meeting minutes captured the intent of the meeting discussion.
• General Manager of Growth & Expansion/ Chief Building Official	October 4, 2024; Email	• Atura Power provided excerpts from their Canadian Standards Association (CSA) SPE-1000 code to demonstrate the scope of application for the certification of the generator turbine control package to the Town.
• General Manager of Growth & Expansion/ Chief Building Official	October 7, 2024; Email	• Atura Power's consultants sent a cover letter requesting time for a site plan pre-consultation meeting for the project along with site maps and photo simulations of the property to provide information to the Town and request a meeting in October.
• General Manager of Growth & Expansion/ Chief Building Official	October 7, 2024; Email	• The Town agreed with the CSA SPE-1000 code excerpts and asked that the documentation be included in future permitting applications.
• General Manager of Growth & Expansion/ Chief Building Official	October 18, 2024; Email	• Atura Power's consultants sent a follow-up to confirm that the Town received their previous correspondence and if they could schedule a pre-consultation meeting in the coming weeks.
• General Manager of Growth & Expansion/ Chief Building Official	October 22, 2024; Email	• The Town sent the dates and times that would work for them to have a meeting.
• General Manager of Growth & Expansion/ Chief Building Official	October 23, 2024; Email	• Atura Power's consultants asked if it would be easier to send a meeting poll and to schedule that way to confirm everyone needing to attend might be able to do so.
• General Manager of Growth & Expansion/ Chief Building Official	October 25, 2024; Email	• The Town noted a poll would be helpful and that they added the additional Town reviewers to the email chain. They also asked to provide the documents that will be referenced in the meeting to allow for the team to review them in advance of the meeting and there may need to be a separate pre-consultation meeting with MTO as they have a new portal. • Atura Power's consultants responded noting they would send the poll with the submitted materials attached. • Atura Power's consultants sent a meeting poll for a Site Plan Pre-Consultation meeting with the Town and reviewers to discuss the project and related requirements for a complete Site Plan Application under the <i>Planning Act</i>.
• General Manager of Growth & Expansion/ Chief Building Official, Deputy Fire Chief	November 5, 2024; Meeting	• Atura Power presented at the Project Site Plan Pre-Consultation Meeting. During the meeting, Atura Power committed to adding to the existing berm south of the NGS facility and extending the berm to the project using excavated soils from construction at the Town's request.
• General Manager of Growth & Expansion/ Chief Building Official, Deputy Fire Chief	November 11, 2024; Email	• Atura Power's consultants sent the attendees of the Site Plan Pre-Consultation Meeting a copy of the presentation provided at the meeting.
• Town of Greater Napanee Consultant	November 11, 2024; Email	• Atura Power's consultants sent the Draft Natural Heritage Existing Conditions Report prepared as a part of the EA process, for the Town's review. It was noted the report would be shared with Indigenous communities and that a separate memo would be prepared regarding the bat survey and findings to form part of the complete Site Plan Application submission.
• General Manager of Growth & Expansion/ Chief Building Official	November 13, 2024; Email	• Atura Power's consultants emailed the Town to request digital copies of the approved site plan drawings for the NGS as Atura Power does not have copies from when they purchased the facility. • The Town sent a link to a folder of the digital copies of the approved site plan drawings for the NGS.
• General Manager of Growth & Expansion/ Chief Building Official	November 27, 2024; Email	• Atura Power's consultants followed up with the Town on the status of the Town's comments following the November 9, 2024, Pre-Consultation meeting and confirmed consultation with MTO has been initiated. • The Town responded to confirm comments are being prepared. • Atura Power's consultants thanked the Town for the update.
• General Manager of Growth & Expansion/ Chief Building Official	December 2, 2024; Email	• The Town provided comments following the November 9, 2024, Pre-Consultation meeting. • Atura Power's consultants responded and thanked the Town for providing comments and inquired where follow up questions should be directed.
• General Manager of Growth & Expansion/ Chief Building Official	December 3, 2024; Email	• The Town responded and noted that questions could be filtered through the General Manager of Growth & Expansion. • Atura Power's consultants thanked the Town for confirming where to direct follow-up questions.

8.5 Agency Engagement

Table 8-5 documents the correspondence between agencies and the project team following the distribution of the NoC on April 8, 2024. The records of engagement documenting emails received are provided in a report in **Appendix C**.

In addition to the communications described in **Table 8-5**, the project team has had ongoing communications with MECP regarding the applicable compliance approach and associated approval(s) for the project including amendments to existing ECAs. Key activities include:

- July 16, 2024: Atura Power met with MECP regarding Stormwater Management and ECA amendment application for Industrial Sewage Works.
- September 20, 2024: Atura Power met with MECP to provide information and status on the EA for the project, and to discuss air modelling considerations to prepare for an ECA amendment application for Air and Noise.
- November 5, 2024: Atura Power met with MECP to discuss the ECA amendment application for Air and Noise. Discussions focussed on technical components of acoustic modelling.
- February 4, 2025: Atura Power submitted the SWMP to MECP Regional Technical Support Section for review.
- March 6, 2025: Atura Power submitted ECA (Industrial Sewage Works) amendment application to MECP.
- March 17, 2025: MECP provided an automated notice to Atura Power that the ECA (Industrial Sewage Works) amendment application had been received.

Table 8-5: Summary of Correspondence with Agencies

Organisation	Department	Communication Method and Date	Communication Summary
Cataraqui Region Conservation Authority (CRCA)	Development Review	October 25, 2024; Email	• Confirmed a Site Plan pre-consultation meeting between CRCA and Atura Power to discuss the requirements for a complete Site Plan Application under the <i>Planning Act</i> will be held with the Town of Greater Napanee and CRCA.
		November 5, 2024; Virtual Meeting	• Atura Power presented at the Project Site Plan Pre-Consultation Meeting attended by the Town and CRCA.
		November 11, 2024; Email	• Materials from the meeting on November 5, 2024, were shared with CRCA.
		November 12, 2024; Email	• CRCA responded to the pre-consultation meeting held on November 5, 2024, to summarise comments for the project. CRCA identified the need for a permit under O. Reg. 41/24 for works within CRCA's regulated area adjacent to the north-south watercourse. Additionally, an updated SWMP is recommended as part of the Site Plan submission and best practises and mitigation measures will be required in consideration of the project site being location within an IPZ 2.
Hydro One Networks Inc. (HONI)	Secondary Land Use Asset Optimisation Strategy & Integrated Planning	May 24, 2024; Email	• A representative from HONI shared HONI's response to the NoC. In the response, HONI confirmed that there are no existing HONI transmission assets in the project site. The response closed with the request for Atura Power to contact HONI if plans for the undertaking change or the project site expands beyond that shown in the project materials. No other comments were raised.
Impact Assessment Agency of Canada (IAAC)	Ontario Regional Office	August 1, 2024; Email	• IAAC request confirmation of the project's maximum nameplate capacity for the proposed project and existing NGS and clarification of whether the Napanee BESS will include a gas-fired turbine.
		August 6, 2024; Email	• Atura Power confirmed receipt of IAAC's inquiry and will respond shortly.
		August 12, 2024; Email	• Atura Power confirmed a production capacity of 1,040 MW for the existing NGS and 1,470 MW for the proposed project, and that the Napanee BESS does not include a gas-fueled turbine.
		August 15, 2024; Email	• IAAC thanked Atura Power for provided the requested information.
Ministry of Citizenship and Multiculturalism (MCM)	Heritage Planning Unit	May 10, 2024; Email	• MCM thanked Atura Power for providing the NoC for the project and shared MCM's initial response to the NoC. In the attached response, MCM noted a Stage 1 & 2 Archaeological Assessment was completed and recommends that the licensed archaeologist submit the report to MCM prior to the issuance of the Notice of Completion. They asked to advise them as to whether any technical cultural heritage studies will be completed for this EA project and provide them before issuing a Notice of Completion or commencing any work on the site.
	Heritage Planning Unit	January 7, 2025; Email	• Submission of the Stage 1 & 2 Archaeological Assessment Report to MCM for review.
	Heritage Planning Unit	February 12, 2025; Email	• Atura Power's consultants submitted the Cultural Heritage Impact Assessment for the project for MCM's review and approval.
	Heritage Planning Unit	February 13, 2025; Email	• MCM responded to Atura Power's consultants and thanked them for sharing the Cultural Heritage Impact Assessment report. MCM noted they would review the document and provide comments by mid to late March.
	Heritage Planning Unit	February 21, 2025; Email	• Atura Power's consultants replied and thanked MCM for the confirmation of receipt and for providing a timeline.
	Heritage Planning Unit	February 21, 2025; Email	• MCM reviewed the Stage 1 & 2 Archaeological Assessment Report filed by Atura Power's Archaeology consultants on January 7, 2025, and requested revisions to the report.
	Heritage Planning Unit	March 4, 2025; Email	• Atura Power's Archaeology consultants submitted the revised Stage 1 & 2 Archaeological Assessment Report addressing MCM's comments via MCM's online submission portal.
Ministry of Environment, Conservation and Parks (MECP)	Environmental Assessments Branch	April 24, 2024; Email	• MCM issued a letter and email to Atura Power indicating that the Stage 1 & 2 Archaeological Assessment Report has been deemed compliant with ministry requirements for archaeological fieldwork and reporting. It has been entered into the <i>Ontario Public Register of Archaeological Reports</i> .
	Environmental Assessments Branch	March 13, 2025; Email	• MECP confirmed receipt of the NoC, provided preliminary comments and guidance documents on Areas of Interest and Species at Risk, and confirmed the list of Indigenous communities to be engaged on the project would be reviewed by pertinent staff.
Ministry of Transportation	Operations Division, Highway Operations	January 17, 2025; Phone Call	• Atura Power submitted the draft ERR to MECP for review.
	Operations Division, Highway Operations	January 22, 2025; Email	• Atura Power and MTO discussed permitting requirements. MTO confirmed comments will be provided directly to the Town during the Site Plan Application process as Traffic Impact Study requirements may be different for the Town than for MTO, that a Registry, Appraisal and Qualification System (RAQS) consultant is required, and that MTO may be able to provide the required data.
Ontario Energy Board (OEB)	Public Information Centre	April 9, 2024; Email	• Atura Power's consultants confirmed documentation including the Study Terms of Reference had been uploaded to the Corridor Management portal for review. Atura Power's consultants requested MTO's response to the request for additional background data, guidance for obtaining Highway 33 as-built plans, and if project timing updates should be provided to Loyalist Township or MTO directly.
			• A representative from OEB thanked Atura Power for contacting them on April 8, 2024, and that the information has been shared with the appropriate OEB staff.

8.6 Indigenous Community Engagement

8.6.1 Summary of Engagement with Indigenous Communities

Atura Power engaged with ADFN, BSFN, CGIFN, CRFN, CLFN, HFN, HWN, KN, MSIFN, and MBQFN prior to publicly issuing the NoC, and has since worked to foster continuous dialogue with these communities. The following **Sections 8.6.1.1 to 8.6.1.10** provide a narrative of the engagement undertaken with these ten communities from the pre-engagement phase in October 2023 to March 31, 2025. Although the ERR documents engagement up until March 31, 2025, engagement is ongoing and Atura Power is committed to a continuous process of relationship-building and communication with Indigenous communities.

Correspondence records capturing engagement between Atura Power and each Indigenous community have been shared directly with each Indigenous community engaged during the Environmental Screening Process.

8.6.1.1 Summary of Engagement with Alderville First Nation

In October of 2023, Atura Power reached out to ADFN to introduce the project and to invite ADFN to a Public Community Meeting later that month. ADFN sought further information on the project.

In November 2023, Atura Power sent an invitation to ADFN by mail to invite them to a virtual Public Community Meeting at the end of the month and provided further details on the project.

In December 2023, Atura Power shared the materials from the October 2023 Public Community Meeting with ADFN.

In January 2024, Atura Power provided ADFN information on the scheduled archaeological work and information for the ecological visits, as well as reaching out to the other communities to have combined meetings about the project.

In February 2024, Atura Power met with ADFN, CLFN, HFN and MSIFN to provide a technical update on the project's progress, share feedback, and gather comments. Meetings between Atura Power and these four nations, the Mississauga communities of the WTFNs, have since been recurring on a monthly basis.

In March of 2024, Atura Power met with ADFN CLFN, and MSIFN, to provide further technical updates, as well as to discuss the need for monitors and funding agreements.

In April 2024, the NoC was sent to ADFN. ADFN participated in another meeting held in April 2024 to discuss progress updates on the project such as the site plans and further description, and to note that work for ECAs related to stormwater, air and noise were being modelled.

In May 2024 email correspondence between Atura Power and ADFN confirmed that the Stage 2 archaeology fieldwork would commence that month, and ADFN liaisons and monitors participation in the work during May and June was coordinated. Through May 2024, archaeology work continued with monitors from ADFN.

In June 2024, an in-person meeting was held with ADFN and MSIFN to provide an update on the project and discuss the SWMP and required permits.

The month of July 2024 saw further archaeological work with monitors and in August 2024 Atura Power shared the tentative dates that the draft study would be available.

In September 2024, the Stage 1 & 2 Archaeological Assessment and Cultural Heritage Impact Assessment draft reports were shared with ADFN, as well as the updated schedule for the remaining draft reports. ADFN provided comments on the Stage 1 & 2 Archaeological Assessment on October 10, 2024.

In September 2024, Atura Power met with ADFN, CLFN, HFN and MSIFN to provide further technical updates.

In October 2024, Atura Power shared meeting minutes and the presentation from the September 2024 meeting. Upcoming reports that will be shared for review and planning a site visit were also discussed. ADFN submitted their comments on the Stage 1 & 2 Archaeological Assessment to Atura Power.

In November 2024, ADFN visited the NGS facility for a site tour and lunch meeting. Atura Power hosted a virtual meeting with ADFN, CLFN, HFN and MSIFN in late November to provide updates on the project.

In December 2024, Atura Power emailed ADFN, CLFN, HFN and MSIFN to share the November 2024 meeting minutes and resolve the technical issues with accessing previous files. Atura Power shared the draft Natural Heritage Existing Conditions Report and asked for review by mid-January 2025.

In January of 2025, discussions related to tree clearing, the construction schedule and timeline of reports, and seed-gathering protocols. Additionally, Atura Power provided responses to ADFN's comments on the Stage 1 & 2 Archaeological Assessment report. In late January, Atura Power shared a table with comments from ADFN, CLFN, HFN and MSIFN on the Stage 1 & 2 Archaeological Assessment, the Cultural Heritage Impact Assessment Report, the Archaeological Risk Management Plan and the Natural Heritage Existing Conditions Report and Atura Power's responses to the comments. Atura Power also provided the PTTW.

In February 2025, Atura Power and ADFN corresponded regarding dates for the monthly meeting series and the development of a template for capacity funding. Additionally, when MSIFN shared a potential approach for a turtle conservation study, ADFN voiced support. Atura Power shared the floodplain analysis, the SWMP, and the land use planning assessment with ADFN, CLFN, HFN and MSIFN.

In March 2025, discussions were held regarding construction monitoring, and Atura Power shared the meeting notes and PowerPoint deck from the February meeting. The archaeology team working with Atura Power reached out asking ADFN if they had a liaison available to monitor the construction with one of the field directors. Discussions ensued regarding if the weather would be appropriate for monitoring and Atura Power's approach. Atura Power notified ADFN, CLFN, HFN,

and MSIFN about the commencement of warehouse construction and invited monitors. After discussions about whether to delay due to weather and the nature of monitoring activities, ADFN proposed an intermittent monitoring program, to which Atura Power agreed. Atura power shared technical study documents for air quality, noise, and natural heritage with all communities including ADFN, as well as the draft ERR with an invitation to provide comments during the 30-day review period. ADFN responded confirming receipt and indicating no concerns about the consultation log.

8.6.1.2 Summary of Engagement with Beausoleil First Nation

In October of 2023, Atura Power reached out to BSFN to introduce the project and to invite BSFN to a Public Community Meeting later that month.

In November 2023, Atura Power followed up with BSFN and invited them to a virtual meeting near the end of the month and provide further details about the project.

In December 2023, Atura Power shared the materials from the October 2023 Public Community Meeting with BSFN. Later they also shared the minutes from the Public Community Meeting to keep the community informed.

In March 2024, Atura Power provided engagement information to BSFN and noted that there would be a collaborative monthly meeting with representatives from ADFN, CLFN, HFN and MSIFN to discuss Atura Power's planned projects and requested feedback from BSFN.

In April 2024, the NoC was sent to BSFN.

In September 2024, the Stage 1 and 2 Archaeological Assessment and Cultural Heritage Impact Assessment draft reports were shared with BSFN, as well as the updated schedule for the remaining draft reports.

In March 2025, Atura Power reached out to all communities including BSFN to share the draft ERR and invite comments during the 30-day comment period. Atura Power also shared the technical studies for air quality, noise, and natural heritage.

8.6.1.3 Summary of Engagement with Chippewas of Georgina Island First Nation

In October of 2023, Atura Power reached out to CGIFN to introduce the project and to invite CGIFN to a Public Community Meeting later that month.

In November 2023, Atura Power followed up with CGIFN and invited them to a virtual meeting near the end of the month and provided further details about the project.

In December 2023, Atura Power shared the materials from the October 2023 Public Community Meeting with CGIFN.

In April 2024, the NoC was sent to CGIFN.

In September 2024, the Stage 1 & 2 Archaeological Assessment and Cultural Heritage Impact Assessment draft reports were shared with CGIFN, as well as the updated schedule for the remaining draft reports.

In March 2025, Atura Power reached out to all communities including CGIFN to share the draft ERR and invite comments during the 30-day comment period. Atura Power also shared the technical studies for air quality, noise, and natural heritage. CGIFN responded indicating that the Land Acknowledgement for the ERR required amendment, which Atura Power has since amended in the final ERR.

8.6.1.4 Summary of Engagement with Chippewas of Rama First Nation

In October of 2023, Atura Power reached out to CRFN to introduce the project and to invite CRFN to a Public Community Meeting later that month.

In November 2023, Atura Power followed up with CRFN and invited them to a virtual meeting near the end of the month and provided further details about the project.

In December 2023, Atura Power shared the materials from the October 2023 Public Community Meeting with CRFN.

In April 2024, the NoC was sent to CRFN.

In September 2024, the Stage 1 & 2 Archaeological Assessment and Cultural Heritage Impact Assessment draft reports were shared with CRFN, as well as the updated schedule for the remaining draft reports.

In March 2025, Atura Power reached out to all communities including CRFN to share the draft ERR and invite comments during the 30-day comment period. Atura Power also shared the technical studies for air quality, noise, and natural heritage.

8.6.1.5 Summary of Engagement with Curve Lake First Nation

In October of 2023, Atura Power reached out to CLFN to introduce the project and to invite CLFN to a Public Community Meeting later that month.

In November 2023, Atura Power emailed CLFN an invitation to a site visit and lunch to discuss the project.

In December 2023, Atura Power hosted a meeting to present project information. Later in December 2023, Atura Power shared the materials from the October 2023 Public Community Meeting with CLFN.

In January 2024, Atura Power sent the ArcGIS files for the project and asked to schedule a meeting to review or clarify the provided information.

In February 2024, email communications focussed on planning for an upcoming meeting with ADFN, CLFN, HFN and MSIFN. Atura Power met with ADFN, CLFN, HFN and MSIFN to provide a technical update on the project's progress, share feedback, and gather comments.

In March 2024, Atura Power met with ADFN, CLFN and MSIFN, to provide technical updates on the project and discuss monitor participating in upcoming fieldwork.

In April 2024, the NoC was sent to CLFN. During late April 2024, Atura Power met with ADFN, CLFN, HFN and MSIFN again to discuss progress updates on the project such as the site plans and further description, and to note that ECA amendment applications were being prepared related to stormwater, air and noise.

In May 2024, Atura Power shared materials from the April 2024 meeting, provided digital access to project materials and discussed planning for an upcoming meeting.

In June 2024, details were shared with CLFN for an earlier meeting hosted by MSIFN.

Communication in July 2024 focussed on coordinating a meeting between CLFN and Atura Power.

In September 2024, the Stage 1 & 2 Archaeological Assessment and Cultural Heritage Impact Assessment draft reports were shared with CLFN, as well as the updated schedule for the remaining draft reports.

In September 2024, Atura Power met with ADFN, CLFN, HFN and MSIFN to provide further technical updates.

In late November 2024, the meeting materials were delivered for the meeting with ADFN, CLFN, HFN and MSIFN. Atura Power hosted a virtual meeting with ADFN, CLFN, HFN and MSIFN in late November to provide updates on the project.

In December 2024, Atura Power emailed ADFN, CLFN, HFN and MSIFN to share the November 2024 meeting minutes, resolve the technical issues with accessing previous files. Atura Power shared the draft Natural Heritage Existing Conditions Report and asked for review by mid-January 2025.

In January of 2025, discussions related to tree clearing, the construction schedule and timeline of reports, and seed-gathering protocols. Atura Power provided digital access to project files, including all the files for the meetings with ADFN, CLFN, HFN and MSIFN. CLFN submitted their comments on the Natural Heritage Existing Conditions Report.

In late January, Atura Power shared a table with comments from ADFN, CLFN, HFN and MSIFN on the Stage 1 & 2 Archaeological Assessment, the Cultural Heritage Impact Assessment Report, the Archaeological Risk Management Plan and the Natural Heritage Existing Conditions Report and Atura Power's responses to the comments. Atura Power also provided the PTTW.

In February 2025, Atura Power shared the floodplain analysis, the SWMP, and the land use planning assessment with ADFN, CLFN, HFN and MSIFN. Atura Power emailed CLFN asking for a contact for employment and training initiatives. Atura Power hosting the monthly meeting with ADFN, CLFN, HFN and MSIFN to discuss project updates.

In March 2025, Atura Power corresponded with CLFN regarding capacity benefits, and Atura Power shared the meeting notes and PowerPoint deck from the February monthly meeting. A discussion occurred clarifying Atura Power's response to earlier recommendations regarding archaeological monitoring from ADFN. Atura Power hosted the monthly meeting with ADFN, CLFN, HFN and MSIFN to discuss project updates. Atura power shared technical study documents for air

quality, noise, and natural heritage, as well as the draft ERR with an invitation to provide comments during the 30-day review period. Atura Power notified ADFN, CLFN, HFN, and MSIFN about the commencement of warehouse construction and invited monitors. CLFN informed that although unable to send out monitors, CLFN would like to be kept apprised of activity results and future opportunities.

8.6.1.6 Summary of Engagement with Hiawatha First Nation

In October of 2023, Atura Power reached out to HFN to introduce the project and to invite HFN to a Public Community Meeting later that month.

In November 2023, Atura Power emailed HFN an invitation to a site visit to discuss project plans.

In December 2023, Atura Power hosted a meeting to present project information. Later in December 2023, Atura Power shared the materials from the October 2023 Public Community Meeting with HFN.

In January 2024, Atura Power sent the ArcGIS files for the project and asked to schedule a meeting to review or clarify the provided information.

In February 2024, Atura Power met with the ADFN, CLFN, HFN and MSIFN to provide a technical update on the project's progress, share feedback, and gather comments.

In April 2024, the NoC was sent to HFN. In late April 2024, Atura Power met with ADFN, CLFN, HFN and MSIFN to discuss progress updates on the project such as the site plans and further description, and to note that work for ECAs related to stormwater, air and noise were being prepared.

In May 2024, Atura Power shared materials from the April 2024 meeting and provided digital access project materials. Atura Power also reached out in May 2024 to discuss the Stage 2 archaeology fieldwork and coordinate monitor participation. Atura Power met with ADFN, CLFN, HFN and MSIFN to discuss the project receiving an IESO contract and monitor participation in upcoming fieldwork.

In June 2024 details were shared with HFN for an earlier meeting hosted by MSIFN, as well as the materials from that meeting. In late June 2024, Atura Power noted the upcoming work that will require archaeological monitoring in July 2024.

In August 2024, Atura Power had a meeting with HFN to discuss updates on the project, as well as engagement throughout the EA process, and provided documents for HFN to review.

In September 2024, the Stage 1 & 2 Archaeological Assessment and Cultural Heritage draft reports were shared with HFN, as well as the updated schedule for the remaining draft reports.

In September 2024, Atura Power met with ADFN, CLFN, HFN and MSIFN to provide further technical updates.

In October 2024, Atura Power shared the meeting minutes and presentation from the earlier September 2024 meeting.

In November 2024, Atura Power hosted a virtual meeting with ADFN, CLFN, HFN and MSIFN to provide updates on the project.

In December 2024, Atura Power emailed ADFN, CLFN, HFN and MSIFN to share the November 2024 meeting minutes, resolve the technical issues with accessing previous files. Atura Power shared the draft Natural Heritage Existing Conditions Report and asked for review by mid-January 2025.

In January of 2025, discussions were related to tree clearing, the construction schedule and timeline of reports, and seed-gathering protocols. Atura Power provided digital access to project materials, including all the minutes of the meetings with ADFN, CLFN, HFN and MSIFN. In late January, Atura Power shared a table with comments from ADFN, CLFN, HFN and MSIFN on the Stage 1 & 2 Archaeological Assessment, the Cultural Heritage Impact Assessment Report, the Archaeological Risk Management Plan and the Natural Heritage Existing Conditions Report and Atura Power's responses to the comments. Atura Power also provided the PTTW.

In February 2025, discussions concerned capacity funding, Atura Power shared the floodplain analysis, the SWMP, and the land use planning assessment with ADFN, CLFN, HFN and MSIFN. Atura Power hosting the monthly meeting with ADFN, CLFN, HFN and MSIFN to discuss project updates.

In March 2025, Atura Power shared the meeting notes and PowerPoint deck from the February meeting. Atura Power hosting the monthly meeting with ADFN, CLFN, HFN and MSIFN to discuss project updates. The archaeologist working for Atura Power reached out to HFN in advance of the wider invitation asking if HFN had a liaison available for upcoming construction activities, which HFN did. Atura Power notified ADFN, CLFN, HFN, and MSIFN about the commencement of warehouse construction and invited monitors. CLFN informed that although unable to send out monitors, they would like to be kept apprised of activities and results. Atura Power shared technical study documents for air quality, noise, and natural heritage to all communities including HFN, as well as the draft ERR with an invitation to provide comments during the 30-day review period. HFN indicated that they have no questions or concerns currently but will reach out if any arise.

8.6.1.7 Summary of Engagement with Huron Wendat Nation

In October of 2023, Atura Power reached out to HWN to introduce the project and to invite HWN to the Public Community Meeting later that month.

In April 2024, the NoC was sent to HWN. HWN requested further project information and expressed interest in participating in economic development opportunities.

In May 2024 discussions were focussed archaeological fieldwork for the project, monitor participation in fieldwork and opportunities to review technical reports. Atura Power met with HWN to discuss the project. HWN expressed interest in archaeological field work and collaborating with Atura Power for construction activities. Later, Atura Power shared the meeting minutes and presentation. Efforts were made to coordinate HWN monitor participation for the Stage 2 archaeology fieldwork.

In September 2024, the Stage 1 & 2 Archaeological Assessment and Cultural Heritage Impact Assessment draft reports were shared with HWN, as well as the updated schedule for the remaining draft reports.

In March 2025, Atura Power reached out to all communities including HWN to share the draft ERR and invite comments during the 30-day comment period. HWN shared that recent correspondence was missing from the consultation log, and without funding they were unable to review the archaeological assessment and confirm that there are no risks to their rights and archaeological heritage. Atura Power followed up indicating that they can still provide capacity funding for the ERR review if HWN is interested.

8.6.1.8 Summary of Engagement with Kawartha Nishnawbe

In December 2023 Atura Power emailed KN to share minutes from a recent Public Community Meeting.

In April 2024, the NoC was sent to KN. KN and Atura Power met in April 2024 to discuss the project, and KN noted that if the project is in Treaty 20 Lands then they would be interested in participating in archaeological work.

In May 2024, Atura Power followed up with KN and provided the minutes from the April 2024 meeting.

In September 2024, the Stage 1 & 2 Archaeological Assessment and Cultural Heritage Impact Assessment draft reports were shared with KN, as well as the updated schedule for the remaining draft reports.

In March 2025, Atura Power reached out to all communities including KN to share the draft ERR and invite comments during the 30-day comment period. Atura Power also shared the technical studies for air quality, noise, and natural heritage. KN requested a meeting with Atura Power to discuss the project, and the meeting took place on March 27, 2025.

8.6.1.9 Summary of Engagement with Mississaugas of Scugog Island First Nation

In October of 2023, Atura Power reached out to MSIFN to introduce the project and invite MSIFN to the Public Community Meeting later that month.

In November 2023, Atura Power sent an invitation to MSIFN by mail to invite them to a virtual Public Community Meeting at the end of the month and provided further details on the project.

In December 2023, Atura Power shared the materials from the October 2023 meeting with MSIFN. Atura Power met with MSIFN to introduce and present project information.

In February 2024, Atura Power noted that ADFN had proposed a collaborative meeting with ADFN, CLFN, HFN and MSIFN and Atura Power to better discuss the project and share information. MSIFN responded that they would be pleased to participate in such a group, and further correspondence discussed capacity funding agreements between Atura Power and MSIFN. Atura Power then met with ADFN, CLFN, HFN and MSIFN to provide a technical update on the project's

progress, share feedback, and gather comments. Subsequent discussions between Atura Power and MSIFN included the project, timeline, and relationship building.

In March 2024, Atura Power noted they would share the meeting minutes from the previous meeting as well as a comment tracker, presentation, and reports and assessments for review. Atura Power met with ADFN, CLFN and MSIFN to provide further technical updates, as well as to discuss the need for monitors and funding agreements.

In April 2024, the NoC was sent to MSIFN. Later in April, Atura Power thanked MSIFN for attending the March 2024 meeting and provided the meeting materials. In late April 2024, Atura Power met with ADFN, CLFN, HFN and MSIFN to discuss progress updates on the project such as the site plans and further description, and to note that work for ECAs related to stormwater, air and noise were being prepared.

In May 2024, Atura Power shared materials from the April 2024 meeting and provided digital access to project materials. In late May 2024, Atura Power met with ADFN, CLFN, HFN and MSIFN to discuss the project receiving an IESO contract, as well as discussing monitor participation in upcoming fieldwork.

In June 2024, Atura Power emailed and phoned with MSIFN to coordinate an in-person meeting. Later in the month, Atura Power met with MSIFN and members from ADFN to provide updates on the SWMP and other permits for the project. Atura Power noted a meeting would be held to introduce Site Liaisons during construction.

In July 2024, Atura Power confirmed attendance to the MSIFN Pow Wow, which they later attended.

In August 2024, Atura Power shared the tentative dates that the draft studies would be available.

In September 2024, the Stage 1 & 2 Archaeological Assessment and Cultural Heritage Impact Assessment draft reports were shared with MSIFN, as well as the updated schedule for the remaining draft reports.

In September 2024, Atura Power met with ADFN, CLFN, HFN and MSIFN to provide further technical updates.

In October 2024, MSIFN provided comments on the draft Archaeological Assessment and Cultural Heritage Impact Assessment reports.

In November 2024, MSIFN visited the NGS facility for an in-person meeting and tour. Atura Power hosted a virtual meeting with ADFN, CLFN, HFN and MSIFN in late November to provide updates on the project.

In December 2024, Atura Power emailed ADFN, CLFN, HFN and MSIFN to share the November 2024 meeting minutes, resolve the technical issues with accessing previous files. Atura Power shared the draft Natural Heritage Existing Conditions Report and asked for review by mid-January 2025.

In January 2025, MSIFN provided comments on the draft Natural Heritage Existing Conditions report, and Atura Power provided responses to all comments on draft reports to date. Discussions were also held regarding tree clearing, the construction schedule and timeline of reports. MSIFN suggested that Atura Power consider developing a seed-gathering protocol to maintain genetic diversity in the area, and discussions on the co-development of this protocol are ongoing. Atura Power provided digital access to project materials, including all the files for the meetings with ADFN, CLFN, HFN and MSIFN. In late January, Atura Power shared a table with comments from ADFN, CLFN, HFN and MSIFN on the Archaeological Report, the Cultural Heritage Impact Assessment Report, the Archaeological Risk Management Plan and the Natural Heritage Existing Conditions Report and Atura Power's responses to the comments. Atura Power also provided the PTTW.

In February 2025, Atura Power and MSIFN corresponded regarding dates for the monthly meeting series. Discussion continued about MSIFN's participation in tree-clearing activities. MSIFN shared responses to Atura power's disposition of comments on the natural heritage report, as well as a request for the ERR, air quality report, and a SAR map when available. Atura Power emailed asking for a contact for employment and training initiatives, which MSIFN provided. MSIFN proposed an approach for seeking funding for the turtle study that was discussed during the monthly meetings and Atura Power indicated support. Atura Power shared the floodplain analysis, the SWMP, and the land use planning assessment with ADFN, CLFN, HFN and MSIFN. Atura Power hosting the monthly meeting to discuss project updates.

In March 2025, Atura Power shared the meeting notes and PowerPoint deck from the February meeting. Atura Power hosting the monthly meeting with ADFN, CLFN, HFN and MSIFN to discuss project updates, integrating a discussion about hydrogen fuel use into the meeting agenda in response to questions raised by MSIFN. Atura power shared technical study documents for air quality, noise, and natural heritage, as well as the draft ERR with an invitation to provide comments during the 30-day review period. Atura Power notified ADFN, CLFN, HFN, and MSIFN about the commencement of warehouse construction and invited monitors.

8.6.1.10 Summary of Engagement with Mohawks of the Bay of Quinte First Nation

In October of 2023, Atura Power reached out to MBQFN to introduce the project and to invite MBQFN to the Public Community Meeting later that month.

In November 2023, Atura Power sent an invitation to MBQFN by mail to invite them to a virtual Public Community Meeting at the end of the month and provided further details on the project.

In December 2023, Atura Power shared the materials from the October 2023 Public Community Meeting with MBQFN.

In January 2024, Atura Power requested a meeting to the project.

In April 2024, the NoC was sent to MBQFN.

In May 2024, MBQFN requested records of the Public Community Meeting held in November 2023 as part of the LT1 procurement process, which Atura Power provided. MBQFN also noted interest

in the archaeology findings and the environmental study aspects of the project. Atura Power requested a meeting near the end of May 2024.

In June 2024, Atura Power responded to MBQFN's questions about archaeology and noted they would share project updates and information as they received it. Atura Power also suggested a meeting to discuss the project in more detail. Atura Power shared information on the archaeological work and opportunity for monitor participation in June.

In July 2024, Atura Power offered an in-person meeting with MBQFN.

In August 2024, Atura Power shared the tentative schedule of availability for the draft studies and provided the opportunity to meet with technical leads to discuss studies prior to the draft reports.

In September 2024, the Stage 1 & 2 Archaeological Assessment and Cultural Heritage Impact Assessment draft reports were shared with MBQFN, as well as the updated schedule for the remaining draft reports. In late September 2024, Atura Power offered to coordinate a meeting with MBQFN to provide updates on the project.

In March 2025, Atura Power reached out to all communities including MBQFN to share the draft ERR and invite comments during the 30-day comment period. Atura Power also shared the technical studies for air quality, noise, and natural heritage. Following a phone call, Atura Power reached out to discuss opportunities for MBQFN to review the draft ERR.

8.7 Draft Environmental Review Report

Atura Power shared a draft ERR with Indigenous communities on March 12, 2025. The purpose of sharing a draft ERR was to provide Indigenous communities with the opportunity to provide comments, perspectives, questions, or concerns regarding the draft ERR prior to Atura Power preparing and publishing the final ERR. A copy of the draft ERR was also provided to the MECP for review and comment on March 13, 2025. Throughout this process, feedback and comments received about the draft ERR have been responded to and incorporated into the final ERR where applicable.

8.8 Notice of Completion

The Notice of Completion informs all interested parties when the ERR process is complete and provides details regarding the 30-day review and comment period for the ERR. As required by the Guide, the notice includes: a map identifying the project location; the proponent and contact information; a description of the project; the results of the ERR; details regarding the review period; the online location where the ERR may be reviewed; and instructions for making an elevation request in accordance with the provisions of the Guide. The Notice of Completion was distributed to the same project contacts who received the NoC via the same methods as on April 8, 2024, as well as the same newspaper publications. A copy of the Notice of Completion is available in **Appendix C**.

8.9 Elevation Requests

Indigenous communities, members of the public, or agencies with unresolved project concerns can ask the proponent to voluntarily elevate the project from the Environmental Review Stage to a comprehensive EA at any time during the Environmental Screening Process. A written request to elevate the project may also be provided directly to the Minister during the 30-day review period if concerns persist. Written requests to the Minister are required to include specific information and to be distributed directly to the Minister, the Director and the proponent as identified in the Guide.

In the event of an elevation request, additional time may be provided to allow the proponent and concerned party to continue discussions toward resolution. If concerns remain unresolved and an elevation request is submitted to the Minister, within 30 days of receiving the elevation request, the Minister or Director will decide to do one of the following:

- deny the request for elevation;
- deny the request for elevation with conditions;
- refer the matter to mediation before making a decision;
- require the proponent to conduct further studies before making a decision; or
- require the proponent to prepare a comprehensive EA.

If no elevation requests are received, Atura Power will submit a Statement of Completion to MECP for the Environmental Screening Process. Additional information about elevation requests can be found in Section B.4.1.1 of the Guide.

9. Environmental Advantages and Disadvantages

A summary of the overall advantages and disadvantages of the project are identified in this section as well as an overall conclusion as to whether the negative net environmental effects of the project are acceptable, based on a balanced assessment against the positive benefits.

9.1 Proposed Project Advantages

To prepare for future electricity demands and support a reliable grid for Ontarians, IESO conducted procurement processes to secure new electricity resources, including new natural gas facilities, which could be in service by 2027–2028. Atura Power is responding to the need for additional electricity resources by proposing the NGS Expansion project. The project was awarded an IESO contract through the LT1 RFP procurement process to increase Ontario's electricity generation, support grid reliability, and help advance Ontario's path to a net-zero future. The energy output from the proposed project will support the IESO in addressing the need for more electricity resources to help fuel the province's energy transition to non-emitting resources and maintain grid reliability by operating on demand in times when intermittent energy sources (e.g., wind and solar) cannot meet the demand.

The proposed project is an expansion of an existing generation facility, and the proposed project works will take place entirely within lands that have been disturbed, and optimises a brownfield land within an industrialised setting. Moreover, the expansion of an existing facility allows the project to take advantage of the proximity to existing transmission facilities, natural gas supply, and infrastructure, lessening the overall footprint that is required. Construction will bring economic benefits to the area through procurement of local labour and materials.

9.2 Proposed Project Disadvantages

While the project will help to address the energy supply gap in Ontario, it will contribute to air and noise emissions. The overall effects of air and noise are considered negligible after implementing mitigation measures and considered to be in accordance with applicable provincial standards. The proposed project will also contribute to a small increase in the overall provincial electricity sector generated GHGs but, as noted, is part of the solution to meet increased electricity demand that supports the broader decarbonisation of Ontario's economy.

9.3 Conclusion

A consideration of the overall advantages and disadvantages of the proposed project indicates that the project advantages outweigh the disadvantages. Further, following the implementation of mitigation measures, residual net effects are anticipated to be **negligible**. Atura Power will meet all regulatory requirements and standards and uphold all mitigation measures and commitments detailed in **Section 7**.

The proposed project is critical to meeting the province's need for the reliable and cost-effective operation of Ontario's electricity system during the transition to a net-zero economy.

Atura Power remains committed to continuing to build relationships with Indigenous communities and the local community beyond the EA process.

10. References

- Advance Archaeology. (2014). *Stage 1 and 2 Archaeological Assessment for the Napane Generating Station, Part of Lots 19, 20, and 21, Concession 1, Geographic Township of South Fredericksburgh in the County of Lennox & Addington, Now in the Town of Greater Napane.*
- Beacon. (2025). *Natural Heritage Technical Supporting Document.*
- Brook, J. T. (1997). The Relationship Among TSP, PM10, PM2.5 and. *Air Waste Mange, Assoc.*, 47:2-19.
- Burns & McDonnell. (2025a). *Stormwater Management Plan.*
- Burns & McDonnell. (2025b). *Industrial Sewage Report Addendum. Appendix E: Napane Generating Station Expansion Addendum Revision 3 (2024/02/26) -- Issued for Permitting.*
- Canadian Council of Ministers of the Environment. (2025). CAAQS. Retrieved from <https://ccme.ca/en/air-quality-report#slide-7>
- Cataraqui Region Conservation Authority. (2022). *Environmental Planning Policies Appendix I: Guidelines for Stormwater Management.*
- Cheminfo Services Inc. (2005). *Best Practices for the Reduction of Air Emissions from Construction and Demolition Activities.*
- Cheminfo Services Inc. (2005). *Best Practices for the Reduction of Air Emissions From Construction and Demolition Activities.* Markham.
- Climate Risk Institute. (2023). *Ontario Provincial Climate Change Impact Assessment Technical Report. Prepared by the Climate Risk Institute, Dillon Consulting, ESSA Technologies Ltd., Kennedy Consulting and Seton Stiebert for the Ontario Ministry of Environment, Conservation and Parks.* Retrieved from <https://www.ontario.ca/page/ontario-provincial-climate-change-impact-assessment>
- ClimateData.ca. (n.d.). *Napane, ON.* Retrieved from https://climatedata.ca/explore/location/?loc=FDGEA&location-select-temperature=txgt_32&location-select-precipitation=r10mm&location-select-other=frost_days
- ClimateData.ca. (n.d.). *Understanding Shared Socio-economic Pathways (SSPs).* Retrieved from <https://climatedata.ca/resource/understanding-shared-socio-economic-pathways-ssps/>
- County of Lennox & Addington. (2018). *County of Lennox & Addington Official Plan.* Retrieved from County of Lennox & Addington Official Plan: [https://www.lennox-addington.on.ca/sites/default/files/sites/default/files/Government/LA%20OP%20\(Feb%2013%202018\)includes%20OPA%201%20and%202.pdf](https://www.lennox-addington.on.ca/sites/default/files/sites/default/files/Government/LA%20OP%20(Feb%2013%202018)includes%20OPA%201%20and%202.pdf)
- Crowder, A. T. (1996). *Plants of the Kingston region.* Dept. of Biology, Queens University.
- ECCC. (2007, 12 17). *Priority Substances List Assessment Report for Respirable Particulate Matter.* Retrieved from <https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/environmental-contaminants/canadian-environmental-protection-act-1999-priority-substances-list-assessment-report-respirable-particulate-matter.html>

- ECCC. (2024, 10 01). *Canadian Climate Normals*. Retrieved from https://climate.weather.gc.ca/climate_normals/
- First Nations Major Projects Coalition. (2023). *The Indigenous Cultural Rights and Interests Toolkit: Spirit of the Lands: FNMPCC Technical and Policy Toolkit for Assessing and Seeking Restitution for Project-Specific and Cumulative Effects on Indigenous Cultural Rights*. Retrieved from <https://fnmpcc.ca/tools-and-resources/environmental-tools/>
- Government of Ontario. (2021). *O.Reg. 116/01: Electricity Projects*. Retrieved from <https://www.ontario.ca/laws/regulation/010116>
- Government of Ontario. (2023a). *Forest Resource Inventory Term 2 (T2) 2018-2028*. Retrieved from Ontario Geohub: <https://geohub.lio.gov.on.ca/maps/ca6def13e17540deb6e91d81e9cb2c89/explore?location=47.968187%2C-85.455800%2C6.40>
- Government of Ontario. (2023b). *Land Information Ontario*. Retrieved from Pits and Quarries Online: https://www.lioapplications.lrc.gov.on.ca/Pits_And_Quarries/index.html?viewer=Pits_and_Quarries.Pits_and_Quarries&locale=en-CA
- Government of Ontario. (2024a). *O.Reg. 50/24: Part II.3 Projects – Designations and Exemptions*. Retrieved from <https://www.ontario.ca/laws/regulation/r24050#BK7>
- Government of Ontario. (2024b). *O.Reg. 406/19: On-Site and Excess Soil Management*. Retrieved from <https://www.ontario.ca/laws/regulation/190406>
- Government of Ontario. (2024c). *O.Reg 63/16: Registrations Under Part 11.2 of the Act - Water Taking*. Retrieved from <https://www.ontario.ca/laws/regulation/160063>
- Human Toxicology and Air Standards Section, Technical Assessment and Standards. (2020). Retrieved from <https://files.ontario.ca/mecp-ambient-air-quality-criteria-list-en-2020-05-01.pdf>
- IEC. (2023). *Napanee Battery Energy Storage System Project Class Environmental Assessment Screening Process Summary Report*. Toronto: IEC.
- IEC. (2025). *Air Quality and Greenhouse Gas*.
- IEC. (2025a). *Groundwater Monitoring in Support of Napanee Generating Station Expansion Electricity Project*.
- IEC. (2025b). *Air Quality and Greenhouse Gas*.
- IEC. (2025c). *Ecological Risk and Terrestrial Noise Analysis*.
- IESO. (2021). *Six things to know about the IESO's study on phasing out gas-fired generation by 2030*. Retrieved from Independent Electricity System Operator: <https://www.ieso.ca/en/Powering-Tomorrow/2021/Six-things-to-know-about-the-IESOs-study-on-phasing-out-gas-fired-generation-by-2030>
- IESO. (2022). *2022 Annual Planning Outlook, Ontario's electricity system needs: 2024-2043*. Retrieved from <https://www.ieso.ca/-/media/Files/IESO/Document-Library/planning-forecasts/apo/Dec2022/2022-Annual-Planning-Outlook.pdf>

- IESO. (2022). *2022 Annual Planning Outlook, Ontario's electricity system needs: 2024-2043*. Retrieved from <https://www.ieso.ca/-/media/Files/IESO/Document-Library/planning-forecasts/apo/Dec2022/2022-Annual-Planning-Outlook.pdf>
- IESO. (2022a). *Annual Planning Outlook - Ontario's electricity system needs: 2024-2043*. Retrieved from IESO: <https://www.ieso.ca/en/Sector-Participants/Planning-and-Forecasting/Annual-Planning-Outlook>
- IESO. (2022b). *Pathways to Decarbonization: A report to the Minister of Energy to evaluate a moratorium on new natural gas generation in Ontario and to develop a pathway to zero emissions in the electricity sector*. Toronto: IESO.
- IESO. (2022c). *2021-2024 Conservation and Demand Management Framework Mid-Term Review*. Toronto: IESO.
- IESO. (2024a). *Electricity Demand in Ontario to Grow by 75 per cent by 2050*. Retrieved from <https://www.ieso.ca/Corporate-IESO/Media/News-Releases/2024/10/Electricity-Demand-in-Ontario-to-Grow-by-75-per-cent-by-2050>
- IESO. (2024b). *Annual Planning Outlook: Ontario's electricity system needs: 2025-2050*. Retrieved from <https://www.ieso.ca/en/Sector-Participants/Planning-and-Forecasting/Annual-Planning-Outlook>
- IESO. (2024c). *Six Graphs and a Map: 2024 Annual Planning Outlook and Emissions Update*. Retrieved from <https://www.ieso.ca/Powering-Tomorrow/2024/Six-Graphs-and-a-Map-2024-Annual-Planning-Outlook-and-Emissions-Update>
- Jupia Consultants Inc. (2020). *Live Here: Loyalist Township*. Jupia Consultants Inc. Retrieved from <https://naturallyla.ca/wp-content/uploads/2021/01/Loyalist-Residential.pdf>
- Lee, H. W. (1998). *Ecological Land Classification for Southern Ontario: First Approximation and Its Application*.
- Lennox and Addington County General Hospital. (2024). *Overview*. Retrieved from Lennox and Addington County General Hospital: <https://web.lacgh.napanee.on.ca/about/overview/>
- MHBC. (2024). *Napanee Generation Station Expansion Cultural Heritage Impact Assessment*.
- MHBC. (2025). *Land Use Planning Assessment*.
- Ministry of Agriculture, Food and Rural Affairs. (2023, November 22). *Ontario AgMaps*. Retrieved from <https://www.livemapapplications.lrc.gov.on.ca/AgMaps/Index.html?viewer=AgMaps.AgMaps&locale=en-CA>
- Ministry of Citizenship and Multiculturalism. (2006). *Ontario Heritage Tool Kit: Heritage Resources in the Land Use Planning Process*. Queens Printer for Ontario.
- Ministry of Energy and Electrification. (2023). *Powering Ontario's Growth: Ontario's Plan for a Clean Energy Future*. Retrieved from <https://www.ontario.ca/files/2023-07/energy-powering-ontarios-growth-report-en-2023-07-07.pdf>
- Ministry of Environment, Conservation and Parks. (2017, February). *Guideline A-11: Air Dispersion Modelling Guideline for Ontario, version 3.0*.
- Ministry of Municipal Affairs and Housing. (2011). *Growth Plan for Northern Ontario*. Government of Ontario. Retrieved from <https://www.ontario.ca/document/growth-plan-northern-ontario>

- Ministry of Municipal Affairs and Housing. (2017a). *Oak Ridges Moraine Conservation Plan*. Government of Ontario. Retrieved from <https://files.ontario.ca/oak-ridges-moraine-conservation-plan-2017.pdf>
- Ministry of Municipal Affairs and Housing. (2017b). *Greenbelt Plan*. Government of Ontario. Retrieved from <https://files.ontario.ca/greenbelt-plan-2017-en.pdf>
- Ministry of Municipal Affairs and Housing. (2020). *A Place to Grow: Growth Plan for the Greater Golden Horseshow*. Government of Ontario. Retrieved from <https://files.ontario.ca/mmah-place-to-grow-office-consolidation-en-2020-08-28.pdf>
- Ministry of Municipal Affairs and Housing Ontario. (2024). *Provincial Planning Statement*.
- Ministry of Natural Resources. (2013). Species at Risk on Ontario (SARO) List. 29.
- Ministry of Natural Resources. (2023). *Make A Map: Natural Heritage Area*. Retrieved from https://www.liaapplications.lrc.gov.on.ca/Natural_Heritage/index.html?viewer=Natural_Heritage.Natural_Heritage&locale=en-CA
- Ministry of Natural Resources and Forestry. (2017). *Niagara Escarpment Plan*. Niagara Escarpment Commission. Retrieved from https://files.ontario.ca/appendix_-_niagara_escarpment_plan_2017_-_oc-10262017.pdf
- Ministry of the Environment. (1978a). *Model Municipal Noise Control By-Law: MPC-115 Construction Equipment*. Toronto: Ontario MOE.
- Ministry of the Environment. (1978b). *Model Municipal Noise Control By-Law: NPC-118 Motorized Conveyances*. Toronto: Ontario MOE.
- Ministry of the Environment, Conservation and Parks. (1978). *Model Municipal Noise Control By-Law: NPC-115 Construction Equipment*. Toronto: Ontario MECP.
- Ministry of the Environment, Conservation and Parks. (1978). *Model Municipal Noise Control By-Law: NPC-118 Motorized Conveyances*. Toronto: Ontario MECP.
- Ministry of the Environment, Conservation and Parks. (2003). *Stormwater Management Planning and Design Manual*.
- Ministry of the Environment, Conservation and Parks. (2009). *Lake Simcoe Protection Plan*. Government of Ontario. Retrieved from <https://www.ontario.ca/document/lake-simcoe-protection-plan>
- Ministry of the Environment, Conservation and Parks. (2011, April 15). *Soil, ground water and sediment standards for use under Part XV.1 of the Environmental Protection Act*. Retrieved from <https://www.ontario.ca/page/soil-ground-water-and-sediment-standards-use-under-part-xv1-environmental-protection-act>
- Ministry of the Environment, Conservation and Parks. (2013). *Publication NPC-300 Environmental Noise Guideline - Stationary and Transportation Sources - Approval and Planning*. Toronto: Government of Ontario.
- Ministry of the Environment, Conservation and Parks. (2016a). *Guideline A-10: Procedure for Preparing an Emission Summary and Dispersion Modelling (ESDM) Report*. Retrieved from

- <https://www.ontario.ca/document/guideline-10-procedure-preparing-emission-summary-and-dispersion-modelling-esdm-report>
- Ministry of the Environment, Conservation and Parks. (2016b). *Guideline A-11: Air Dispersion Modelling Guideline for Ontario*. Retrieved from <https://www.ontario.ca/document/guideline-11-air-dispersion-modelling-guideline-ontario-0>
- Ministry of the Environment, Conservation and Parks. (2016c). *Guideline A-9: NOx Emissions from Boilers and Heaters*.
- Ministry of the Environment, Conservation and Parks. (2016d). *Ontario's Ambient Air Quality Criteria*. Retrieved April 2019, from <https://www.ontario.ca/page/ontarios-ambient-air-quality-criteria>
- Ministry of the Environment, Conservation and Parks. (2021a). *Air Contaminants Benchmarks List: standards, guidelines and screening levels for assessing point of impingement concentrations of air contaminants*.
- Ministry of the Environment, Conservation and Parks. (2021b, March). *Guideline A-5 Atmospheric Emissions from Stationary Combustion Turbines*. Retrieved from <https://www.ontario.ca/page/guideline-5-atmospheric-emissions-stationary-combustion-turbines#:~:text=Environment%20and%20energy-,Guideline%20A%2D5%20Atmospheric%20Emissions%20from%20Stationary%20Combustion%20Turbines,and%20modified%20stationary%20combusti>
- Ministry of the Environment, Conservation and Parks. (2022, August 09). *Landfill sites map*. Retrieved from <https://www.ontario.ca/page/landfill-sites-map>
- Ministry of the Environment, Conservation and Parks. (2024a). *Guide to Environmental Assessment Requirements for Electricity Projects*. Retrieved from https://prod-environmental-registry.s3.amazonaws.com/2024-04/Guide%20to%20EA%20Requirements%20for%20Electricity%20Projects_Feb%202024_02.pdf
- Ministry of the Environment, Conservation and Parks. (2024b). *Source Protection Information Atlas*. Government of Ontario. Retrieved from <https://www.liaapplications.lrc.gov.on.ca/SourceWaterProtection/index.html?viewer=SourceWaterProtection.SWPViewer&locale=en-CA>
- Ministry of Tourism and Culture. (2011). *Standards and Guidelines for Consultant Archaeologists*.
- Ministry of Tourism, Culture and Sport. (2022). *Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes*. Retrieved from Government of Ontario Central Forms Repository: <https://forms.mgcs.gov.on.ca/dataset/021-0500>
- Napanee Area Community Health Centre. (2024). *Napanee Area Community Health Centre*. Retrieved from Napanee Area Community Health Centre: <https://kchc.ca/napanee/napanee-area-community-health-centre/>
- Northeastern Archaeological Associates Ltd. (2024). *Napanee Generating Station Expansion Project Stage 1 & 2 Archaeological Assessment*.
- Oil, Gas and Salt Resources Corporation. (n.d.). Retrieved from Oil, Gas and Salt Resources Library: <https://maps.ogsrlibrary.com/>

- Ontario Heritage Trust. (2024). *Upper Gap Archaeological Site*. Retrieved from Ontario Heritage Trust: <https://www.heritagetrust.on.ca/plaques/upper-gap-archaeological-site>
- Ontario Ministry of Environment, Conservation and Parks (MECP). (2017, February). *Guideline A-11: Air Dispersion Modelling Guideline for Ontario, version 3.0*.
- SENES Consultants. (2014). Environmental Review Report - Napanee Generating Station. (p. 506). Richmond Hill: SENES Consultants.
- Statistics Canada. (2021). *Focus on Geography Series, 2021 Census of Population - Town of Greater Napanee*. Retrieved from Statistics Canada: <https://www12.statcan.gc.ca/census-recensement/2021/as-sa/fogs-spg/page.cfm?dguid=2021A00053511015&topic=1&lang=E>
- Terrapex Environmental Ltd. (2024a). *Phase II Environmental Site Assessment - Napanee Generating Station Expansion*.
- Terrapex Environmental Ltd. (2024b). *Phase II Environmental Site Assessment-Ontario Power Generation Lennox Generating Station Future Warehouse Lands*.
- Town of Greater Napanee. (2002). *By-Law 02-22: The Zoning By-Law of the Town of Greater Napanee*.
- Town of Greater Napanee. (2014). *The Official Plan of the Town of Greater Napanee*. Retrieved from <https://www.greaternapanee.com/en/your-town-hall/reports-studies-and-plans.aspx#Fees>
- Town of Greater Napanee. (2023). *By-Law No. 2023-0043 A by-law to regulate noise within the Town of Greater Napanee*. Napanee: Town of Greater Napanee.
- Trans-Plan. (2025). *Transportation Impact Study*.
- Treasury Board of Canada Secretariat. (2024). *Federal Contaminated Sites Inventory*. Retrieved from <https://map-carte.tbs-sct.gc.ca/map-carte/fcsi-rscf/map-carte.aspx?Language=EN&backto=www.tbs-sct.gc.ca/fcsi-rscf/cen-eng.aspx?dataset=prov&sort=name>
- US EPA. (2023, March). *Simple Cycle Stationary Combustion Turbine EGUs Technical Support Document*. Retrieved from <https://www.epa.gov/system/files/documents/2023-05/Simple%20Cycle%20Stationary%20Combustion%20Turbine%20EGUs%20TSD.pdf>
- Watercom Engineering Inc. (2025). *Floodplain Study Report*.

Appendix A

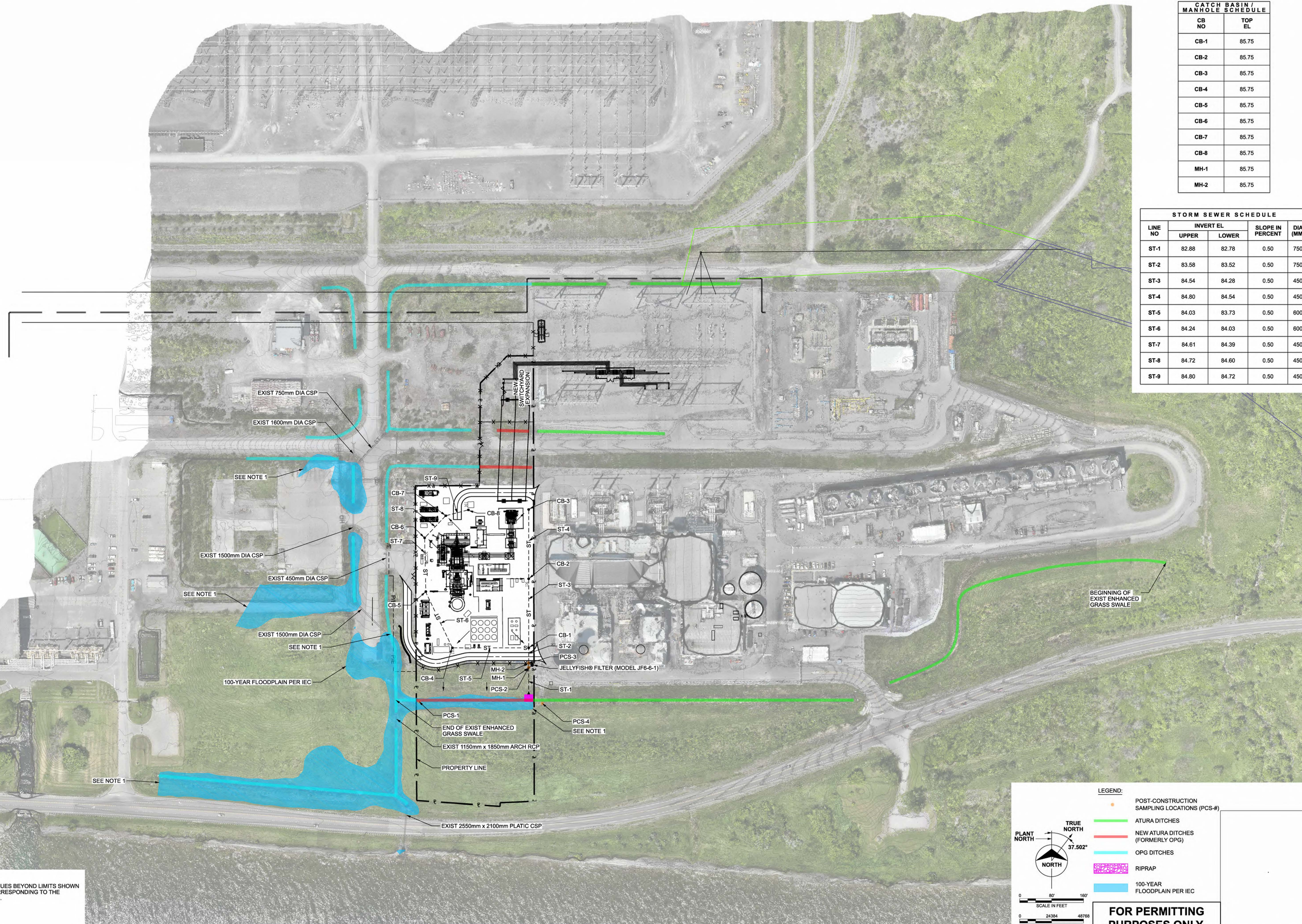
Preliminary Site Plan Drawings

- **Appendix A1 – Preliminary Site Plan Drawing: CE101 Sediment & Erosion Control Plan**
- **Appendix A2 – Preliminary Site Plan Drawing: CE102 for Sediment & Erosion Control Plan Details**
- **Appendix A3 – Preliminary Site Plan Drawing: CS103 for the Stormwater Plan (100-year floodplain)**
- **Appendix A4 – Preliminary Site Plan Drawing: CS101 Construction Site Plan Drawing**

**Appendix A1 – Preliminary Site Plan Drawing: CE101
Sediment & Erosion Control Plan**

**Appendix A2 – Preliminary Site Plan Drawing: CE102
for Sediment & Erosion Control Plan
Details**

**Appendix A3 – Preliminary Site Plan Drawing: CS103
for the Stormwater Plan (100-year
floodplain)**

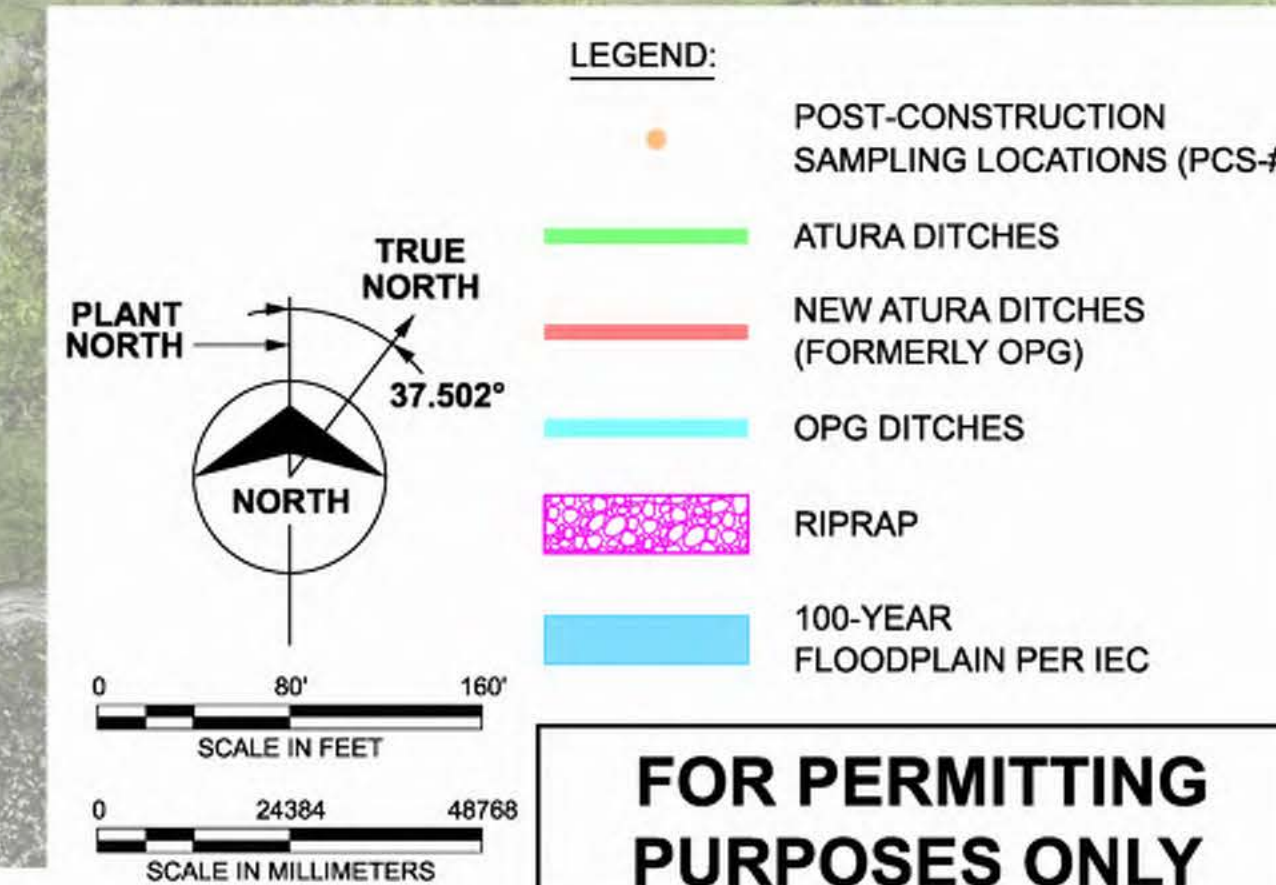


CATCH MANHOLE		BASIN / SCHEDULE
CB NO	TOP EL	
CB-1	85.75	
CB-2	85.75	
CB-3	85.75	
CB-4	85.75	
CB-5	85.75	
CB-6	85.75	
CB-7	85.75	
CB-8	85.75	
MH-1	85.75	
MH-2	85.75	

STORM SEWER SCHEDULE				
LINE NO	INVERT EL		SLOPE IN PERCENT	DIA (MM)
	UPPER	LOWER		
ST-1	82.88	82.78	0.50	750
ST-2	83.58	83.52	0.50	750
ST-3	84.54	84.28	0.50	450
ST-4	84.80	84.54	0.50	450
ST-5	84.03	83.73	0.50	600
ST-6	84.24	84.03	0.50	600
ST-7	84.61	84.39	0.50	450
ST-8	84.72	84.60	0.50	450
ST-9	84.80	84.72	0.50	450

NOTES:

1. 100-YEAR FLOODPLAIN CONTINUES BEYOND LIMITS SHOWN AT INDICATED LOCATIONS, CORRESPONDING TO THE EXTENTS OF MODELING BY IEC.

[illegible]

**BURNS
MCDONNELL**
9400 WARD PARKWAY
KANSAS CITY, MO 64114
816-333-9400
Burns & McDonnell Engineering Co, Inc.
Certificate of Authorization No. 10015528

Atura Power

**NAPANEE GENERATING STATION
EXPANSION
NAPANEE, ONTARIO**

NAPANEE GENERATING STATION EXPANSION PROJECT STORMWATER PLAN	
project	contract
170782	
drawing	rev.
CS103	
sheet	sheet
of	
file 170782\CS103.dgn	

**Appendix A4 – Preliminary Site Plan Drawing: CS101
Construction Site Plan Drawing**

Appendix B

Preliminary Water Balance Flow Diagrams

Appendix C

Records of Engagement

- **Appendix C1 – Project Contact List**
- **Appendix C2 – Distribution of Notice of Commencement and Invitation to a Public Meeting**
 - Appendix C2a – Notice of Commencement
 - Appendix C2b – Notice of Commencement Newspaper Advertisement
 - Appendix C2c – Cover Letters
- **Appendix C3 – Public Meeting Materials**
 - Appendix C3a – Public Meeting Presentation
 - Appendix C3b – Public Meeting Boards
 - Appendix C3c – Project Information Sheet
 - Appendix C3d – NGS Expansion Renderings
- **Appendix C4 – Summary of Public Engagement**
 - Appendix C4a – Summary of Public Questions/Comments by Category, and Atura Power's Response
 - Appendix C4b – Correspondence Records with Members of the Public
- **Appendix C5 – Correspondence Records with Municipal Staff and Elected Officials**
- **Appendix C6 – Correspondence Records with Agencies**
 - Appendix C6a – Correspondence with MECF
 - Appendix C6b – Correspondence with Other Agencies
- **Appendix C7 – Notice of Completion**

Appendix C1 – Project Contact List

Napane Generating Station Expansion Project Contact List

Category	Subcategory	Organization	Contact Name & Title	Email	Phone Number	Address
Ministry of Environment, Conservation and Parks (MECP) Contacts						
Agency	Provincial	MECP	General Contact	ClassEAnotices@ontario.ca ; MetDataENE@ontario.ca ; enviropresubmission@ontario.ca	-	-
Agency	Provincial	MECP – Central Region	General contact	eanotification.cregion@ontario.ca	-	-
Agency	Provincial	MECP - Environmental Assessment Branch	Kathleen O'Neill, Director	Kathleen.Oneill@ontario.ca	-	-
Agency	Provincial	MECP - Environmental Assessment Branch	Jon K. Orpana, Regional Environmental Planner	jon.orpana@ontario.ca	(613) 548-6918	-
Agency	Provincial	MECP - Environmental Monitoring and Reporting Branch	Abby Salb, Supervisor (A)	abby.salb@ontario.ca	(416) 235-5882	1259 Gardiners Road Unit 3 Kingston, ON K7P 3J6
Agency	Provincial	MECP - Drinking Water and Environmental Compliance Division	Peter Taylor, Director	peter.g.taylor@ontario.ca	(613) 584-6091	-
Agency	Provincial	MECP - Environmental Monitoring and Reporting Branch	Jinliang (John) Liu, Senior Science Advisor	Jinliang.Liu@ontario.ca	(416) 235-5805	-
Agency	Provincial	MECP - Environmental Monitoring and Reporting Branch	Peter Rehbein, Air Emissions Modelling Engineer	Peter.Rehbein@ontario.ca	(416) 235-6046	-
Agency	Provincial	MECP – Air Policy and Programs Branch	Ahammad Ali, Engineering Specialist	ahammad.ali@ontario.ca	(437) 331-5064	-
Agency	Provincial	MECP - Drinking Water and Environmental Compliance Division	David Arnott, Environmental Compliance Officer	david.arnott@ontario.ca	(613) 540-6899	-
Agency	Provincial	MECP – Environmental Permissions Branch	Nancy Orpana, Manager Air Approvals	nancy.orpana@ontario.ca	-	-
Agency	Provincial	MECP - Drinking Water and Environmental Compliance Division	Roberto Sacilotto, Supervisor	roberto.sacilotto@ontario.ca	(613) 540-6894	-

Category	Subcategory	Organization	Contact Name & Title	Email	Phone Number	Address
Agency	Provincial	MECP – Technical Assessment and Standards Development Branch	Steven Law, Renewable Energy	steven.law@ontario.ca	(437) 249-6276	-
Agency	Provincial	MECP – Client Services and Permissions Branch	Shareen Han, Senior Program Support Coordinator	shareen.han@ontario.ca	(437) 522-9277	-
Agency	Provincial	MECP – Environmental Permissions Branch	Michael Sander, Senior Wastewater Engineer	michael.sander@ontario.ca	(437) 220-5747	-
Agency	Provincial	MECP - Drinking Water and Environmental Compliance Division	Dana Cruikshank, Surface Water Specialist	dana.cruikshank@ontario.ca	(613) 539-7286	-
Agency	Provincial	MECP - Environmental Assessment Branch	Shannon Dennie, Senior Advisor	Shannon.Dennie@ontario.ca	-	-
Agency	Provincial	MECP – Environmental Permissions Branch	Miroslav Ubovic, Manager	miroslav.ubovic@ontario.ca	(416) 725-2157	-
Agency	Provincial	MECP – Environmental Permissions Branch	Pierre Godbout, Senior Noise Engineer	pierre.godbout@ontario.ca	-	-
Agency	Provincial	MECP - Drinking Water and Environmental Compliance Division	Chris Raffael, Environmental Compliance Officer	Chris.Raffael@ontario.ca	(613) 548-6928	-
Agency	Provincial	MECP – Air Policy and Programs Branch	Jeff Burdon, Local Air Quality Permits	Jeff.burdon@ontario.ca	-	-
Agency	Provincial	MECP - Drinking Water and Environmental Compliance Division	Cathy Chisholm, Manager	Cathy.Chisholm@ontario.ca	-	-
Agency	Provincial	MECP- Air Policy and Programs Branch	Dan McDonald, Director	dan.mcdonald@ontario.ca	-	-
Municipal Staff & Elected Officials						
Elected Official	Federal	Member of Parliament for Hastings – Lennox and Addington	Shelby Kramp-Neuman	shelby.kramp-neuman@parl.gc.ca	-	-
Elected Official	Provincial	Member of Provincial Parliament – Hastings – Lennox and Addington County	Ric Breese	ric.breese@ontario.ca	-	-
Elected Official	Municipal	City of Kingston	Bryan Paterson, Mayor	mayor@cityofkingston.ca	-	216 Ontario Street

Category	Subcategory	Organization	Contact Name & Title	Email	Phone Number	Address
						Kingston, ON K7L 5A3
Elected Official	Municipal	City of Kingston	Janet Jane, City Clerk	cityclerk@cityofkingston.ca	(613) 546-0000	-
Elected Official	Municipal	County of Lennox and Addington - Elected Officials	Henry Hogg, Reeve	-	(613) 336-0227	14234 Hwy 41 Cloyne, ON K0H 1K0 PO Box 190
Elected Official	Municipal	County of Lennox and Addington - Municipal Staff	Brenda Orchard, Chief Administrative Officer	borchard@lennox-addington.on.ca	(613) 354-4883 ext. 3221	97 Thomas Street East Napanea, ON K7L 5A3
Elected Official	Municipal	County of Lennox and Addington - Municipal Staff	Chris Wagar, Director, Infrastructure Services	cwagar@lennox-addington.on.ca	(613) 354-4883 ext. 3230	-
Elected Official	Municipal	Loyalist Township	Debbie Chapman, Township Clerk	-	(613) 386-7351 ext. 121#	263 Main Street Odessa, ON K0H 2H0
Elected Official	Municipal	Loyalist Township	Jim Hegadorn, Mayor	jhegadorn@loyalist.ca	-	263 Main Street Odessa, ON K0H 2H0
Elected Official	Municipal	Prince Edward County	Catalina Blumenberg, Municipal Clerk	cblumenberg@pecounty.on.ca	(613) 476-2148 ext. 1021	-
Elected Official	Municipal	Prince Edward County	Steve Ferguson, Mayor	sferguson@pecounty.on.ca	(613) 476-2148 ext. 1001	332 Picton Main Street Picton, ON K0K 2T0
Elected Official	Municipal	Town of Greater Napanee - Elected Officials	Terry Richardson, Mayor	trichardson@greaternapanee.com	(613) 530-5485	124 John Street Napanee, ON K7R 3L4 PO Box 97
Elected Official	Municipal	Town of Greater Napanee - Elected Officials	Brian Calver, Deputy Mayor	bcalver@greaternapanee.com	(613) 561-5622	124 John Street Napanee, ON K7R 3L4 PO Box 97
Elected Official	Municipal	Town of Greater Napanee - Elected Officials	Michael Schenk, Councillor Ward 1	mschenk@greaternapanee.com	(613) 449-3901	-
Elected Official	Municipal	Town of Greater Napanee - Elected Officials	Bill Martin, Councillor Ward 5	bmartin@greaternapanee.com	(613) 540-4375	-
Elected Official	Municipal	Town of Greater Napanee - Municipal Staff	Brandt Zatterberg, Deputy Chief Administrative Officer	bzatterberg@greaternapanee.com	(613) 776-1121	99 Advance Avenue Napanee, ON K7R 3Y5
Elected Official	Municipal	Town of Greater Napanee - Municipal Staff	Michael Nobes, General Manager of Growth & Expansion / Chief Building Official	mnobes@greaternapanee.com	(613) 776-1151	99 Advance Avenue Napanee, ON K7R 3Y5

Category	Subcategory	Organization	Contact Name & Title	Email	Phone Number	Address
Elected Official	Municipal	Town of Greater Napanee - Municipal Staff	Annie Mannion, Manager of Community Economic Development	amanion@greaternapanee.com	(343) 302-5881	-
Elected Official	Municipal	Town of Greater Napanee - Municipal Staff	Jessica Walters, Municipal Clerk	jwalters@greaternapanee.com	(342) 302-5238	-
Elected Official	Municipal	Town of Greater Napanee - Municipal Staff	Erin Tyers, Administrative Assistant, Emergency Services	etyers@greaternapanee.com	(613) 856-2226	-
Elected Official	Municipal	Town of Greater Napanee - Municipal Staff	Shawn Armstrong, Interim Fire Chief	sarmstrong@greaternapanee.com	-	-
Elected Official	Municipal	Town of Greater Napanee - Municipal Staff	James Feeney, Deputy Fire Chief	jfeeney@greaternapanee.com	-	-
Elected Official	Municipal	Town of Greater Napanee - Municipal Staff	Jermey Camden, Cambium Consulting	Camden.Jermey@cambium-inc.com	-	-
Agencies - Federal						
Agency	Federal	Canada Energy Regulator	General Contact	infomontreal@cer-rec.gc.ca	-	-
Agency	Federal	Crown-Indigenous Relations and Northern Affairs Canada	Natalie Brassard, Executive Administrative Officer	nathalie.brassard2@rcaanc-cirnac.gc.ca	-	-
Agency	Federal	Environment and Climate Change Canada	Rob Clavering, Manager, Environmental Assessment Section	robert.clavering@ec.gc.ca	(416) 458-9670	4905 Dufferin Street Downsview, ON M3H 5T4
Agency	Federal	Impact Assessment Agency	Amy Sen, Regional Director, Ontario Regional Office	amy.sen@iaac-aeic.gc.ca	(416) 505-1897	-
Agency	Federal	Impact Assessment Agency	Sita Chinnadurai, Project Manager, Ontario Region	orientationontario@iaac-aeic.gc.ca	-	55 York Street Suite 600 Toronto, ON M5J 1R7
Agencies - Provincial						
Agency	Provincial	Independent Electricity System Operator (IESO)	General Contact	contract.management@ieso.ca	(905) 403-6900	1600-120 Adelaide Street W Toronto, ON M5H 1T1
Agency	Provincial	Ministry of Children, Community and Social Services	General Contact	-	(416) 325-5666	11 Beechgrove Lane Kingston, ON K7M 9A6

Category	Subcategory	Organization	Contact Name & Title	Email	Phone Number	Address
Agency	Provincial	Ministry of Citizenship and Multiculturalism – Heritage, Tourism and Culture Division	Karla Barboza, Team Lead (A)	karla.barboza@ontario.ca	(416) 660-1027	c/o Heritage Planning Unit 400 University Ave 5th Floor Toronto, ON M7A 2R9
Agency	Provincial	Ministry of Citizenship and Multiculturalism – Heritage, Tourism and Culture Division	Erika Leclerc, Heritage Planner	erika.leclerc@ontario.ca	(416) 305-0757	400 University Ave. 5th Floor Toronto, ON M7A 2R9
Agency	Provincial	Ministry of Citizenship and Multiculturalism – Heritage, Tourism and Culture Division	Malcom Horne	Malcolm.Horne@ontario.ca	(437) 339-8861	-
Agency	Provincial	Ministry of Citizenship and Multiculturalism – Heritage, Tourism and Culture Division	Laura Hatcher	Laura.E.Hatcher@ontario.ca	-	-
Agency	Provincial	Ministry of Citizenship and Multiculturalism – Heritage, Tourism and Culture Division	Dan Minkin	Dan.Minkin@ontario.ca	-	-
Agency	Provincial	Ministry of Agriculture, Food and Agribusiness	General Contact	omafra.eanotices@ontario.ca	-	1 Stone Road West Guelph, ON N1G 4Y2
Agency	Provincial	Ministry of Economic Development, Job Creation and Trade	Erin Thompson, Manager, Corporate Policy	erin.thompson@ontario.ca	(437) 770-1241	56 Wellesley Street West 11 th Floor Toronto, ON M5S 2S3
Agency	Provincial	Ministry of Economic Development, Job Creation and Trade	Ed Kung, Senior Policy Advisor	ed.kung@ontario.ca	(437) 339-8804	56 Wellesley Street West 11 th Floor Toronto, ON M5S 2S3
Agency	Provincial	Ministry of Energy and Electrification, Strategic Network and Agency Policy Division	Hillary Armstrong, Manager Policy, Coordination and Outreach	hillary.armstrong@ontario.ca	(416) 818-0740	77 Grenville St 6th Floor, Toronto, ON M7A 1B3
Agency	Provincial	Ministry of Energy and Electrification, Strategic Network and Agency Policy Division	Michael Di Cosmo, Coordinator, Strategic Policy and Cabinet Liaison	michael.dicosmo@ontario.ca	(437) 770-7960	77 Grenville St 6th Floor, Toronto, ON M7A 1B3

Category	Subcategory	Organization	Contact Name & Title	Email	Phone Number	Address
Agency	Provincial	Ministry of Energy and Electrification, Energy Networks and Indigenous Policy Branch	Amy Gibson, Manager of Indigenous Energy Policy	amy.gibson@ontario.ca	(416) 315-8641	77 Grenville St 6th Floor, Toronto, ON M7A 1B3
Agency	Provincial	Ministry of Energy and Electrification, Energy Networks and Indigenous Policy Branch	Shannon McCabe, Manager Strategic Indigenous Initiatives	Shannon.McCabe@ontario.ca	(416) 562-9492	77 Grenville St 6th Floor, Toronto, ON M7A 1B3
Agency	Provincial	Ministry of Energy and Electrification, Energy Networks and Indigenous Policy Branch	Bree-Anna Gaboury, Policy Advisor	Bree-Anna.Gaboury@ontario.ca	(416) 312-7843	77 Grenville St 6th Floor, Toronto, ON M7A 1B3
Agency	Provincial	Ministry of Mines, Strategic Services Branch	Tracey Burton, Manager (A) – Strategic Support Unit Mines and Minerals Division	tracey.burton@ontario.ca	(705) 918-1609	-
Agency	Provincial	Ministry of Mines, Strategic Services Branch	Melanie Johnson, Senior Strategic Initiatives Lead	melanie.johnson@ontario.ca	(705) 698-5041	-
Agency	Provincial	Ministry of Municipal Affairs and Housing, Municipal and Housing Operations Division	Michael Elms, Manager, Community Planning and Development	michael.elms@ontario.ca	(613) 453-9242	-
Agency	Provincial	Ministry of Natural Resources	Environmental Planning Team	Environmental.Planning.Team@ontario.ca	-	99 Wellesley St W Whitney Block Room 5520 Toronto, ON M7A 1W3
Agency	Provincial	Ministry of Natural Resources	Keith Johnson, Environmental Planning Team Lead (A), Strategic and Indigenous Policy	keith.johnston@ontario.ca	-	-
Agency	Provincial	Ministry of Natural Resources	Gillian Hartman, Supervisor	SR.Planning@ontario.ca	-	-
Agency	Provincial	Ministry of Natural Resources	Cara Holtby, Regional Planning Coordinator	SR.Planning@ontario.ca	-	-

Category	Subcategory	Organization	Contact Name & Title	Email	Phone Number	Address
Agency	Provincial	Ministry of Transportation, Indigenous Relations and Environmental Policy Branch	Cheryl Davis, Manager Environmental Policy Office	cheryl.davis@ontario.ca	(416) 573-8548	438 University Avenue 12 th Floor Toronto, ON M5G 2K8
Agency	Provincial	Ministry of Transportation, Delivery East Design and Engineering Branch	Jenn Meleschuk, Manager, Engineering Program	jenn.meleschuk@ontario.ca	(613) 539-6231	-
Agency	Provincial	Ministry of Transportation, Operations Division	George Taylor, Corridor Management Officer	George.Taylor2@ontario.ca	(613) 483-5307	-
Agency	Provincial	Ontario Energy Board (OEB)	General Contact	IndustryRelations@oeb.ca	-	2300 Yonge Street 27 th Floor Toronto, ON M4P 1E4
Agency	Provincial	Ontario Energy Board (OEB)	Liam Lonergan, Advisor, Public Information Centre	Liam.Lonergan@oeb.ca	(877) 632-2727	2300 Yonge Street 27 th Floor Toronto, ON M4P 1E4
Agency	Provincial	Ontario Provincial Police (OPP)	Jennifer Chown, Facilities Environmental Consultant	jennifer.chown@opp.ca	(705) 330-2746	777 Memorial Avenue 2 nd Floor Orillia, ON L3V 7V3
Agency	Provincial	Ontario Provincial Police (OPP)	Nicole Rodaro, Facilities Coordinator	nicole.rodaro@opp.ca	(705) 238-7008	777 Memorial Avenue 2 nd Floor Orillia, ON L3V 7V3
Agencies – Regional						
Agency	Provincial	Algonquin & Lakeshore Catholic District School Board	Carey Smith-Dewey, Superintendent of Education	info@alcdsb.on.ca	(613) 354-2255	151 Dairy Avenue Napanea, ON K7R 4B2
Agency	Regional	Cataraqui Region Conservation Authority	Angela Hicks, Board Member for Greater Napanea	ahicks@greaternapanea.com	-	-
Agency	Regional	Cataraqui Region Conservation Authority	Janelle Treash, Resource Planner for Greater Napanea	itreash@crca.ca	-	-
Agency	Regional	Cataraqui Region Conservation Authority	Michael Dakin, Supervisor of Development Review	MDakin@crca.ca	-	-

Category	Subcategory	Organization	Contact Name & Title	Email	Phone Number	Address
Agency	Regional	Cataraqui Region Conservation Authority	Mallory Wright	MWright@crca.ca	-	-
Agency	Regional	Cataraqui Region Conservation Authority	General Contact	development@crca.ca	-	-
Agency	Regional	Limestone District School Board	Krishna Burra, Director of Education	director@limestone.on.ca	(613) 544-6925 ext. 235	220 Portsmouth Avenue Kingston, ON K7M 0G2
Utilities						
Agency	Utility	Hydro One Networks Inc.	General Contact	SecondaryLandUse@HydroOne.com	-	-
Agency	Utility	Ontario Power Generation (OPG)	Barbara Medeiros, Senior Manager EH&S	barbara.medeiros@opg.com	(647) 462-8487	700 University Avenue Toronto, ON M5G 1Z5
Interest Groups						
Public	Interest Group	Clean Air Partnership	Gaby Kalapos	gkalapos@cleanairpartnership.org	-	-
Public	Interest Group	Community Futures of Prince Edward Lennox Addington	General Contact	team@pelacfdc.ca	-	280 Main Street Suite 103 Picton, ON K0K 2T0
Public	Interest Group	Energy Probe Research Foundation	General Contact	energyprobe@nextcity.com	(416) 964-9223	-
Public	Interest Group	Environmental Defence Canada Ltd.	Mike Marcolongo	info@environmentaldefence.ca mmarcolongo@environmentaldefence.ca	(416) 323-9521	33 Cecil Street 1 st Floor Toronto, ON M5T 1N1
Public	Interest Group	Institute of Power Engineers – Kingston Branch	General Contact	president.kingston@ipe.org	-	-
Public	Interest Group	Kingston Field Naturalists	General Contact	info@kingstonfieldnaturalists.org	-	-
Public	Interest Group	Kingston, Frontenac, and Lennox & Addington Public Health	General Contact	-	(613) 354-3357	99 Advance Avenue Napane, ON K7R 3Y5
Public	Interest Group	Lennox and Addington County Economic Development Coalition	General Contact	-	(613) 354-4883	97 Thomas Street East Napane, ON K7R 4B9
Public	Interest Group	Lennox and Addington Historical Society	General Contact	info@lahistoricalociety.ca	(613) 378-6405	GD P.O. Box 392 Napane, ON K7R 3P5
Public	Interest Group	Loyalist Parkway Association	General Contact	lpasecretary@outlook.com	-	212 Bass Cove Road Napane, ON K7R 3K7
Public	Interest Group	Napane & District Chamber of Commerce	General Contact	businessmanager@napaneechamber.ca	(613) 3454-6601	6 Dundas Street East Office 11

Category	Subcategory	Organization	Contact Name & Title	Email	Phone Number	Address
						Napanee, ON K7R 1H6
Public	Interest Group	Napanee Lions Club	General Contact	-	-	57 Country Road 8 Napanee, ON K7R 3E6
Public	Interest Group	Pollution Probe	General Contact	pprobe@pollutionprobe.org	(416) 926-1907	130 Queens Quay East Suite 902 Toronto, ON M5A 0P6
Public	Interest Group	Protect Amherst Island	General Contact	protectamherst@gmail.com	-	Stella, ON K0H 2S0
Public	Interest Group	Rotary Club of Napanee	General Contact	rotaryclubnapanee@gmail.com	-	-
Public	Interest Group	Three Fires Group Inc.	General Contact	-	-	9119 W Ipperwash Road Unit A Lambton Shores, N0N 1J3
Public	Interest Group	United Empire Loyalist Heritage Centre and Park	Brian Tackaberry, Branch Vice-President	-	(613) 373-2632	54 Adolphustown Park Road Bath, ON K0H 1G0

Appendix C2 – Distribution of Notice of Commencement and Invitation to a Public Meeting

Appendix C2a – Notice of Commencement

Appendix C2b – Notice of Commencement Newspaper Advertisement

Appendix C2c – Cover Letters

Appendix C2a – Notice of Commencement

Notice of Commencement of an Environmental Review and Invitation to a Public Meeting

Napanee Generating Station Expansion

Atura Power is proposing to expand the electricity generation capacity of the Napanee Generating Station (NGS), an electricity project under a procurement process led by the Independent Electricity System Operator.

After more than a decade of strong supply, Ontario is entering a period of emerging electricity system needs, driven by increasing demand, the refurbishment of existing generating assets, as well as expiring contracts for other electricity-producing facilities. Atura Power is responding to the need for additional electricity resources that can be online from 2027–2028 by proposing the NGS Expansion to increase Ontario's electricity production and supply.

Project Description

The proposed NGS Expansion project includes adding a hydrogen-ready simple cycle combustion turbine generator unit that will provide up to 430 megawatts of electricity output to Ontario's electricity grid. The project will be located north of the Lake Ontario shoreline between Atura Power's NGS and Ontario Power Generation's Lennox Generating Station in the Town of Greater Napanee, Ont.

Environmental Review Process

Pursuant to Ontario Regulation 50/24: Part II.3 Projects under the *Environmental Assessment Act*, Atura Power has voluntarily elected to undergo a "Category B" Environmental Review as described in the Ministry of the Environment, Conservation and Parks "Guide to Environmental Assessment Requirements for Electricity Projects" (February 2024). This notice was issued to communicate the start of the Environmental Review. An Environmental Review Report (ERR) will be made available for a 30-day public review period following the conclusion of the Environmental Review. The ERR will include a review of existing conditions, potential effects, mitigation measures and document engagement activities and input from Indigenous communities, the public and other stakeholders.

You are Invited to a Public Meeting

Atura Power is committed to engaging Indigenous communities, the public and other stakeholders on all our projects. We invite you to attend an upcoming public meeting to learn more about the project and provide feedback. If you are unable to participate, meeting materials will be posted on the project webpage for review following the meeting.

Meeting Details	Date & Time:	Thursday, May 16, 2024, 4 to 8 p.m.
	Location:	South Fredericksburgh Hall 2478 County Rd. 8, Greater Napanee, Ont. K7R 3K7

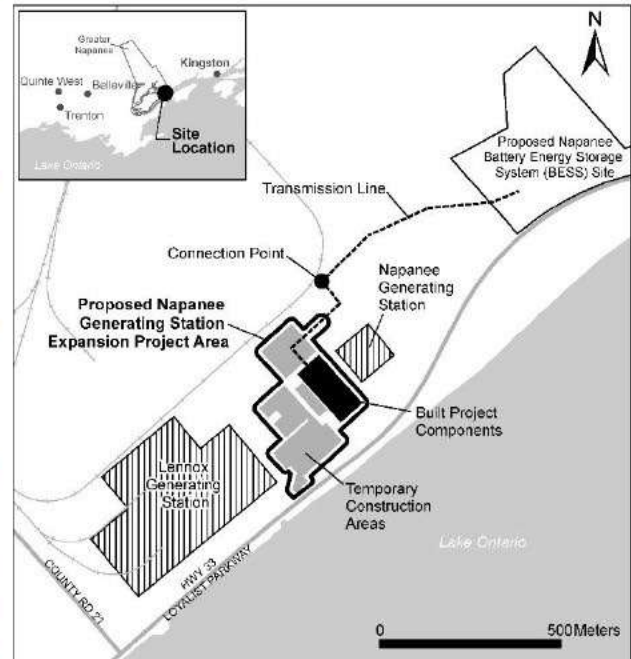
Project Contacts

Please email project questions or accommodation needs to napaneeexpansion@aturapower.com.

For more information, visit the project webpage: aturapower.com/napaneeexpansion.

The Napanee Battery Energy Storage System is being studied under a different EA. See napaneebess.ca for details.

Atura Power



All personal information included in your request – such as name, address, telephone number and property location – is collected, under the authority of Section 30 of the Environmental Assessment Act and is collected and maintained for the purpose of creating a record that is available to the general public. As the information is collected for the purpose of a public record, the protection of personal information provided in the Freedom of Information and Protection of Privacy Act (FIPPA) does not apply (s.37). Personal information you submit will become part of the available public record unless you request that your personal information remain confidential.

***Appendix C2b – Notice of Commencement Newspaper
Advertisement***



KEN AND WILMA COLEMAN
Happy 70th Anniversary

...to two beautiful and spectacular souls, Ken and Wilma Coleman (Ma & Pa). Today marks a very special moment for you both and we wanted to take the time and share our love with and to congratulate you both on your time together. We are so very proud and honored to be able to celebrate this special day with you both.

With love, Jordan and Flavia

Name That Tune trivia night coming to Napanee Legion April 19 in support of Hospice Lennox and Addington

BY ADAM PRUDHOMME

Editor

Music buffs will want to assemble at the Napanee Legion on April 19 at 6 p.m. for Name That Tune Trivia Night in support of Hospice Lennox and Addington.

As the name suggests, teams will be challenged to identify song names after hearing a short clip. Those that get the most correct will be deemed the winner.

Hosted by Jamie Cybulski of MyFM and Dave Pinnell Jr. of Century 21, the event is an extension of the former Longest Day of Golf

fundraiser. That popular annual event saw the duo tee off at sunrise at the Napanee Golf and County Club with the intent of playing as many holes of golf as possible, all while taking proceeds for Hospice.

That event ceased during the pandemic, but now returns in a slightly different form.

"When we were doing the Longest Day of Golf we were never really thinking it was going to be going as long as it did," said Pinnell Jr., who noted their record was 192 holes played in a day. "Then all of a sudden we thought maybe if we



Dave Pinnell Jr. and Jamie Cybulski, seen here during a Longest Day of Golf, are back with a Name That Tune trivia night on April 19 in support of Hospice Lennox and Addington. File photo.

could do it for 10 years, that would be fantastic. We ended up doing it for eight and then COVID hit."

During the height of Longest Day of Golf they added an additional trivia night to raise some extra funds for the cause. That too was put on hold during the pandemic-until now.

"There's a lot of people that were asking us for this all the time. We thought this is the year to do it, people are asking again, so let's do it," said Pinnell Jr. "With Jamie being from MyFM he's got access to making the trivia very hard. There's going to be so easy ones, but there's going to be some tricky ones as well. It's

going to be fun for all."

There will be four rounds with 10 questions, followed by five bonus questions. The entry fee is \$20 per person and there are four people per team.

"The money stays here within the community with Hospice Lennox and Addington," said Pinnell Jr. "There's donated prizes for the first and second place team and last as well. We can't forget about the most honest team."

Along with trivia there will be a 50/50 draw, snacks and a cash bar.

To register contact Ksunstrum@lacgh.napanee.on.ca or 613-354-3301 ext. 203.

Notice of Commencement of an Environmental Review and Invitation to a Public Meeting

Napanee Generating Station Expansion

Atura Power is proposing to expand the electricity generation capacity of the Napanee Generating Station (NGS), an electricity project under a procurement process led by the Independent Electricity System Operator.

After more than a decade of strong supply, Ontario is entering a period of emerging electricity system needs, driven by increasing demand, the refurbishment of existing generating assets, as well as expiring contracts for other electricity-producing facilities. Atura Power is responding to the need for additional electricity resources that can be online from 2027-2028 by proposing the NGS Expansion to increase Ontario's electricity production and supply.

Project Description

The proposed NGS Expansion project includes adding a hydrogen-ready simple cycle combustion turbine generator unit that will provide up to 430 megawatts of electricity output to Ontario's electricity grid. The project will be located north of the Lake Ontario shoreline between Atura Power's NGS and Ontario Power Generation's Lennox Generating Station in the Town of Greater Napanee, Ont.

Environmental Review Process

Pursuant to Ontario Regulation 50/24: Part II.3 Projects under the *Environmental Assessment Act*, Atura Power has voluntarily elected to undergo a "Category B" Environmental Review as described in the Ministry of the Environment, Conservation and Parks "Guide to Environmental Assessment Requirements for Electricity Projects" (February 2024). This notice is issued to communicate the start of the Environmental Review. An Environmental Review Report (ERR) will be made available for a 30-day public review period following the conclusion of the Environmental Review. The ERR will include a review of existing conditions, potential effects, mitigation measures and document engagement activities and input from Indigenous communities, the public and other stakeholders.

You are invited to a Public Meeting

Atura Power is committed to engaging Indigenous communities, the public and other stakeholders on all our projects. We invite you to attend an upcoming public meeting to learn more about the project and provide feedback. If you are unable to participate, meeting materials will be posted on the project webpage for review following the meeting.

Meeting Details	Date & Time:	Thursday, May 16, 2024, 4 to 8 p.m.
	Location:	South Fredericksburgh Hall 2478 County Rd. 8, Greater Napanee, Ont. K7R 3K7

Project Contacts

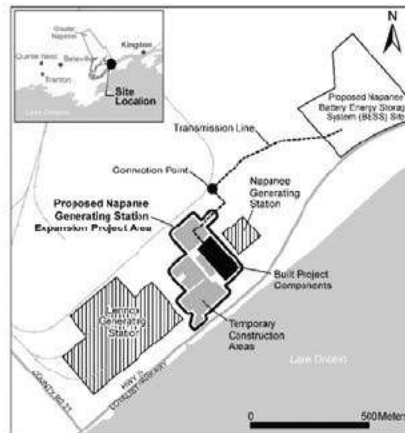
Please email project questions or accommodation needs to napaneeexpansion@aturapower.com.

For more information, visit the project webpage: aturapower.com/napaneeexpansion.

The Napanee Battery Energy Storage System is being studied under a different EA. See napaneebess.ca for details.

All personal information included in your request – such as name, address, telephone number and property location – is collected, under the authority of Section 30 of the Environmental Assessment Act and is collected and maintained for the purpose of creating a record that is available to the general public. As the information is collected for the purpose of a public record, the protection of personal information provided in the Freedom of Information and Protection of Privacy Act (FIPPA) does not apply (s.37). Personal information you submit will become part of the available public record unless you request that your personal information remain confidential.

Atura Power



C.F. PETRO PRO

Propane Gas Furnaces Fireplaces Appliances Water Heaters

2408 Perth Rd, Glenburnie, ON
613.542.8574
www.cfpetropro.ca cfpetropro@hotmail.com

HAY BAY TIRE SHOP

- Brake Servicing
- Front End & Suspension Work
- Oil Changes

6403A County Rd. 9
Napanee

Dan Ouimet
dan.ouimet@live.ca 613-354-0800

Bridge West
Animal Hospital
Dr. Julie Amey

311 Bridge Street West, Napanee
613-409-PETS (7387)
Your Pets... Our Privilege

bridgewest@kingston.net www.bridgewestanimalhospital.ca

Appendix C2c – Cover Letters

April 8, 2024

To Whom It May Concern,

This letter is to inform you that Atura Power, a subsidiary of Ontario Power Generation (OPG), is commencing an environmental assessment (EA) for the proposed Napanee Generating Station (NGS) Expansion that will increase Ontario's electricity supply and support grid reliability to meet peak power demand in Ontario. This project is subject to a procurement process – the Long-Term 1 Request for Proposals (LT1 RFP) – led by the Independent Electricity System Operator (IESO). Notices were published in the Napanee Beaver and distributed to neighbouring landowners and residents in October and November 2023 with preliminary project information during the LT1 RFP procurement process. Atura Power's LT1 RFP application was submitted to IESO in December 2023. Atura Power is planning to commence the EA prior to the IESO LT1 contract award to advance permitting to meet IESO's need for the project to be in service by 2028.

The proposed NGS Expansion includes adding a hydrogen-ready simple cycle combustion turbine generator unit that will provide up to 430 megawatts of electricity output to Ontario's electricity grid. The project will be located north of the Lake Ontario shoreline between Atura Power's NGS and OPG's Lennox Generating Station in the Town of Greater Napanee, Ont.

The NGS Expansion is subject to Ontario Regulation 50/24: Part II.3 Projects under the *Environmental Assessment Act*. Atura Power voluntarily elected to undergo a "Category B" Environmental Review as described in the Ministry of the Environment, Conservation and Parks "Guide to Environmental Assessment Requirements for Electricity Projects" (February 2024).

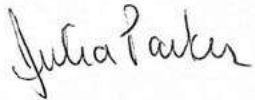
The Napanee Battery Energy Storage System (BESS) is being studied under a different environmental assessment. For more information, please visit napaneebess.ca.

The attached notice was issued to communicate the start of the Environmental Review. As part of this process, Atura Power is extending an invitation to learn more about the NGS Expansion project and provide feedback at an upcoming public meeting. If you are unable to participate in the meeting, meeting materials will be posted on the project webpage below for review following the meeting.

Meeting Details	Date:	Thursday, May 16, 2024
	Time:	4 to 8 p.m.
	Location:	South Fredericksburgh Hall 2478 County Rd. 8 Greater Napanee, Ont. K7R 3K7

For more information, if you have any comments or questions about the project, or if you wish to no longer receive notices for this project please contact the project team by sending an email to napaneeexpansion@aturapower.com or visit the project webpage at aturapower.com/napaneeexpansion.

Sincerely,



Julia Parker

Project Manager – Environmental and Municipal Approvals
Atura Power

[Date]

[Indigenous Community Name]

[Address]

[Address]

Dear [Contact name],

This letter is to inform you that Atura Power, a subsidiary of Ontario Power Generation (OPG), is commencing an Environmental Assessment (EA) for the proposed Napanee Generating Station (NGS) Expansion that will increase Ontario's electricity supply and support grid reliability to meet peak power demand in Ontario. This project is subject to a procurement process – the Long-Term 1 Request for Proposals (LT1 RFP) – led by the Independent Electricity System Operator (IESO). Notices were published in the Napanee Beaver and distributed to neighbouring landowners and residents in October and November 2023 with preliminary project information during the LT1 RFP procurement process. Atura Power's LT1 RFP application was submitted to IESO in December 2023. Atura Power is planning to commence the EA prior to the IESO LT1 contract award to advance permitting to meet IESO's need for the project to be in service by 2028.

The proposed NGS Expansion includes adding a hydrogen-ready simple cycle combustion turbine generator unit that will provide up to 430 megawatts of electricity output to Ontario's electricity grid. The project will be located north of the Lake Ontario shoreline between Atura Power's NGS and OPG's Lennox Generating Station in the Town of Greater Napanee, Ont.

The NGS Expansion is subject to Ontario Regulation 50/24: Part II.3 Projects under the *Environmental Assessment Act*. Atura Power voluntarily elected to undergo a "Category B" Environmental Review as described in the Ministry of the Environment, Conservation and Parks "Guide to Environmental Assessment Requirements for Electricity Projects" (February 2024).

The Napanee Battery Energy Storage System (BESS) is being studied under a different environmental assessment. For more information, please visit napaneebess.ca.

The attached notice has been issued to communicate the start of the Environmental Review. As a part of this process, Atura Power is extending an invitation to learn more about the NGS Expansion project and provide feedback at an upcoming public

meeting. If you are unable to participate in the meeting, meeting materials will be posted on the project webpage below for review following the meeting.

<i>Meeting Details</i>	Date:	Thursday, May 16, 2024
	Time:	4 to 8 p.m.
	Location:	South Fredericksburgh Hall 2478 County Rd. 8 Greater Napanee, Ont. K7R 3K7

Atura Power is planning for separate Indigenous engagement sessions for interested Indigenous communities following the Notice of Commencement. We look forward to connecting to understand how you might wish to participate in the environmental assessment.

For more information, or if you have any comments or questions about the project, please contact the project team:

Project Contacts	
Julia Parker: Project Manager – Environmental and Municipal Approvals	Julia.Parker@aturapower.com
Nancy Kumar: Indigenous Relations Advisor	Nancy.Kumar@aturapower.com
Project Email:	napaneeexpansion@aturapower.com
Project Webpage:	www.aturapower.com/napaneeexpansion

Sincerely,

[Signature]

Kelly Grieves

Vice President Hydrogen Business, Stakeholder & Indigenous Relations
Atura Power

April 8, 2024

Peter Taylor,
Director, Eastern Region,
Ministry of the Environment, Conservation and Parks
Unit 3, 1259 Gardiners Rd.,
Kingston, ON K7P 3J6

Dear Peter,

This letter is to inform you that Atura Power, a subsidiary of Ontario Power Generation (OPG), is commencing an environmental assessment (EA) for the proposed Napanee Generating Station (NGS) Expansion project that will increase Ontario's electricity supply and support grid reliability to meet peak power demand in Ontario. This project is subject to a procurement process – the Long-Term 1 Request for Proposals (LT1 RFP) – led by the Independent Electricity System Operator (IESO). Atura Power's LT1 RFP application was submitted to IESO in December 2023. Atura Power is planning to commence the EA prior to the IESO LT1 contract award to advance permitting to meet IESO's need for the project to be in service by 2028.

The proposed NGS Expansion includes adding a hydrogen-ready simple cycle combustion turbine generator unit that will provide up to 430 megawatts of electricity output to Ontario's electricity grid. The project will be located north of the Lake Ontario shoreline between Atura Power's NGS and OPG's Lennox Generating Station in the Town of Greater Napanee, Ont.

The NGS Expansion is subject to Ontario Regulation 50/24: Part II.3 Projects under the *Environmental Assessment Act*. Atura Power voluntarily elected to undergo a "Category B" Environmental Review as described in the Ministry of the Environment, Conservation and Parks "Guide to Environmental Assessment Requirements for Electricity Projects" (February 2024).

Attached are the required project information form (PIF) and Notice of Commencement on an Environmental Review and Invitation to a Public Meeting.

Atura Power is also providing notification directly to the Indigenous communities identified below based on previous project engagement during the IESO LT1 and the Napanee Battery Energy Storage System (BESS) Class EA processes. The list of Indigenous communities was provided by the Ministry of Energy in a letter to Atura

Power dated June 7, 2023, delegating procedural aspects of the Crown's Duty to Consult for the Napanee BESS Class EA:

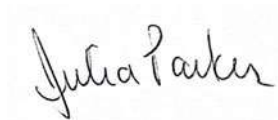
- Alderville First Nation
- Beausoleil First Nation
- Chippewas of Georgina Island First Nation
- Chippewas of Rama First Nation
- Curve Lake First Nation
- Hiawatha First Nation
- Huron Wendat Nation
- Kawartha Nishnawbe
- Mississaugas of Scugog Island First Nation
- Mohawks of the Bay of Quinte First Nation
- Williams Treaties First Nations Process Coordinator

We are requesting that the Ministry of the Environment, Conservation and Parks (MECP) provide confirmation that engagement with the above listed communities is appropriate for the project, and whether the Ministry of Indigenous Affairs should also be engaged as part of the Environmental Review Process.

Atura Power is committed to engaging agencies, the public and other stakeholders on all projects. As indicated in the attached notice, a public community meeting will be hosted on May 16, 2024, from 4 to 8 p.m. EDT at South Fredericksburgh Hall, 2478 County Rd. 8 in Greater Napanee to share more details about the EA and collect feedback from the public.

For more information, or if you have any comments or questions about the project, please contact the project team by email at napaneeexpansion@aturapower.com or visit the project webpage at aturapower.com/napaneeexpansion.

Sincerely,



Julia Parker

Project Manager – Environmental and Municipal Approvals

Atura Power

Enclosures: Project Information Form; Notice of Commencement on an Environmental Review and Invitation to a Public Meeting

Cc: Kathleen O'Neil, Director, Environmental Assessment Branch;

Jon Orpana, Regional Environmental Planner, Environmental Assessment Branch;

ClassEAnotices@ontario.ca;

eanotification.eregion@ontario.ca

April 8, 2024

Dear Neighbour,

This letter is to inform you that Atura Power, a subsidiary of Ontario Power Generation (OPG), is commencing an environmental assessment (EA) for the proposed Napanee Generating Station (NGS) Expansion that will increase Ontario's electricity supply and support grid reliability to meet peak power demand in Ontario. This project is subject to a procurement process – the Long-Term 1 Request for Proposals (LT1 RFP) – led by the Independent Electricity System Operator (IESO). Notices were published in the Napanee Beaver and distributed to neighbouring landowners and residents in October and November 2023 with preliminary project information during the LT1 RFP procurement process. Atura Power's LT1 RFP application was submitted to IESO in December 2023. Atura Power is planning to commence the EA prior to the IESO LT1 contract award to advance permitting to meet IESO's need for the project to be in service by 2028.

The proposed NGS Expansion includes adding a hydrogen-ready simple cycle combustion turbine generator unit that will provide up to 430 megawatts of electricity output to Ontario's electricity grid. The project will be located north of the Lake Ontario shoreline between Atura Power's NGS and OPG's Lennox Generating Station in the Town of Greater Napanee, Ont.

The NGS Expansion is subject to Ontario Regulation 50/24: Part II.3 Projects under the *Environmental Assessment Act*. Atura Power has voluntarily elected to undergo a "Category B" Environmental Review as described in the Ministry of the Environment, Conservation and Parks "Guide to Environmental Assessment Requirements for Electricity Projects" (February 2024).

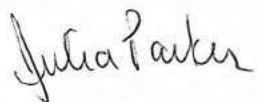
The Napanee Battery Energy Storage System (BESS) is being studied under a different environmental assessment. For more information, please visit napaneebess.ca.

The attached notice was issued to communicate the start of the Environmental Review. As part of this process, Atura Power is extending an invitation to learn more about the NGS Expansion project and provide feedback at an upcoming public meeting. If you are unable to participate in the meeting, meeting materials will be posted on the project webpage below for review following the meeting.

Meeting Details	Date:	Thursday, May 16, 2024
	Time:	4 to 8 p.m.
	Location:	South Fredericksburgh Hall 2478 County Rd. 8 Greater Napanee, Ont. K7R 3K7

If you require accommodation related to the public meeting or have any other questions or inquiries, please contact us at napaneeexpansion@aturapower.com, or visit the project webpage at aturapower.com/napaneeexpansion.

Sincerely,



Julia Parker
Project Manager – Environmental and Municipal Approvals
Atura Power

Appendix C3 – Public Meeting Materials

Appendix C3a – Public Meeting Presentation

Appendix C3b – Public Meeting Boards

Appendix C3c – Project Information Sheet

Appendix C3d – NGS Expansion Renderings

Appendix C3a – Public Meeting Presentation



Aura Power

Napanee Generation Station Expansion

Public Meeting

May 16, 2024



Land Acknowledgement

Our project is in the traditional and treaty territory of the Mississauga Anishinaabeg. We believe that it is important to recognize the Mississauga Anishinaabeg for their care and teachings about the earth and our relations and to honour those teachings through our interactions every day.

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.

In light of this history, we dedicate ourselves to moving forward in the spirit of partnership, collaboration, and reconciliation as we learn together and contemplate the possibilities that lay ahead.

About Atura Power



A subsidiary of Ontario Power Generation (OPG), Atura Power owns and operates Ontario's largest, most efficient gas-fired fleet in Ontario.

Plays a key role in the province's electricity system and diverse generation supply.



1. Brighton Beach Generating Station
Capacity 570 MW



2. Halton Hills Generating Station
Capacity 683 MW



3. Portlands Energy Centre
Capacity 550 MW



4. Napanee Generating Station
Capacity 900 MW



5. Napanee BESS Phase 1
Capacity 250 MW



6. Oakville Head Office



Community Outreach and Support

Atura Power is an engaged community partner and supporter in Greater Nananee. The company donated more than \$250,000 to organizations between 2022 and 2024 through the Atura Power Community Development Fund including:

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



IESO Procurement for Reliable Electricity Services



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) are needed by the end of the decade to maintain reliability and currently seeking new resources.

Atura Power proposed the Napanee Generating Station (NGS) Expansion in response to the IESO's Long-Term 1 (LT1) procurement process to secure 918 MW from non-storage resources that can be online between 2026-28.

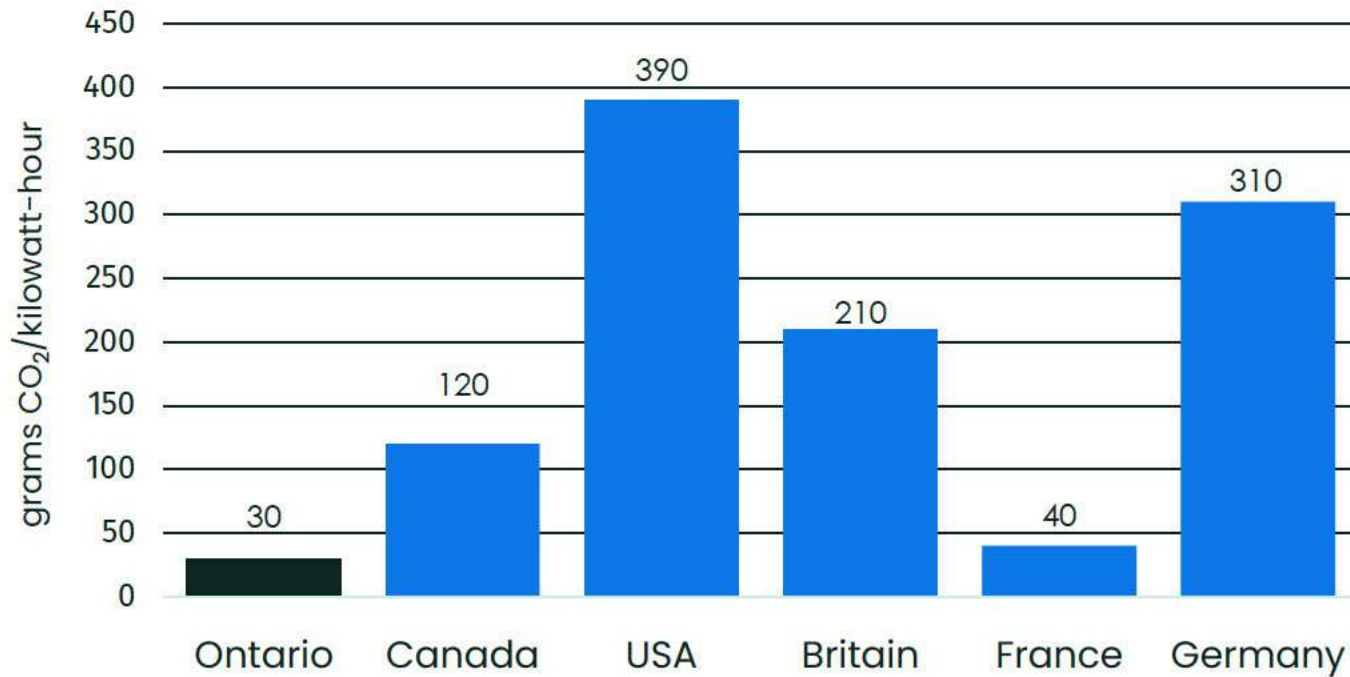
The NGS Expansion project received an IESO LT1 contract on May 9, 2024.

Our Electricity Grid

World Leader in Clean Electricity Supply



Carbon Dioxide (CO₂) Emissions Intensity
– Ontario vs. World



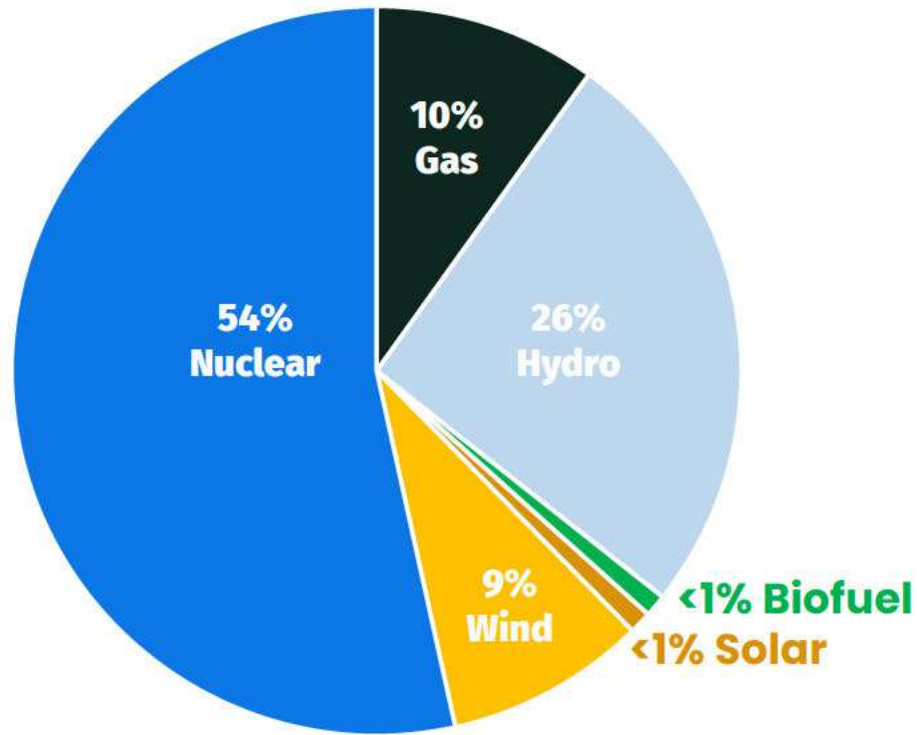
Ontario has one of the cleanest electricity systems in the world.

It is about 90% emissions-free (2022).

Our Electricity Grid



2022 Energy Output

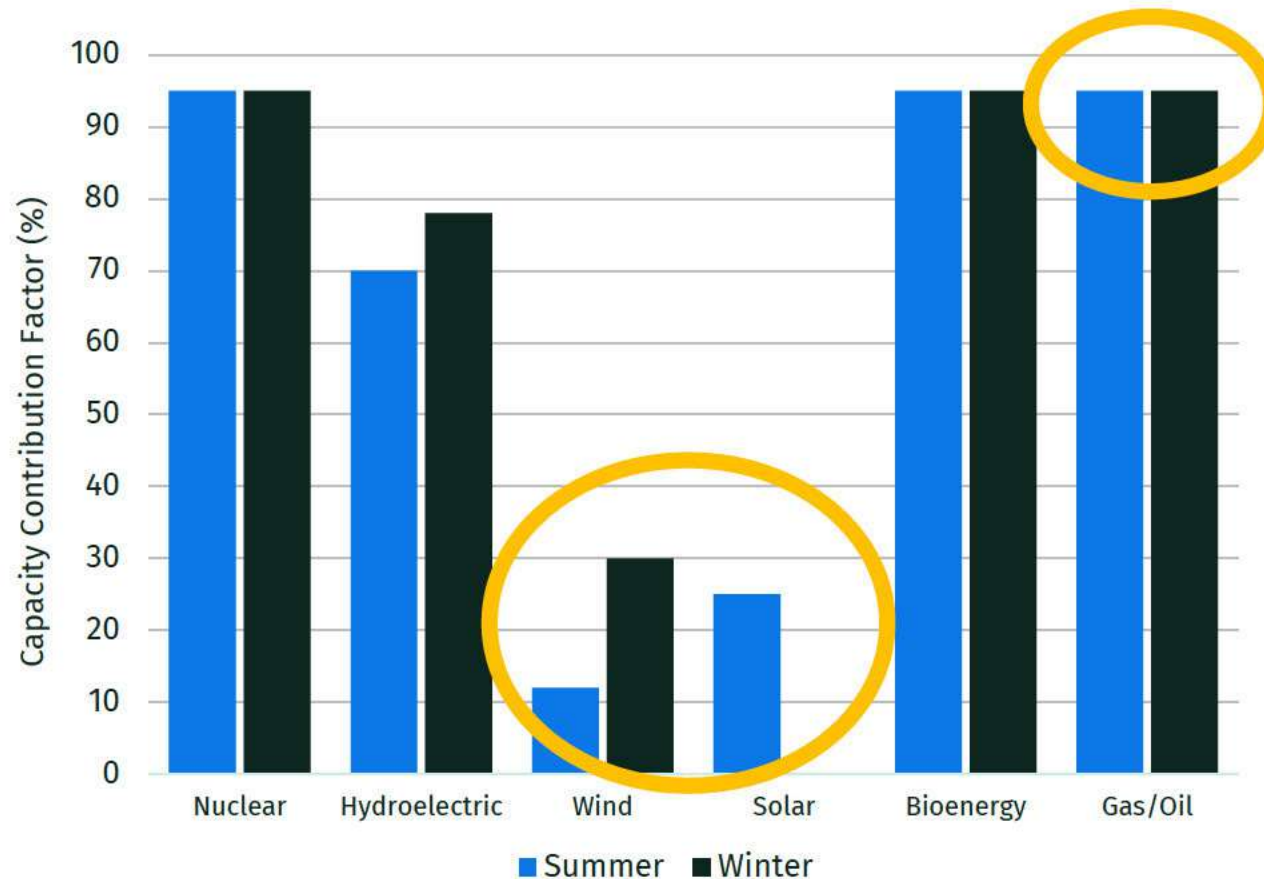


■ Gas ■ Hydro ■ Biofuel ■ Solar ■ Wind ■ Nuclear

Currently natural gas generation resources provide 10% of the electrical supply and helps the system meet peak demand periods.

Natural gas provides reliable, on-demand power when renewable energy sources like wind and solar are not available (i.e., low sunlight / low wind periods).

Why is Gas Needed to Work with Wind & Solar to Meet Summer & Winter Capacity Contribution?



Wind generation varies seasonally.

Solar generation is negligible in the winter. In summer, contributions vary daily, peaking in the early afternoon ahead of peak demand which occurs later in the evening.

Natural gas generation does not vary seasonally and is available when needed.

Why New Natural Gas Generation is Required

Key Features and Benefits of Natural Gas



Solar and wind resources provide intermittent electricity, while natural gas generation provides **reliable, all-weather electricity**.

The electricity system is periodically at risk of blackout at times of severe weather events when wind and solar generation are unavailable.

- 60% of these events last six hours or more and **natural gas is currently the only available option** capable of reliably running for extended periods during these events.
- Additional natural gas generation is needed to address future events that may put stress on Ontario's electricity grid.

A Transitional Resource

Key Features and Benefits of Natural Gas



While Ontario moves towards bringing more non-emitting technologies onto the electricity grid for the long term, **natural gas is needed in the short term to ensure the system stays reliable and affordable** during this transition.

Natural gas is unique in its flexibility, it can be switched on and off quickly and can respond to sudden changes in demand (electrical demand can change by 33% throughout the day).



Achieving a Net-Zero Economy

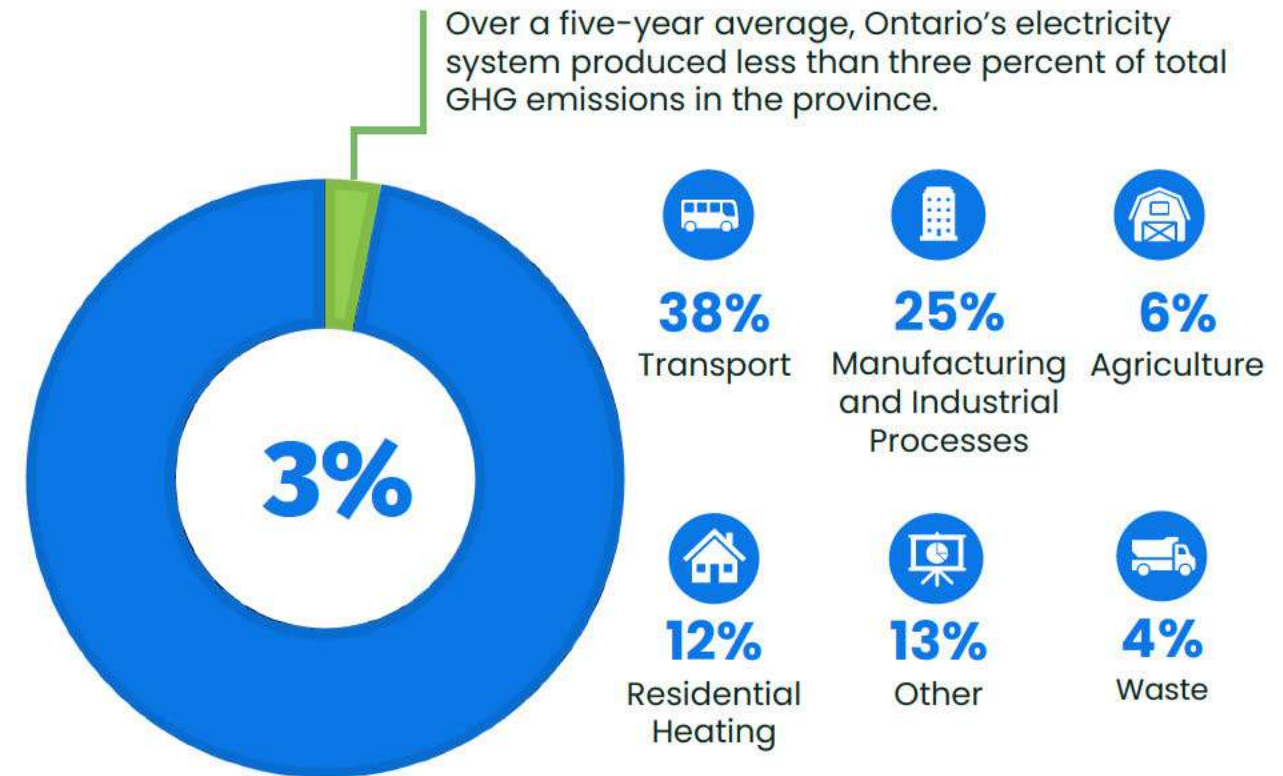
The Role of Natural Gas in Ontario's Decarbonization



Heavy greenhouse gas (GHG) producing sectors such as transportation and manufacturing can be decarbonized by switching to electricity for energy.

As a low GHG emitting source, the NGS Expansion will become part of the **solution** to meet the increased electricity demand needed for the broader **decarbonization** of our economy.

GHG EMISSIONS IN ONTARIO BY SECTOR*



*Percentages have been rounded and as a result will not add to 100

Source - <https://www.ieso.ca/en/Powering-Tomorrow/2021/Six-things-to-know-about-the-IESOs-study-on-phasing-out-gas-fired-generation-by-2030>

Health & Safety

Health and safety of Atura Power employees, the people of Ontario and the natural environment is a key value of Atura Power. As such, we operate our facilities within, and in compliance with, all permits, provincial and federal legislation.



Project Contacts



For questions, comments or more information:

- Speak directly with the project team in attendance
- Complete a comment form
- Email the project team

 napaneeexpansion@aturapower.com

- Visit the project webpage

 aturapower.com/napaneeexpansion

Appendix C3b – Public Meeting Boards

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

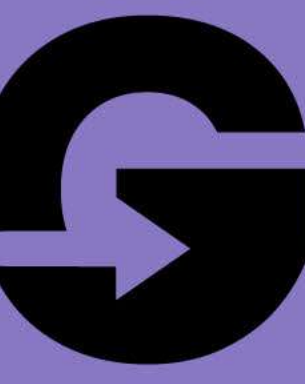
You can provide feedback by:

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

napaneeexpansion@aturapower.com



Project Need



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



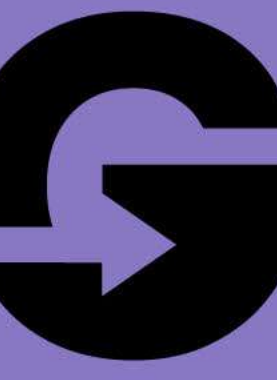
Ontario is entering a period of emerging electricity demand due to population growth and a greater use of electricity for transportation, heating and energy.

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

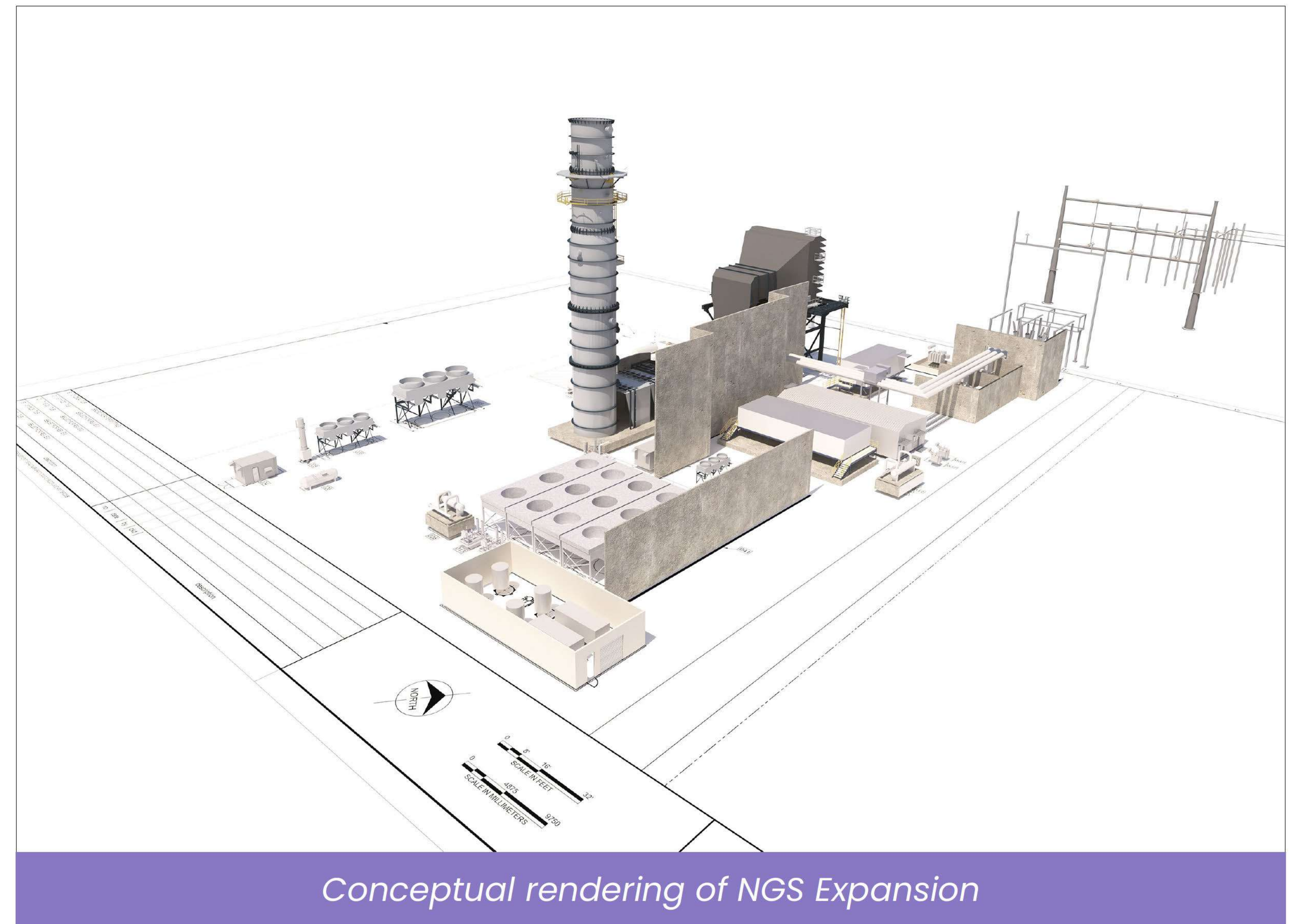


The project will add a simple cycle combustion gas turbine to provide a maximum contract capacity of 405 MW of electricity to Ontario's grid.

Existing infrastructure and facilities will be used.

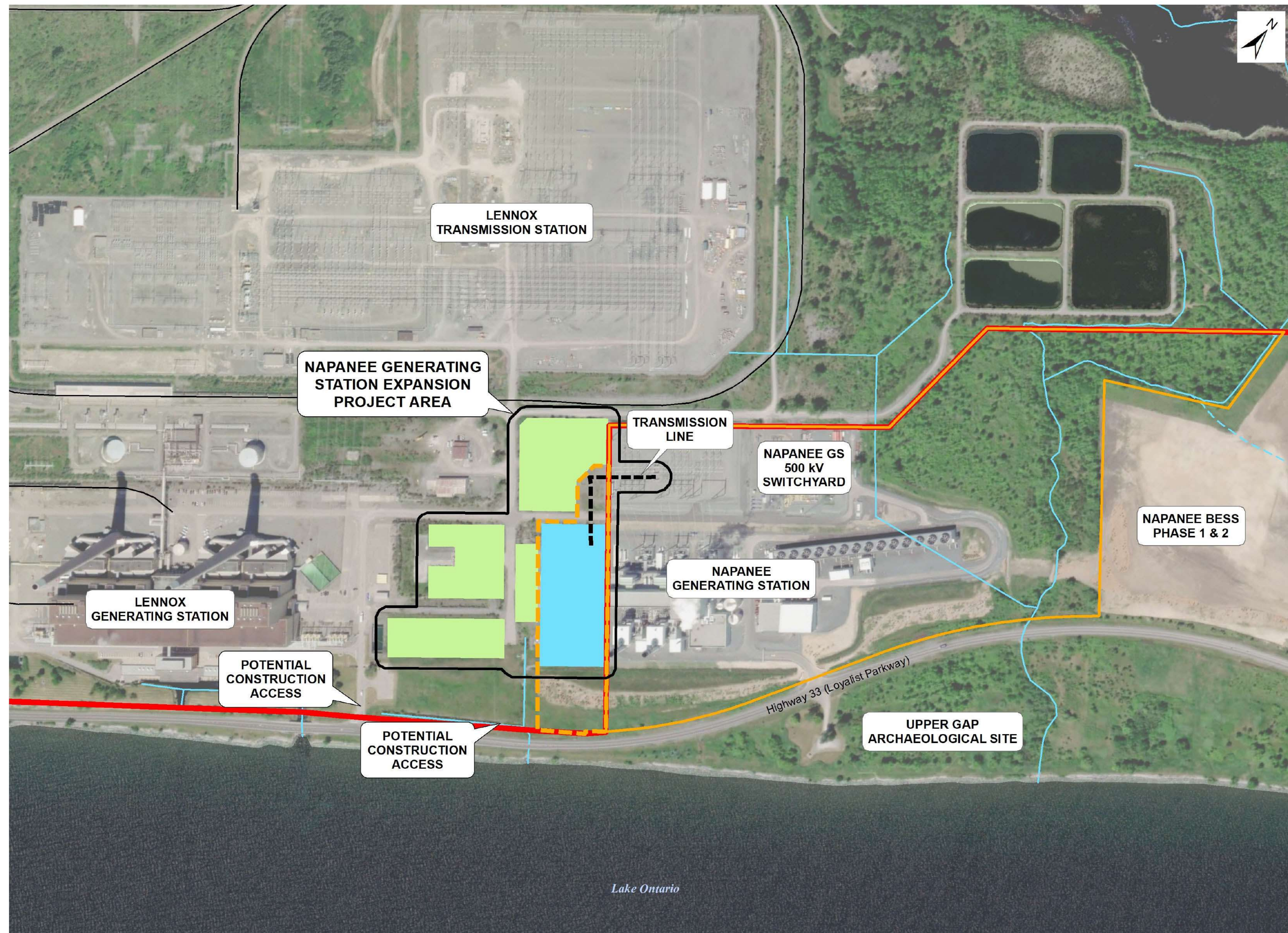
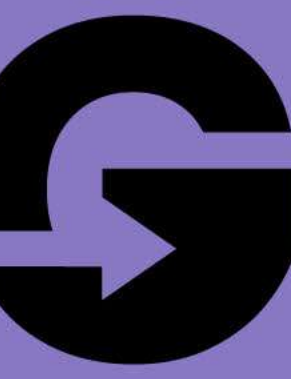
The project will be located between the Lennox Generating Station and NGS, on land owned by Ontario Power Generation.

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



Conceptual rendering of NGS Expansion

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

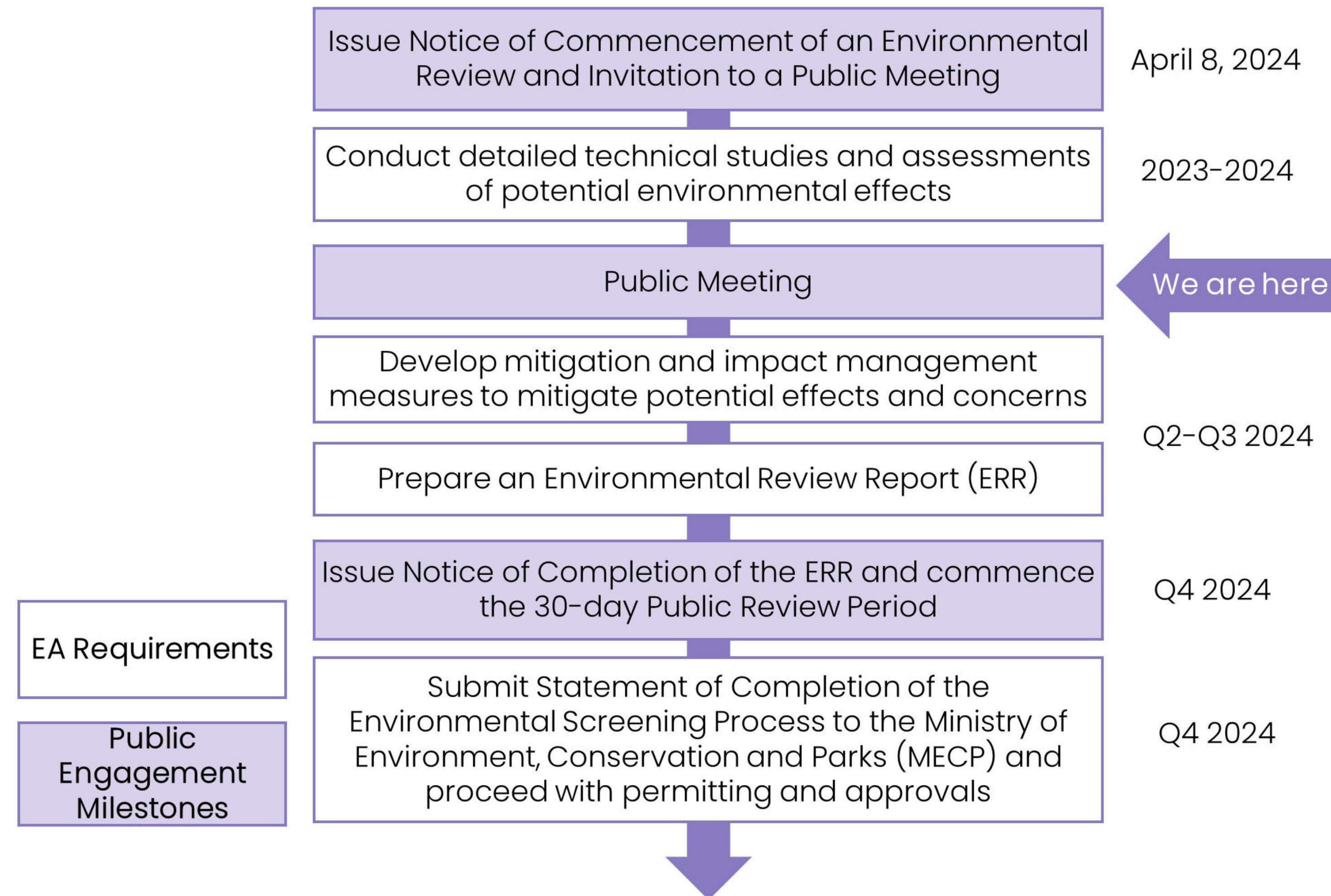
Environmental Assessment Process



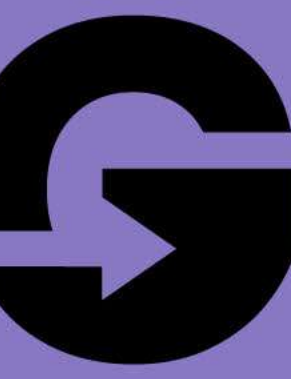
Projects that increase electricity output by more than five MW require an EA according to Ontario Regulation 50/24: Part II.3 Projects under the *Environmental Assessment Act*.

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



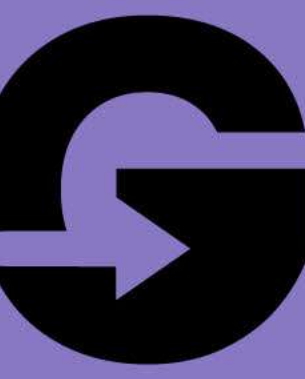
Photo of roadside drainage ditch

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_{2.5} (fine fraction)
- Volatile organic compounds
- Carbon monoxide
- Suspended particulate matter
- Particulate matter – PM₁₀ (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)

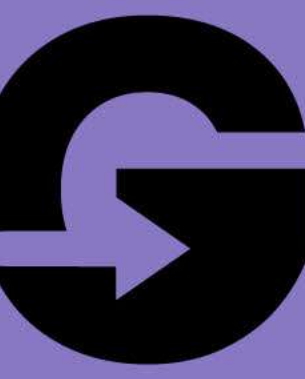
Noise*

■ 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

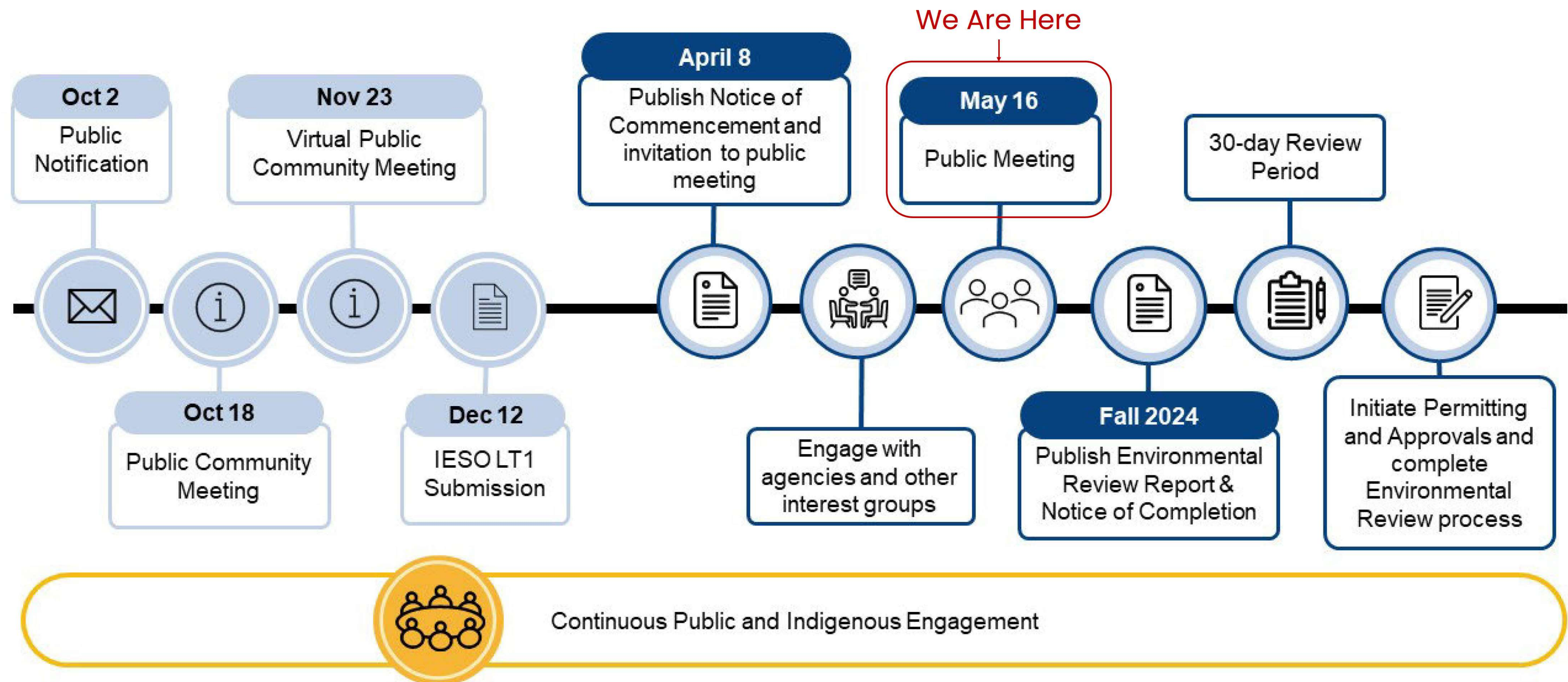


IESO LT1 Procurement Process

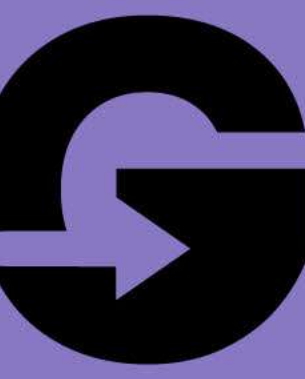
October - December 2023

Environmental Review Process

April - November 2024



Engagement Process



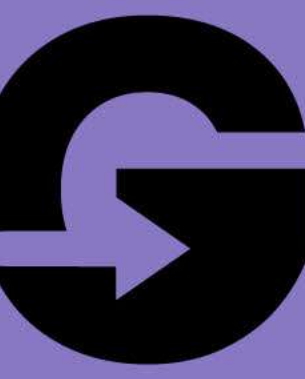
Engagement with Indigenous communities, the local Napanee community, municipal council and staff began in 2023.

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 • ECA amendment (Industrial Sewage Works & Stormwater) • ECA amendment (Air & Noise) • Municipal Site Plan Approval • MCM Archaeological and Cultural Heritage clearance	2024-2025
Construction Start Date	2025*
Commercial Operation Date	2028

* Contingent on environmental approvals

Appendix C3c – Project Information Sheet

Project Information Sheet



Project Details

Maximum Contract Capacity:	405 MW
Fuel Type:	Natural Gas
Location:	Greater Napanee
Status:	In Development

The Independent Electricity System Operator (IESO) forecasts that an additional 4,000 megawatts (MW) of electricity generation is needed by the end of the decade to meet Ontario's increasing demand and to maintain the system's reliability. As a result, the IESO is looking for additional generation resources that can be online between 2026-28 through its Long-Term 1 (LTI) procurement process.

Atura Power is expanding its Napanee Generating Station (NGS) in response, by adding a hydrogen-ready, simple cycle combustion gas turbine that can provide a maximum contract capacity of 405 MW of electricity to

Ontario's grid to meet peak demand starting in 2028. The NGS Expansion project received an IESO LTI contract award on May 9, 2024.

Atura Power started an Environmental Review for the NGS Expansion according to Ontario Regulation 50/24: Part II.3 Projects.

About Atura Power

Atura Power is a diversified energy company that plays a vital role supplying and balancing Ontario's electricity system. Our fleet of combined-cycle gas turbine powerplants help meet peak demand to ensure Ontarians get electricity when they need it. We are also establishing the province's low-carbon hydrogen economy and developing an energy storage system to help Ontario move towards a low-carbon energy future.

For more information about the project, visit aturapower.com/napaneeexpansion or email napaneeexpansion@aturapower.com.

Project Information Sheet

Ontario's Electricity System Transition

Ontario is taking the first steps in the transition to a net-zero economy by 2050. Increased electricity consumption is driving a need for new generation resources within the next few years. Longer term electricity plans involve major investments in nuclear, hydroelectric, wind and solar generation to increase the amount of clean electricity supply.

Key Features & Benefits of Natural Gas

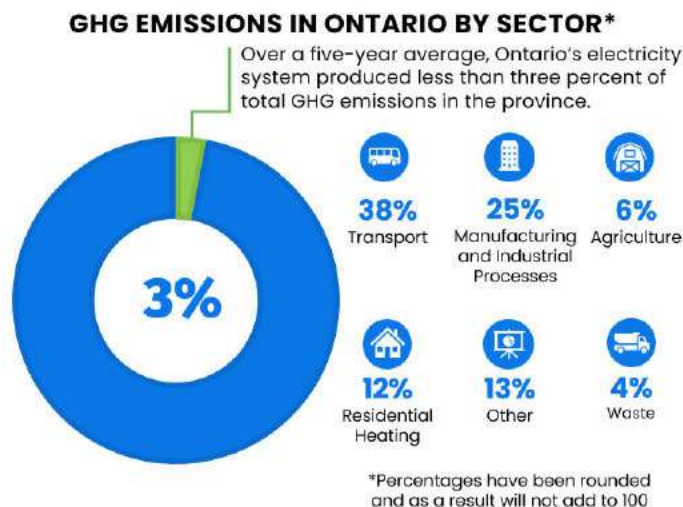
- Natural gas generation provides **reliable, all-weather electricity**, whereas solar and wind resources provide intermittent, weather-dependent electricity. The electricity system is periodically at risk of blackouts during severe weather events and when wind and solar generation are unavailable.
- Sixty per cent of blackouts last six hours or more and **natural gas generation is the only available resource that can reliably provide peak-demand electricity for extended periods during these events.**
- **Natural gas is needed to ensure that the electricity system stays reliable and affordable** while Ontario brings more non-emitting technologies onto the grid.
- **Natural gas generation is also unique in its flexibility** as it can be switched on and off quickly and can respond to sudden changes in demand (electrical demand can change by 33 per cent throughout the day).

Achieving a Net-Zero Economy: The Role of Natural Gas in Ontario's Decarbonization

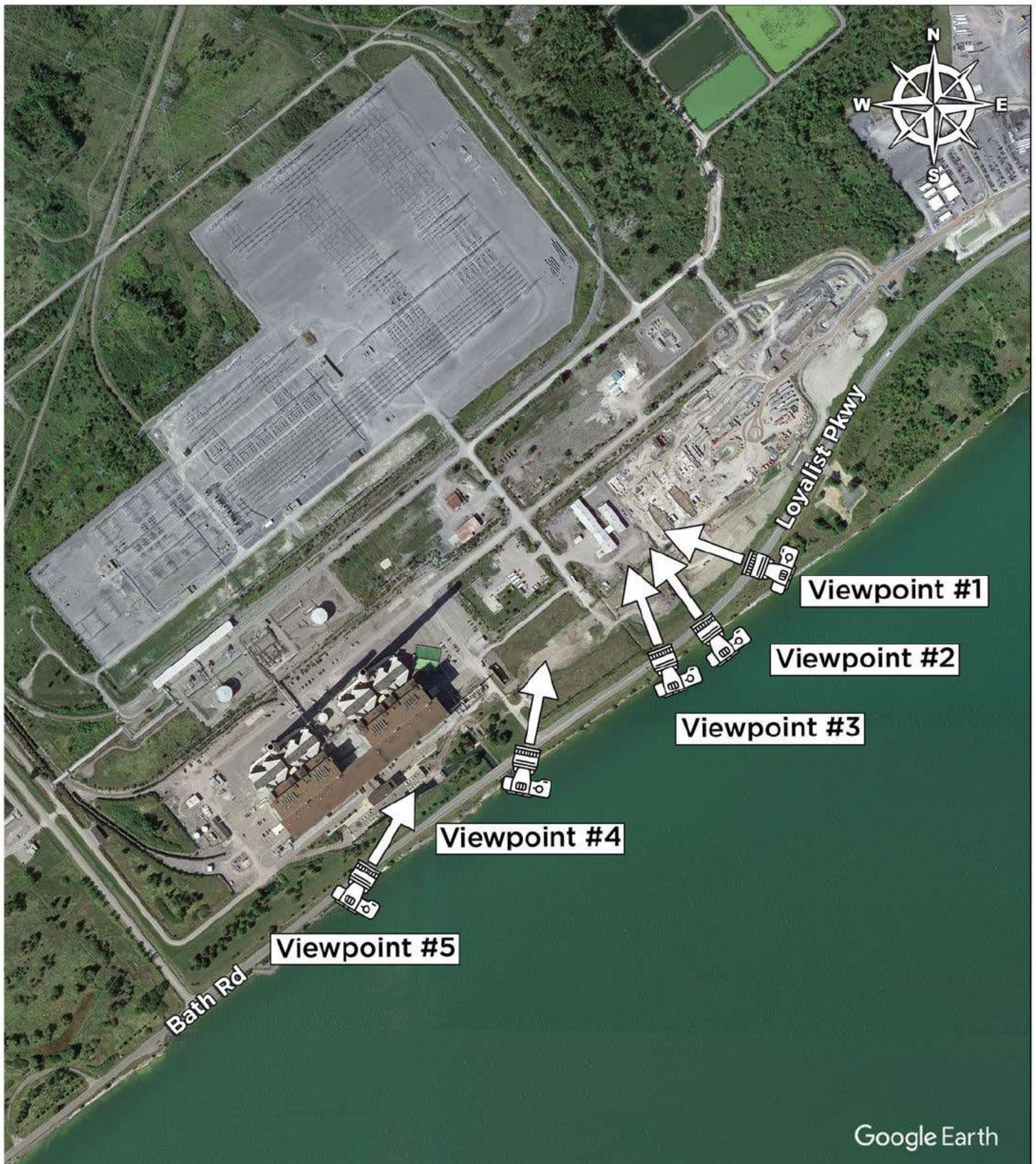
Electricity generation contributes only three per cent of Ontario's total greenhouse gas (GHG) emissions.

Heavy GHG producing sectors, such as transportation and manufacturing, can be decarbonized to reduce overall GHG emissions by switching to electricity. However, additional electricity resources are needed.

The NGS Expansion will become part of the **solution** to meet the increased electricity demand needed for the broader **decarbonization** of our economy.



Appendix C3d – NGS Expansion Renderings





EXISTING



PROPOSED



EXISTING



PROPOSED



EXISTING



PROPOSED



EXISTING



PROPOSED



EXISTING



PROPOSED

Appendix C4 – Summary of Public Engagement

Appendix C4a – Summary of Public Questions/Comments by
Category, and Atura Power's Response

Appendix C4b – Correspondence Records with Members of the Public

***Appendix C4a – Summary of Public Questions/Comments by
Category, and Atura Power's Response***

Table 1 provides a consolidated summary of the questions and comments received from members of the public, categorised by topic, and Atura Power's response. The questions and comments were provided verbally, and by comment form, project webpage submission and email from the time of publication of the Notice of Commencement on April 8, 2024, to the publication of the ERR.

Table 1 – Summary of Public Questions and Comments by Category and Atura Power's Responses

Category	Sub-Category	Source	Question/Comment	Response
Project	Project Site	Public Meeting	Why is the project site considered to be a brownfield?	A brownfield refers to underutilized land that has previously been developed for industrial purposes and contamination may be present. Environmental studies that are being undertaken as part of the EA process will determine whether lands are contaminated and require remediation prior to construction. The NGS Expansion will be located on OPG lands, currently occupied by a warehouse. There are no significant vegetation communities located within the project site.
Project Need	Climate Change	Public Meeting Comment Form	Why is it being built when we DON'T NEED IT!! It's a waste of \$2.2 Billion. And in case you're not aware we're in a Climate Crisis, which is only getting worse every day – this project, if it is completed will accelerate that. And Mr. Ford has made a sweet-heart deal with ENBRIDGE that is only going to INCREASE THE COST OF EVERYONE'S ELECTRICITY.	According to the IESO, Ontario's electricity sector is undergoing a period of significant transformation and there is critical need for stable and reliable energy producers. The IESO issued a 2024 Annual Planning Outlook providing projections on how Ontario's electricity system may evolve over the next two decades. The APO provides an outlook in which, even with increased energy conservation, electricity demand continues to grow and must be supported by developing new supply resources. New decarbonisation policies, coupled with rapid growth in the mining, electric vehicle, agricultural greenhouse, and industrial sectors, are accelerating electricity demand growth across the province and heightening needs in certain regions. The NGS Expansion project was awarded a contract in May 2024 as part of the IESO's LT RFP process to meet the province's critical need. Although Ontario is making the transition to renewable energy sources such as wind and solar, these are currently insufficient to address the projected need, and short and medium-term power generation solutions are needed until Ontario can become fully reliant on renewables. It is not uncommon to have a week or more of low wind or overcast conditions, and for these periods of time, wind and solar are not yet sufficient to provide the power to meet the growing demand. Natural gas generation operates on demand regardless of weather conditions. Through its availability to

Category	Sub-Category	Source	Question/Comment	Response
				generate power during peak demand periods in both the summer and winter, natural gas generation plays a critical role in maintaining the electricity system reliability as the province transitions to renewables. By providing readily dispatchable balancing and peaking power, natural gas serves as the enabler of renewable energy. Not only is natural gas reliable and affordable, but it will support the decarbonisation of the broader economy through the electrification of heavy GHG-producing sectors. During the period when the IESO is in the process of phasing out natural gas, projects like the NGS Expansion will supply Ontario's electricity grid with a short and medium-term resource while non-emitting technologies are planned and built. Atura Power does not dictate the price that customers pay for electricity, nor do we set government policies. Our business is to safely, reliably, and affordably generate electricity to meet the needs of the people of Ontario.
Project Schedule	General	Public Meeting	What are the proposed timelines for the Napanee BESS and NGS Expansion projects?	The Napanee BESS is expected to be in operation in Q1 2026 and the NGS Expansion is expected to be in operation in 2028.
	Construction	Public Meeting	Will the construction activities for both the BESS and NGS Expansion overlap?	Construction of the Napanee BESS is currently expected for Q2 2024 – Q2 2025, and construction of the NGS Expansion to start in Q3 2025.
Project Components	Hydrogen	Email	Is there a plan or target in place for when the plant may start using hydrogen?	Atura Power does have plans to develop hydrogen production facilities across the province, but there is no solid plan to timeline for NGS at this time.
		Email	Please provide any additional information on when this project would switch to hydrogen blending or running 100% of hydrogen.	There is currently no timeline on when the Napanee Generating Station will be either blending low-carbon hydrogen into its fuel stream or fueling its turbines with 100 per cent hydrogen.
		Email	I would appreciate any information on the turbine model.	Regarding the expansion turbine model, I will be able to share details in mid August as we are in the process of finalizing some design and equipment aspects of the project.
	Design	Public Meeting	What will be the capacity of the gas line?	Atura Power is just beginning the detailed design of the gas line interface with Enbridge, the local gas franchiser. Atura Power has verified that there is sufficient existing capacity for natural gas to be supplied to existing users and the new gas turbine plant to meet operational needs. We do not expect to install any new external

Category	Sub-Category	Source	Question/Comment	Response
				gas supply piping to the NGS.
		Public Meeting	Where is the gas turbine going?	Project components including the gas turbine will be located between the existing NGS and the Lennox Generating Station.
		Public Meeting	What will be the capacity of transmission?	The transmission line will have a capacity of 500 kV.
		Email	Why is the station being planned to have a simple cycle turbine as opposed to a combined cycle? The combined cycle would offer at least a 30% increase in efficiency meaning either more electricity could be generated from the same natural gas, or you could generate the same electricity from roughly half the gas combusted and would help us as a province and country to reduce our greenhouse gas emissions. The combined cycle also uses some of the waste heat to rotate a secondary turbine and reduces the heat expelled to air and water reducing the station's impact on surrounding areas.	The expansion turbine at NGS will be in a simple-cycle setup to allow it to very quickly turn 'on' and 'off' to best meet the fluctuating peak electricity needs of Ontarians. NGS' current gas (2) and (1) steam turbines operate in a combined cycle.
Air and Noise	Air Emissions	Webpage Submission	My wife, and I represent a group of concerned citizens, here in Greater Napanee, who are VERY worried about the ongoing and expected increased health effects of this new power plant expansion. We have interviewed a number of people who live downwind of the existing plant and have listened to their complaints about the air quality in the area when the plant(s) are running, including severe reactions for those who have Asthma!	NGS will continue to meet air quality standards and ambient air quality criteria set by the MECP. An air quality assessment will be completed in support of the ERR which will demonstrate compliance with the MECP's List of Ambient Air Quality Criteria (AAQC). An AAQC is not a regulatory value, but a concentration of a contaminant in air that is protective against adverse effects on health and/or the environment. The MECP bases AAQCs on the most sensitive effects identified through a review carried out at the time of AAQC development. Therefore, air concentrations that meet the applicable MECP AAQC would not represent health effects that may be acute (e.g., pulmonary irritation) or chronic (e.g., a life-time increased risk of cancer). Additionally, an amendment to the existing NGS ECA will be undertaken for air and noise emissions as required under Section 9 of Ontario's EPA. The amendment application will include an air quality assessment which demonstrates compliance with MECP O. Reg. 419/05 standards. O. Reg. 419/05 limits substances released into air that can affect human health and the environment.
	Noise Impacts	Public Meeting	Will the noise from NGS increase?	While the project is anticipated to produce additional noise, the project will not exceed the MECP 40 dB sound limit at night nor the

Category	Sub-Category	Source	Question/Comment	Response
				45 dB limit during the day. Additionally, sound walls will be installed as part of the project to mitigate noise pollution to adjacent properties.
		Public Meeting	What will be done to prevent an increase in noise during construction and operation?	The noise limits mentioned above cannot be exceeded. The limits that the MECP set are designed to ensure that the existing noise conditions will not be significantly changed once the project is built. The project is being designed to remain within the limits set by MECP. A noise assessment is also being completed with consideration to both construction and operation as part of the EA process to identify potential noise impacts and to determine appropriate mitigation measures, such as sound walls.
		Email	I hope the fact that sound travels over water differently than over land will be considered. The present plant makes a loud humming noise and occasionally even louder noises that travel easily across the water. Even fishing near the plant is annoying. I will check out the link you provided as well.	An acoustic study will consider the way noise travels across water in a couple of ways. As you have pointed out, sound travels differently over water than land. Over a field or a forest, sound is absorbed to some extent in trees and vegetation whereas, over water, sound is reflected instead of absorbed, so sound waves lose less energy as they travel. Changes in air temperature above the water can also influence sound waves. For example, during the night and early in the morning when a layer of warm air sits over the cooler air on the surface, this temperature inversion causes sound waves that would otherwise propagate away from the earth's surface to bend back down toward the surface, resulting in higher sound levels at a distance than would otherwise normally occur. Acoustic modelling accounts for these considerations and will calculate sound levels under calm, reflective water conditions, and in nighttime/early morning conditions when temperature inversions redirect sound waves back towards the surface. In other words, our acoustic modelling predicts the "worst case scenario" to assess the potential for noise impacts. By taking this approach, we ensure that the sound from the facility is within regulatory limits, even on days when it is most likely to carry.
	Vibrations	Public Meeting	My house has been shaking.	There are several projects and industrial operations operating in the vicinity which may contribute to ground vibrations. The operation of the existing NGS facility does not cause ground vibrations, nor is it expected that the NGS Expansion would cause vibrations.
	Mitigation	Webpage Submission	Can you please tell me what is going to be done to mitigate the impact of extra	The project is subject to the EAA and requires an environmental assessment as per O.Reg. 50/24, Part II.3. Atura Power chose to

Category	Sub-Category	Source	Question/Comment	Response
			noise, light and air pollution this project will cause in laymen's terms? We already find the current plant noise and it has too many lights in at night.	undergo an ERR under the "Category B" Screening Process which involves a comprehensive study of potential environmental effects of the expansion. This environmental assessment requires a Screening Criteria Checklist to be applied to the project to identify potential negative environmental effects in nine different criteria categories based on current knowledge or preliminary investigations. As a result, studies are currently being done to assess the potential impacts on areas which align with your concerns, including: air noise stormwater management natural environment cultural heritage archaeology, and land use. The Screening Process is a specific assessment process for projects described in the MECP's Guide to Environmental Assessment Requirements for Electricity Projects that must be completed to meet the requirements under the Ontario EAA.
	Light Pollution	Email	I notice that lights are not listed as one of the areas of concerns and I hope it can be added to the list. There are many ways to limit the light pollution in the sky while still providing adequate lights for workers and safety and it would be great if that could be a priority in the new expansion but also considered as a retrofit for the current plant which is lit up very brightly. It can affect bird migration as well as limiting the view of the stars.	We appreciate your concerns about the NGS Expansion's potential impacts on lighting and noise. We understand that the facility's lighting could affect the local community and wildlife. A lighting study will be completed in consultation with the Town of Greater Napanee prior to construction to limit light levels to only those required for operations.
Engagement	Contact List	Webpage Submission	Please add me to your email list.	I will add your name and contact information to the project communications email list.
Environmental Screening Process	Environmental Review Report	Email	When will the Environmental Review Report for your proposed new 430 MW Napanee gas plant will be publicly available?	Please be advised that Atura Power is not proposing to build a new 'gas plant' in the Town of Greater Napanee. We are planning to expand the electricity generation capacity of our existing Napanee Generating Station. I encourage you to visit the project webpage at aturapower.com/napaneeexpansion for details about the project. The ERR for the Napanee Generating Station Expansion is expected to be posted on the project webpage in late March 2025.

Category	Sub-Category	Source	Question/Comment	Response
				We will email those on the project contact list to notify them about the report's availability. I confirm that your email address is on the contact list.
		Email	Could you please send me the report as soon as it is publicly available?	The Environmental Review Report for the Napanee Generating Station Expansion is expected to be posted on the project webpage in late March 2025. We will email those on the project contact list to notify them about the report's availability.
		Public Meeting	What environmental studies are being done?	The environmental studies include several components – specifically we are doing the following studies: a cultural heritage assessment, ecological studies, an archeological assessment, a stormwater management plan, an air quality assessment, a noise assessment, and a land use screening.
		Public Meeting	What archaeological studies are being done?	The Archaeological Assessments being completed as part of the Environmental Review include a Stage 1 desktop review and a Stage 2 field study. The need to conduct Stage 3 or Stage 4 Archaeological Assessments will be determined based on the findings of the Stage 2 field study.
	Information Request	Webpage Submission	We would like Atura to provide us with the Environmental assessments/reviews that were done previously for the existing plant, and any information about the current assessment that is proceeding now.	The previous ER completed in 2014 for the existing NGS was done by TransCanada. The 2014 ERR can be accessed through this link: NGS Environmental Review Report - 20Jan 2014.pdf. An ER for the NGS Expansion under the EAA is currently underway. The ER will screen the project against pre-defined criteria as defined in MECP's Guide to Environmental Assessment Requirements for Electricity Projects (2024) to determine potential negative environmental effects and to inform the identification of mitigation measures. The pre-defined criterion considers potential effects within the following nine categories: surface and ground water, land, air and noise, natural environment, resources, socio-economic, heritage and culture, Indigenous, and other. Technical studies, modelling and field investigations informed by these criteria are being conducted in support of the ER. The ERR will be made available for public review in the late fall, and will document existing conditions, potential effects, identified mitigation measures, engagement activities and input received from Indigenous communities, the public and other stakeholders. Materials from the May 16, 2024, public meeting are posted on the project webpage and provide additional information on the ER underway. The webpage will be updated with project materials when they become available, including the ERR; you are

Category	Sub-Category	Source	Question/Comment	Response
				encouraged to revisit the webpage for updates at aturapower.com/napaneeexpansion . Additionally, we have added you to the project contact list, so you will receive project updates directly by email.
Health and Safety	Emissions	Public Meeting	Are the emissions from the NGS Expansion dangerous?	In Ontario, emissions limits and environmental standards are primarily set by MECP. The MECP is the provincial ministry responsible for protecting and conserving the environment, ensuring sustainable development, and safeguarding public health. The ministry establishes regulations and standards to control air quality, water quality, waste management, and other environmental aspects. For emissions from industrial facilities, including power plants and gas turbines, the MECP sets specific limits on various pollutants such as NOx, and other substances. These limits are designed to protect human health, ecosystems, and the overall environment. Modern gas turbines have advanced emission control technologies to minimize pollutants and we will ensure that the gas turbine meets or exceeds the standards set by MECP.
	High-Voltage Wires	Public Meeting	Are the high-voltage wires associated with the NGS Expansion unhealthy or dangerous?	According to Health Canada, the health effects of extremely low frequency electromagnetic fields (EMF) from power lines and substations have been studied extensively, and there is no scientific evidence to support claims that long term exposure causes health risks (Health Canada, 2022).
	Emergency Response and Preparedness	Public Meeting	How will spills be prevented during operations?	Site operations will abide by standard operating procedures to maintain proper storage and handling of any materials that could contaminate surface and or groundwater. Secondary containment will be provided for any oil filled equipment, as required under regulations. Employees will be trained in spill prevention and response. A Spills Emergency Preparedness and Response Plan will be prepared for the NGS Expansion project and will be maintained on-site with the required review and updating on a regular basis and following any spill event. Any spills meeting reporting criteria will be reported to the spills hotline as required.
Out of scope	Napanee Battery Energy Storage System (BESS)	Public Meeting	Why was the NGS Expansion awarded an LT1 contract, but the Napanee BESS Phase 2 was not?	When IESO put out an LT1 RFP last year, they accepted applications for energy projects in a storage category and non-storage category. For the Storage category, in which Atura Power submitted the Napanee BESS Phase 2 project, the application process was highly competitive and the generating capacity from project proposals far exceeded IESO's target. IESO will release individual contract details in early July 2024, which will provide more clarity on their selection process. At that time, Atura Power will determine steps forward for their energy storage projects,

Category	Sub-Category	Source	Question/Comment	Response
				including Napanee BESS Phase 2. Regarding the approval of the NGS Expansion, this contract was likely awarded based on the IESO's determination that gas technology is necessary to support Ontario through the projected supply gap on our transition to green energy. See the project webpage (napaneebess.com) for more information about the Napanee BESS.
		Public Meeting	What is the Fire Protection Emergency Plan for Napanee BESS?	This question is out of scope for the Napanee Generating Station Expansion project.
		Public Meeting	How will you deal with battery fires at Napanee BESS?	See the project webpage (napaneebess.com) for more information about the Napanee BESS.
		Public Meeting	Does Atura Power have additional information about the Automatic Voltage Regulator for the control system?	Atura Power cannot provide copies of Telsa's documentation as Telsa considers them confidential and we are under an agreement. The units can provide 120% of rated current for up to 10 seconds, operate from 422 to 552 VAC, operate from 45 to 66 Hz, operate from -1.0 to +1.0 pf, THD < 5%, and power regulation <2%. The response time are <200 m/sec to 95% (step) for real and reactive power commands and the same for droop response.
	Gas prices	Public Meeting	Will this project have impacts on natural gas prices?	This question is out of the scope for the NGS Expansion project.
	Property Values	Public Meeting	How will this expansion impact property values?	
Socio-Economic Impacts	Employment	Public Meeting	How many construction jobs will the expansion offer?	Atura Power will not complete its Construction Contractor tendering for at least another year. A peak workforce of 250 people (including construction jobs) was used for the traffic study. The actual number depends on how the project is scheduled by the Construction Contractor.
		Public Meeting	How many permanent jobs will the expansion offer?	The project is anticipated to add up to five full time positions during operation.
	Impacts on Surrounding Properties	Email	It is my hope that you might consider becoming an environmentally conscious facility that aims to be better than the "regulatory" limits as I, and many other Ontarians, do not feel the Government's limits sufficiently address the concerns of neighbours living close to large facilities. However, I do appreciate that you are aware and willing to be conscientious.	Atura Power believes that being part of the Greater Napanee community includes being open about our operations, engaged in the well-being of the community, and being committed to ensuring the safety of our people, neighbours, and the environment. We work hard to be the best neighbours we can be and are always willing to discuss any neighbour's questions or concerns directly with them. Thank you for your message, your ongoing interest in our project, and care for your community.
		Public	Concerned about OPG expropriating	The NGS Expansion will be built within previously industrialized

Category	Sub-Category	Source	Question/Comment	Response
		Meeting	houses / homesteads along the lake when Lennox was built.	lands currently owned by AURA Power and OPG. No other lands will be required for this project.
		Public Meeting	I don't like to have industry spoiling retirement area.	The project will be located within a previously industrialized area, between two existing facilities and is being designed to have minimal impacts to the neighboring residents the facility will service.
	Traffic	Public Meeting	How will traffic increases during construction and operation be managed?	As part of the permitting process, a detailed traffic study including the potential impacts to local traffic will be undertaken and a traffic management plan will be completed. The project team will work with MTO to determine what is required to ensure safe access to the site with minimal effect to local traffic.
		Public Meeting	Suggestion that trucks should use County Rd 4 to avoid downtown.	
		Public Meeting	During initial construction of NGS, traffic became especially heavy after shifts ended.	
		Public Meeting	Since NGS was built, traffic has been especially heavy on County Rd 8 and 33.	
	Visual Impacts	Email	We would like to know how we will experience visuals and the sound of the project it whilst it's being built and even more importantly, once it's operating.	Construction for the NGS Expansion project is targeted to begin in August 2025 and finish in 2028. AURA Power is completing the Environmental Assessment process and obtaining required permits and approvals before starting construction.
				Regarding sound, an acoustic study is underway that includes modelling of expected sound levels in the community with the NGS expansion in place. For locations across the water from the facility like yours, the modelling is accounting for potential increased sound over water due to sound reflections along the water surface as well as due to temperature inversions that may occur during calm conditions at night or early morning. MECF provides sound level limits that must be met by a given facility, and the most stringent limit is being applied to the expansion project. Cumulative sound levels from the existing and expanded NGS operations are predicted to be below this most stringent limit, including the above-noted adjustments for sound travelling over water. In terms of visual appearance, I have provided images that provide 'current' (top) and 'post-expansion' (bottom) views from roadside that somewhat match how you see the OPG and AURA Power generating stations from your point in/near Cressy: As the bottom image shows, the proposed expansion will mostly appear as an additional shorter stack just east of our current

Category	Sub-Category	Source	Question/Comment	Response
				generating station from your perspective.
Surface Water and Groundwater	Water usage	Public Meeting	Will the expansion require an increase in water usage?	Water usage for the NGS Expansion will be a small fraction of that used by the existing NGS which is a combined cycle facility. The gas turbine will fire natural gas only and does not need water or steam injection during normal operation. The unit is fitted with an evaporative cooler which can be turned on during warm weather periods to cool the inlet air to the gas turbine generator. When operating, the evaporative cooler will use water from the existing NGS combined cycle water system. Other water needs are very minimal and intermittent and also rely on water from the existing NGS. These include water for firewater systems, periodic turbine washes and potable water for emergency wash stations.
		Public Meeting	Is there potential for this expansion to cause a water shortage?	The expansion is not expected to significantly increase the amount of water used at the existing NGS and water taking will be within the limits of existing permits; therefore, water shortages are not expected due to the expansion.
	Surface water	Email	Is there potential for transformer runoff?	For the main transformer, the foundation is designed to include a large concrete containment basin, which will be piped to a nearby oil/water separator. The oil/water separator will have a retention capacity to hold 110 per cent of the oil volume of the transformer, in addition to 19,000 litres of fire fighting water supply or heavy rainfall. In total, the oil/water separator has a retention capacity of 130,000 litres. Water from the separator is then carried to our on-site retention pond, which has its outlet located at the bottom of the reservoir.
	Groundwater	Public Meeting	Will there be impacts to groundwater?	Groundwater is not expected to be impacted by the project with respect to quantity or quality. The presence and potential impacts of groundwater are currently under investigation. High groundwater levels that may impact construction will be managed with a PTTW provided through MECP. Water from construction activities will be returned to the surface water following appropriate treatment as specified by MECP. After construction, groundwater will return to normal or pre-construction conditions.
	Impacts on Water Bodies	Public Meeting	Will there be impacts to Lake Ontario?	No, impacts to Lake Ontario are not anticipated. Water quantity and quality of the site discharge will be monitored in accordance with the SWMP approval and will protect the receiving water environment by meeting or being better than Provincial Water Quality Objectives (PWQO). Failure to meet PWQO will require appropriate mitigation measures. All the water quality aspects described above for both construction

Category	Sub-Category	Source	Question/Comment	Response
				and operational phases are, subject to MECP approval as part of the ECA process. Approval of the project will make every effort to mitigate changes on the natural system and maintain the assimilative capacity of the natural receiving waters. Subsequent monitoring will assess this objective and may require further investigations or modifications to protect the receiving waters.
	General	Public Meeting	Will wells be installed as part of this work?	Yes, monitoring wells will be installed prior to and maintained during construction. It has not yet been determined whether the wells will be needed during operation.

***Appendix C4b – Correspondence Records with Members of
the Public***

General Public / Other Stakeholder

Volatility

Issues: Procurement, Project Notice, Protocols/Engagement Process, Consultation / Engagement

Contact Date: May 13, 2024 08:28-00:00 Method: E-mail

Activity ID: 983

Contact People: [REDACTED]

Topics Discussed: Project Notice, Consultation / Engagement

From: napaneeexpansion@aturapower.com

Sent: Monday, May 13, 2024 8:28 AM

To: Darius.Sokal@aturapower.com

Cc: napaneeexpansion@aturapower.com

Subject: Napanee Generating Station Expansion Public Meeting Reminder

Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Good morning.

This is a friendly reminder of Atura Power's upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.

Thank you and let me know if you have any questions or wish to be removed from the project contact list.

Darius Sokal

Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Algonquin & Lakeshore Catholic District School Board General Public / Other Stakeholder

Issues: Project Notice, Protocols/Engagement Process, Consultation / Engagement, Notice of Commencement

Contact Date: May 13, 2024 08:28-00:00 **Method:** E-mail

Activity ID: 984

Contact People: [REDACTED]

Topics Discussed: Project Notice, Consultation / Engagement, Notice of Commencement

From: napaneeexpansion@aturapower.com

Sent: Monday, May 13, 2024 8:28 AM

To: Darius.Sokal@aturapower.com

Cc: Napanee Gas Expansion

Subject: Napanee Generating Station Expansion Public Meeting Reminder

Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Good morning.

This is a friendly reminder of Atura Power's upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.

Thank you and let me know if you have any questions or wish to be removed from the project contact list.

Darius Sokal

Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

General Public / Other Stakeholder

Issues: Consultation / Engagement

Contact Date: Jun 12, 2024 06:57-00:00 Method: E-mail

Activity ID: 1251

Contact People: [REDACTED]

Topics Discussed: Consultation / Engagement

From: Darius.Sokal@aturapower.com

Sent: Wednesday, June 12, 2024 6:57 AM

To: [REDACTED]

Cc: napaneexpansion@aturapower.com

Subject: Thank You for Attending

Good morning.

Thank you for attending the Napane Generating Station (NGS) Expansion public meeting on May 16th. The meeting materials, including the presentation, poster boards and handout, are available on the project webpage here:

<https://aturapower.com/our-projects/natural-gas/napane-generating-station-expansion/>

Please contact us with any additional questions or comments.

We appreciate your interest in the project, and look forward to your continued involvement.

Best regards,

Darius Sokal

General Public / Other Stakeholder

Issues: Consultation / Engagement

Contact Date: Jun 12, 2024 06:57-00:00 Method: E-mail

Activity ID: 1252

Contact People: [REDACTED]

Topics Discussed: Consultation / Engagement

From: Darius.Sokal@aturapower.com

Sent: Wednesday, June 12, 2024 6:57 AM

To: [REDACTED]

Cc: napaneeexpansion@aturapower.com

Subject: Thank You for Attending

Good morning.

Thank you for attending the Napanee Generating Station (NGS) Expansion public meeting on May 16th. The meeting materials, including the presentation, poster boards and handout, are available on the project webpage here:

<https://aturapower.com/our-projects/natural-gas/napanee-generating-station-expansion/>

Please contact us with any additional questions or comments.

We appreciate your interest in the project, and look forward to your continued involvement.

Best regards,

Darius Sokal

General Public / Other Stakeholder

Issues: Consultation / Engagement

Contact Date: Jun 12, 2024 06:57-00:00 Method: E-mail

Activity ID: 1253

Contact People: [REDACTED]

Topics Discussed: Consultation / Engagement

From: Darius.Sokal@aturapower.com

Sent: Wednesday, June 12, 2024 6:57 AM

To: [REDACTED]

Cc: napaneexpansion@aturapower.com

Subject: Thank You for Attending

Good morning.

Thank you for attending the Napane Generating Station (NGS) Expansion public meeting on May 16th. The meeting materials, including the presentation, poster boards and handout, are available on the project webpage here:

<https://aturapower.com/our-projects/natural-gas/napane-generating-station-expansion/>

Please contact us with any additional questions or comments.

We appreciate your interest in the project, and look forward to your continued involvement.

Best regards,

Darius Sokal

General Public / Other Stakeholder

Issues: Project Components/Design, Project Notice, Protocols/Engagement Process, Consultation / Engagement, LT1, Notice of Commencement

Contact Date: May 13, 2024 08:28-00:00 **Method:** E-mail

Activity ID: 985

Contact People: [REDACTED]

Topics Discussed: Project Notice, Consultation / Engagement, Notice of Commencement

From: napaneeexpansion@aturapower.com

Sent: Monday, May 13, 2024 8:28 AM

To: Darius.Sokal@aturapower.com

Cc: napaneeexpansion@aturapower.com

Subject: Napanee Generating Station Expansion Public Meeting Reminder

Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Good morning.

This is a friendly reminder of Atura Power's upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.

Thank you and let me know if you have any questions or wish to be removed from the project contact list.

Darius Sokal

Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Contact Date: May 24, 2024 07:09-00:00 **Method:** E-mail

Activity ID: 1068

Contact People: [REDACTED]

Topics Discussed: Project Components/Design

From: Darius.Sokal@aturapower.com

Sent: Friday, May 24, 2024 7:09AM

To: [REDACTED]

Cc: tom.fletcher@aturapower.com; Julia.Parker@aturapower.com

Subject: RE: Napanee Generating Station Tour

Hi [REDACTED]

Thanks again for visiting Napanee Generating Station earlier this month.

Paolo, our major projects engineer who was with us that day, provided the following in response to your (or [REDACTED]) question about potential transformer runoff:

For the main transformer, the foundation is designed to include a large concrete containment basin, which will be piped to a nearby oil/water separator. The oil/water separator will have a retention capacity to hold 110 per cent of the oil volume of the transformer, in addition to 19,000 litres of fire fighting water supply or heavy rainfall. In total, the oil/water separator has a retention capacity of 130,000 litres. Water from the separator is then carried to our on-site retention pond, which has its outlet located at the bottom of the reservoir.

Please let me know if you have any follow-up questions.

Best regards,

Darius Sokal

Contact Date: Jun 12, 2024 06:57-00:00 Method: E-mail

Activity ID: 1256

Contact People: [REDACTED]

Topics Discussed: Consultation / Engagement

From: Darius.Sokal@aturapower.com

Sent: Wednesday, June 12, 2024 6:57 AM

To: [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Cc: napaneexpansion@aturapower.com

Subject: Thank You for Attending

Good morning.

Thank you for attending the Napane Generating Station (NGS) Expansion public meeting on May 16th. The meeting materials, including the presentation, poster boards and handout, are available on the project webpage here:

<https://aturapower.com/our-projects/natural-gas/napane-generating-station-expansion/>

Please contact us with any additional questions or comments.

We appreciate your interest in the project, and look forward to your continued involvement.

Best regards,

Darius Sokal

Clean Air Partnership

General Public / Other Stakeholder

Issues: Project Notice, Protocols/Engagement Process, Consultation / Engagement, Notice of Commencement

Contact Date: May 13, 2024 08:28-00:00 Method: E-mail

Activity ID: 986

Contact People: Gaby Kalapos

Topics Discussed: Protocols/Engagement Process, Consultation / Engagement, Notice of Commencement

From: napaneeexpansion@aturapower.com

Sent: Monday, May 13, 2024 8:28 AM

To: Darius.Sokal@aturapower.com

Cc: napaneeexpansion@aturapower.com

Subject: Napanee Generating Station Expansion Public Meeting Reminder

Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Good morning.

This is a friendly reminder of Atura Power's upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.

Thank you and let me know if you have any questions or wish to be removed from the project contact list.

Darius Sokal

Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Community Futures of Prince Edward Lennox Addington General Public / Other Stakeholder

Issues: Project Notice, Protocols/Engagement Process, Consultation / Engagement, Notice of Commencement

Contact Date: May 13, 2024 08:28-00:00 Method: E-mail

Activity ID: 1157

Contact People:

Topics Discussed: Project Notice, Consultation / Engagement

From: Napanee Gas Expansion

Sent: Monday, May 13, 2024 8:28 AM

To: Darius Sokal

Cc: Napanee Gas Expansion

Subject: Napanee Generating Station Expansion Public Meeting Reminder

Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Good morning.

This is a friendly reminder of Atura Power's upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.

Thank you and let me know if you have any questions or wish to be removed from the project contact list.

Darius Sokal

Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

General Public / Other Stakeholder

Issues: Procurement, Project Notice, Protocols/Engagement Process, Air Quality & Emissions, Surface/Ground Water, Land-Use, Socio Economics, Consultation / Engagement, Construction, Fire / Explosion, Notice of Commencement

Contact Date: May 13, 2024 08:28-00:00 **Method:** E-mail

Activity ID: 987

Contact People: [REDACTED]

Topics Discussed: Protocols/Engagement Process, Consultation / Engagement, Notice of Commencement

From: napaneeexpansion@aturapower.com

Sent: Monday, May 13, 2024 8:28 AM

To: Darius.Sokal@aturapower.com

Cc: napaneeexpansion@aturapower.com

Subject: Napanee Generating Station Expansion Public Meeting Reminder

Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Good morning.

This is a friendly reminder of Atura Power's upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.

Thank you and let me know if you have any questions or wish to be removed from the project contact list.

Darius Sokal

Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Contact Date: Jun 12, 2024 06:57-00:00 **Method:** E-mail

Activity ID: 1255

Contact People: [REDACTED]

Topics Discussed: Consultation / Engagement

From: Darius.Sokal@aturapower.com

Sent: Wednesday, June 12, 2024 6:57 AM

To: [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Cc: napaneeexpansion@aturapower.com

Subject: Thank You for Attending

Good morning.

Thank you for attending the Napanee Generating Station (NGS) Expansion public meeting on May 16th. The meeting materials, including the presentation, poster boards and handout, are available on the project webpage here:

<https://aturapower.com/our-projects/natural-gas/napanee-generating-station-expansion/>

Please contact us with any additional questions or comments.

We appreciate your interest in the project, and look forward to your continued involvement.

Best regards,

Darius Sokal

General Public / Other Stakeholder		
Issues: Project Notice, Protocols/Engagement Process, Consultation / Engagement		
Contact Date: May 13, 2024 08:28-00:00	Method: E-mail	Activity ID: 988
Contact People: [REDACTED]		
Topics Discussed: Protocols/Engagement Process, Consultation / Engagement		
From: napaneeexpansion@aturapower.com		
Sent: Monday, May 13, 2024 8:28 AM		
To: Darius.Sokal@aturapower.com		
Cc: napaneeexpansion@aturapower.com		
Subject: Napanee Generating Station Expansion Public Meeting Reminder		
Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf		
Good morning.		
This is a friendly reminder of Atura Power's upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.		
Thank you and let me know if you have any questions or wish to be removed from the project contact list.		
Darius Sokal		
Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf		

Contact Date: Jun 12, 2024 06:57-00:00	Method: E-mail	Activity ID: 1257
Contact People: [REDACTED]		
Topics Discussed: Consultation / Engagement		
From: Darius.Sokal@aturapower.com		
Sent: Wednesday, June 12, 2024 6:57 AM		
To: [REDACTED]		
[REDACTED]		
[REDACTED]		
Cc: napaneeexpansion@aturapower.com		
Subject: Thank You for Attending		
Good morning.		
Thank you for attending the Napanee Generating Station (NGS) Expansion public meeting on May 16th. The meeting materials, including the presentation, poster boards and handout, are available on the project webpage here: https://aturapower.com/our-projects/natural-gas/napanee-generating-station-expansion/ Please contact us with any additional questions or comments.		
We appreciate your interest in the project, and look forward to your continued involvement.		
Best regards,		
Darius Sokal		

General Public / Other Stakeholder		
Issues: Noise, Visual Impacts		
Contact Date: Aug 21, 2024 21:20-00:00	Method: Webpage Submission	Activity ID: 2936
Contact People: [REDACTED]		
Topics Discussed: Noise, Visual Impacts		
From: no-reply@sendgrid.opg.com		
Sent: Wednesday, August 21, 2024 9:20 PM		
To: napaneeexpansion@aturapower.com		
Subject: Aturapower.com Inquiry from Mary Cranston about napanee_gs_expansion		
First Name: [REDACTED]		
Last Name: [REDACTED]		
Topic: Upgrade and Expansion Projects		
Upgrade and Expansion Project Topics: Napanee GS Expansion		
Email: [REDACTED]		
Enter Your Message Here:		
Hi there. We're in Prince Edward County in Cressy - at farthest north east point - and when we're at the water we look at the Napanee site. We're trying to get a feel for the visuals and the sound with the expansion. Can you let us know where we might be able to get that info? Thank you.		
I accept the privacy policy: Checked		
Contact Date: Aug 23, 2024 15:43-00:00	Method: E-mail	Activity ID: 2937
Contact People: [REDACTED]		
Topics Discussed: Noise, Visual Impacts		
[3:43 PM]		
From: napaneeexpansion@aturapower.com		
Sent: Friday, August 23, 2024 3:43 PM		
To: [REDACTED] napaneeexpansion@aturapower.com		
Subject: RE: Aturapower.com Inquiry from [REDACTED] about napanee_gs_expansion		
Hello, [REDACTED]		
Thank you for reaching out to us.		
Can you please be more specific about what information you are looking for regarding our Napanee Generating Station Expansion project? I want to be sure I understand your question so I can answer it properly and accurately.		
For instance, are you interested in how the generating station will appear and the noise it will emit after the project is completed?		
Thank you for your interest in our project.		
Darius Sokal Sr. Communications & Stakeholder Relations Advisor Atura Power		
[8:13 PM]		
From: [REDACTED]		
Sent: Friday, August 23, 2024 8:13 PM		
To: napaneeexpansion@aturapower.com		
Subject: RE: Aturapower.com Inquiry from [REDACTED] about napanee_gs_expansion		
Hi there.		
Thanks for your note back.		
I'd say - both...we would like to know how we will experience it whilst it's being built and even more importantly, once it's operating.		
Here is a picture of how we see it now:		
[IMAGE]		

Contact Date: Sep 04, 2024 10:40-00:00 Method: E-mail

Activity ID: 2938

Contact People: [REDACTED]

Topics Discussed: Noise, Visual Impacts

From: napaneexpansion@aturapower.com

Sent: Wednesday, September 4, 2024 10:40 AM

To: [REDACTED] napaneexpansion@aturapower.com

Subject: Re: Aturapower.com | Inquiry from [REDACTED] about napanee_gs_expansion

Hello again, [REDACTED]

Thanks for your reply to my email on August 23rd, and for your patience as I gathered the information I needed to answer your questions.

Construction for the Napane Generating Station (NGS) Expansion project is targeted to begin in August 2025 and finish in 2028. Atura Power is completing the Environmental Assessment process and obtaining required permits and approvals before starting construction.

Regarding sound, an acoustic study is underway that includes modelling of expected sound levels in the community with the NGS expansion in place. For locations across the water from the facility like yours, the modelling is accounting for potential increased sound over water due to sound reflections along the water surface as well as due to temperature inversions that may occur during calm conditions at night or early morning. The Ontario Ministry of the Environment, Conservation and Parks (MECP) provides sound level limits that must be met by a given facility, and the most stringent limit is being applied to the expansion project. Cumulative sound levels from the existing and expanded NGS operations are predicted to be below this most stringent limit, including the above-noted adjustments for sound travelling over water.

In terms of visual appearance, I've provided images that provide 'current' (top) and 'post-expansion' (bottom) views from roadside that somewhat match how you see the OPG and Atura Power generating stations from your point in/near Cressy:

[IMAGES]

As the bottom image shows, the proposed expansion will mostly appear as an additional shorter shorter stack just east of our current generating station from your perspective.

I hope this information is helpful, and please let me know if you have any further questions.

Best regards,

Darius Sokal

Sr. Communications & Stakeholder Relations Advisor

Atura Power



D&B Property Maintenance

General Public / Other Stakeholder

Issues: Consultation / Engagement

Contact Date: Jun 12, 2024 06:57-00:00 Method: E-mail

Activity ID: 1254

Contact People: [REDACTED]

Topics Discussed: Consultation / Engagement

From: Darius.Sokal@aturapower.com

Sent: Wednesday, June 12, 2024 6:57 AM

To: [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Cc: napaneeexpansion@aturapower.com

Subject: Thank You for Attending

Good morning.

Thank you for attending the Napanee Generating Station (NGS) Expansion public meeting on May 16th. The meeting materials, including the presentation, poster boards and handout, are available on the project webpage here:

<https://aturapower.com/our-projects/natural-gas/napanee-generating-station-expansion/>

Please contact us with any additional questions or comments.

We appreciate your interest in the project, and look forward to your continued involvement.

Best regards,

Darius Sokal

General Public / Other Stakeholder

Issues: Employment, Construction, Extra Communications

Contact Date: Dec 04, 2024 12:04-00:00 Method: E-mail

Activity ID: 4099

Contact People: [REDACTED]

Topics Discussed: Employment, Construction, Extra Communications

From: no-reply@sendgrid.opg.com

Sent: December 4, 2024 12:04 PM

To: napaneeexpansion@aturapower.com

Subject: Aturapower.com | Inquiry from [REDACTED] about napanee_gs_expansion

First Name: [REDACTED]

Last Name: [REDACTED]

Topic: Upgrade and Expansion Projects

Upgrade and Expansion Project Topics: Napanee GS Expansion

Email: [REDACTED]

Enter Your Message Here:

I work for Western Mechanical and we where part of the original build of the Napanee Generating Station. Our roll was to move the oversized components from Laydown to install. We ruff set the turbines and generators. We also handled many of the pre fabricated components from the build area to the plant for crane install.

I would like to know if you have assigned a general contractor and or if we can meet and discuss how we may be able to help with or be part of the new expansion.

I accept the privacy policy: Checked

Contact Date: Jan 15, 2025 12:28-00:00 Method: E-mail

Activity ID: 4224

Contact People: [REDACTED]

Topics Discussed: Employment, Construction, Extra Communications

From: napaneeexpansion@aturapower.com

Sent: January 15, 2025 12:28 PM

To: [REDACTED] napaneeexpansion@aturapower.com

Subject: RE: Aturapower.com | Inquiry from [REDACTED] about napanee_gs_expansion

Hello, [REDACTED]

Thank you for your interest in working with Atura Power. Our procurement process asks companies interested in working with us provide their information and, as an option, register to be made aware of publicly posted procurement opportunities on our Suppliers webpage here: Suppliers - Atura Power. Our Supply Chain team manages things from that point.

Best regards,

Darius Sokal

Sr. Communications & Stakeholder Relations Advisor

Atura Power

Energy Probe Research Foundation		General Public / Other Stakeholder
Issues: Protocols/Engagement Process, Consultation / Engagement		
Contact Date: May 13, 2024 08:28-00:00 Method: E-mail		Activity ID: 989
Contact People:		
Topics Discussed: Protocols/Engagement Process, Consultation / Engagement		
From: napaneeexpansion@aturapower.com		
Sent: Monday, May 13, 2024 8:28 AM		
To: Darius.Sokal@aturapower.com		
Cc: napaneeexpansion@aturapower.com		
Subject: Napanee Generating Station Expansion Public Meeting Reminder		
Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf		
Good morning.		
This is a friendly reminder of Atura Power's upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.		
Thank you and let me know if you have any questions or wish to be removed from the project contact list.		
Darius Sokal		
Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf		

Environmental Defence Canada Ltd. General Public / Other Stakeholder

Issues: Project Notice, Protocols/Engagement Process, Consultation / Engagement, Environmental Assessment

Contact Date: May 13, 2024 08:28-00:00 Method: E-mail

Activity ID: 990

Contact People:

Topics Discussed: Protocols/Engagement Process, Consultation / Engagement

From: napaneeexpansion@aturapower.com

Sent: Monday, May 13, 2024 8:28 AM

To: Darius.Sokal@aturapower.com

Cc: napaneeexpansion@aturapower.com

Subject: Napanee Generating Station Expansion Public Meeting Reminder

Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Good morning.

This is a friendly reminder of Atura Power's upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.

Thank you and let me know if you have any questions or wish to be removed from the project contact list.

Darius Sokal

Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Contact Date: Nov 04, 2024 18:02-00:00 Method: Webpage Submission

Activity ID: 3307

Contact People: Mike Marcolongo

Topics Discussed: Protocols/Engagement Process

From: no-reply@sendgrid.opg.com

Sent: November 4, 2024 6:02 PM

To: napaneeexpansion@aturapower.com

Subject: Aturapower.com | Inquiry from Mike Marcolongo about napanee_gs_expansion

First Name: Mike

Last Name: Marcolongo

Topic: Upgrade and Expansion Projects

Upgrade and Expansion Project Topics: Napanee GS Expansion

Email: mmarcolongo@environmentaldefence.ca

Enter Your Message Here:

Hi there,

Has the Environmental Review for the Napanee NG Power Station expansion been completed? If not, when do you expect it to be finalized and released?

With thanks,

Mike

I accept the privacy policy: Checked

Contact Date: Nov 06, 2024 13:40-00:00 Method: E-mail

Activity ID: 3308

Contact People: [REDACTED]

Topics Discussed: Protocols/Engagement Process, Environmental Assessment
[1:40 PM]

From: napaneeexpansion@aturapower.com

Sent: November 6, 2024 1:40 PM

To: [REDACTED] napaneeexpansion@aturapower.com

Subject: RE: Aturapower.com | Inquiry from [REDACTED] about napanee_gs_expansion

Hello, [REDACTED]

The Environmental Review Report for the Napanee Generating Station Expansion is expected to be posted on the project webpage in late March 2025. We will email those on the project contact list to notify them about the report's availability.

Thank you for your interest in our Napanee Generating Station Expansion project. It will provide much needed reliable and affordable electricity to help meet Ontario's peak demand and maintain the system's reliability when intermittent and weather-dependant resources, like solar and wind, are unavailable.

Sincerely,

Darius Sokal

Sr. Communications & Stakeholder Relations Advisor

Atura Power

[2:19 PM]

From: [REDACTED]

Sent: November 6, 2024 2:19 PM

To: napaneeexpansion@aturapower.com

Subject: Re: Aturapower.com | Inquiry from [REDACTED] about napanee_gs_expansion

Thanks Darius - I appreciate your reply.

[REDACTED]

General Public / Other Stakeholder

Issues: Consultation / Engagement

Contact Date: Jun 12, 2024 06:57-00:00 Method: E-mail

Activity ID: 1258

Contact People: [REDACTED]

Topics Discussed: Consultation / Engagement

From: Darius.Sokal@aturapower.com

Sent: Wednesday, June 12, 2024 6:57 AM

To: [REDACTED]

Cc: napaneeexpansion@aturapower.com

Subject: Thank You for Attending

Good morning.

Thank you for attending the Napanee Generating Station (NGS) Expansion public meeting on May 16th. The meeting materials, including the presentation, poster boards and handout, are available on the project webpage here:

<https://aturapower.com/our-projects/natural-gas/napanee-generating-station-expansion/>

Please contact us with any additional questions or comments.

We appreciate your interest in the project, and look forward to your continued involvement.

Best regards,

Darius Sokal

General Public / Other Stakeholder

Issues: Procurement, Project Notice, Protocols/Engagement Process, Consultation / Engagement

Contact Date: May 13, 2024 08:28-00:00 **Method:** E-mail

Activity ID: 991

Contact People: [REDACTED]

Topics Discussed: Protocols/Engagement Process, Consultation / Engagement

From: napaneeexpansion@aturapower.com

Sent: Monday, May 13, 2024 8:28 AM

To: Darius.Sokal@aturapower.com

Cc: napaneeexpansion@aturapower.com

Subject: Napanee Generating Station Expansion Public Meeting Reminder

Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Good morning.

This is a friendly reminder of Atura Power's upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.

Thank you and let me know if you have any questions or wish to be removed from the project contact list.

Darius Sokal

Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

General Public / Other Stakeholder

Issues: Project Notice, Protocols/Engagement Process, Consultation / Engagement, Notice of Commencement

Contact Date: May 13, 2024 08:28-00:00 Method: E-mail

Activity ID: 992

Contact People: [REDACTED]

Topics Discussed: Project Notice, Protocols/Engagement Process, Consultation / Engagement

From: napaneeexpansion@aturapower.com

Sent: Monday, May 13, 2024 8:28 AM

To: Darius.Sokal@aturapower.com

Cc: napaneeexpansion@aturapower.com

Subject: Napanee Generating Station Expansion Public Meeting Reminder

Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Good morning.

This is a friendly reminder of Atura Power's upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.

Thank you and let me know if you have any questions or wish to be removed from the project contact list.

Darius Sokal

Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

General Public / Other Stakeholder

Issues: Consultation / Engagement

Contact Date: Jun 12, 2024 06:57-00:00 Method: E-mail

Activity ID: 1259

Contact People: [REDACTED]

Topics Discussed: Consultation / Engagement

From: Darius.Sokal@aturapower.com

Sent: Wednesday, June 12, 2024 6:57 AM

To: [REDACTED]

Cc: napaneeexpansion@aturapower.com

Subject: Thank You for Attending

Good morning.

Thank you for attending the Napanee Generating Station (NGS) Expansion public meeting on May 16th. The meeting materials, including the presentation, poster boards and handout, are available on the project webpage here:

<https://aturapower.com/our-projects/natural-gas/napanee-generating-station-expansion/>

Please contact us with any additional questions or comments.

We appreciate your interest in the project, and look forward to your continued involvement.

Best regards,

Darius Sokal

General Public / Other Stakeholder

Issues: Consultation / Engagement

Contact Date: May 16, 2024 16:00-00:00 Method: Public Meeting

Activity ID: 1250

Contact People: [REDACTED]

Topics Discussed: None

Name: [REDACTED]

Address: [REDACTED]

Telephone: [REDACTED]

Email: [REDACTED]

2. Was the information provided today helpful and informative?

Yes

3. What questions or concerns did you have about the NGS Expansion?

I will think on all the data absorbed this evening and email my thoughts.

4. Did you feel your questions about the project were answered sufficiently during the meeting?

Yes, well-considered answers to my questions.

Attached File: NGS-P 2024-05-16 [REDACTED]-1250-att.pdf

Contact Date: Jun 12, 2024 06:57-00:00 Method: E-mail

Activity ID: 1260

Contact People: [REDACTED]

Topics Discussed: Consultation / Engagement

From: Darius.Sokal@aturapower.com

Sent: Wednesday, June 12, 2024 6:57 AM

To: [REDACTED]

Cc: napaneeexpansion@aturapower.com

Subject: Thank You for Attending

Good morning.

Thank you for attending the Napanee Generating Station (NGS) Expansion public meeting on May 16th. The meeting materials, including the presentation, poster boards and handout, are available on the project webpage here:

<https://aturapower.com/our-projects/natural-gas/napanee-generating-station-expansion/>

Please contact us with any additional questions or comments.

We appreciate your interest in the project, and look forward to your continued involvement.

Best regards,

Darius Sokal

Activity Date: May 16, 2024 16:00-00:00
File Name: NGS-P 2024-05-16-1250-att.pdf

Activity Method: Public Meeting
Date Published:

Page: 1 of 2

Napanee Generating Station Expansion

Comment Form

Thank you for attending the public meeting for the Napanee Generating Station Expansion project. We value your feedback and want to hear from you! If you have comments to share, please fill out the comment form below. Your feedback will be part of the engagement record submitted to the Ministry of the Environment, Conservation and Parks (personal information redacted).

Please Print Your Name and Contact Information Below:

Name:

Address:

Telephone:

Email:

1. How would you prefer to receive a response?

☐

Regular mail

☒

Email

☐

Telephone

☐

I do not require a response

2. Was the information provided today helpful and informative?

☒

Yes

☐

No

3. What questions or concerns did you have about the NGS Expansion?

I will think on all the data absorbed this evening and e-mail my thoughts.

(Continued on next page)

4. Did you feel your questions about the project were answered sufficiently during the meeting?

Yes, well considered answers to my questions.

Napanee Generating Station Expansion

Comment Form

☒ Yes

☐ No

☐ I did not ask any questions

5. If you answered "No", or if you have additional questions you would like to ask or ideas to share, please provide them in the space below.

Please drop your completed form at the sign-in table, or send by mail or email to:

Julia Parker
Project Manager – Environmental and Municipal Approvals
1415 Joshuas Creek Drive, Unit #200
Oakville, ON L6H 7G4
napaneeexpansion@aturapower.com

All personal information included in your request – such as name, address, telephone number and property location – is collected, under the authority of Section 30 of the Environmental Assessment Act and is collected and maintained for the purpose of creating a record that is available to the general public. As the information is collected for the purpose of a public record, the protection of personal information provided in the Freedom of Information and Protection of Privacy Act (FIPPA) does not apply (s.37). Personal information you submit will become part of the available public record unless you request that your personal information remain confidential.

General Public / Other Stakeholder

Issues: Consultation / Engagement

Contact Date: Jun 12, 2024 06:57-00:00 Method: E-mail

Activity ID: 1261

Contact People: [REDACTED]

Topics Discussed: Consultation / Engagement

From: Darius.Sokal@aturapower.com

Sent: Wednesday, June 12, 2024 6:57 AM

To: [REDACTED]

Cc: napaneeexpansion@aturapower.com

Subject: Thank You for Attending

Good morning.

Thank you for attending the Napanee Generating Station (NGS) Expansion public meeting on May 16th. The meeting materials, including the presentation, poster boards and handout, are available on the project webpage here:

<https://aturapower.com/our-projects/natural-gas/napanee-generating-station-expansion/>

Please contact us with any additional questions or comments.

We appreciate your interest in the project, and look forward to your continued involvement.

Best regards,

Darius Sokal

Institute of Power Engineers -- Kingston Branch General Public / Other Stakeholder

Issues: Project Notice, Protocols/Engagement Process, Consultation / Engagement

Contact Date: May 13, 2024 08:28-00:00 Method: E-mail

Activity ID: 993

Contact People:

Topics Discussed: Protocols/Engagement Process, Consultation / Engagement

From: napaneeexpansion@aturapower.com

Sent: Monday, May 13, 2024 8:28 AM

To: Darius.Sokal@aturapower.com

Cc: napaneeexpansion@aturapower.com

Subject: Napanee Generating Station Expansion Public Meeting Reminder

Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Good morning.

This is a friendly reminder of Atura Power's upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.

Thank you and let me know if you have any questions or wish to be removed from the project contact list.

Darius Sokal

Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

General Public / Other Stakeholder

Issues: Air Quality & Emissions, Noise, Environment (general), Archaeology, Surface/Ground Water, Land-Use, Cultural Heritage, Operations, Visual Impacts, Light

Contact Date: May 15, 2024 15:00-00:00 Method: Webpage Submission

Activity ID: 1061

Contact People: [REDACTED]

Topics Discussed: Air Quality & Emissions, Noise, Visual Impacts

From: no-reply@sendgrid.opg.com

Sent: Wednesday, May 15, 2024 3:00 PM

To: Napanee Gas Expansion <napaneeexpansion@aturapower.com>

Subject: Aturapower.com | Inquiry from [REDACTED] about napanee_gs_expansion

First Name: [REDACTED]

Last Name: [REDACTED]

Topic: Upgrade and Expansion Projects

Upgrade and Expansion Project Topics: Napanee GS Expansion

Email: [REDACTED]

Enter Your Message Here:

Hello - I live about 2km away from the Napanee Generating Station - across the water. I am very concerned about extra noise, light and air pollution this project will cause - not to mention more industry on the side of our special bay. Can you please tell me what is going to be done to mitigate the impact in laymen's terms?

We already find the current plant noise and it has too many lights in at night.

Thank you, [REDACTED]

I accept the privacy policy:

Checked

Contact Date: May 17, 2024 15:32-00:00 Method: E-mail

Activity ID: 1062

Contact People: [REDACTED]

Topics Discussed: Air Quality & Emissions, Noise, Land-Use

From: napaneexpansion@aturapower.com

Sent: Friday, May 17, 2024 3:32 PM

To: [REDACTED]

Subject: RE: Aturapower.com | Inquiry from [REDACTED] about napane_gs_expansion

Hello, [REDACTED]

Thank you for your email sharing your concerns about the potential impacts that the Napane Generating Station Expansion project may have.

The project is subject to the Environmental Assessment Act and requires an environmental assessment as per Ontario Regulation 50/24, Part II.3. Atura Power chose to undergo an Environmental Review under the "Category B" Screening Process which involves a comprehensive study of potential environmental effects of the expansion.

This environmental assessment requires a Screening Criteria Checklist to be applied to the project to identify potential negative environmental effects in nine different criteria categories based on current knowledge or preliminary investigations. As a result, studies are currently being done to assess the potential impacts on areas which align with your concerns, including:

air
noise
stormwater management
natural environment
cultural heritage
archaeology, and
land use.

The Screening Process is a specific assessment process for projects described in the MECP's Guide to Environmental Assessment Requirements for Electricity Projects that must be completed to meet the requirements under the Ontario Environmental Assessment Act.

I hope the above information alleviates your concerns, and I encourage you to visit the project webpage for more details and project updates here: <https://aturapower.com/our-projects/natural-gas/napane-generating-station-expansion/>.

You're also welcome to email additional questions to this email address which we will answer as quickly and thoroughly as possible.

Best regards,

Darius Sokal

Contact Date: May 22, 2024 11:53-00:00 Method: E-mail

Activity ID: 1063

Contact People: [REDACTED]

Topics Discussed: Noise

From: [REDACTED]

Sent: Wednesday, May 22, 2024 11:54 AM

To: napaneexpansion@aturapower.com

Subject: Re: Aturapower.com | Inquiry from [REDACTED] about napane_gs_expansion

Dear Darius:

Thank you very much for your response. I notice that lights are not listed as one of the areas of concerns and I hope it can be added to the list. There are many ways to limit the light pollution in the sky while still providing adequate lights for workers and safety and it would be great if that could be a priority in the new expansion but also considered as a retrofit for the current plant which is lit up very brightly. It can affect bird migration as well as limiting the view of the stars.

Also, I hope the fact that sound travels over water differently than over land will be considered. The present plant makes a loud humming noise and occasionally even louder noises that travel easily across the water. Even fishing near the plant is annoying.

I will check out the link you provided as well. I am happy to hear that an environmental assessment is being undertaken but I hope you will forgive me when I say I am a bit skeptical about it. With a government that wanted to develop parts of the Greenbelt in power, I am not sure that the powers that be really care about the little warblers, turtles and other tiny animals and plants (including humans) lol!

Hopefully Atura Power will care.

Sincerely,

[REDACTED]

Contact Date: Jul 18, 2024 13:29-00:00 Method: E-mail

Activity ID: 1246

Contact People: [REDACTED]

Topics Discussed: Noise, Operations, Light

From: napaneexpansion@aturapower.com

Sent: Wednesday, July 18, 2024 1:29 PM

To: [REDACTED]

Subject: Re: Aturapower.com | Inquiry from [REDACTED] about napane_gs_expansion

Hello [REDACTED]

Thank you for your response on May 22nd, and sorry for my delayed response. We appreciate your concerns about the Napane Generating Station (NGS) expansion's potential impacts on lighting and noise.

We understand that the facility's lighting could affect the local community and wildlife. A lighting study will be completed in consultation with the Town of Greater Napane prior to construction to limit light levels to only those required for operations.

Regarding your concern about noise, an acoustic study will consider the way noise travels across water in a couple of ways. As you have pointed out, sound travels differently over water than land. Over a field or a forest, sound is absorbed to some extent in trees and vegetation whereas, over water, sound is reflected instead of absorbed, so sound waves lose less energy as they travel. Changes in air temperature above the water can also influence sound waves. For example, during the night and early in the morning when a layer of warm air sits over the cooler air on the surface, this temperature inversion causes sound waves that would otherwise propagate away from the earth's surface to bend back down toward the surface, resulting in higher sound levels at a distance than would otherwise normally occur.

Acoustic modelling accounts for these considerations and will calculate sound levels under calm, reflective water conditions, and in nighttime/early morning conditions when temperature inversions redirect sound waves back towards the surface. In other words, our acoustic modelling predicts the "worst case scenario" to assess the potential for noise impacts. By taking this approach, we ensure that the sound from the facility is within regulatory limits, even on days when it is most likely to carry.

Thank you again for your reply, and again, please reach out with any further questions or comments.

Best regards

Darius Sokal

[2:00 PM]

From: [REDACTED]

Sent: Wednesday, July 18, 2024 1:29 PM

To: napaneexpansion@aturapower.com

Subject: Re: Aturapower.com | Inquiry from [REDACTED] about napane_gs_expansion

Hi Darius:

Thank you so much for this response. I appreciate your time. It is my hope that you might consider becoming an environmentally conscious facility that aims to be better than the "regulatory" limits as I, and many other Ontarians, do not feel the Government's limits sufficiently address the concerns of neighbours living close to large facilities.

However, I do appreciate that you are aware and willing to be conscientious.

Thank you,

[REDACTED]

Contact Date: Jul 24, 2024 14:41-00:00 Method: E-mail

Activity ID: 1279

Contact People: [REDACTED]

Topics Discussed: None

From: napaneexpansion@aturapower.com

Sent: Wednesday, July 24, 2024 2:41 PM

To: [REDACTED]

Subject: Re: Aturapower.com | Inquiry from [REDACTED] about napane_gs_expansion

Hello, [REDACTED]

Atura Power believes that being part of the Greater Napane community includes being open about our operations, engaged in the well-being of the community, and being committed to ensuring the safety of our people, neighbours, and the environment. We work hard to be the best neighbours we can be and are always willing to discuss any neighbour's questions or concerns directly with them.

Thank you for your message, your ongoing interest in our project, and care for your community.

Sincerely,

Darius

Kingston Field Naturalists	General Public / Other Stakeholder
Issues: Project Notice, Protocols/Engagement Process, Consultation / Engagement	
Contact Date: May 13, 2024 08:28-00:00 Method: E-mail Activity ID: 994	
Contact People: Topics Discussed: None From: napaneeexpansion@aturapower.com Sent: Monday, May 13, 2024 8:28 AM To: Darius.Sokal@aturapower.com Cc: napaneeexpansion@aturapower.com Subject: Napanee Generating Station Expansion Public Meeting Reminder Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf	
Good morning. This is a friendly reminder of Atura Power's upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information. Thank you and let me know if you have any questions or wish to be removed from the project contact list. Darius Sokal Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf	

General Public / Other Stakeholder

Issues: Consultation / Engagement

Contact Date: Jun 12, 2024 06:57-00:00 Method: E-mail

Activity ID: 1262

Contact People: [REDACTED]

Topics Discussed: Consultation / Engagement

From: Darius.Sokal@aturapower.com

Sent: Wednesday, June 12, 2024 6:57 AM

To: [REDACTED]

Cc: napaneeexpansion@aturapower.com

Subject: Thank You for Attending

Good morning.

Thank you for attending the Napanee Generating Station (NGS) Expansion public meeting on May 16th. The meeting materials, including the presentation, poster boards and handout, are available on the project webpage here:

<https://aturapower.com/our-projects/natural-gas/napanee-generating-station-expansion/>

Please contact us with any additional questions or comments.

We appreciate your interest in the project, and look forward to your continued involvement.

Best regards,

Darius Sokal

General Public / Other Stakeholder		
Issues: Project Notice, Protocols/Engagement Process, Consultation / Engagement		
Contact Date: May 13, 2024 08:28-00:00	Method: E-mail	Activity ID: 995
Contact People: [REDACTED]		
Topics Discussed: Project Notice, Protocols/Engagement Process, Consultation / Engagement		
From: napaneeexpansion@aturapower.com		
Sent: Monday, May 13, 2024 8:28 AM		
To: Darius.Sokal@aturapower.com		
Cc: napaneeexpansion@aturapower.com		
Subject: Napanee Generating Station Expansion Public Meeting Reminder		
Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf		
Good morning.		
This is a friendly reminder of Atura Power’s upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.		
Thank you and let me know if you have any questions or wish to be removed from the project contact list.		
Darius Sokal		
Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf		

Lennox and Addington Historical Society General Public / Other Stakeholder

Issues: Project Notice, Protocols/Engagement Process, Consultation / Engagement

Contact Date: May 13, 2024 08:28-00:00 Method: E-mail

Activity ID: 996

Contact People:

Topics Discussed: Project Notice, Protocols/Engagement Process, Consultation / Engagement

From: napaneeexpansion@aturapower.com

Sent: Monday, May 13, 2024 8:28 AM

To: Darius.Sokal@aturapower.com

Cc: napaneeexpansion@aturapower.com

Subject: Napanee Generating Station Expansion Public Meeting Reminder

Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Good morning.

This is a friendly reminder of Atura Power's upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.

Thank you and let me know if you have any questions or wish to be removed from the project contact list.

Darius Sokal

Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Limestone District School Board

General Public / Other Stakeholder

Issues: Project Notice, Protocols/Engagement Process, Consultation / Engagement, Notice of Commencement

Contact Date: May 13, 2024 08:28-00:00 **Method:** E-mail

Activity ID: 997

Contact People: [REDACTED]

Topics Discussed: Project Notice, Protocols/Engagement Process, Consultation / Engagement, Notice of Commencement

From: napaneeexpansion@aturapower.com

Sent: Monday, May 13, 2024 8:28 AM

To: Darius.Sokal@aturapower.com

Cc: napaneeexpansion@aturapower.com

Subject: Napanee Generating Station Expansion Public Meeting Reminder

Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Good morning.

This is a friendly reminder of Atura Power's upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.

Thank you and let me know if you have any questions or wish to be removed from the project contact list.

Darius Sokal

Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

General Public / Other Stakeholder

Issues: Project Notice, Protocols/Engagement Process, Aboriginal & Treaty Rights, Site of Aboriginal Cultural Significance, Environment (general), Archaeology, Cultural Heritage, Consultation / Engagement, LT1, Ecological Health

Contact Date: May 13, 2024 08:28-00:00 **Method:** E-mail

Activity ID: 998

Contact People: [REDACTED]

Topics Discussed: Project Notice, Protocols/Engagement Process, Consultation / Engagement

From: napaneeexpansion@aturapower.com

Sent: Monday, May 13, 2024 8:28 AM

To: Darius.Sokal@aturapower.com

Cc: napaneeexpansion@aturapower.com

Subject: Napanee Generating Station Expansion Public Meeting Reminder

Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Good morning.

This is a friendly reminder of Atura Power's upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.

Thank you and let me know if you have any questions or wish to be removed from the project contact list.

Darius Sokal

Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Loyalist Parkway Association

General Public / Other Stakeholder

Issues: Project Notice, Protocols/Engagement Process, Consultation / Engagement

Contact Date: May 13, 2024 08:28-00:00 Method: E-mail

Activity ID: 999

Contact People:

Topics Discussed: Project Notice, Protocols/Engagement Process, Consultation / Engagement

From: napaneeexpansion@aturapower.com

Sent: Monday, May 13, 2024 8:28 AM

To: Darius.Sokal@aturapower.com

Cc: napaneeexpansion@aturapower.com

Subject: Napanee Generating Station Expansion Public Meeting Reminder

Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Good morning.

This is a friendly reminder of Atura Power's upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.

Thank you and let me know if you have any questions or wish to be removed from the project contact list.

Darius Sokal

Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

General Public / Other Stakeholder

Issues: Project Notice, Protocols/Engagement Process

Contact Date: Aug 21, 2024 09:55-00:00 Method: Webpage Submission

Activity ID: 2928

Contact People: [REDACTED]

Topics Discussed: None

[9:55 AM]

From: no-reply@sendgrid.opg.com

Sent: Wednesday, August 21, 2024 9:55 AM

To: napaneeexpansion@aturapower.com

Subject: Aturapower.com | Inquiry from [REDACTED] about napanee_gs_expansion

First Name: [REDACTED]

Last Name: [REDACTED]

Topic: Upgrade and Expansion Projects

Upgrade and Expansion Project Topics: Napanee GS Expansion

Email [REDACTED]

Enter Your Message Here:

Please add me to your email list.

I accept the privacy policy: Checked

[1:38 PM]

From: napaneeexpansion@aturapower.com

Sent: Wednesday, August 21, 2024 1:38 PM

To: [REDACTED] napaneeexpansion@aturapower.com

Subject: RE: Aturapower.com | Inquiry from [REDACTED] about napanee_gs_expansion

H [REDACTED]

I will add your name and contact information to the project communications email list.

Thanks for your interest.

Darius Sokal

Sr. Communications & Stakeholder Relations Advisor

General Public / Other Stakeholder

Issues: Project Notice, Protocols/Engagement Process, Consultation / Engagement

Contact Date: May 13, 2024 08:28-00:00 Method: E-mail

Activity ID: 1000

Contact People: [REDACTED]

Topics Discussed: Protocols/Engagement Process, Consultation / Engagement

From: napaneeexpansion@aturapower.com

Sent: Monday, May 13, 2024 8:28 AM

To: Darius.Sokal@aturapower.com

Cc: napaneeexpansion@aturapower.com

Subject: Napanee Generating Station Expansion Public Meeting Reminder

Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Good morning.

This is a friendly reminder of Atura Power's upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.

Thank you and let me know if you have any questions or wish to be removed from the project contact list.

Darius Sokal

Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

General Public / Other Stakeholder		
Issues: Project Notice, Consultation / Engagement, LT1		
Contact Date: May 13, 2024 08:28-00:00	Method: E-mail	Activity ID: 1156
Contact People: [REDACTED]		
Topics Discussed: Project Notice		
From: napaneeexpansion@aturapower.com		
Sent: Monday, May 13, 2024 8:28 AM		
To: Darius.Sokal@aturapower.com		
Cc: napaneeexpansion@aturapower.com		
Subject: Napanee Generating Station Expansion Public Meeting Reminder		
Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf		
Good morning.		
This is a friendly reminder of Atura Power’s upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.		
Thank you and let me know if you have any questions or wish to be removed from the project contact list.		
Darius Sokal		
Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf		

General Public / Other Stakeholder

Issues: Project Notice, Protocols/Engagement Process, Employment, Consultation / Engagement, LT1

Contact Date: May 13, 2024 08:28-00:00 Method: E-mail

Activity ID: 1001

Contact People: [REDACTED]

Topics Discussed: Project Notice, Protocols/Engagement Process, Consultation / Engagement

From: napaneeexpansion@aturapower.com

Sent: Monday, May 13, 2024 8:28 AM

To: Darius.Sokal@aturapower.com

Cc: napaneeexpansion@aturapower.com

Subject: Napanee Generating Station Expansion Public Meeting Reminder

Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Good morning.

This is a friendly reminder of Atura Power's upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.

Thank you and let me know if you have any questions or wish to be removed from the project contact list.

Darius Sokal

Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

General Public / Other Stakeholder

Issues: Procurement, Project Notice, Protocols/Engagement Process, Consultation / Engagement

Contact Date: May 13, 2024 08:28-00:00 Method: E-mail

Activity ID: 1002

Contact People: [REDACTED]

Topics Discussed: Project Notice, Protocols/Engagement Process, Consultation / Engagement

From: napaneeexpansion@aturapower.com

Sent: Monday, May 13, 2024 8:28 AM

To: Darius.Sokal@aturapower.com

Cc: napaneeexpansion@aturapower.com

Subject: Napanee Generating Station Expansion Public Meeting Reminder

Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Good morning.

This is a friendly reminder of Atura Power's upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.

Thank you and let me know if you have any questions or wish to be removed from the project contact list.

Darius Sokal

Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Napanee & District Chamber of Commerce General Public / Other Stakeholder

Issues: Project Notice, Protocols/Engagement Process, Consultation / Engagement

Contact Date: May 13, 2024 08:28-00:00 Method: E-mail

Activity ID: 1003

Contact People:

Topics Discussed: Project Notice, Protocols/Engagement Process, Consultation / Engagement

From: napaneeexpansion@aturapower.com

Sent: Monday, May 13, 2024 8:28 AM

To: Darius.Sokal@aturapower.com

Cc: napaneeexpansion@aturapower.com

Subject: Napanee Generating Station Expansion Public Meeting Reminder

Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Good morning.

This is a friendly reminder of Atura Power's upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.

Thank you and let me know if you have any questions or wish to be removed from the project contact list.

Darius Sokal

Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

General Public / Other Stakeholder

Issues: Project Components/Design, Operations

Contact Date: Nov 15, 2024 16:35-00:00 Method: E-mail

Activity ID: 3318

Contact People: [REDACTED]

Topics Discussed: Project Components/Design

From: no-reply@sendgrid.opg.com

Sent: November 15, 2024 4:35 PM

To: napaneeexpansion@aturapower.com

Subject: Aturapower.com | Inquiry from [REDACTED] about napanee_gs_expansion

First Name: [REDACTED]

Last Name: [REDACTED]

Topic: Upgrade and Expansion Projects

Upgrade and Expansion Project Topics: Napanee GS Expansion

Email: [REDACTED]

Enter Your Message Here:

Hello,

My name is [REDACTED] and I am an energy engineering student at Ontario Tech University in Oshawa. I was reading through the proposed upgrades and was pleased to see that the generating station expansion will be hydrogen-ready. I was wondering, is there a plan or target in place for when the plant may start using hydrogen?

I was also wondering why the station is planned to have only a simple cycle turbine as opposed to a combined cycle? The combined cycle would offer at least a 30% increase in efficiency meaning either more electricity could be generated from the same natural gas, or you could generate the same electricity from roughly half the gas combusted and would help us as a province and country to reduce our greenhouse gas emissions. The combined cycle also uses some of the waste heat to rotate a secondary turbine and reduces the heat expelled to air and water reducing the station's impact on surrounding areas.

Thanks very much for your time,

I accept the privacy policy: ☒ Checked

Contact Date: Nov 18, 2024 07:52-00:00 Method: E-mail

Activity ID: 3319

Contact People: [REDACTED]

Topics Discussed: Project Components/Design

From: napaneeexpansion@aturapower.com

Sent: November 18, 2024 7:52 AM

To: [REDACTED] napaneeexpansion@aturapower.com

Subject: RE: Aturapower.com | Inquiry from [REDACTED] about napanee_gs_expansion

Hi [REDACTED]

Great questions!

Regarding your first one, Atura Power does have plans to develop hydrogen production facilities across the province, but there is no solid plan to timeline for Napanee Generating Station (NGS) at this time.

And, the expansion turbine at NGS will be in a simple-cycle setup to allow it to very quickly turn 'on' and 'off' to best meet the fluctuating peak electricity needs of Ontarians. NGS' current gas (2) and (1) steam turbines operate in a combined cycle.

I hope the above answer your questions.

Best regards,

Darius Sokal

Sr. Communications & Stakeholder Relations Advisor

1415 Joshuas Creek Dr., Unit 200, Oakville, ON L6H 7G4

General Public / Other Stakeholder

Issues: Protocols/Engagement Process, Climate Change, Air Quality & Emissions, Consultation / Engagement, Environmental Assessment, Human Health, Public Community Meeting

Contact Date: May 15, 2024 11:32-00:00 Method: E-mail

Activity ID: 1069

Contact People: [REDACTED]

Topics Discussed: Protocols/Engagement Process, Public Community Meeting
[11:32 AM]

From [REDACTED]

Sent: Wednesday, May 15, 2024 11:32 AM

To: napaneeexpansion@aturapower.com

Subject: May 16 meeting at S. Fredericksburg Town Hall

Hello,

I would like to make a presentation at tomorrow's meeting in regards to the expansion of the generating station, and need to know what is required from me to do so. Is there an agenda to this meeting? It seems that it starts very early in the day, for people who work etc. — or is that a mistake on the notification in the Napanee Beaver?

Please let me know what is required and the agenda, at your earliest convenience.

Thank You,

[REDACTED]
[REDACTED]
[REDACTED]
[2:00 PM]

From: napaneeexpansion@aturapower.com

Sent: Wednesday, May 15, 2024 2:00 PM

To: [REDACTED]

Subject: RE: May 16 meeting at S. Fredericksburg Town Hall

Hi, [REDACTED]

Thank you for your message and interest in our project and public meeting.

Tomorrow's meeting is an opportunity for Atura Power to engage with attendees so they can learn more about the Napanee Generating Expansion project and get their feedback. Therefore, you are very welcome to speak with me or any member of the project team to share what's on your mind. The event is planned as an 'open forum' without a set agenda. We will have project information on boards, a presentation on a screen, and a project handout available for visitors who are encouraged to meet and speak with us about the project.

The event takes place from 4 to 8 p.m. to accommodate those who cannot attend early in the day or evening.

I've attached a PDF of the notice of commencement and public meeting invite for more details.

Thanks again for your email, and I hope to see you at the South Fredericksburg Hall tomorrow.

Best regards,

Darius Sokal

Contact Date: May 16, 2024 00:00-00:00 Method: Mail

Activity ID: 1227

Contact People: [REDACTED]
Topics Discussed: Climate Change
Comment Form mailed to Julia Parker

Name: [REDACTED]
Address: 171 East Street, Napanee
Email: [REDACTED]

3. What concerns did you have about the NGS Expansion?

Why is it being built when we DON'T NEED IT!! It's a waste of \$2.2 Billion. And in case you're not aware we're in a Climate Crisis, which is only getting worse every day -- this project, if it is completed will accelerate that. And Mr. Ford has made a sweet-heart deal with ENBRIDGE that is only going to INCREASE THE COST OF EVERYONE'S ELECTRICITY.
Attached File: NGS-P 2024-05-16 [REDACTED]-1227-att.pdf

Contact Date: Jun 18, 2024 17:20-00:00 Method: E-mail

Activity ID: 4263

Contact People: [REDACTED]
Topics Discussed: Air Quality & Emissions, Consultation / Engagement, Environmental Assessment, Human Health
From: no-reply@sendgrid.opg.com
Sent: Tuesday, June 18, 2024 5:20 PM
To: stationmgr.napanee@aturapower.com
Subject: Aturapower.com | Inquiry from [REDACTED] about napanee_gs

First Name: [REDACTED]

Last Name: [REDACTED]

Topic: Power Generation

Power Generation Topics: Napanee GS

Email: [REDACTED]

Enter Your Message Here:

Hello,
My wife, [REDACTED] and I represent a group of concerned citizens, here in Greater Napanee, who are VERY worried about the ongoing and expected increased health effects of this new powerplant expansion. We have interviewed a number of people who live downwind of the existing plant and have listened to their complaints about the air quality in the area when the plant(s) are running, including severe reactions for those who have Asthma!
We would like Atura to provide us with the Environmental assessments/reviews that were done previously for the existing plant, and any information about the current assessment that is proceeding now.
Thank You, for your anticipated compliance.

I accept the privacy policy: ☒ Checked

Contact Date: Jul 10, 2024 09:27-00:00 Method: E-mail

Activity ID: 1226

Contact People: [REDACTED]
Topics Discussed: Climate Change
From: napaneeexpansion@aturapower.com
Sent: Wednesday, July 10, 2024 9:27AM
To: [REDACTED]
Subject: Napanee Generating Station Expansion

Good morning, [REDACTED]
Thank you for the completed open house comment form and email you provided us sharing your comments and questions about Atura Power's Napanee Generating Station Expansion project. We appreciate your concern for your community and provide our responses to each of your comments and questions in the attached PDF.
Have a great day, and please reach out to us at napaneeexpansion@aturapower.com with any further questions or comments.

Sincerely,
Darius Sokal

Attached File: NGS-P 2024-07-10 [REDACTED]-ID#-att.pdf

Activity Date: May 16, 2024 00:00-00:00

File Name: NGS-P 2024-05-16 [REDACTED]-1227-att.pdf

Activity Method: Mail

Date Published:

Page: 1 of 2

Napanee Generating Station Expansion

Comment Form

Thank you for attending the public meeting for the Napanee Generating Station Expansion project. We value your feedback and want to hear from you! If you have comments to share, please fill out the comment form below. Your feedback will be part of the engagement record submitted to the Ministry of the Environment, Conservation and Parks (personal information redacted).

Please Print Your Name and Contact Information Below

Name: [REDACTED]
Address: [REDACTED]
Telephone: [REDACTED]
Email: [REDACTED]

1. How would you prefer to receive a response?
☐ Regular mail ☒ Email ☐ Telephone ☐ I do not require a response

2. Was the information provided today helpful and informative?
☒ Yes ☐ No

3. What questions or concerns did you have about the NGS Expansion?
Why is it being built when we DON'T NEED IT!! It's a waste of \$2.2 Billion And in case you're not aware we're in a Climate Crisis, which is only getting worse every day — this project, if it is completed will accelerate that.
And Mr. Ford has made a sweet-heart deal with ENBRIDGE that is only going to INCREASE THE (Continued on next page)

4. Did you feel your questions about the project were answered sufficiently during the meeting?
COST OF EVERYONE'S ELECTRICITY!!

Atura Power May 16, 2024

Handwritten notes on right margin:
Cathryn Scott Invoice
Pado Entrance work

Napanee Generating Station Expansion

Comment Form

☐ Yes

☐ No

☒ I did not ask any questions

5. If you answered "No", or if you have additional questions you would like to ask or ideas to share, please provide them in the space below.

Please drop your completed form at the sign-in table, or send by mail or email to:

Julia Parker

Project Manager – Environmental and Municipal Approvals

1415 Joshuas Creek Drive, Unit #200

Oakville, ON L6H 7G4

napaneeexpansion@aturapower.com

All personal information included in your request – such as name, address, telephone number and property location – is collected, under the authority of Section 30 of the Environmental Assessment Act and is collected and maintained for the purpose of creating a record that is available to the general public. As the information is collected for the purpose of a public record, the protection of personal information provided in the Freedom of Information and Protection of Privacy Act (FIPPA) does not apply (s.37). Personal information you submit will become part of the available public record unless you request that your personal information remain confidential.

Activity Date: Jul 10, 2024 09:27:00:00
File Name: NGS-P 2024-07-10 [REDACTED]-ID#-att.pdf

Activity Method: E-mail
Date Published:

Page: 1 of 3



1415 Joshuas Creek Dr., Unit 200
Oakville, Ont. L6H 7G4
aturapower.com

July 10, 2024



Re: Napanee Generating Station Expansion

Dear [REDACTED]

Thank you for the completed open house comment form and email you sent us sharing comments and questions about the Napanee Generating Station (NGS) Expansion project. We appreciate your concern for your community and offer the following responses to each of your points below.

Comments received via open house comment form on June 21, 2024:

Why is it being built when we DON'T NEED IT!! It's a waste of \$2.2 Billion and in case you're not aware we're in a Climate Crisis, which is only getting worse every day – this project, if it is completed will accelerate that. And Mr. Ford has made a sweet-heart deal with ENBRIDGE that is only going to INCREASE THE COST OF EVERYONE'S ELECTRICITY!!!

According to the Independent Electricity System Operator (IESO), Ontario's electricity sector is undergoing a period of significant transformation and there is critical need for stable and reliable energy producers. The IESO issued a 2024 Annual Planning Outlook (APO) providing projections on how Ontario's electricity system may evolve over the next two decades. The APO provides an outlook in which, even with increased energy conservation, electricity demand continues to grow and must be supported by developing new supply resources. New decarbonisation policies, coupled with rapid growth in the mining, electric vehicle, agricultural greenhouse, and industrial sectors, are accelerating electricity demand growth across the province and heightening needs in certain regions. The NGS Expansion project was awarded a contract in May 2024 as part of the IESO's Long-Term Request for Proposals process to meet the province's critical need.

Although Ontario is making the transition to renewable energy sources such as wind and solar, these are currently insufficient to address the projected need, and short and medium-term power generation solutions are needed until we can become fully reliant on renewables. It is not uncommon to have a week or more of low wind or overcast conditions, and for these periods of time, wind and solar are not yet sufficient to provide the power to meet the growing demand. Natural gas generation operates on demand regardless of weather conditions. Through its availability to generate power during peak demand periods in both the summer and winter, natural gas generation plays a critical role in maintaining the electricity system reliability as the



1415 Joshuas Creek Dr., Unit 200
Oakville, Ont. L6H 7G4
aturapower.com

province transitions to renewables.

By providing readily dispatchable balancing and peaking power, natural gas serves as the enabler of renewable energy. Not only is natural gas reliable and affordable, but it will support the decarbonisation of the broader economy through the electrification of heavy GHG-producing sectors. During the period when the IESO is in the process of phasing out natural gas, projects like the NGS Expansion will supply Ontario's electricity grid with a short and medium-term resource while non-emitting technologies are planned and built.

Atura Power does not dictate the price that customers pay for electricity nor do we set government policies. Our business is to safely, reliably, and affordably generate electricity to meet the needs of the people of Ontario.

Comments received via the project webpage on June 18, 2024:

My wife, [REDACTED] and I represent a group of concerned citizens, here in Greater Napanee, who are VERY worried about the ongoing and expected increased health effects of this new power plant expansion. We have interviewed a number of people who live downwind of the existing plant and have listened to their complaints about the air quality in the area when the plant(s) are running, including severe reactions for those who have Asthma!

We appreciate your concerns about air quality. The NGS will continue to meet air quality standards and ambient air quality criteria set by the Ministry of the Environment, Conservation and Parks (MECP). An air quality assessment will be completed in support of the Environmental Review (ER) which will demonstrate compliance with the MECP's List of Ambient Air Quality Criteria (AAQC). An AAQC is not a regulatory value, but a concentration of a contaminant in air that is protective against adverse effects on health and/or the environment. The MECP bases AAQCs on the most sensitive effects identified through a review carried out at the time of AAQC development. Therefore, air concentrations that meet the applicable MECP AAQC would not represent health effects that may be acute (e.g., pulmonary irritation) or chronic (e.g., a life-time increased risk of cancer). Additionally, an amendment to the existing NGS Environmental Compliance Approval (ECA) will be undertaken for air and noise emissions as required under Section 9 of Ontario's *Environmental Protection Act*. The amendment application will include an air quality assessment which demonstrates compliance with MECP Ontario Regulation (O. Reg.) 419/05 standards. O. Reg. 419/05 limits substances released into air that can affect human health and the environment.



1415 Joshuas Creek Dr., Unit 200
Oakville, Ont. L6H 7G4
aturapower.com

We would like Atura to provide us with the Environmental assessments/reviews that were done previously for the existing plant, and any information about the current assessment that is proceeding now.

The previous ER completed in 2014 for the existing NGS was done by TransCanada. The 2014 Environmental Review Report (ERR) can be accessed through this link: [NGS Environmental Review Report - 20Jan 2014.pdf](#). Please let us know if you have any problems accessing the ERR and we will provide it to you in another manner.

An ER for the NGS Expansion under the *Environmental Assessment Act* is currently underway. The ER will screen the project against pre-defined criteria as defined in MECP's Guide to Environmental Assessment Requirements for Electricity Projects (2024) to determine potential negative environmental effects and to inform the identification of mitigation measures. The pre-defined criterion considers potential effects within the following nine categories: surface and ground water, land, air and noise, natural environment, resources, socio-economic, heritage and culture, Indigenous, and other. Technical studies, modelling and field investigations informed by these criteria are being conducted in support of the ER. The ERR will be made available for public review in the late fall, and will document existing conditions, potential effects, identified mitigation measures, engagement activities and input received from Indigenous communities, the public and other stakeholders.

Materials from the May 16, 2024, public meeting are posted on the project webpage and provide additional information on the ER underway. The webpage will be updated with project materials when they become available, including the ERR; you are encouraged to revisit the webpage for updates at aturapower.com/napaneeexpansion. Additionally, we have added you to the project contact list, so you will receive project updates directly by email.

Thank you again for sharing your comments and questions with us. Please do not hesitate to reach out again by email at napaneeexpansion@aturapower.com with any further questions.

Sincerely,

Darius Sokal
Sr. Communications & Stakeholder Relations Advisor

Ontario Clean Air Alliance (OCAA)

General Public / Other Stakeholder

Issues: Protocols/Engagement Process, Environmental Assessment

Contact Date: Oct 29, 2024 07:49-00:00

Method: E-mail

Activity ID: 3290

Contact People: Jack Gibbons

Topics Discussed: Protocols/Engagement Process, Environmental Assessment

From: jack@cleanairalliance.org

Sent: October 29, 2024 12:55 PM

To: napaneeexpansion@aturapower.com

Cc: Darius.Sokal@aturapower.com

Subject: Environmental Review Report

Hi Atura Power,

1. Could you please let me know when your Environmental Review Report re: your proposed new 430 MW Napanee gas plant will be publicly available?
2. Could you please send me the report as soon as it is publicly available?

Thanks,

Jack

Jack Gibbons

Chair, Ontario Clean Air Alliance

192 Spadina Ave, #406

Toronto, ON M5T 2C2

Ph. 416 260 2080 x 2

Contact Date: Nov 01, 2024 11:44-00:00

Method: E-mail

Activity ID: 3291

Contact People: Jack Gibbons

Topics Discussed: Protocols/Engagement Process, Environmental Assessment

From: napaneeexpansion@aturapower.com

Sent: November 1, 2024 11:42 AM

To: jack@cleanairalliance.org; napaneeexpansion@aturapower.com

Cc: Darius.Sokal@aturapower.com

Subject: RE: Environmental Review Report

Hello, Mr. Gibbons.

Please be advised that Atura Power is not proposing to build a new 'gas plant' in the Town of Greater Napanee. We are planning to expand the electricity generation capacity of our existing Napanee Generating Station. I encourage you to visit the project webpage at aturapower.com/napaneeexpansion for details about the project.

The Environmental Review Report for the Napanee Generating Station Expansion is expected to be posted on the project webpage in late March 2025. We will email those on the project contact list to notify them about the report's availability. I confirm that your email address is on the contact list.

Thank you for your interest in our Napanee Generating Station Expansion project. It will provide much needed reliable and affordable electricity to help meet Ontario's peak demand and maintain the system's reliability when intermittent and weather-dependant resources, like solar and wind, are unavailable.

Sincerely,

Darius Sokal

Sr. Communications & Stakeholder Relations Advisor

Atura Power

Pennecon

General Public / Other Stakeholder

Issues: None

Contact Date: Jul 05, 2024 12:32-00:00

Method: E-mail

Activity ID: 1223

Contact People: [REDACTED]

Topics Discussed: None

From: [REDACTED]

Sent: Friday, July 5, 2024 12:32 PM

To: napaneebess2@aturapower.com; napaneeexpansion@aturapower.com

Subject: Pennecon - Bidding Opportunities - Atura Napanee Construction Scopes

Hi there,

I work for Pennecon, a multi-discipline constructor with a national footprint in the heavy industrial construction sector.

Our company has completed projects for OPG in the hydro space (including at Waba Dam and Otter Rapids) and is currently in the final stages of completing an indigenous MSA with OPG for the Northeast region.

We've completed a large number of projects across the country (as straight construction and also design-builds), and we're ideally configured to succeed in the areas of thermal generating expansion and large-scale BESS construction.

We're very interested in pre-qualifying for your approved Napanee scopes in Ontario and would greatly appreciate a contact or conversation with the appropriate person(s).

Kind regards,

[REDACTED]

[REDACTED]

Contact Date: Jul 10, 2024 07:42-00:00

Method: E-mail

Activity ID: 1240

Contact People: [REDACTED]

Topics Discussed: None

From: napaneeexpansion@aturapower.com

Sent: Wednesday, July 10, 2024 7:42 AM

To: [REDACTED] napaneebess2@aturapower.com; napaneeexpansion@aturapower.com

Subject: RE: Pennecon - Bidding Opportunities - Atura Napanee Construction Scopes

Good morning, [REDACTED]

Thanks very much for your email. I've passed on your message to the project team.

Please note that our process for suppliers requires them to submit their company information and/or register to be made aware of procurement opportunities through our Suppliers webpage here: <https://aturapower.com/suppliers/>. You'll also find a Diverse Supplier Declaration Form on the webpage that I encourage you to complete and submit if your firm qualifies.

Best regards,

Darius Sokal

Pollution Probe

General Public / Other Stakeholder

Issues: Project Notice, Protocols/Engagement Process, Consultation / Engagement

Contact Date: May 13, 2024 08:28-00:00 Method: E-mail

Activity ID: 1004

Contact People:

Topics Discussed: Project Notice, Protocols/Engagement Process, Consultation / Engagement

From: napaneeexpansion@aturapower.com

Sent: Monday, May 13, 2024 8:28 AM

To: Darius.Sokal@aturapower.com

Cc: napaneeexpansion@aturapower.com

Subject: Napanee Generating Station Expansion Public Meeting Reminder

Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Good morning.

This is a friendly reminder of Atura Power's upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.

Thank you and let me know if you have any questions or wish to be removed from the project contact list.

Darius Sokal

Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Protect Amherst Island

General Public / Other Stakeholder

Issues: Project Notice, Protocols/Engagement Process, Consultation / Engagement, Notice of Commencement

Contact Date: May 13, 2024 08:28-00:00 Method: E-mail

Activity ID: 1005

Contact People:

Topics Discussed: Protocols/Engagement Process, Notice of Commencement

From: napaneeexpansion@aturapower.com

Sent: Monday, May 13, 2024 8:28 AM

To: Darius.Sokal@aturapower.com

Cc: napaneeexpansion@aturapower.com

Subject: Napanee Generating Station Expansion Public Meeting Reminder

Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Good morning.

This is a friendly reminder of Atura Power's upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.

Thank you and let me know if you have any questions or wish to be removed from the project contact list.

Darius Sokal

Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

General Public / Other Stakeholder

Issues: Consultation / Engagement

Contact Date: Jun 12, 2024 06:57-00:00 Method: E-mail

Activity ID: 1263

Contact People: [REDACTED]

Topics Discussed: Consultation / Engagement

From: Darius.Sokal@aturapower.com

Sent: Wednesday, June 12, 2024 6:57 AM

To: [REDACTED]

Cc: napaneexpansion@aturapower.com

Subject: Thank You for Attending

Good morning.

Thank you for attending the Napane Generating Station (NGS) Expansion public meeting on May 16th. The meeting materials, including the presentation, poster boards and handout, are available on the project webpage here:

<https://aturapower.com/our-projects/natural-gas/napane-generating-station-expansion/>

Please contact us with any additional questions or comments.

We appreciate your interest in the project, and look forward to your continued involvement.

Best regards,

Darius Sokal

Rotary Club of Napanee

General Public / Other Stakeholder

Issues: Project Notice, Protocols/Engagement Process, Consultation / Engagement

Contact Date: May 13, 2024 08:28-00:00 Method: E-mail

Activity ID: 1006

Contact People:

Topics Discussed: Protocols/Engagement Process, Consultation / Engagement

From: napaneeexpansion@aturapower.com

Sent: Monday, May 13, 2024 8:28 AM

To: Darius.Sokal@aturapower.com

Cc: napaneeexpansion@aturapower.com

Subject: Napanee Generating Station Expansion Public Meeting Reminder

Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Good morning.

This is a friendly reminder of Atura Power's upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.

Thank you and let me know if you have any questions or wish to be removed from the project contact list.

Darius Sokal

Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

General Public / Other Stakeholder

Issues: Project Components/Design

Contact Date: Jun 11, 2024 14:33-00:00 Method: Webpage Submission

Activity ID: 1220

Contact People: [REDACTED]

Topics Discussed: Project Components/Design

From: no-reply@sendgrid.opg.com

Sent: Tuesday, June 11, 2024 2:33 PM

To: napaneeexpansion@aturapower.com

Subject: Aturapower.com | Inquiry from [REDACTED] about napanee_gs_expansion

First Name: [REDACTED]

Last Name: [REDACTED]

Topic: Upgrade and Expansion Projects

Upgrade and Expansion Project Topics: Napanee GS Expansion

Email: [REDACTED]

Enter Your Message Here: Hi there, It is very encouraging to see Altura Power exploring hydrogen ready technologies. I am wondering if you could provide any additional information on when this project would switch to hydrogen blending, or running 100% of hydrogen. I would also appreciate any information on the turbine model.

Thank you,
[REDACTED]

I accept the privacy policy: Checked

Contact Date: Jun 25, 2024 07:19-00:00 Method: E-mail

Activity ID: 1221

Contact People: [REDACTED]

Topics Discussed: Project Components/Design
[7:19 AM]

From: napaneeexpansion@aturapower.com

Sent: Tuesday, June 25, 2024 7:19 AM

To: [REDACTED]

Cc: napaneeexpansion@aturapower.com

Subject: RE: Aturapower.com | Inquiry from [REDACTED] about napanee_gs_expansion

Good morning, [REDACTED]

Thank you for reaching out to us.

There is currently no timeline on when the Napanee Generating Station will be either blending low-carbon hydrogen into its fuel stream or fueling its turbines with 100 per cent hydrogen.

And regarding the expansion turbine model, I'll be able to share details in mid August as we're in the process of finalizing some design and equipment aspects of the project.

Please check back with me in mid-August as I should have some details by then.

Best regards,

Darius Sokal

[12:20 PM]

From: [REDACTED]

Sent: Tuesday, June 25, 2024 12:20 PM

To: Napanee Gas Expansion <napaneeexpansion@aturapower.com>

Subject: RE: Aturapower.com | Inquiry from [REDACTED] about napanee_gs_expansion

Hi Darius,

Thank you for this information.

I am very interested in learning more about this project and will follow up with you in mid-August.

Best,

[REDACTED]

General Public / Other Stakeholder

Issues: Consultation / Engagement

Contact Date: Jun 12, 2024 06:57-00:00 Method: E-mail

Activity ID: 1264

Contact People: [REDACTED]

Topics Discussed: Consultation / Engagement

From: Darius.Sokal@aturapower.com

Sent: Wednesday, June 12, 2024 6:57 AM

To: [REDACTED]

Cc: napaneeexpansion@aturapower.com

Subject: Thank You for Attending

Good morning.

Thank you for attending the Napanee Generating Station (NGS) Expansion public meeting on May 16th. The meeting materials, including the presentation, poster boards and handout, are available on the project webpage here:

<https://aturapower.com/our-projects/natural-gas/napanee-generating-station-expansion/>

Please contact us with any additional questions or comments.

We appreciate your interest in the project, and look forward to your continued involvement.

Best regards,

Darius Sokal

General Public / Other Stakeholder

Issues: Consultation / Engagement

Contact Date: Jun 12, 2024 06:57-00:00 Method: E-mail

Activity ID: 1265

Contact People: [REDACTED]

Topics Discussed: Consultation / Engagement

From: Darius.Sokal@aturapower.com

Sent: Wednesday, June 12, 2024 6:57 AM

To: [REDACTED]

Cc: napaneeexpansion@aturapower.com

Subject: Thank You for Attending

Good morning.

Thank you for attending the Napanee Generating Station (NGS) Expansion public meeting on May 16th. The meeting materials, including the presentation, poster boards and handout, are available on the project webpage here:

<https://aturapower.com/our-projects/natural-gas/napanee-generating-station-expansion/>

Please contact us with any additional questions or comments.

We appreciate your interest in the project, and look forward to your continued involvement.

Best regards,

Darius Sokal

United Empire Loyalist Heritage Centre and Park General Public / Other Stakeholder

Issues: Project Notice, Protocols/Engagement Process, Consultation / Engagement

Contact Date: May 13, 2024 08:28-00:00 Method: E-mail

Activity ID: 1007

Contact People: [REDACTED]

Topics Discussed: Project Notice, Protocols/Engagement Process

From: napaneeexpansion@aturapower.com

Sent: Monday, May 13, 2024 8:28 AM

To: Darius.Sokal@aturapower.com

Cc: napaneeexpansion@aturapower.com

Subject: Napanee Generating Station Expansion Public Meeting Reminder

Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Good morning.

This is a friendly reminder of Atura Power's upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.

Thank you and let me know if you have any questions or wish to be removed from the project contact list.

Darius Sokal

Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Appendix C5 – Correspondence Records with Municipal Staff and Elected Officials

Town of Greater Napanee - Elected Officials Municipal / Civic Government

Issues: Procurement, Project Notice, Protocols/Engagement Process, Consultation / Engagement, LT1

Contact Date: May 13, 2024 08:28-00:00 Method: E-mail

Activity ID: 1331

Contact People: Brian Calver, Terry Richardson, Michael Schenk

Topics Discussed: Protocols/Engagement Process, [Notice of Commencement and Invitation to a Public Meeting]

From: napaneeexpansion@aturapower.com

Sent: Monday, May 13, 2024 8:28 AM

To: Darius.Sokal@aturapower.com

Cc: napaneeexpansion@aturapower.com

Subject: Napanee Generating Station Expansion Public Meeting Reminder

Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Good morning.

This is a friendly reminder of Atura Power's upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.

Thank you and let me know if you have any questions or wish to be removed from the project contact list.

Darius Sokal

Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Contact Date: Jun 12, 2024 06:57-00:00 Method: E-mail

Activity ID: 1266

Contact People: Bill Martin

Topics Discussed: Consultation / Engagement

From: Darius.Sokal@aturapower.com

Sent: Wednesday, June 12, 2024 6:57 AM

To: [REDACTED]

Cc: napaneeexpansion@aturapower.com

Subject: Thank You for Attending

Good morning.

Thank you for attending the Napanee Generating Station (NGS) Expansion public meeting on May 16th. The meeting materials, including the presentation, poster boards and handout, are available on the project webpage here:

<https://aturapower.com/our-projects/natural-gas/napanee-generating-station-expansion/>

Please contact us with any additional questions or comments.

We appreciate your interest in the project, and look forward to your continued involvement.

Best regards,

Darius Sokal

Town of Greater Napanee - Municipal Staff Municipal / Civic Government

Issues: Procurement, Project Components/Design, Project Notice, Protocols/Engagement Process, Air Quality & Emissions, Noise, Archaeology, Geology, Surface/Ground Water, Land-Use, Cultural Heritage, Consultation / Engagement, Permitting, Construction, Fire / Explosion, LGS Warehouse - Not NGS Records, Notice of Commencement

Contact Date: May 13, 2024 08:28-00:00 Method: E-mail

Activity ID: 1332

Contact People: Annie Manion, Michael Nobes, Erin Tyers, Jessica Walters, Brandt Zatterberg

Topics Discussed: Protocols/Engagement Process, Consultation / Engagement, Notice of Commencement

From: napaneeexpansion@aturapower.com

Sent: Monday, May 13, 2024 8:28 AM

To: Darius.Sokal@aturapower.com

Cc: napaneeexpansion@aturapower.com

Subject: Napanee Generating Station Expansion Public Meeting Reminder

Attachments: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Good morning.

This is a friendly reminder of Atura Power's upcoming public meeting for our proposed Napanee Generating Station Expansion taking place at the South Fredericksburgh Hall, 2478 County Rd. 8, this Thurs., May 16th, between 4 and 8 p.m. Please see the attached PDF for more information.

Thank you and let me know if you have any questions or wish to be removed from the project contact list.

Darius Sokal

Attached File: 2024-04-08-NOT_NGS_NoC_Final v2.pdf

Contact Date: Sep 10, 2024 14:00-14:45 Method: Virtual Meeting

Activity ID: 3146

Contact People: Michael Nobes

Topics Discussed: Project Components/Design, Consultation / Engagement, Permitting

Atura Power met with the Town of Greater Napanee to discuss equipment enclosures for the NGS Expansion.

Contact Date: Sep 26, 2024 08:31-00:00 Method: E-mail

Activity ID: 3145

Contact People: Michael Nobes

Topics Discussed: Land-Use, Consultation / Engagement

From: Julia.Parker@aturapower.com

Sent: September 26, 2024 8:30 AM

To: mnobes@greaternapanee.com

Cc: andrea.coutu@aturapower.com; Darren.Baiton@APSipd.com; rsamuelson@burnsmcd.com; Darius.Sokal@aturapower.com;

Alfredo.Mayorca@amermhi.com; Sean.Reed@amermhi.com; Matt.Herbst@amermhi.com; capplebury@burnsmcd.com;

Khanh.Olka@amermhi.com; kloftus@burnsmcd.com; tjohnson@burnsmcd.com; Robert.Contreras@amermhi.com; dk Diaz@burnsmcd.com;

jtstauffer@burnsmcd.com; jamayberry@burnsmcd.com; hcampbellgale@independentenvironmental.ca; michelle.wongken@avaanz.ca

Subject: NGS Expansion Enclosures - Sept 10th 2 PM Meeting Notes

Good Afternoon Michael,

Thank you for taking the time on Sept 10th to meet with our team to discuss the equipment enclosures. Please find attached the meeting minutes – would you mind reviewing the minutes and summary to confirm that we have captured the intent of what was discussed?

Thanks!

Kind Regards,

Julia Parker

Attached File: NGS-M 2024-09-26 Town of GNap MNobes-3145-att.pdf

Contact Date: Sep 27, 2024 09:54-00:00 Method: E-mail

Activity ID: 3165

Contact People: Michael Nobes

Topics Discussed: Land-Use, Consultation / Engagement

From: mnobes@greaternapanee.com

Sent: Friday, September 27, 2024 9:54 AM

To: Julia.Parker@aturapower.com

Cc: andrea.coutu@aturapower.com; Darren.Baiton@APSipd.com; rsamuelson@burnsmcd.com; Darius.Sokal@aturapower.com;

Alfredo.Mayorca@amermhi.com; Sean.Reed@amermhi.com; Matt.Herbst@amermhi.com; capplebury@burnsmcd.com;

Khanh.Olka@amermhi.com; kloftus@burnsmcd.com; tjohnson@burnsmcd.com; Robert.Contreras@amermhi.com; dkdiaz@burnsmcd.com;

jstauffer@burnsmcd.com; jamayberry@burnsmcd.com; hcampbellgale@independentenvironmental.ca; michelle.wongken@avaanz.ca

Subject: RE: NGS Expansion Enclosures - Sept 10th 2 PM Meeting Notes

Hi Julia,

These minutes capture the intent of the conversation.

Thank you,

Michael Nobes, P.Eng.

General Manager/CBO

Contact Date: Oct 04, 2024 09:39-00:00 Method: E-mail

Activity ID: 3166

Contact People: Michael Nobes

Topics Discussed: Project Components/Design, Protocols/Engagement Process, Consultation / Engagement, Permitting

From: Julia.Parker@aturapower.com

Sent: Friday, October 4, 2024 9:39 AM

To: mnobes@greaternapanee.com

Cc: andrea.coutu@aturapower.com; Darius.Sokal@aturapower.com; michelle.wongken@avaanz.ca

Subject: RE: NGS Expansion Enclosures - Sept 10th 2 PM Meeting Notes

Hi Michael,

In follow up to our enclosure meeting on September 10th, we have assembled applicable excerpts from CSA SPE-1000 code to demonstrate the scope of application for the certification of the GT control package.

CSA SPE-1000 is focused on field evaluation of electrical equipment from an electrical safety point of view. CSA SPE-1000 addresses the essential construction, marking, and test requirements that equipment must meet before it can be labelled. CSA SPE-1000 provides construction, testing, and marking requirements for the field evaluation of electrical equipment by an inspection body, where certification of the equipment is impractical or otherwise unavailable. Section 1.2 gives examples of where this would apply. The structural requirements of the building code will be confirmed by the P.Eng. stamping the enclosure drawings. As we discussed during the meeting, CSA A277 and A660 are not required for any of the enclosures, including the GT Control Package and MPWA is planning to provide stamped drawings for all enclosures except possibly the slip ring enclosure which is part of the generator equipment.

Please see attached for some excerpts from CSA SPE-1000 explaining the scope of this standard.

Feel free to reach out to discuss further if you have questions or would like to clarify any of this. Thank you for your time on this project!

Kind regards,

Julia Parker

Attached File: NGS-M 2024-10-04 Town of GNap MNobes-3166-att.pdf

Contact Date: Oct 07, 2024 09:58-00:00 Method: E-mail

Activity ID: 3168

Contact People: Michael Nobes

Topics Discussed: Land-Use, Consultation / Engagement, Permitting

From: mlippert@mhbcplan.com

Sent: October 7, 2024 9:58 AM

To: mnobes@greaternapanee.com

Cc: Julia.Parker@aturapower.com; Darren.Baiton@APSipd.com; michelle.wongken@avaanz.ca; dcurrie@mhbcplan.com

Subject: Request for Site Plan Preconsultation Meeting - Napanee Generating Station Gas Expansion Project

Good Morning Michael,

I hope you had a nice weekend. Please find attached our request for a site plan preconsultation meeting related to the Napanee Generating Station Expansion project. The attached cover letter provides an overview of the proposed expansion, current planning framework and anticipated approvals to help guide discussion at the meeting. We would be looking to schedule the preconsultation meeting the week of October 21st if schedules on your end allow as noted in the attached.

Also attached is a copy of the site plan and photo simulation of the proposed facility as viewed by Highway 33. If you require any additional information to support the scheduling of the preconsultation meeting, please let me know.

With thanks,

MEGHAN LIPPERT, BA, MAES | Planner

Attached File: NGS-M 2024-10-07 Town of GNap MNobes-3168-att 1.pdf

Attached File: NGS-M 2024-10-07 Town of GNap MNobes-3168-att 2.pdf

Attached File: NGS-M 2024-10-07 Town of GNap MNobes-3168-att 3.pdf

Contact Date: Oct 07, 2024 12:42-00:00 Method: E-mail

Activity ID: 3167

Contact People: Michael Nobes

Topics Discussed: Land-Use, Consultation / Engagement, Permitting

From: mnobes@greaternapanee.com

Sent: October 7, 2024 12:42 PM

To: Julia.Parker@aturapower.com

Cc: andrea.coutu@aturapower.com; Darius.Sokal@aturapower.com; michelle.wongken@avaanz.ca

Subject: RE: NGS Expansion Enclosures - Sept 10th 2 PM Meeting Notes

Hi Julia,

I am in agreement with this information. Please ensure this documentation is included with future permitting applications.

Thank you,

Michael Nobes, P.Eng.

General Manager/CBO

Contact Date: Oct 18, 2024 15:15-00:00 Method: E-mail

Activity ID: 3243

Contact People: Michael Nobes

Topics Discussed: Land-Use, Consultation / Engagement

From: mlippert@mhbcplan.com

Sent: October 18, 2024 3:15 PM

To: mnobes@greaternapanee.com

Cc: Julia.Parker@aturapower.com; Darren.Baiton@APSipd.com; michelle.wongken@avaanz.ca; dcurrie@mhbcplan.com

Subject: RE: Request for Site Plan Preconsultation Meeting - Napanee Generating Station Gas Expansion Project

Hello Michael,

Just following up to confirm that you received the correspondence below and we can schedule a preconsultation meeting within the next couple of weeks. If you need any assistance in scheduling, please let me know and I can assist if needed.

With thanks,

MEGHAN LIPPERT, BA, MAES | Planner

Contact Date: Oct 22, 2024 14:10-00:00 Method: E-mail

Activity ID: 3261

Contact People: Michael Nobes

Topics Discussed: Consultation / Engagement

From: mnobes@greaternapane.com

Sent: October 22, 2024 2:10 PM

To: mlippert@mhbcplan.com; creeve@greaternapane.com

Cc: Julia.Parker@aturapower.com; Darren.Baiton@APSipd.com; michelle.wongken@avaanz.ca; dcurrie@mhbcplan.com

Subject: RE: Site Plan Application Submission - New Lennox GS Warehouse Facility, 7263 Highway 33

Hi Meghan,

This email has been received.

I have included my colleague, Christina Reeve, on this email for her awareness. Christina, could you please set up a new file in OneDrive, as I will be working out of this folder location, and let me know when it is created and ready for processing.

Thank you,

Michael Nobes, P.Eng.

General Manager/CBO

Contact Date: Oct 22, 2024 14:18-00:00 Method: E-mail

Activity ID: 3262

Contact People: Michael Nobes

Topics Discussed: Consultation / Engagement

From: mnobes@greaternapane.com

Sent: October 22, 2024 2:18 PM

To: mlippert@mhbcplan.com

Cc: Julia.Parker@aturapower.com; Darren.Baiton@APSipd.com; michelle.wongken@avaanz.ca; dcurrie@mhbcplan.com

Subject: RE: Request for Site Plan Preconsultation Meeting - Napane Generating Station Gas Expansion Project

Hi Meghan,

Apologies for the delay in getting back to you on this.

I would be looking into next week at this point. Are there days that might work for your team the week of the 28th?

The following works for me right now (not sure of all other reviewers though):

- Oct 28th at 3pm
- Oct 29th in AM
- Oct 31st in AM
- Nov 1st in AM

Thanks,

Michael Nobes, P.Eng.

General Manager/CBO

Contact Date: Oct 23, 2024 14:19-00:00 Method: E-mail

Activity ID: 3263

Contact People: Michael Nobes

Topics Discussed: Land-Use, Consultation / Engagement

From: mlippert@mhbcplan.com

Sent: October 23, 2024 2:19 PM

To: mnobes@greaternapane.com

Cc: Julia.Parker@aturapower.com; Darren.Baiton@APSipd.com; michelle.wongken@avaanz.ca; dcurrie@mhbcplan.com

Subject: RE: Request for Site Plan Preconsultation Meeting - Napane Generating Station Gas Expansion Project

Hi Michael,

Thank you for providing your availability next week. Given the number of individuals/disciplines from our team that plan on attending (which is greater than those included on this email), and per your note below regarding the availability of the Town's reviewers and associated agencies, I wonder if it might be more efficient to schedule the meeting through a poll so that all required can make the meeting. I can arrange for this poll on our end to be sent out if that is ok with you – I believe this would be the most efficient way to schedule the meeting.

I am not sure what the Town's regular process is, but in this case I would like to be of assistance if I can as long as I am not impeding on any formal Town process.

If you or someone in your office could provide the names and emails of those to be involved on your end, I can get the poll going – or coordinate directly with your staff member if preferable. Note that if possible, we would like a representative from Jewell to attend the pre-consultation meeting as the Town's peer review engineer – I think it would be helpful to have them in the discussion so they have some background when the application is eventually submitted.

Let me know your thoughts.

With thanks,

MEGHAN LIPPERT, BA, MAES | Planner

Contact Date: Oct 25, 2024 09:10-00:00 Method: E-mail

Activity ID: 3265

Contact People: Michael Nobes

Topics Discussed: Protocols/Engagement Process, Land-Use, Consultation / Engagement, Permitting
[9:10 AM]

From: mnobes@greaternapanee.com

Sent: October 25, 2024 9:10 AM

To: mlippert@mhbcplan.com

Cc: Julia.Parker@aturapower.com; Darren.Baiton@APSipd.com; michelle.wongken@avaanz.ca; dcurrie@mhbcplan.com; pat@jewelleng.ca; development@crca.ca; Trevor.Copeland@cambium-inc.com; dmartin@greaternapanee.com; Camden.Jermey@cambium-inc.com; Pyke@malroz.com; Sadie.Bachynski@cambium-inc.com

Subject: RE: Request for Site Plan Preconsultation Meeting - Napanee Generating Station Gas Expansion Project

Hi Meghan,

Thank you for the offer, it would be helpful if you sent out a poll to the group. I've included Town reviewers on this email. When you send the poll out please include the documentation that will be reference in the meeting for the reviewers' awareness/perusal prior to the meeting.

Regarding MTO, I believe this will need to be a separate pre-consultation perhaps as they have new HCMS portal submission requirements – this would take the form of a separate pre-con meeting with MTO. I would encourage you to go through this avenue separately as MTO seems to be pushing for all submissions/requests to go through this portal.

Trevor/Sadie – I have included both of you from a noise/particulate emissions perspective for awareness. If one or both of you feel the need to attend, I'll let you organize this on Cambium's end.

Thank you,

Michael Nobes

T: 613.776.1151

[9:37 AM]

From: mlippert@mhbcplan.com

Sent: October 25, 2024 9:37 AM

To: mnobes@greaternapanee.com

Cc: Julia.Parker@aturapower.com; Darren.Baiton@APSipd.com; michelle.wongken@avaanz.ca; dcurrie@mhbcplan.com; pat@jewelleng.ca; development@crca.ca; Trevor.Copeland@cambium-inc.com; dmartin@greaternapanee.com; Camden.Jermey@cambium-inc.com; Pyke@malroz.com; Sadie.Bachynski@cambium-inc.com

Subject: RE: Request for Site Plan Preconsultation Meeting - Napanee Generating Station Gas Expansion Project

Good Morning Michael,

Sounds good – I will have April Broomer of our office send out the poll with the submitted preconsultation materials attached.

Have a great day,

MEGHAN LIPPERT, BA, MAES | Planner

[2:27 PM]

From: April Broomer

Sent: October 25, 2024 2:27 PM

To: Julia.Parker@aturapower.com; Darren.Baiton@APSipd.com; michelle.wongken@avaanz.ca; pat@jewelleng.ca; development@crca.ca; Trevor.Copeland@cambium-inc.com; Camden.Jermey@cambium-inc.com; Pyke@malroz.com; Sadie.Bachynski@cambium-inc.com; Darius.Sokal@aturapower.com; khearne@slrconsulting.com; jtu@sentex.net; Mihir.Ved@aturapower.com; jhodowsky@independentenvironmental.ca; nshinbin@independentenvironmental.ca; ffilsl@watercom.ca; mnobes@greaternapanee.com; jfeeney@greaternapanee.com; mlippert@mhbcplan.com; dcurrie@mhbcplan.com

Subject: Site Plan Pre-Consultation Meeting - Napanee Generating Station (NGS) Expansion

Good afternoon,

Atura Power has requested a Site Plan Pre-Consultation meeting to discuss the proposed Napanee Generating Station (NGS) Expansion and related requirements for a complete Site Plan Application under the Planning Act. Atura will provide an overview of the proposed project at the beginning of the meeting. Please find attached the proposed site plan, renderings, and original Pre-Consultation Meeting request correspondence for your review prior to the meeting. Please note MHBC Planning is assisting in coordinating this meeting on behalf of the Town of Greater Napanee.

Please use the poll below to confirm your availability

[POLL]

Kind regards,

APRIL BROOMER | Executive Assistant

[3:01 PM]

From: abroomer@mhbcplan.com

Sent: October 25, 2024 3:01 PM

To: Julia.Parker@aturapower.com; Darren.Baiton@APSipd.com;michelle.wongken@avaanz.ca; pat@jewelleng.ca; development@crca.ca; Trevor.Copeland@cambium-inc.com; Camden.Jermey@cambium-inc.com; Pyke@malroz.com; Sadie.Bachynski@cambium-inc.com; Darius.Sokal@aturapower.com; khearne@slrconsulting.com; jtu@sentex.net; Mihir.Ved@aturapower.com; jhodowsky@independentenvironmental.ca; nshinbin@independentenvironmental.ca; ffisl@watercom.ca; mnobes@greaternapanee.com; jfeeney@greaternapanee.com; mlippert@mhbcplan.com; dcurrie@mhbcplan.com
Subject: Re: Site Plan Pre-Consultation Meeting - Napanee Generating Station (NGS) Expansion

Good afternoon,

Please see the link below to download attachments. Unfortunately, they were too large and I think didn't make it through to everyone.

22357E_NGSExpansion_PreconsultationRequest_7Oct24.pdf
2024-09-30-170782CS102_NGS-ExpansionSitePlan.pdf
NGS Expansion_Photosims.pdf
2024-10-25_PRES_NGS Expansion Town Mtng_Atura_red.pdf

My apologies.

Kind regards,

APRIL BROOMER | Executive Assistant

Attached File: NGS-M 2024-10-25 Town of GNap MNobes-3265-att 2.pdf

Attached File: NGS-M 2024-10-25 Town of GNap MNobes-3265-att 1.pdf

Attached File: NGS-M 2024-10-25 Town of GNap MNobes-3265-att 4.pdf

Attached File: NGS-M 2024-10-25 Town of GNap MNobes-3265-att 3.pdf

Contact Date: Nov 05, 2024 13:30-14:45 Method: Virtual Meeting

Activity ID: 3311

Contact People: James Feeney, Michael Nobes

Topics Discussed: Consultation / Engagement, Permitting

NGS Expansion Site Plan Pre-Consultation Meeting

1. Overview of Project Proposal
 2. MECP Permitting requirements
 3. Town of Greater Napanee approvals required
 4. Land Use approval details
 5. Submission requirements - servicing brief, fire protection design brief, stormwater management plan, engineering plans, geotechnical report, landscape plan, noise and vibration study, air quality assessment, hydrogeological statement, natural heritage study, archaeological assessment and ministry clearance, site plan drawings, TIS, Flood Plain analysis
- Attached File: 2024-11-5_PRES_NGS Expansion Town Mtng_Atura-Finalcopyx.pdf
Attached File: 22357E_Pre-Submission Meeting Notes - Combined_27Nov24-MWK edits.pdf

Contact Date: Nov 11, 2024 10:10-00:00 Method: E-mail

Activity ID: 3312

Contact People: James Feeney, Michael Nobes

Topics Discussed: Consultation / Engagement

From: mlippert@mhbcplan.com

Sent: November 11, 2024 10:10 AM

To: dcurrie@mhbcplan.com; Julia.Parker@aturapower.com; Darren.Baiton@APSipd.com; michelle.wongken@avaanz.ca; pat@jewelleng.ca; development@crca.ca; Trevor.Copeland@cambium-inc.com; Camden.Jermey@cambium-inc.com; Pyke@malroz.com; Sadie.Bachynski@cambium-inc.com; Darius.Sokal@aturapower.com; khearne@slrconsulting.com; jtu@sentex.net; Mihir.Ved@aturapower.com; jhodowsky@independentenvironmental.ca; nshinbin@independentenvironmental.ca; ffisl@watercom.ca; mnobes@greaternapanee.com; MDakin@crca.ca; jfeeney@greaternapanee.com; hcampbellgale@independentenvironmental.ca
Cc: kwillis@mhbcplan.com; info@watercom.ca; brswindler@burnsmcd.com
Subject: RE: Napanee Generating Station Gas Expansion Project Site Plan Pre-Consultation Meeting

Good Morning,

As requested, please find attached a copy of the presentation provided by Julia at last week's preconsultation meeting.

With thanks,

MEGHAN LIPPERT, BA, MAES | Planner

Contact Date: Nov 11, 2024 12:04-00:00 Method: E-mail

Activity ID: 3313

Contact People: Camden Jermey

Topics Discussed: Cultural Heritage, Consultation / Engagement

From: mlippert@mhbcplan.com

Sent: November 11, 2024 12:04 PM

To: Camden.Jermey@cambium-inc.com

Cc: Julia.Parker@aturapower.com; michelle.wongken@avaanz.ca; kwillis@mhbcplan.com; khearne@slrconsulting.com

Subject: NGS Expansion - Natural Heritage Information

Good Afternoon Camden,

Further to our pre-consultation meeting last week, please find attached the Draft Natural Heritage Existing Conditions Report prepared by Beacon as part of the EA process. This report will be shared with the relevant Indigenous communities as part of the ongoing consultation and engagement process. A list of the natural heritage assessments that have been undertaken to inform the report is provided below. Please note that Beacon is preparing a separate memo regarding the bat survey and findings, which would form part of our complete SPA submission for the NGS Expansion project.

[TABLE]

Assessment Date Completed

Ecological Land Classification and vegetation surveys Aug 8, 2023

Breeding bird surveys May 27, June 17 and June 24, 2023

Winter wildlife and raptor surveys Feb 21, 2024

Bat exit survey (for warehouse) July 2 and July 22, 2024

Fish sampling Aug 29, 2024

We trust that the attached and forthcoming information regarding the bat survey would be sufficient for SPA processes and that an EIS and associated ToR would not necessarily be required to support a future SPA application. If you could kindly review and advise whether the attached is sufficient it would be greatly appreciated. I have copied Julia Parker of Atura here as well as Michelle Wong Ken of Avaanz in the event you may have any preliminary questions regarding the attached.

Please let us know if you require any additional information as you finalize your pre-consultation comments.

With thanks,

MEGHAN LIPPERT, BA, MAES | Planner

Attached File: 2024-10-28-RPT-NGS Expansion_Natural Heritage Existing Conditions_v0_BeaconDraft.pdf

Contact Date: Nov 13, 2024 07:58-00:00 Method: E-mail

Activity ID: 3317

Contact People: Michael Nobes

Topics Discussed: Land-Use, Consultation / Engagement, Permitting
[7:58 AM]

From: mlippert@mhbcplan.com

Sent: November 13, 2024 7:58 AM

To: mnobes@greaternapanee.com

Cc: Julia.Parker@aturapower.com; michelle.wongken@avaanz.ca; kwills@mhbcplan.com

Subject: Site Plan Approved Drawings - Napanee Generating Station

Good Morning Michael,

I hope you are having a good week. Would you happen to have digital copies of the approved site plan drawings for the Napanee Generating Station? Atura does not have copies from when they purchased the facility... we are looking at other avenues to obtain but thought we would check with you as well.

With thanks,

MEGHAN LIPPERT, BA, MAES | Planner

[9:49 AM]

From: Michael Nobes <mnobes@greaternapanee.com>

Sent: November 13, 2024 9:49 AM

To: Meghan Lippert <mlippert@mhbcplan.com>

Cc: Julia Parker <Julia.Parker@aturapower.com>; Michelle Wong Ken <michelle.wongken@avaanz.ca>; Kate Wills <kwills@mhbcplan.com>

Subject: RE: Site Plan Approved Drawings - Napanee Generating Station

See link below :

[LINK] TransCanada Site Plan Drawings

Michael Nobes, P.Eng.

General Manager/CBO

Attached File: SITEPL~3.PDF

Attached File: Site Plan Agreement _Kiewit Engineer Civil Sign Off.pdf

Attached File: SITEPL~1.PDF

Attached File: Site Plan Agreement _CSW Landscape Sign Off.pdf

Contact Date: Nov 27, 2024 15:03-00:00 Method: E-mail

Activity ID: 4075

Contact People: Michael Nobes

Topics Discussed: Protocols/Engagement Process, Consultation / Engagement, Permitting
[3:03 PM]

From: mlippert@mhbcplan.com

Sent: Wednesday, November 27, 2024 3:03 PM

To: mnobes@greaternapaneec.com

Cc: Julia.Parker@aturapower.com; michelle.wongken@avaanz.ca; kwills@mhbcplan.com; dcurrie@mhbcplan.com

Subject: NGS Expansion Site Plan Preconsultation Meeting - Town Comments Follow-up

Hi Michael,

I was wondering if you have collected the written comments from Cambium, Malroz, and Jewell regarding the NGS Expansion site plan pre-consultation meeting? We have the comments from the CRCA so are just looking for any additional from the Town review side. Again while we have compiled detailed notes from our meeting, any additional information/insight the reviewers may be able to provide will assist us in preparing a fulsome first submission.

As an FYI, Atura has initiated engagement and consultation with MTO.

With thanks,

MEGHAN LIPPERT, BA, MAES | Planner

[3:07 PM]

From: mnobes@greaternapaneec.com

Sent: November 27, 2024 3:07 PM

To: mlippert@mhbcplan.com

Cc: Julia.Parker@aturapower.com; michelle.wongken@avaanz.ca; kwills@mhbcplan.com; dcurrie@mhbcplan.com

Subject: RE: NGS Expansion Site Plan Preconsultation Meeting - Town Comments Follow-up

Hi Meghan,

I have Jewell's comments and am awaiting Malroz and Cambium – I expect Malroz tomorrow and hoping for Cambium end of week.

Thanks,

Michael Nobes

T: 613.776.1151

[3:46 PM]

From: mlippert@mhbcplan.com

Sent: November 27, 2024 3:46 PM

To: mnobes@greaternapaneec.com

Cc: Julia.Parker@aturapower.com; michelle.wongken@avaanz.ca; kwills@mhbcplan.com; dcurrie@mhbcplan.com

Subject: RE: NGS Expansion Site Plan Preconsultation Meeting - Town Comments Follow-up

Thanks Michael for the update – it is greatly appreciated.

Have a great rest of your day

MEGHAN LIPPERT, BA, MAES | Planner

Contact Date: Dec 02, 2024 09:05-00:00 Method: E-mail

Activity ID: 4103

Contact People: Michael Nobes

Topics Discussed: Geology, Surface/Ground Water, Land-Use, Consultation / Engagement, Fire / Explosion
[9:05 AM]

From: mnobes@greaternapanee.com

Sent: December 2, 2024 9:05 AM

To: mlippert@mhbcplan.com

Cc: Julia.Parker@aturapower.com; michelle.wongken@avaanz.ca; kwills@mhbcplan.com; dcurrie@mhbcplan.com>

Subject: RE: NGS Expansion Site Plan Preconsultation Meeting - Town Comments Follow-up

Hi Meghan,

Please see attached comments from peer reviewers and Town comments generally below:

Reports/Studies Required:

- Servicing brief
- o Fire flow calculations and hydrant placement identification
- Stormwater Management report
- o Pre-post controls - some opportunity for increasing quantity (will be MTO dependent based on downstream infrastructure capacities)
- o Quality control 80% TSS removal
- o See CRCA and Jewell comments for greater detail on scope
- o Potential hydrologic and hydraulic assessment if watercourse crossing/modification to be provided
- o SWP plan policies applicable for IP22 protections
- o Permit required for works in vicinity of watercourse
- Fire Protection Statement and Emergency Response Plan (with site visit prior to developing response plan)
- Engineering Plans
- o Inclusive of OPSD designs and invert elevations, plan and profile drawings
- Elevation drawings and renderings of the overall project (looking north/east, 3D renderings)
- Geotechnical Report
- o To substantiate foundation design and roadway construction
- Landscape Plan
- o Opportunity to increase berm height and extend berming outside of lot addition lands shall be explored and implemented
- Hydrogeological Professional Statement
- o Discuss groundwater impacts and potential sewage system expansions if required
- Spill Response Plan
- Natural Heritage Report
- o Potential to scope the review – see attached Cambium comments
- o SAR review/habitat screening or targeted surveys
- Archaeological Assessment and Clearance
- Noise and Vibration Study
- o See Cambium commentary
- Site Plan Drawings
- Transportation Impact Study (MTO potential requirement – confer with MTO)
- Air Quality Assessment & GHG report

Applications Required:

- Lot Addition from OPG (concurrent)
- Easement for SWM and access (concurrent)
- Minor Variance for 3m setback to west property line following lot addition (concurrent)
- Site Plan Approval

Any questions please let me know.

Thank you,

Michael Nobes, P.Eng.

General Manager/CBO

[11:47 AM]

From: mlippert@mhbcplan.com

Sent: Monday, December 2, 2024 11:47:03 PM

To: Michael Nobes <mnobes@greaternapanee.com>

Cc: Julia.Parker@aturapower.com; michelle.wongken@avaanz.ca; kwills@mhbcplan.com; dcurrie@mhbcplan.com

Subject: RE: NGS Expansion Site Plan Preconsultation Meeting - Town Comments Follow-up

Thanks Michael, much appreciated.

Should our project team have any specific questions for any of the reviewers regarding their comments as we prepare the formal submission, should they be directed through you or would copying you on the correspondence suffice?

Thanks again,

MEGHAN LIPPERT, BA, MAES | Planner

Attached File: NGS-A 2024-11-27 Town of GNap MNobes 4103-att Cambium.pdf

Attached File: NGS-A 2024-11-27 Town of GNap MNobes 4103-att Cambium (EIS).pdf

Attached File: NGS-A 2024-11-27 Town of GNap MNobes 4103-att CRCA.pdf

Attached File: NGS-A 2024-11-27 Town of GNap MNobes 4103-att Jewell.pdf

Attached File: NGS-A 2024-11-27 Town of GNap MNobes 4103-att Malroz.pdf

Contact Date: Dec 03, 2024 09:05-00:00 Method: E-mail

Activity ID: 4104

Contact People: Michael Nobes

Topics Discussed: Protocols/Engagement Process, Consultation / Engagement
[9:05 AM]

From: mnobes@greaternapanee.com

Sent: December 3, 2024 9:05 AM

To: mlippert@mhbcplan.com

Cc: Julia.Parker@aturapower.com; michelle.wongken@avaanz.ca; kwills@mhbcplan.com; dcurrie@mhbcplan.com

Subject: Re: NGS Expansion Site Plan Preconsultation Meeting - Town Comments Follow-up

Hi Meghan, if you could filter through me it would be appreciated.

Thank you,

Michael Nobes

613-776-1151

[9:14 AM]

From: mlippert@mhbcplan.com

Sent: December 3, 2024 9:14 AM

To: mnobes@greaternapanee.com

Cc: Julia.Parker@aturapower.com; michelle.wongken@avaanz.ca; kwills@mhbcplan.com; dcurrie@mhbcplan.com

Subject: RE: NGS Expansion Site Plan Preconsultation Meeting - Town Comments Follow-up

Will do, thanks Michael!

MEGHAN LIPPERT, BA, MAES | Planner

Appendix C6 – Correspondence Records with Agencies

Appendix C6a – Correspondence with MECP

Appendix C6b – Correspondence with Other Agencies

Appendix C6a – Correspondence with MECP

Ministry of the Environment, Conservation and Parks (MECP) Provincial / Regional Government

Issues: Project Notice, Protocols/Engagement Process, Aboriginal & Treaty Rights, Climate Change, Air Quality & Emissions, Noise, Environment (general), Surface/Ground Water, Land-Use, Species At Risk, Consultation / Engagement, LT1, Environmental Assessment, Permitting, Construction, Operations

Contact Date: Apr 08, 2024 12:29-00:00 **Method:** E-mail

Activity ID: 827

Contact People: Kathleen O'Neil, Jon K. Orpana, Peter Taylor

Topics Discussed: Project Notice, Protocols/Engagement Process

From: eanotification.eregion@ontario.ca

Sent: Monday, April 8, 2024 4:29 PM

To: napaneeexpansion@aturapower.com

Subject: Automatic reply: Greater Napanee, Electricity Screening Process, Napanee Generating Station Expansion

This is to acknowledge your email has been delivered to the Regional email account. A Regional EA Coordinator will contact you if additional information is needed. To speak directly to a Regional EA Coordinator, go to the INFO-GO website and under our ministry, select: 1) Drinking Water and Environmental Compliance Division 2) applicable Regional Office 3) Technical Support Section 4) Air, Pesticides, and Environmental Planning 5) Environmental Resource Planner & EA Coordinator

Attached File: 2024-04-08-TAB-NGS Expansion_Streamlined_EA_PIF.xlsx

Attached File: 2024-04-08_LET_NGS_MECPNoC Letter.pdf

What to do:
Step 1: Look for the type of EA project in column B that applies to you.
Step 2: Complete columns C to J for that project.
Step 3: Send the form to Email format to the MECP regional office email address where the project is located.
MECP regional office email addresses are listed at www.ontario.ca/page/preparing-environmental-assessments

Class EA Streamlined EA	Proposer Name	Proposer Contact	Project Name	Project Schedule	Project Type	Project Location	MECP Region	Project Initiation Date
1. GO - Complete Road and erosion control projects								
2. GO Transit - Class EA								
3. Ontario One - Minor transmission facilities								
4. MECA - Class EA for municipal infrastructure projects								
5. Delivery of infrastructure - Public work								
6. MINEM - Activities of the Ministry of Northern Development and Mines under the Mining Act								
7. MNR - Provincial lands and conservation reserves								
8. MNR - Provincial parks and public conservation projects								
9. MNR - Provincial parks and public conservation projects								
10. A. Reg. 11/01 - Electricity projects	Atura Power	Julia Pether: julia.pether@aturapower.com	Napanee Generating Station Expansion	Category B	Natural gas	Greater Napanee, Town of	Eastern	2024-04-08
11. C. Reg. 11/01 - Electricity projects								
12. CWA - Waterpower projects								

Enter the proposer's name.

Enter the name and email address of the person who the MECP should contact about your project. This should be the same contact person who is listed on the notice.

Enter the project name as it appears on the notice.

Select the project schedule from the drop-down menu.

Select the project type from the drop-down menu.

Select the name of the municipality or unincorporated/unsurveyed area where your project is located from the drop-down menu.

Select the MECP region from the drop-down menu. Please use the "MECP region" dropdown to find the MECP region where your project is located.

Enter the date that the streamlined EA process was initiated (e.g. notice of commencement). This date may be when the project notice was first published, where your project is located.

Contact Date: Apr 17, 2024 12:00-00:00 Method: E-mail

Activity ID: 873

Contact People: Abby Salb

Topics Discussed: Protocols/Engagement Process, Permitting

From: Abby.Salb@ontario.ca

Sent: April 17, 2024 12:00 PM

To: ktheobald@independentenvironmental.ca

Cc: Jinliang.Liu@ontario.ca; peter.rehbein@ontario.ca; Julia.Parker@aturapower.com; andrea.coutu@aturapower.com; michelle.wongken@avaanz.ca; dgorber@independentenvironmental.ca; jhodowsky@independentenvironmental.ca; smusic@independentenvironmental.ca; Ahammad.Ali@ontario.ca

Subject: RE: Napanee Generating Station - s.7 form and model plan (our Project #SX22-0049) - Ministry Comments

Attachments: 20240417_Atura Power Modelling Plan_MECP Comments.docx

Hi Kim,

Please find attached the ministry's comments on the modelling plan for Atura Power NGS. We have left these as a Word document to allow you to add responses, and potential follow-up.

Please review and let us know whether you have any questions and/or if you would like to meet to discuss any of our comments.

Once the comments have been addressed, we will proceed with issuance of the s7 and the s13(1).

Best Regards,

Abby

Attached File: NGS-A 2024-04-17 MECP ASalb-873-att.pdf

Contact Date: Apr 18, 2024 10:43-00:00 Method: E-mail

Activity ID: 874

Contact People: Abby Salb

Topics Discussed: Protocols/Engagement Process, Consultation / Engagement, Permitting

From: ktheobald@independentenvironmental.ca

Sent: April 18, 2024 10:43:29 AM

To: Abby.Salb@ontario.ca; MetDataENE@ontario.ca

Cc: Jinliang.Liu@ontario.ca; peter.rehbein@ontario.ca; Julia.Parker@aturapower.com; andrea.coutu@aturapower.com; michelle.wongken@avaanz.ca; dgorber@independentenvironmental.ca; jhodowsky@independentenvironmental.ca; smusic@independentenvironmental.ca; Ahammad.Ali@ontario.ca

Subject: RE: Napanee Generating Station - s.7 form and model plan (our Project #SX22-0049) - Ministry Comments

Hi Abby,

Thanks for turning this around so quickly. We'll review the comments and reach out if we have any questions.

-Kim

Contact Date: Apr 24, 2024 10:16-00:00 Method: E-mail

Activity ID: 961

Contact People: Jon K. Orpana, Roberto Sacilotto

Topics Discussed: Project Notice, Protocols/Engagement Process, Aboriginal & Treaty Rights, Species At Risk, Consultation / Engagement, Environmental Assessment, Notice of Commencement

From: Jon.Orpana@ontario.ca

Sent: Wednesday, April 24, 2024 10:16 AM

To: Julia.Parker@aturapower.com

Cc: Roberto.Sacilotto@ontario.ca

Subject: Napanee Generating Station Expansion

Hello Julia,

Please see attached MECP's preliminary comments on the above mentioned file and confirmation of indigenous communities.

This is in addition to some additional resources and hyperlinks you may consider during your study(ies).

Roberto – I have attached the Notice of Commencement for your reference and to pass it on to the EO for the area

Regards,

Jon

Attached File: NGS-A 2024-04-24 MECP JOrpana-961-att 2.pdf

Attached File: NGS-A 2024-04-24 MECP JOrpana-961-att 1.pdf

Activity Date: Apr 24, 2024 10:16-00:00

File Name: NGS-A 2024-04-24 MECP JOrpana-961-att 2.pdf

Activity Method: E-mail

Date Published:

Page: 1 of 14



**Ministry of the Environment,
Conservation and Parks**

**Ministère de l'Environnement,
de la Protection de la nature
et des Parcs**

Environmental Assessment
Branch

Direction des évaluations
environnementales

1st Floor
135 St. Clair Avenue W
Toronto ON M4V 1P5
Tel.: 416 314-8001
Fax.: 416 314-8452

Rez-de-chaussée
135, avenue St. Clair Ouest
Toronto ON M4V 1P5
Tél. : 416 314-8001
Télééc. : 416 314-8452

April 24, 2024

Julia Parker
Project Manager-Environmental and Municipal Approvals
Atura Power
Email: Julia.Parker@aturapower.com

BY EMAIL ONLY

**Re: Napanee Generating Station Expansion
Atura Power
Environmental Screening Process for Electricity Projects
Acknowledgement of Notice of Commencement**

Dear Julia Parker,

This letter is in response to the Notice of Commencement for the above noted electricity project released April 8th, 2024. The Ministry of the Environment, Conservation and Parks (MECP) acknowledges that the Proponent (proponent) has indicated that the study is following the Environmental Screening Process for Electricity Projects under Ontario Regulation 50/24 Part II.3 Projects – Designations and Exemptions made under the *Environmental Assessment Act*.

Included in your correspondence to us regarding this project is a list of indigenous communities for confirmation by MECP. Pertinent staff have reviewed your list and we have confirmed your list is complete and you may proceed with your consultation efforts premised on those communities that you have included.

The **updated (August 2022)** attached "Areas of Interest" document provides guidance regarding the ministry's interests with respect to the Environmental Screening Process. Please address all areas of interest in the Environmental Screening and Environmental Review at an

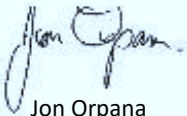
appropriate level for the Environmental Screening Process. Proponents who address all the applicable areas of interest can minimize potential delays to the project schedule.

A draft of the Screening/Environmental Review Report should be sent directly to me prior to the releasing the final Report through the issuance of the Notice of Completion, allowing a minimum of 30 days for the ministry's technical reviewers to provide comments on the draft report. The ministry may require more than 30 days to complete a fulsome review of the draft report depending on the complexity of the project, so the proponent should contact the ministry to discuss a reasonable timeline.

Please also ensure a copy of the Notice of Completion is sent to the ministry's Eastern Region Environmental Assessment (EA) notification email account (eanotification.eregion@ontario.ca) after the draft report and Notice of Completion is reviewed and finalized. See below for more information on the Notice of Completion on page 13 below.

Should you or any members of your project team have any questions regarding the material above, please contact me at jon.orpana@ontario.ca.

Sincerely,



Jon Orpana
Regional Environmental Planner – Eastern Region
Project Review Unit, Environmental Assessment Branch

Cc:

Roberto Sacilotto, Kingston District Office, MECP

Enclosed: Areas of Interest

Attached: Client's Guide to Preliminary Screening for Species at Risk

AREAS OF INTEREST (v. August 2022)

It is suggested that you check off each section after you have considered / addressed it.

Planning and Policy

- Applicable plans and policies should be identified in the report, and the proponent should describe how the proposed project adheres to the relevant policies in these plans.
 - Projects located in MECP Central, Eastern or West Central Region may be subject to [A Place to Grow: Growth Plan for the Greater Golden Horseshoe \(2020\)](#).
 - Projects located in MECP Central or Eastern Region may be subject to the [Oak Ridges Moraine Conservation Plan \(2017\)](#) or the [Lake Simcoe Protection Plan \(2014\)](#).
 - Projects located in MECP Central, Southwest or West Central Region may be subject to the [Niagara Escarpment Plan \(2017\)](#).
 - Projects located in MECP Central, Eastern, Southwest or West Central Region may be subject to the [Greenbelt Plan \(2017\)](#).
 - Projects located in MECP Northern Region may be subject to the [Growth Plan for Northern Ontario \(2011\)](#).
- The [Provincial Policy Statement \(2020\)](#) contains policies that protect Ontario's natural heritage and water resources. Applicable policies should be referenced in the report, and the proponent should describe how the proposed project is consistent with these policies.
- In addition to the provincial planning and policy level, the report should also discuss the planning context at the municipal and federal levels, as appropriate.

Source Water Protection

The *Clean Water Act*, 2006 (CWA) aims to protect existing and future sources of drinking water. To achieve this, several types of vulnerable areas have been delineated around surface water intakes and wellheads for every municipal residential drinking water system that is located in a source protection area. These vulnerable areas are known as a Wellhead Protection Areas (WHPAs) and surface water Intake Protection Zones (IPZs). Other vulnerable areas that have been delineated under the CWA include Highly Vulnerable Aquifers (HVAs), Significant Groundwater Recharge Areas (SGRAs), Event-based modelling areas (EBAs), and Issues Contributing Areas (ICAs). Source protection plans have been developed that include policies to address existing and future risks to sources of municipal drinking water within these vulnerable areas.

Projects that are subject to the Environmental Assessment Act that fall under a Class EA, or one of the Regulations, have the potential to impact sources of drinking water if they occur in designated vulnerable areas or in the vicinity of other at-risk drinking water systems (i.e.

systems that are not municipal residential systems). Projects may include activities that, if located in a vulnerable area, could be a threat to sources of drinking water (i.e., have the potential to adversely affect the quality or quantity of drinking water sources) and the activity could therefore be subject to policies in a source protection plan. Where an activity poses a risk to drinking water, policies in the local source protection plan may impact how or where that activity is undertaken. Policies may prohibit certain activities, or they may require risk management measures for these activities. Municipal Official Plans, planning decisions, Class EA projects (where the project includes an activity that is a threat to drinking water) and prescribed instruments must conform with policies that address significant risks to drinking water and must have regard for policies that address moderate or low risks.

- The proponent should identify the source protection area and should clearly document how the proximity of the project to sources of drinking water (municipal or other) and any delineated vulnerable areas was considered and assessed. Specifically, the report should discuss whether the project is located in a vulnerable area and provide applicable details about the area.
- If located in a vulnerable area, proponents should document whether any project activities are prescribed drinking water threats and thus pose a risk to drinking water (this should be consulted on with the appropriate Source Protection Authority). Where an activity poses a risk to drinking water, the proponent must document and discuss in the report how the project adheres to or has regard to applicable policies in the local source protection plan. This section should then be used to inform and be reflected in other sections of the report, such as the identification of net positive/negative effects of alternatives, mitigation measures, evaluation of alternatives etc.
- While most source protection plans focused on including policies for significant drinking water threats in the WHPAs and IPZs it should be noted that even though source protection plan policies may not apply in HVAs, these are areas where aquifers are sensitive and at risk to impacts and within these areas, activities may impact the quality of sources of drinking water for systems other than municipal residential systems.
- In order to determine if this project is occurring within a vulnerable area, proponents can use [Source Protection Information Atlas](#), which is an online mapping tool available to the public. Note that various layers (including WHPAs, WHPA-Q1 and WHPA-Q2, IPZs, HVAs, SGRAs, EBAs, ICAs) can be turned on through the “Map Legend” bar on the left. The mapping tool will also provide a link to the appropriate source protection plan in order to identify what policies may be applicable in the vulnerable area.
- For further information on the maps or source protection plan policies which may relate to their project, proponents must contact the appropriate source protection authority. **Please consult with the local source protection authority to discuss potential impacts on drinking water. Please document the results of that consultation within the report and include all communication documents/correspondence.**

More Information

For more information on the *Clean Water Act*, source protection areas and plans, including specific information on the vulnerable areas and drinking water threats, please refer to [Conservation Ontario's website](#) where you will also find links to the local source protection plan/assessment report.

A list of the prescribed drinking water threats can be found in [section 1.1 of Ontario Regulation 287/07](#) made under the *Clean Water Act*. In addition to prescribed drinking water threats, some source protection plans may include policies to address additional "local" threat activities, as approved by the MECP.

Climate Change

The document "[Considering Climate Change in the Environmental Assessment Process](#)" (Guide) is part of the Environmental Assessment program's Guides and Codes of Practice. The Guide sets out the MECP's expectation for considering climate change in the preparation, execution and documentation of environmental assessment studies and processes. The guide provides examples, approaches, resources, and references to assist proponents with consideration of climate change in their study. Proponents should review this Guide in detail.

- **The MECP expects proponents of projects under a Class EA or EA Act Regulation to:**

1. Consider during the assessment of alternative solutions and alternative designs, the following:
 - a. the project's expected production of greenhouse gas emissions and impacts on carbon sinks (climate change mitigation); and
 - b. resilience or vulnerability of the undertaking to changing climatic conditions (climate change adaptation).
2. Include a discrete section in the report detailing how climate change was considered in the EA.

How climate change is considered can be qualitative or quantitative in nature and should be scaled to the project's level of environmental effect. In all instances, both a project's impacts on climate change (mitigation) and impacts of climate change on a project (adaptation) should be considered. **Please ensure climate change is considered in the report.**

- The MECP has also prepared another guide to support provincial land use planning direction related to the completion of energy and emission plans. The "[Community Emissions Reduction Planning: A Guide for Municipalities](#)" document is designed to educate stakeholders on the municipal opportunities to reduce energy and greenhouse gas emissions, and to provide guidance on methods and techniques to incorporate

consideration of energy and greenhouse gas emissions into municipal activities of all types. We encourage you to review the Guide for information.

Air Quality, Dust and Noise

- If there are sensitive receptors in the surrounding area of this project, a quantitative air quality/odour impact assessment will be useful to evaluate alternatives, determine impacts and identify appropriate mitigation measures. The scope of the assessment can be determined based on the potential effects of the proposed alternatives, and typically includes source and receptor characterization and a quantification of local air quality impacts on the sensitive receptors and the environment in the study area. The assessment will compare to all applicable standards or guidelines for all contaminants of concern. **Please contact this office for further consultation on the level of Air Quality Impact Assessment required for this project if not already advised.**
- If a quantitative Air Quality Impact Assessment is not required for the project, the MECP expects that the report contain a qualitative assessment which includes:
 - A discussion of local air quality including existing activities/sources that significantly impact local air quality and how the project may impact existing conditions;
 - A discussion of the nearby sensitive receptors and the project's potential air quality impacts on present and future sensitive receptors;
 - A discussion of local air quality impacts that could arise from this project during both construction and operation; and
 - A discussion of potential mitigation measures.
- As a common practice, "air quality" should be used as an evaluation criterion for all road projects.
- Dust and noise control measures should be addressed and included in the construction plans to ensure that nearby residential and other sensitive land uses within the study area are not adversely affected during construction activities.
- The MECP recommends that non-chloride dust-suppressants be applied. For a comprehensive list of fugitive dust prevention and control measures that could be applied, refer to [Cheminfo Services Inc. Best Practices for the Reduction of Air Emissions from Construction and Demolition Activities](#) report prepared for Environment Canada. March 2005.
- The report should consider the potential impacts of increased noise levels during the operation of the completed project. The proponent should explore all potential measures to mitigate significant noise impacts during the assessment of alternatives.

Ecosystem Protection and Restoration

- Any impacts to ecosystem form and function must be avoided where possible. The report should describe any proposed mitigation measures and how project planning will protect and enhance the local ecosystem.
- Natural heritage and hydrologic features should be identified and described in detail to assess potential impacts and to develop appropriate mitigation measures. The following sensitive environmental features may be located within or adjacent to the study area:
 - Key Natural Heritage Features: Habitat of endangered species and threatened species, fish habitat, wetlands, areas of natural and scientific interest (ANSIs), significant valleylands, significant woodlands; significant wildlife habitat (including habitat of special concern species); sand barrens, savannahs, and tallgrass prairies; and alvars.
 - Key Hydrologic Features: Permanent streams, intermittent streams, inland lakes and their littoral zones, seepage areas and springs, and wetlands.
 - Other natural heritage features and areas such as: vegetation communities, rare species of flora or fauna, Environmentally Sensitive Areas, Environmentally Sensitive Policy Areas, federal and provincial parks and conservation reserves, Greenland systems etc.

We recommend consulting with the Ministry of Natural Resources and Forestry (MNRF), Fisheries and Oceans Canada (DFO) and your local conservation authority to determine if special measures or additional studies will be necessary to preserve and protect these sensitive features. In addition, for projects located in Central Region you may consider the provisions of the Rouge Park Management Plan if applicable.

Species at Risk

- The Ministry of the Environment, Conservation and Parks has now assumed responsibility of Ontario's Species at Risk program. Information, standards, guidelines, reference materials and technical resources to assist you are found at <https://www.ontario.ca/page/species-risk>.
- The Client's Guide to Preliminary Screening for Species at Risk (Draft May 2019) has been attached to the covering email for your reference and use. Please review this document for next steps.
- For any questions related to subsequent permit requirements, please contact SAROntario@ontario.ca.

Surface Water

- The report must include enough information to demonstrate that there will be no negative impacts on the natural features or ecological functions of any watercourses within the study area. Measures should be included in the planning and design process to ensure that any impacts to watercourses from construction or operational activities (e.g. spills, erosion, pollution) are mitigated as part of the proposed undertaking.
- Additional stormwater runoff from new pavement can impact receiving watercourses and flood conditions. Quality and quantity control measures to treat stormwater runoff should be considered for all new impervious areas and, where possible, existing surfaces. The ministry's [Stormwater Management Planning and Design Manual \(2003\)](#) should be referenced in the report and utilized when designing stormwater control methods. **A Stormwater Management Plan should be prepared as part of the Environmental Screening Process** that includes:
 - Strategies to address potential water quantity and erosion impacts related to stormwater draining into streams or other sensitive environmental features, and to ensure that adequate (enhanced) water quality is maintained
 - Watershed information, drainage conditions, and other relevant background information
 - Future drainage conditions, stormwater management options, information on erosion and sediment control during construction, and other details of the proposed works
 - Information on maintenance and monitoring commitments.
- Any potential approval requirements for surface water taking or discharge should be identified in the report. A Permit to Take Water (PTTW) under the *Ontario Water Resources Act* (OWRA) will be required for any water takings that exceed 50,000 L/day, except for certain water taking activities that have been prescribed by the Water Taking EASR Regulation – *O. Reg. 63/16*. These prescribed water-taking activities require registration in the EASR instead of a PTTW. Please review the [Water Taking User Guide for EASR](#) for more information. Additionally, an Environmental Compliance Approval under the OWRA is required for municipal stormwater management works.

Groundwater

- The status of, and potential impacts to any well water supplies should be addressed. If the project involves groundwater takings or changes to drainage patterns, the quantity and quality of groundwater may be affected due to drawdown effects or the redirection of

existing contamination flows. In addition, project activities may infringe on existing wells such that they must be reconstructed or sealed and abandoned. Appropriate information to define existing groundwater conditions should be included in the report.

- If the potential construction or decommissioning of water wells is identified as an issue, the report should refer to Ontario Regulation 903, Wells, under the OWRA.
- Potential impacts to groundwater-dependent natural features should be addressed. Any changes to groundwater flow or quality from groundwater taking may interfere with the ecological processes of streams, wetlands or other surficial features. In addition, discharging contaminated or high volumes of groundwater to these features may have direct impacts on their function. Any potential effects should be identified, and appropriate mitigation measures should be recommended. The level of detail required will be dependent on the significance of the potential impacts.
- Any potential approval requirements for groundwater taking or discharge should be identified in the report. A Permit to Take Water (PTTW) under the OWRA will be required for any water takings that exceed 50,000 L/day, with the exception of certain water taking activities that have been prescribed by the Water Taking EASR Regulation – *O. Reg. 63/16*. These prescribed water-taking activities require registration in the EASR instead of a PTTW. Please review the [Water Taking User Guide for EASR](#) for more information.
- Consultation with the railroad authorities is necessary wherever there is a plan to use construction dewatering in the vicinity of railroad lines or where the zone of influence of the construction dewatering potentially intercepts railroad lines.

Excess Materials Management

- In December 2019, MECP released a new regulation under the Environmental Protection Act, titled “[On-Site and Excess Soil Management](#)” (O. Reg. 406/19) to support improved management of excess construction soil. This regulation is a key step to support proper management of excess soils, ensuring valuable resources don’t go to waste and to provide clear rules on managing and reusing excess soil. New risk-based standards referenced by this regulation help to facilitate local beneficial reuse which in turn will reduce greenhouse gas emissions from soil transportation, while ensuring strong protection of human health and the environment. The new regulation is being phased in over time, with the first phase in effect on January 1, 2021. For more information, please visit <https://www.ontario.ca/page/handling-excess-soil>.

- The report should reference that activities involving the management of excess soil should be completed in accordance with O. Reg. 406/19 and the MECP's current guidance document titled "[Management of Excess Soil – A Guide for Best Management Practices](#) (2014).
- All waste generated during construction must be disposed of in accordance with ministry requirements.

Contaminated Sites

- Any current or historical waste disposal sites should be identified in the report. The status of these sites should be determined to confirm whether approval pursuant to Section 46 of the EPA may be required for land uses on former disposal sites. We recommend referring to the [MECP's D-4 guideline](#) for land use considerations near landfills and dumps.
 - Resources available may include regional/local municipal official plans and data; provincial data on [large landfill sites](#) and [small landfill sites](#); Environmental Compliance Approval information for waste disposal sites on [Access Environment](#).
- Other known contaminated sites (local, provincial, federal) in the study area should also be identified in the report (Note – information on federal contaminated sites is found on the Government of Canada's [website](#)).
- The location of any underground storage tanks should be investigated in the report. Measures should be identified to ensure the integrity of these tanks and to ensure an appropriate response in the event of a spill. The ministry's Spills Action Centre must be contacted in such an event.
- Since the removal or movement of soils may be required, appropriate tests to determine contaminant levels from previous land uses or dumping should be undertaken. If the soils are contaminated, you must determine how and where they are to be disposed of, consistent with *Part XV.1 of the Environmental Protection Act* (EPA) and Ontario Regulation 153/04, Records of Site Condition, which details the new requirements related to site assessment and clean up. Please contact the appropriate MECP District Office for further consultation if contaminated sites are present.

Servicing, Utilities and Facilities

- The report should identify any above or underground utilities in the study area such as transmission lines, telephone/internet, oil/gas etc. The owners should be consulted to discuss impacts to this infrastructure, including potential spills.
- The report should identify any servicing infrastructure in the study area such as wastewater, water, stormwater that may potentially be impacted by the project.
- Any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste must have an Environmental Compliance Approval (ECA) before it can operate lawfully. Please consult with MECP's Environmental Permissions Branch to determine whether a new or amended ECA will be required for any proposed infrastructure.
- We recommend referring to the ministry's [environmental land use planning guides](#) to ensure that any potential land use conflicts are considered when planning for any infrastructure or facilities related to wastewater, pipelines, landfills or industrial uses.

Mitigation and Monitoring

- Contractors must be made aware of all environmental considerations so that all environmental standards and commitments for both construction and operation are met. Mitigation measures should be clearly referenced in the report and regularly monitored during the construction stage of the project. In addition, we encourage proponents to conduct post-construction monitoring to ensure all mitigation measures have been effective and are functioning properly.
- Design and construction reports and plans should be based on a best management approach that centres on the prevention of impacts, protection of the existing environment, and opportunities for rehabilitation and enhancement of any impacted areas.
- The proponent's construction and post-construction monitoring plans must be documented in the report.

Consultation

- The report must demonstrate how the consultation provisions of the Environmental Screening Process have been fulfilled, including documentation of all consultation efforts

undertaken during the planning process. This includes a discussion in the report that identifies concerns that were raised and **describes how they have been addressed by the proponent** throughout the planning process. The report should also include copies of comments submitted on the project, and the proponent's responses to these comments (as directed by the Guide to Environmental Assessment Requirements for Electricity Projects as amended in February 2024 to include full documentation).

- Please include the full distribution/consultation list in the documentation.

Environmental Screening Process

- The purpose of the Screening Report/Environmental Review Report is to document the process followed and the conclusions reached. It should provide clear and complete documentation of the planning process to allow for transparency in decision-making and to allow for its timely review by government agencies, and interested persons, including Indigenous communities.
- The Environmental Screening Process requires the consideration of the effects of the project on all aspects of the environment (including planning, natural, social, cultural, economic, technical). The report should include a level of detail (e.g., hydrogeological investigations, terrestrial and aquatic assessments, cultural heritage assessments) such that all potential impacts can be identified, and appropriate mitigation measures can be developed. Any supporting studies conducted during the Environmental Screening Process should be referenced and included as part of the report.
- There are two possible stages of review required under the Environmental Screening Process, depending on the environmental effects of a project: a Screening stage and an Environmental Review stage.
 - All projects that are subject to the process are required to go through the Screening stage, which requires proponents to apply a series of screening criteria to identify the potential environmental effects of the project.
 - A more detailed study (an Environmental Review) is required if potential concerns are raised during the Screening stage that could not be readily addressed.
- Please include in the report a list of all subsequent permits or approvals that may be required for the implementation of the project, including but not limited to, MECP's PTTW

EASR Registrations and ECAs, conservation authority permits, species at risk permits, MTO permits and approvals under federal impact assessment legislation.

- Proponents are encouraged to circulate a draft of the Screening Report/Environmental Review Report, or relevant sections of the report, to the appropriate agencies and key stakeholders for comment prior to the formal review periods.
- Ministry guidelines and other information related to the issues above are available at <http://www.ontario.ca/environment-and-energy/environment-and-energy>. We encourage you to review all the available guides and to reference any relevant information in the report.

Notice of Completion

Once the Screening Report/Environmental Review Report is finalized, the proponent must issue a Notice of Completion providing a minimum 30-day period during which documentation may be reviewed and comment and input can be submitted to the proponent. The Notice of Completion must be sent to the appropriate MECP Regional Office email address.

Members of the public, Indigenous communities or agencies with outstanding concerns can submit an elevation request, which requests a higher level of assessment on a project if they have outstanding environmental concerns. In addition, at any point in the Environmental Screening Process, if it is determined that a project is likely to have significant negative environmental effects, and that the scope and scale of these effects are such that a comprehensive EA is warranted, the Minister of the Environment, Conservation and Parks may of his or her own initiative require that a project be made subject to Part II.3 of the *Environmental Assessment Act* (a comprehensive EA). If the Minister requires a comprehensive EA, the proponent will be informed in writing, stating reasons for the decision.

The proponent may not proceed after following the end of the 30-day comment period provided for in the Notice of Completion if:

- an elevation request has been submitted by any interested person including Indigenous communities to the ministry regarding outstanding environmental concerns, or
- the Minister has given notice to the proponent requiring that an environmental assessment be prepared.

Please ensure that the Notice of Completion advises that outstanding concerns are to be directed to the proponent for a response, and that in the event there are outstanding environmental concerns, elevation requests should be submitted in writing to the Minister and a copy sent to the Director and proponent. Requests should be addressed to:

Minister of the Environment, Conservation and Parks
777 Bay Street, 5th Floor
Toronto ON M7A 2J3
minister.mecp@ontario.ca

and copied to:

Director, Environmental Assessment Branch
Ministry of the Environment, Conservation and Parks
135 St. Clair Ave. W, 1st Floor
Toronto ON, M4V 1P5
EABDirector@ontario.ca

For more information on the Environmental Screening Process and environmental assessment requirements for Electricity Projects, please visit the following link: https://prod-environmental-registry.s3.amazonaws.com/2024-02/Guide%20to%20Environmental%20Assessment%20Requirements%20for%20Electricity%20Projects_February%202024_1.pdf.

Activity Date: Apr 24, 2024 10:16-00:00

Activity Method: E-mail

File Name: NGS-A 2024-04-24 MECP JOrpana-961-att 1.pdf

Date Published:

Page: 1 of 9

Client's Guide to Preliminary Screening for Species at Risk

Ministry of the Environment, Conservation and Parks

Species at Risk Branch, Permissions and Compliance

DRAFT - May 2019

Table of Contents

1.0 Purpose, Scope, Background and Context 3

 1.1 Purpose of this Guide..... 3

 1.2 Scope..... 3

 1.3 Background and Context..... 4

2.0 Roles and Responsibilities 5

3.0 Information Sources 6

 3.1 Make a Map: Natural Heritage Areas 7

 3.2 Land Information Ontario (LIO) 7

 3.3 Additional Species at Risk Information Sources..... 8

 3.4 Information Sources to Support Impact Assessments 8

4.0 Check-List 9

1.0 Purpose, Scope, Background and Context

1.1 Purpose of this Guide

This guide has been created to:

- help clients better understand their obligation to gather information and complete a preliminary screening for species at risk before contacting the ministry,
- outline guidance and advice clients can expect to receive from the ministry at the preliminary screening stage,
- help clients understand how they can gather information about species at risk by accessing publicly available information housed by the Government of Ontario, and
- provide a list of other potential sources of species at risk information that exist outside the Government of Ontario.

It remains the client's responsibility to:

- carry out a preliminary screening for their projects,
- obtain best available information from all applicable information sources,
- conduct any necessary field studies or inventories to identify and confirm the presence or absence of species at risk or their habitat,
- consider any potential impacts to species at risk that a proposed activity might cause, and
- comply with the Endangered Species Act (ESA).

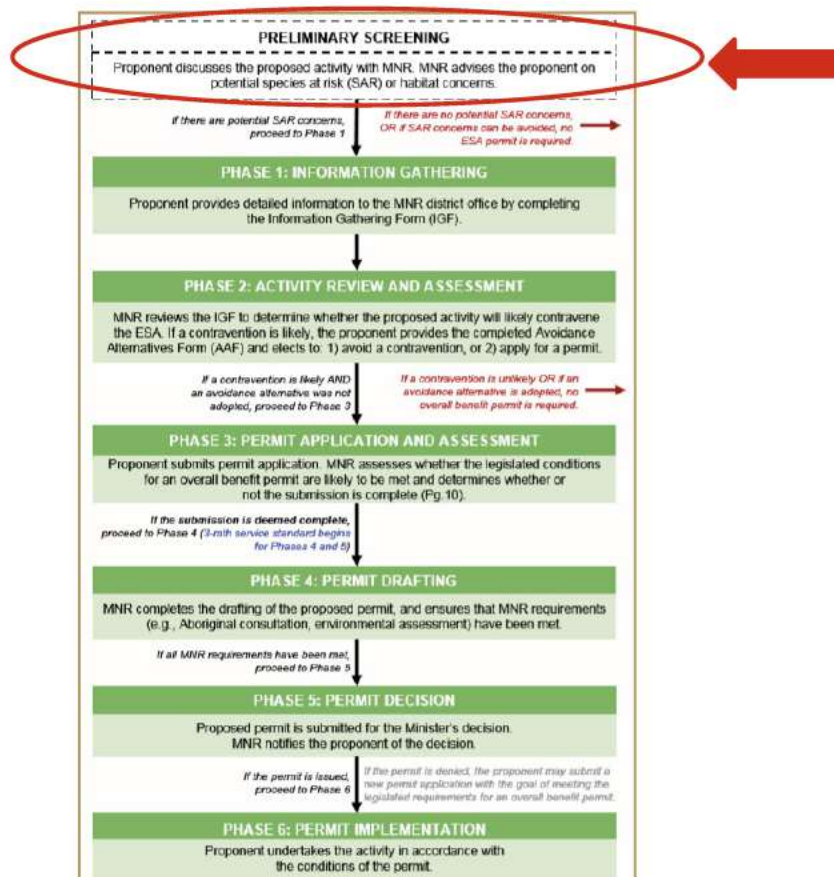
To provide the most efficient service, clients should initiate species at risk screenings and seek information from all applicable information sources identified in this guide, at a minimum, prior to contacting Government of Ontario ministry offices for further information or advice.

1.2 Scope

This guide is a resource for clients seeking to understand if their activity is likely to impact species at risk or if they are likely to trigger the need for an authorization under the ESA. It is not intended to circumvent any detailed site surveys that may be necessary to document species at risk or their habitat nor to circumvent the need to assess the impacts of a proposed activity on species at risk or their habitat. This guide is not an exhaustive list of available information sources for any given area as the availability of information on species at risk and their habitat varies across the province. This guide is intended to support projects and activities carried out on Crown and private land, by private landowners, businesses, other provincial ministries and agencies, or municipal government.

1.3 Background and Context

To receive advice on their proposed activity, clients must first determine whether any species at risk or their habitat exist or are likely to exist at or near their proposed activity, and whether their proposed activity is likely to contravene the ESA. Once this step is complete, clients may contact the ministry at SAROntario@ontario.ca to discuss the main purpose, general methods, timing and location of their proposed activity as well as information obtained about species at risk and their habitat at, or near, the site. At this stage, the ministry can provide advice and guidance to the client about potential species at risk or habitat concerns, measures that the client is considering to avoid adverse effects on species at risk or their habitat and whether additional field surveys are advisable. This is referred to as the "Preliminary Screening" stage. For more information on additional phases in the diagram below, please refer to the Endangered Species Act Submission Standards for Activity Review and 17(2)(c) Overall Benefit Permits policy available online at <https://www.ontario.ca/page/species-risk-overall-benefit-permits>



2.0 Roles and Responsibilities

To provide the most efficient service, clients should initiate species at risk screenings and seek information from all applicable information sources identified in this guide prior to contacting Government of Ontario ministry offices for further information or advice.

Step 1: Client seeks information regarding species at risk or their habitat that exist, or are likely to exist, at or near their proposed activity by referring to all applicable information sources identified in this guide.

Step 2: Client reviews and consider guidance on whether their proposed activity is likely to contravene the ESA (see section 3.4 of this guide for guidance on what to consider).

Step 3: Client gathers information identified in the checklist in section 4 of this guide.

Step 4: Client contacts the ministry at SAROntario@ontario.ca to discuss their preliminary screening. Ministry staff will ask the client questions about the main purpose, general methods, timing and location of their proposed activity as well as information obtained about species at risk and their habitat at, or near, the site. Ministry staff will also ask the client for their interpretation of the impacts of their activity on species at risk or their habitat as well as measures the client has considered to avoid any adverse impacts.

Step 5: Ministry staff will provide advice on next steps.

Option A: Ministry staff may advise the client they can proceed with their activity without an authorization under the ESA where the ministry is confident that:

- no protected species at risk or habitats are likely to be present at or near the proposed location of the activity; or
- protected species at risk or habitats are known to be present but the activity is not likely to contravene the ESA; or
- through the adoption of avoidance measures, the modified activity is not likely to contravene the ESA.

Option B: Ministry staff may advise the client to proceed to Phase 1 of the overall benefit permitting process (i.e. Information Gathering in the previous diagram), where:

- there is uncertainty as to whether any protected species at risk or habitats are present at or near the proposed location of the activity; or
- the potential impacts of the proposed activity are uncertain; or
- ministry staff anticipate the proposed activity is likely to contravene the ESA.

3.0 Information Sources

Land Information Ontario (LIO) and the Natural Heritage Information Centre (NHIC) maintain and provide information about species at risk, as well as related information about fisheries, wildlife, crown lands, protected lands and more. This information is made available to organizations, private individuals, consultants, and developers through online sources and is often considered under various pieces of legislation or as part of regulatory approvals and planning processes.

The information available from LIO or NHIC and the sources listed in this guide should not be considered as a substitute for site visits and appropriate field surveys. Generally, this information can be regarded as a starting point from which to conduct further field surveys, if needed. While this data represents best available current information, it is important to note that a lack of information for a site does not mean that species at risk or their habitat are not present. There are many areas where the Government of Ontario does not currently have information, especially in more remote parts of the province. The absence of species at risk location data at or near your site does not necessarily mean no species at risk are present at that location. On-site assessments can better verify site conditions, identify and confirm presence of species at risk and/or their habitats.

Information on the location (i.e. observations and occurrences) of species at risk is considered sensitive and therefore publicly available only on a 1km square grid as opposed to as a detailed point on a map. This generalized information can help you understand which species at risk are in the general vicinity of your proposed activity and can help inform field level studies you may want to undertake to confirm the presence, or absence of species at risk at or near your site.

Should you require specific and detailed information pertaining to species at risk observations and occurrences at or near your site on a finer geographic scale; you will be required to demonstrate your need to access this information, to complete data sensitivity training and to obtain a Sensitive Data Use License from the NHIC. Information on how to obtain a license can be found online at <https://www.ontario.ca/page/get-natural-heritage-information>.

Many organizations (e.g. other Ontario ministries, municipalities, conservation authorities) have ongoing licensing to access this data so be sure to check if your organization has this access and consult this data as part of your preliminary screening if your organization already has a license.

3.1 Make a Map: Natural Heritage Areas

The Make a Natural Heritage Area Map (available online at http://www.gisapplication.lrc.gov.on.ca/mamnh/Index.html?site=MNR_NHLUPS_NaturalHeritage&viewer=NaturalHeritage&locale=en-US) provides public access to natural heritage information, including species at risk, without the user needing to have Geographic Information System (GIS) capability. It allows users to view and identify generalized species at risk information, mark areas of interest, and create and print a custom map directly from the web application. The tool also shows topographic information such as roads, rivers, contours and municipal boundaries.

Users are advised that sensitive information has been removed from the natural areas dataset and the occurrences of species at risk has been generalized to a 1-kilometre grid to mitigate the risks to the species (e.g. illegal harvest, habitat disturbance, poaching).

The web-based mapping tool displays natural heritage data, including:

- Generalized Species at risk occurrence data (based on a 1-km square grid),
- Natural Heritage Information Centre data.

Data cannot be downloaded directly from this web map; however, information included in this application is available digitally through Land Information Ontario (LIO) at <https://www.ontario.ca/page/land-information-ontario>.

3.2 Land Information Ontario (LIO)

Most natural heritage data is publicly available. This data is managed in a large provincial corporate database called the LIO Warehouse and can be accessed online through the LIO Metadata Management Tool at <https://www.javacoeapp.lrc.gov.on.ca/geonetwork/srv/en/main.home>. This tool provides descriptive information about the characteristics, quality and context of the data. Publicly available geospatial data can be downloaded directly from this site.

While most data are publicly available, some data may be considered highly sensitive (i.e. nursery areas for fish, species at risk observations) and as such, access to some data may be restricted.

3.3 Additional Species at Risk Information Sources

- The Breeding Bird Atlas can be accessed online at <http://www.birdsontario.org/atlas/index.jsp?lang=en>
- eBird can be accessed online at <https://ebird.org/home>
- iNaturalist can be accessed online at <https://www.inaturalist.org/>
- The Ontario Reptile and Amphibian Atlas can be accessed online at <https://ontarionature.org/programs/citizen-science/reptile-amphibian-atlas>
- Your local Conservation Authority. Information to help you find your local Conservation Authority can be accessed online at <https://conservationontario.ca/conservation-authorities/find-a-conservation-authority/>

Local naturalist groups or other similar community-based organizations

- Local Indigenous communities
- Local land trusts or other similar Environmental Non-Government Organizations
- Field level studies to identify if species at risk, or their habitat, are likely present or absent at or near the site.
- When an activity is proposed within one of the continuous caribou ranges, please be sure to consider the caribou Range Management Policy. This policy includes figures and maps of the continuous caribou range, can be found online at <https://www.ontario.ca/page/range-management-policy-support-woodland-caribou-conservation-and-recovery>

3.4 Information Sources to Support Impact Assessments

- Guidance to help you understand if your activity is likely to adversely impact species at risk or their habitat can be found online at <https://www.ontario.ca/page/policy-guidance-harm-and-harass-under-endangered-species-act> and <https://www.ontario.ca/page/categorizing-and-protecting-habitat-under-endangered-species-act>
- A list of species at risk in Ontario is available online at <https://www.ontario.ca/page/species-risk-ontario>. On this webpage, you can find out more about each species, including where it lives, what threatens it and any specific habitat protections that apply to it by clicking on the photo of the species.

4.0 Check-List

Please feel free to use the check list below to help you confirm you have explored all applicable information sources and to support your discussion with Ministry staff at the preliminary screening stage.

- ✓ Land Information Ontario (LIO)
- ✓ Natural Heritage Information Centre (NHIC)
- ✓ The Breeding Bird Atlas
- ✓ eBird
- ✓ iNaturalist
- ✓ Ontario Reptile and Amphibian Atlas
- ✓ List Conservation Authorities you contacted: _____

- ✓ List local naturalist groups you contacted: _____

- ✓ List local Indigenous communities you contacted: _____

- ✓ List any other local land trusts or Environmental Non-Government Organizations you contacted: _____

- ✓ List and field studies that were conducted to identify species at risk, or their habitat, likely to be present or absent at or near the site: _____

- ✓ List what you think the likely impacts of your activity are on species at risk and their habitat (e.g. damage or destruction of habitat, killing, harming or harassing species at risk): _____

Contact Date: Jun 06, 2024 10:56-00:00 **Method:** E-mail

Activity ID: 1728

Contact People: David Arnott, Contact General, Shareen Han

Topics Discussed: Surface/Ground Water, Permitting

From: Julia.Parker@aturapower.com

Sent: Thursday, June 6, 2024 10:56 AM

To: enviropresubmission@ontario.ca; David.Arnott@ontario.ca; Shareen.Han@ontario.ca

Cc: Stephen.Smith@aturapower.com; Brad.Kyte@aturapower.com

Subject: Napanee Generating Station Expansion Meeting Request

Good Morning,

We would like to request a meeting to discuss the Napanee Generating Station Project: Napanee Generating Station expansion - Atura Power. This meeting is to discuss our Stormwater Management Plan and the related Industrial Sewage Works.

The agenda of the meeting would be the following:

1. Introductions
2. Project Description
 - a. Why this project is needed/IESO/location of infrastructure
 - b. New Combustion Turbine Generator Unit
 - c. Existing Stormwater Works
 - d. Stormwater management Plan
 - i. Design criteria
 - ii. Design plan
 - e. Industrial Sewage Works Components
 - i. Design criteria
 - ii. Design plan
3. Schedule/Priority Review Request

We are looking to complete the final design of these works by late July and would appreciate an hour to discuss our plans before the design progresses further. Is it possible to meet within the next two weeks for a one hour discussion?

Thank you,

Julia Parker

Julia Parker

Project Manager – Environmental and Municipal Approvals | Atura Power

1415 Joshuas Creek Drive Unit #200, Oakville, ON L6H 7G4

+1 (289) 795-8001 | Julia.Parker@aturapower.com

Contact Date: Jun 19, 2024 16:12-00:00 Method: E-mail

Activity ID: 1729

Contact People: David Arnott, Contact General, Shareen Han

Topics Discussed: Protocols/Engagement Process, Surface/Ground Water, Environmental Assessment, Permitting

From: Shareen.Han@ontario.ca

Sent: Wednesday, June 19, 2024 4:12 PM

To: Julia.Parker@aturapower.com; enviropresubmission@ontario.ca; David.Arnott@ontario.ca

Cc: Stephen.Smith@aturapower.com; Brad.Kyte@aturapower.com; Dana.Cruikshank@ontario.ca; Shannon.Dennie@ontario.ca; Michael.Sander@ontario.ca

Subject: RE: Napanee Generating Station Expansion Meeting Request

Hi Julia,

Appreciate your patience.

MECP would be available to meet at the following dates/times:

June 26 --> 9-10am or anytime between 3-5pm

Jun 27 --> 9-10am or 1-2pm

Is there information on the proposed SWM that can be provided in advance of the meeting?

Thanks,

Shareen

Contact Date: Jun 25, 2024 09:02-00:00 Method: E-mail

Activity ID: 1730

Contact People: David Arnott, Contact General, Shareen Han

Topics Discussed: Protocols/Engagement Process, Surface/Ground Water, Consultation / Engagement, Permitting

From: Julia.Parker@aturapower.com

Sent: Tuesday, June 25, 2024 9:02 AM

To: Shareen.Han@ontario.ca; enviropresubmission@ontario.ca; David.Arnott@ontario.ca

Cc: Brad.Kyte@aturapower.com; Dana.Cruikshank@ontario.ca; Shannon.Dennie@ontario.ca; Michael.Sander@ontario.ca

Subject: RE: Napanee Generating Station Expansion Meeting Request

Thank you Shareen,

I had some key people away/sick so only could reply today – if the 9-10 AM timeslot this Thursday June 27th is still available, we would like to book that time. Should I send an invitation to this group?

The proposed SWM is in the early stages so there is not much to share but I forward some information by the end of day today.

Thank you!!

Kind regards,

Julia Parker

+1 (289) 795-8001 | Julia.Parker@aturapower.com

Contact Date: Jun 26, 2024 07:17-00:00 Method: E-mail

Activity ID: 1731

Contact People: Shareen Han

Topics Discussed: Protocols/Engagement Process, Surface/Ground Water, Consultation / Engagement, Permitting
[7:17 AM]

From: Julia.Parker@aturapower.com

Sent: Wednesday, June 26, 2024 7:17 AM

To: Shareen.Han@ontario.ca

Subject: FW: Napanee Generating Station Expansion Meeting Request

Good Morning Shareen,

I wanted to check in with you – may I send an invite to those below for the meeting Thursday from 9-10 AM?

Thank you!!

Kind regards,

Julia Parker

+1 (289) 795-8001 | Julia.Parker@aturapower.com

[9:20 AM]

From: Shareen.Han@ontario.ca

Sent: Wednesday, June 26, 2024 9:20 AM

To: Julia.Parker@aturapower.com

Subject: Re: Napanee Generating Station Expansion Meeting Request

Hi Julia,

I am wondering if it may be premature to meet with technical staff at MECP. For these meetings, consultants typically walk through proposed design and MECP provides their comments/recommendations.

Do you know when this information will be ready...?

Thanks,

Shareen

[3:18 PM]

From: Julia.Parker@aturapower.com

Sent: Wednesday, June 26, 2024 3:18 PM

To: Shareen.Han@ontario.ca

Subject: RE: Napanee Generating Station Expansion Meeting Request

Hi Shareen,

I am going to take your advice and wait to book this meeting with you in 2-3 weeks when we have drawings to show the technical staff. If possible, can I email you the week that these will be ready so that we can get that meeting in the calendar now? I can get back to you tomorrow.

Thank you for your help and support on our projects!! Have a good afternoon.

Kind regards,

Julia Parker

+1 (289) 795-8001 | Julia.Parker@aturapower.com

[3:52 PM]

From: Shareen.Han@ontario.ca

Sent: Wednesday, June 26, 2024 3:52 PM

To: Julia.Parker@aturapower.com

Subject: RE: Napanee Generating Station Expansion Meeting Request

Yes! We can work to schedule a meeting in mid-July.

We find that the meetings are more productive when information is sent to staff 2-3 days prior to the meeting – it's challenging providing guidance during a meeting when they are seeing it for the first time. Hopefully we can build in this buffer when we book the meeting!

Contact Date: Jul 03, 2024 14:20-00:00 Method: E-mail

Activity ID: 1732

Contact People: Shareen Han

Topics Discussed: Protocols/Engagement Process, Surface/Ground Water, Consultation / Engagement, Permitting
[2:20 PM]

From: Julia.Parker@aturapower.com

Sent: Wednesday, July 3, 2024 2:20 PM

To: Shareen.Han@ontario.ca

Subject: RE: Napanee Generating Station Expansion Meeting Request

Hi Shareen,

I have confirmation that we will have a package ready for MECP's technical reviewers starting the week of July 15th.

I wondered if we could rebook this 1h meeting during one of the following times:

July 15-17

July 22-24

July 25 morning

July 26

I will prepare a package for review and to be sent out 3-4 days in advance of the meeting.

Thank you!

Kind regards,

Julia Parker

+1 (289) 795-8001 | Julia.Parker@aturapower.com

[4:03 PM]

From: Shareen.Han@ontario.ca>

Sent: Wednesday, July 3, 2024 4:03 PM

To: Han, Shareen (MECP); Dennie, Shannon (MECP); Sander, Michael (MECP); Cruikshank, Dana (MECP); Arnott, David (MECP); Julia Parker; Brad Kyte

Subject: MECP/Atura Meeting - Napanee Generating Station Expansion Project

When: July 16, 2024 11:00 AM-12:00 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Microsoft Teams Meeting

Hello,

This meeting is being scheduled to discuss the proposed stormwater management works for Atura's Napanee Generating Station expansion Project.

Agenda below – additional information will be shared prior to the meeting.

1. Introductions
2. Project Description
 - a. Why this project is needed/IESO/location of infrastructure
 - b. New Combustion Turbine Generator Unit
 - c. Existing Stormwater Works
 - d. Stormwater management Plan
 - i. Design criteria
 - ii. Design plan
 - e. Industrial Sewage Works Components
 - i. Design criteria
 - ii. Design plan
3. Schedule/Priority Review Request

Thanks,

Shareen

Contact Date: Jul 16, 2024 11:00-00:00 **Method:** Virtual Meeting

Activity ID: 1267

Contact People: Dana Cruikshank, Shareen Han, Michael Sander

Topics Discussed: Surface/Ground Water, Permitting

-Introduction

-Objective of the Meeting

-Project Overview

-Environmental Reviews process

-Stormwater design - design overview

-Total suspended solids (TSS) removal

-Regulations for infrastructure ownership

-Drainage plan

-Industrial sewage plan - overview

-ECA Amendment Submission Process - MECP review team's approach

-Submission timeline

-ECA Application Requirements - Consultation

-Exemptions within ECA Application

-Other application requirements

-Pre-Submission Package-Required materials

-Submission timeline

-Action items

-Additional Resources

Meeting adjourned at ~12:10 PM

Attached File: NGS-A 2024-07-16 MECP AP Meeting-1267-att.pdf

Attached File: NGS-A 2024-06-06 MECP SHan SWMP-1728 1729 1730 1731 1732 1733-att 2.pdf

Contact Date: Aug 02, 2024 11:36-00:00 **Method:** E-mail

Activity ID: 1733

Contact People: David Arnott, Dana Cruikshank, Shannon Dennie, Shareen Han, Michael Sander

Topics Discussed: Surface/Ground Water, Permitting

From: Julia.Parker@aturapower.com

Sent: Friday, August 2, 2024 11:36 AM

To: Shareen.Han@ontario.ca; Shannon.Dennie@ontario.ca; Michael.Sander@ontario.ca; Dana.Cruikshank@ontario.ca; David.Arnott@ontario.ca;

Brad.Kyte@aturapower.com

Subject: RE: MECP/Atura Meeting - Napanee Generating Station Expansion Project

Good Afternoon,

Thank you for taking the time to discuss our project and give us your feedback.

Dana, we look forward to providing you with our Pre-Submission package later this month.

Have wonderful Long Weekends!

Kind regards,

Julia Parker

+1 (289) 795-8001 | Julia.Parker@aturapower.com

Attached File: NGS-A 2024-08-02 MECP SHan SWMP-1733-att 1.pdf

Attached File: NGS-A 2024-08-02 MECP SHan SWMP-1733-att 2.pdf

Contact Date: Sep 06, 2024 02:52-00:00 Method: E-mail

Activity ID: 2963

Contact People: Jon K. Orpana, Roberto Sacilotto

Topics Discussed: Protocols/Engagement Process, Consultation / Engagement, Permitting

From: Julia.Parker@aturapower.com

Sent: Friday, September 6, 2024 2:52 PM

To: Jon.Orpana@ontario.ca

Cc: Roberto.Sacilotto@ontario.ca; michelle.wongken@avaanz.ca

Subject: FW: Napanee Generating Station Expansion

Good afternoon Jon,

I am following up with you on the Napanee Generating Station (NGS) Expansion project, for which we issued a Notice of Commencement on April 8, 2024, and subsequently received a response from you on April 24, 2024. We would like to request a meeting with the MECP's Environmental Assessment Branch to discuss the project schedule and our approach to the EA process and environmental permitting. We are currently completing the technical studies for this project and would appreciate your input at this stage so that we are able to address any potential questions or concerns from the Ministry.

If you can provide a few potential timeslots that would work for you and your team, we will get back to you with our availability. In the meantime, please let me know if there is any specific information the Ministry would like to discuss at the meeting or would like to have prior to meeting.

I have attached our NOC and your response for your reference.

Thank you!

Kind regards,

Julia Parker

+1 (289) 795-8001 | Julia.Parker@aturapower.com

Attached File: NGS-A 2024-09-06 MECP JOrpana-2963 att 1.pdf

Attached File: NGS-A 2024-09-06 MECP JOrpana-2963-att 2.pdf

Activity Date: Sep 06, 2024 02:52-00:00
File Name: NGS-A 2024-09-06 MECP JOrpana-2963 att 1.pdf

Activity Method: E-mail
Date Published:

Page: 1 of 4



1415 Joshuas Creek Dr., Unit 200
Oakville, Ont. L6H 7G4
aturapower.com

April 8, 2024

Peter Taylor,
Director, Eastern Region,
Ministry of the Environment, Conservation and Parks
Unit 3, 1259 Gardiners Rd.,
Kingston, ON K7P 3J6

Dear Peter,

This letter is to inform you that Atura Power, a subsidiary of Ontario Power Generation (OPG), is commencing an environmental assessment (EA) for the proposed Napanee Generating Station (NGS) Expansion project that will increase Ontario's electricity supply and support grid reliability to meet peak power demand in Ontario. This project is subject to a procurement process – the Long-Term 1 Request for Proposals (LT1 RFP) – led by the Independent Electricity System Operator (IESO). Atura Power's LT1 RFP application was submitted to IESO in December 2023. Atura Power is planning to commence the EA prior to the IESO LT1 contract award to advance permitting to meet IESO's need for the project to be in service by 2028.

The proposed NGS Expansion includes adding a hydrogen-ready simple cycle combustion turbine generator unit that will provide up to 430 megawatts of electricity output to Ontario's electricity grid. The project will be located north of the Lake Ontario shoreline between Atura Power's NGS and OPG's Lennox Generating Station in the Town of Greater Napanee, Ont.

The NGS Expansion is subject to Ontario Regulation 50/24: Part II.3 Projects under the *Environmental Assessment Act*. Atura Power voluntarily elected to undergo a "Category B" Environmental Review as described in the Ministry of the Environment, Conservation and Parks "Guide to Environmental Assessment Requirements for Electricity Projects" (February 2024).

Attached are the required project information form (PIF) and Notice of Commencement on an Environmental Review and Invitation to a Public Meeting.

Atura Power is also providing notification directly to the Indigenous communities identified below based on previous project engagement during the IESO LT1 and the Napanee Battery Energy Storage System (BESS) Class EA processes. The list of Indigenous communities was provided by the Ministry of Energy in a letter to Atura



1415 Joshuas Creek Dr., Unit 200
Oakville, Ont. L6H 7G4
aturapower.com

Power dated June 7, 2023, delegating procedural aspects of the Crown's Duty to Consult for the Napanee BESS Class EA:

- Alderville First Nation
- Beausoleil First Nation
- Chippewas of Georgina Island First Nation
- Chippewas of Rama First Nation
- Curve Lake First Nation
- Hiawatha First Nation
- Huron Wendat Nation
- Kawartha Nishnawbe
- Mississaugas of Scugog Island First Nation
- Mohawks of the Bay of Quinte First Nation
- Williams Treaties First Nations Process Coordinator

We are requesting that the Ministry of the Environment, Conservation and Parks (MECP) provide confirmation that engagement with the above listed communities is appropriate for the project, and whether the Ministry of Indigenous Affairs should also be engaged as part of the Environmental Review Process.

Atura Power is committed to engaging agencies, the public and other stakeholders on all projects. As indicated in the attached notice, a public community meeting will be hosted on May 16, 2024, from 4 to 8 p.m. EDT at South Fredericksburgh Hall, 2478 County Rd. 8 in Greater Napanee to share more details about the EA and collect feedback from the public.

For more information, or if you have any comments or questions about the project, please contact the project team by email at napaneeexpansion@aturapower.com or visit the project webpage at aturapower.com/napaneeexpansion.

Sincerely,

A handwritten signature in black ink that reads "Julia Parker".

Julia Parker
Project Manager – Environmental and Municipal Approvals
Atura Power



1415 Joshuas Creek Dr., Unit 200
Oakville, Ont. L6H 7G4
aturapower.com

Enclosures: Project Information Form; Notice of Commencement on an Environmental Review and Invitation to a Public Meeting

Cc: Kathleen O'Neil, Director, Environmental Assessment Branch;
Jon Orpana, Regional Environmental Planner, Environmental Assessment Branch;
ClassEAnotices@ontario.ca;
eanotification.eregion@ontario.ca

Notice of Commencement of an Environmental Review and Invitation to a Public Meeting

Napanee Generating Station Expansion

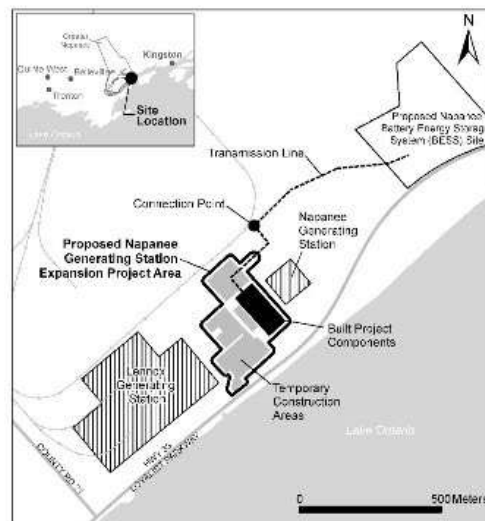
Atura Power is proposing to expand the electricity generation capacity of the Napanee Generating Station (NGS), an electricity project under a procurement process led by the Independent Electricity System Operator.

After more than a decade of strong supply, Ontario is entering a period of emerging electricity system needs, driven by increasing demand, the refurbishment of existing generating assets, as well as expiring contracts for other electricity-producing facilities. Atura Power is responding to the need for additional electricity resources that can be online from 2027-2028 by proposing the NGS Expansion to increase Ontario's electricity production and supply.

Project Description

The proposed NGS Expansion project includes adding a hydrogen-ready simple cycle combustion turbine generator unit that will provide up to 430 megawatts of electricity output to Ontario's electricity grid. The project will be located north of the Lake Ontario shoreline between Atura Power's NGS and Ontario Power Generation's Lennox Generating Station in the Town of Greater Napanee, Ont.

Atura Power



Environmental Review Process

Pursuant to Ontario Regulation 50/24: Part II, 3 Projects under the *Environmental Assessment Act*, Atura Power has voluntarily elected to undergo a "Category B" Environmental Review as described in the Ministry of the Environment, Conservation and Parks "Guide to Environmental Assessment Requirements for Electricity Projects" (February 2024). This notice was issued to communicate the start of the Environmental Review. An Environmental Review Report (ERR) will be made available for a 30-day public review period following the conclusion of the Environmental Review. The ERR will include a review of existing conditions, potential effects, mitigation measures and document engagement activities and input from Indigenous communities, the public and other stakeholders.

You are Invited to a Public Meeting

Atura Power is committed to engaging Indigenous communities, the public and other stakeholders on all our projects. We invite you to attend an upcoming public meeting to learn more about the project and provide feedback. If you are unable to participate, meeting materials will be posted on the project webpage for review following the meeting.

Meeting Details	Date & Time:	Thursday, May 16, 2024, 4 to 8 p.m.
	Location:	South Fredericksburgh Hall 2478 County Rd. 8, Greater Napanee, Ont. K7R 3K7

Project Contacts

Please email project questions or accommodation needs to napaneeexpansion@aturapower.com.

For more information, visit the project webpage: aturapower.com/napaneeexpansion.

The Napanee Battery Energy Storage System is being studied under a different EA. See napaneebess.ca for details.

All personal information included in your request – such as name, address, telephone number and property location – is collected under the authority of Section 30 of the *Environmental Assessment Act* and is collected and maintained for the purpose of creating a record that is available to the general public. As the information is collected for the purpose of a public record, the protection of personal information provided in the *Freedom of Information and Protection of Privacy Act* (FIPPA) does not apply (s.37). Personal information you submit will become part of the available public record unless you request that your personal information remain confidential.

Released: April 8, 2024

Contact Date: Sep 09, 2024 16:29-00:00 Method: E-mail

Activity ID: 3147

Contact People: Jon K. Orpana

Topics Discussed: Protocols/Engagement Process, Air Quality & Emissions, Consultation / Engagement, Permitting

From: Jon.Orpana@ontario.ca

Sent: Monday, September 9, 2024 4:29 PM

To: Julia.Parker@aturapower.com

Cc: michelle.wongken@avaanz.ca; David.Arnott@ontario.ca; Simon.Zhao@ontario.ca; Cathy.Chisholm@ontario.ca; Miroslav.Ubovic@ontario.ca; Nancy.Orpana@ontario.ca

Subject: RE: Napanee Generating Station Expansion

Hello Julia,

Thank you for your email. I have consulted with a few of my colleagues that would be involved in addition to Approvals Managers who will be making staff available for a meeting as your request involved environmental permitting. As this project involves a significant expansion to a major facility it will require an amendment to your existing ECA for air and noise.

I am in attendance at a conference this week in Ottawa so this will have to wait until next week or the week after. As of today I have canvassed peoples calendars and I can offer the following dates for your consideration for next week.

Dates:

September 16th 1030 am - 12 pm and 1-4 pm

September 17th 11am – 12 pm, 3-430 pm

September 18th 1:30-2:30pm

September 19th 10am – 12 pm and 1 pm to 3 pm

September 20th 10-12am and 1-4 pm

Regards,

Jon

Jon K. Orpana hear name

Regional Environmental Planner

Environmental Assessment Branch

Ministry of the Environment, Conservation and Parks

Kingston Regional Office

PO Box 22032, 1259 Gardiners Road

Kingston, Ontario

K7M 8S5

Phone: (613) 548-6918

Fax: (613) 548-6908

Email: jon.orpana@ontario.ca

Contact Date: Sep 11, 2024 11:38-00:00 Method: E-mail

Activity ID: 3148

Contact People: Jon K. Orpana

Topics Discussed: Protocols/Engagement Process, Consultation / Engagement, Permitting
[11:38 AM]

From: Julia.Parker@aturapower.com

Sent: Wednesday, September 11, 2024 11:38 AM

To: Jon.Orpana@ontario.ca

Cc: michelle.wongken@avaanz.ca; David.Amott@ontario.ca; Simon.Zhao@ontario.ca; Cathy.Chisholm@ontario.ca; Miroslav.Ubovic@ontario.ca; Nancy.Orpana@ontario.ca

Subject: RE: Napanee Generating Station Expansion

Thank you Jon,

We have looked at these times and are available for the following slots – let me know if you prefer that I send an invite.

September 18th, 1:30-2:30pm

September 20th, 11am - Noon and 1-2:30pm

Thank you so much for organizing this for us!!

Kind regards,

Julia Parker

+1 (289) 795-8001 | Julia.Parker@aturapower.com

[5:28 PM]

From: Jon.Orpana@ontario.ca

Sent: September 11, 2024 5:28 PM

To: Julia.Parker@aturapower.com

Cc: michelle.wongken@avaanz.ca; David.Amott@ontario.ca; simon.zhao@ontario.ca; Cathy.Chisholm@ontario.ca; Miroslav.Ubovic@ontario.ca; ,Nancy.Orpana@ontario.ca

Subject: Re: Napanee Generating Station Expansion

Hi Julia,

If you want to set up a meeting for the 20th from 1 -230

Thanks in advance!

Jon Orpana

Contact Date: Sep 20, 2024 13:00-14:30 Method: Virtual Meeting

Activity ID: 3149

Contact People: Jon K. Orpana

Topics Discussed: Protocols/Engagement Process, Climate Change, Air Quality & Emissions, Consultation / Engagement, Permitting, Operations
-Introduction

-Objective of the Meeting

-Project Overview

-Environmental Review

-Elevation Requests during EA Process

-Climate Change Consideration in EA Process

-Air Emissions Modelling

-Proposed Approach

-Policy Interpretation

-Frequency of Start-Up and Shut-Down Conditions

-Site-Specific Standards

-Air Monitor Option

-Next Steps

-Action Items

Meeting adjourned ~ 2:35 PM

Attached File: NGS-A 2024-09-30 MECP JOrpana-3150-att 1.pdf

Contact Date: Sep 30, 2024 07:51-00:00 Method: E-mail

Activity ID: 3150

Contact People: Jon K. Orpana

Topics Discussed: Protocols/Engagement Process, Air Quality & Emissions, Consultation / Engagement, Permitting

From: Julia.Parker@aturapower.com

Sent: September 30, 2024 7:51 AM

To: Jon.Orpana@ontario.ca; simon.zhao@ontario.ca; Cathy.Chisholm@ontario.ca; Miroslav.Ubovic@ontario.ca; Nancy.Orpana@ontario.ca; michelle.wongken@avaanz.ca; jhodowsky@independentenvironmental.ca; ktheobald@independentenvironmental.ca;

dgorber@independentenvironmental.ca; cathy.csgenv@gmail.com; scott.csgenv@gmail.com; hcampbellgale@independentenvironmental.ca

Cc: Brad.Kyte@aturapower.com; Stephen.Smith@aturapower.com; Vahid.Asili@ontario.ca; andrea.coutu@aturapower.com;

David.Arnott@ontario.ca

Subject: RE: Napanee Generating Station Expansion

Good Morning Everyone,

Please find attached the meeting minutes and presentations shared during the meeting on Sept 20th, 2024 to discuss the Napanee Generating Station Expansion. Please let us know if there are any errors or omissions that we should correct.

Nancy, I received your email on Friday afternoon and will review this week. We intend to complete some further model runs and then reach out to you with the results.

We appreciate the detailed conversation and time and attention to our project, thank you.

Kind regards,

Julia Parker

+1 (289) 795-8001 | Julia.Parker@aturapower.com

Attached File: NGS-A 2024-09-30 MECP JOrpana-3150-att 1.pdf

Attached File: NGS-A 2024-09-30 MECP JOrpana-3150-att 2.pdf

Attached File: NGS-A 2024-09-30 MECP JOrpana-3150-att 3.pdf

Activity Date: Sep 30, 2024 07:51-00:00

File Name: NGS-A 2024-09-30 MECP JOrpana-3150-att 2.pdf

Activity Method: E-mail

Date Published:

Page: 1 of 13

Atura Power

Napanee Generating Station Expansion

MECP EA Branch

September 20, 2024

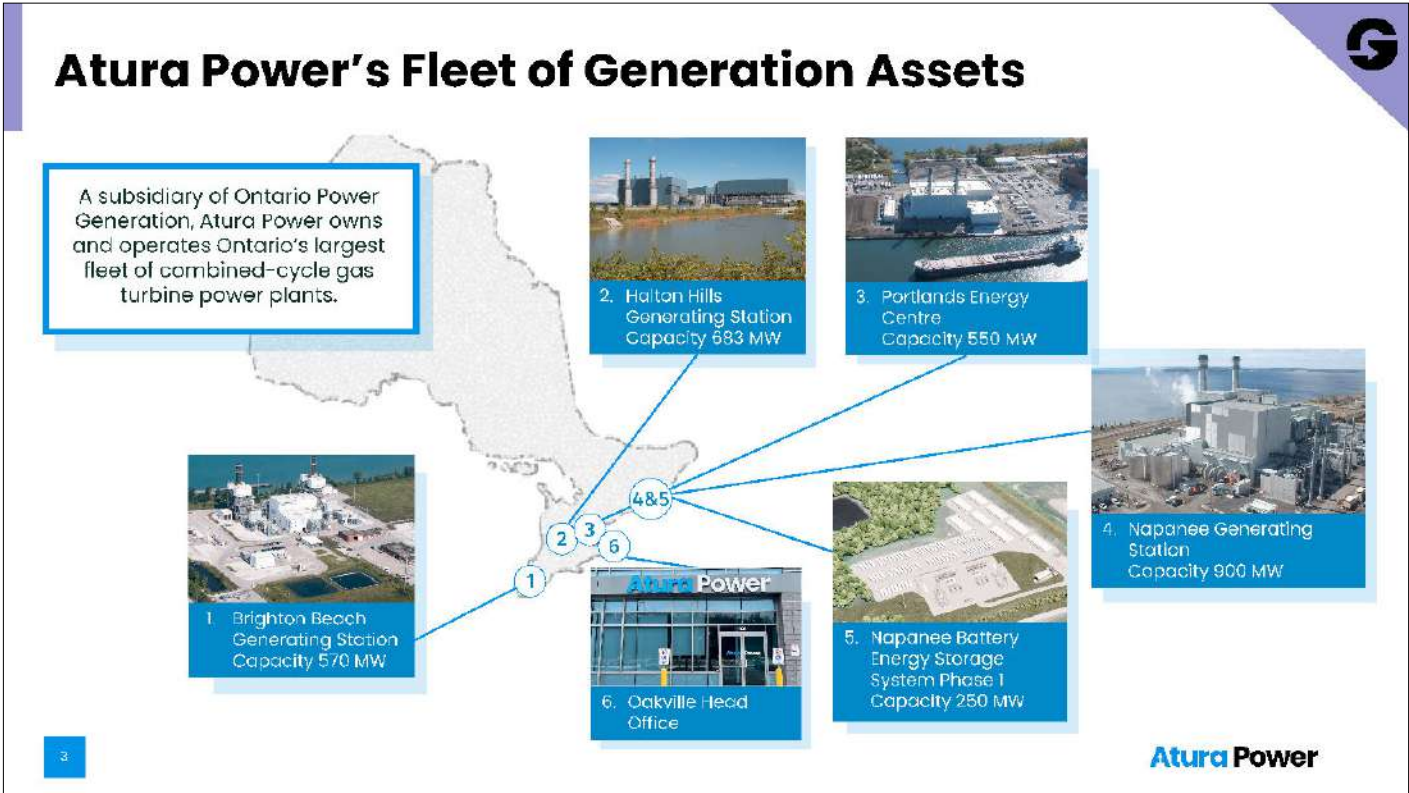
1



Agenda

- About Atura Power
- Project Need
- Project Description
- Project Schedule
- Environmental Assessment
- Summary of Engagement Activities
- Approvals/Agency Engagement





Project Need

- Ontario is entering a period of emerging electricity system needs; the Independent Electricity System Operator (IESO) forecasts that an additional 4,000 MW are needed by early 2028
- The Napanee Generating Station (NGS) Expansion is part of Atura Power's efforts to increase Ontario's electricity supply, support grid reliability, and help us get to net-zero
- The NGS Expansion project received an IESO contract award for the Long-Term 1 (LT1) procurement process on May 9, 2024
- The IESO contract requires proponents to place facilities in-service as soon as possible and has an in-service deadline of May 1, 2028
- Meeting this schedule requires NGS Expansion construction to start on Aug 1, 2025



Napanee Generating Station Expansion



Project Description

- The project will add a simple cycle combustion gas turbine generator
- Existing infrastructure and facilities will be used

Gross Output Capacity

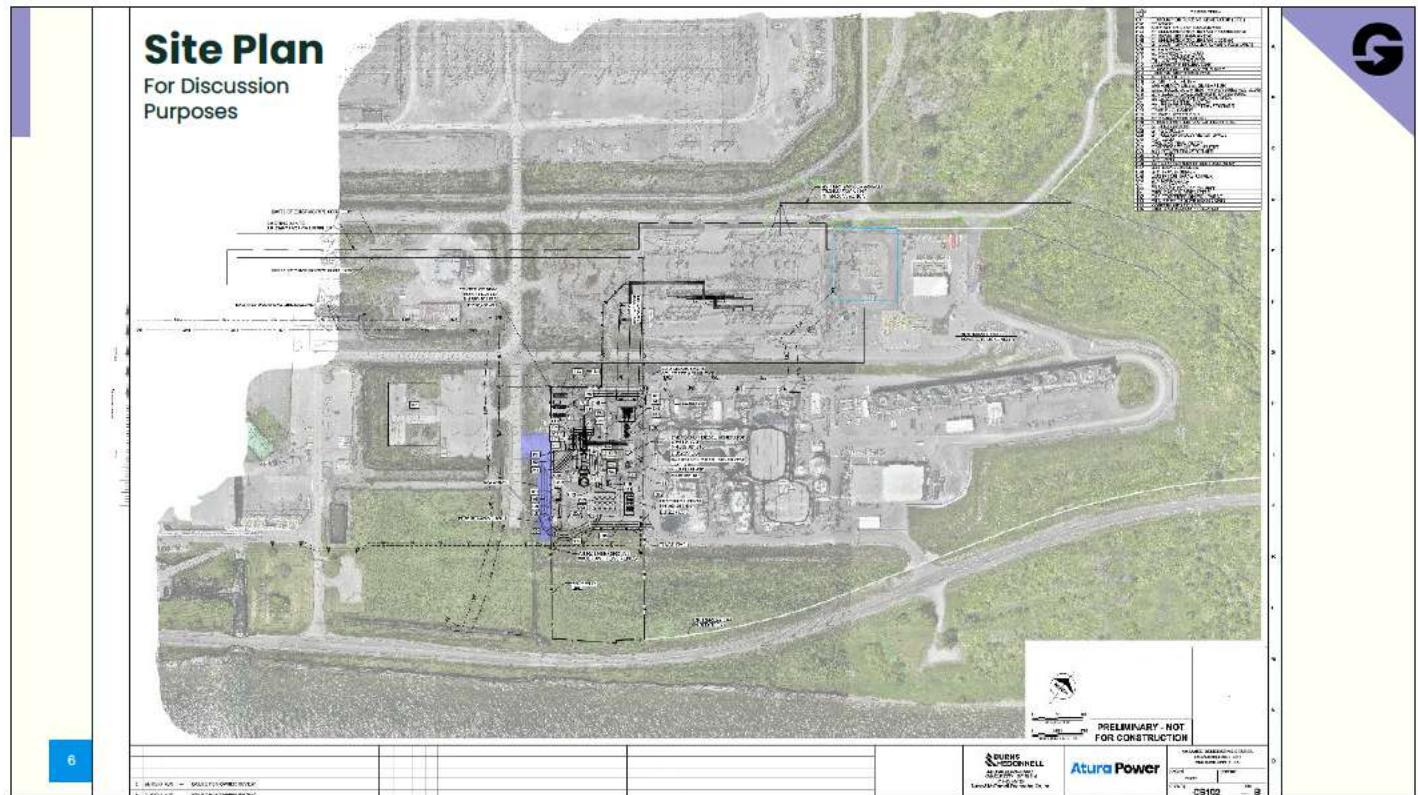
- 420 MW

Project Location

- The project will be located between the Lennox and Napanee Generating Stations
- There will be no expansion beyond the current NGS and Lennox stations' properties



Conceptual rendering of NGS Expansion



Project Schedule



Activity	Timing																				
	2023	2024				2025				2026				2027				2028			
	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
LTI Proposal Submission	 12-Dec																				
IESO Contract Award	 9-May																				
Environmental Assessment																					
Community & Indigenous Engagement	LTI	EA Engagement							Ongoing Engagement												
ECA Amendment (Air/Noise)																					
ECA Amendment (Industrial Sewage/Stormwater)																					
Site Plan Approval																					
Construction																					
Operations																					

Environmental Assessment

- O.Reg. 50/24 Electricity Projects – Category B Environmental Review
- Atura Power has voluntarily elected to undertake an Environmental Review (ER)
- The ER will include technical studies on:
 - Air Quality
 - Noise
 - Greenhouse gases
 - Stormwater
 - Industrial Sewage
 - Ecology
 - Traffic
 - Cultural Heritage
 - Archeology
 - Land Use
- The Draft ER Report (ERR) will be provided to MECP and Indigenous communities prior to the mandated Notice of Completion and 30-day public review period

Air Quality and Noise

Air Quality

- The air quality assessment will consider the following contaminants of concern:
 - NO₂ • Dustfall • PM₁₀ • SO₂ • Benzo(a)pyrene • Propanal
 - CO • TSP • PM_{2.5} • Cadmium • Ethylene
- Modelled air concentrations from existing operations and the proposed simple cycle combustion turbine will be added to existing background air quality levels and total concentrations will be compared to applicable criteria from the MECP's List of Ambient Air Quality Criteria (AAQCs) and the Canadian Ambient Air Quality Standards (CAAQS)

Noise

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

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

Industrial Sewage

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



Photo of roadside drainage ditch

Summary of Engagement Activities

Project Stage	Activity	Timing
LTI	- Indigenous Engagement - Project Webpage - Notifications of Public Community Meetings - In-person and Virtual Public Community Meetings	Sept. - Dec. 2023
ER	- Indigenous Engagement - Notice of Commencement of ER - In-person Public Meeting - Draft ERR Review - Notice of Completion of ER 30-day Review Period	Ongoing Apr. 2024 May 2024 Nov. 2024 Feb. 2025 Feb. to Mar. 2025

- ER notices are distributed to Indigenous communities, upper and lower tier municipalities, adjacent properties, agencies, and other interested stakeholders; posted on the project webpage; and published in the local newspaper
- ER documents, including public meeting materials, are posted to the project webpage
- Indigenous communities will have the opportunity to review draft Technical Study Documents

Approvals / Agency Engagement

- MECP
 - ECA Amendment (Air/Noise)
 - ECA Amendment (Industrial Sewage/Stormwater)
- Town of Greater Napanee
 - Site Plan Approval
 - Minor Variance Application
- Ministry of Citizenship and Multiculturalism
 - Stage I & II Archaeological Assessment Acceptance
- Ministry of Transportation
- Cataraqui Region Conservation Authority

Closing

Thank You

We appreciate the opportunity to share
information on the Napane Generating Station
Expansion.

Napane Generating Station Expansion Contact Info:



napaneeexpansion@aturapower.com



aturapower.com/napaneeexpansion

Contact Date: Oct 28, 2024 07:44-00:00 Method: E-mail

Activity ID: 3292

Contact People: Jon K. Orpana, Miroslav Ubovic

Topics Discussed: Noise, Consultation / Engagement, Permitting
[7:44 AM]

From: Julia.Parker@aturapower.com

Sent: Monday, October 28, 2024 7:44 AM

To: Jon.Orpana@ontario.ca; Miroslav.Ubovic@ontario.ca

Cc: michelle.wongken@avaanz.ca

Subject: FW: Napanee Generating Station Expansion

Good Morning Miroslav and Jon,

I am following up on your request for a meeting to discuss the acoustic assessment for the NGS expansion project.

Please advise of your availability.

Kind regards,

Julia Parker

+1 (289) 795-8001 | Julia.Parker@aturapower.com

[9:05 AM]

From: Miroslav.Ubovic@ontario.ca

Sent: October 28, 2024 9:05 AM

To: Julia.Parker@aturapower.com; Jon.Orpana@ontario.ca

Cc: michelle.wongken@avaanz.ca

Subject: RE: Napanee Generating Station Expansion

Hi Julia,

Please suggest a few times, or at least what week you are ready for a meeting so we can block off some time.

Thank you,

Miroslav Ubovic, P.Eng. | Manager(A), Noise Approvals | Environmental Permissions Branch | Environmental Assessment & Permissions Division |
Ministry of the Environment, Conservation and Parks

135 St. Clair Ave. W., 1st Floor, Toronto ON M4V 1P5 | T: 437-216-7610 | F: 416-314-8452 | E: miroslav.ubovic@ontario.ca

Contact Date: Oct 30, 2024 10:16-00:00 Method: E-mail

Activity ID: 3293

Contact People: Jon K. Orpana, Miroslav Ubovic

Topics Discussed: Noise, Consultation / Engagement, Permitting

From: Julia.Parker@aturapower.com

Sent: Wednesday, October 30, 2024 10:16 AM

To: Miroslav.Ubovic@ontario.ca; Jon.Orpana@ontario.ca

Cc: michelle.wongken@avaanz.ca

Subject: Napanee Generating Station Expansion - Noise

Good Morning Miroslav and Jon,

Thank you for this. Would a 1-hour timeslot within the following time frames work for you two?

Tuesday Nov 5, 11-2:30

Wednesday Nov 6, 9:30-11:30

Thursday Nov 7, 1-2:30

Thank you!

Kind regards,

Julia Parker

+1 (289) 795-8001 | Julia.Parker@aturapower.com

Contact Date: Oct 31, 2024 15:49-00:00 Method: E-mail

Activity ID: 3294

Contact People: Jon K. Orpana, Miroslav Ubovic

Topics Discussed: Noise, Consultation / Engagement, Permitting
[3:49 PM]

From: Jon.Orpana@ontario.ca

Sent: October 31, 2024 3:49 PM

To: Julia.Parker@aturapower.com; Miroslav.Ubovic@ontario.ca

Cc: michelle.wongken@avaanz.ca

Subject: RE: Napanee Generating Station Expansion - Noise

Hello Julia,

I have taken the liberty of looking at Miroslav's calendar for next week on these dates the only blank in his schedule for these days is Tuesday, November 5th at 11am-12 pm.

I will let Miroslav respond to that choice.

I am available on the 5th.

Thanks in advance.

Jon

Jon K. Orpana hear name

Regional Environmental Planner

Environmental Assessment Branch

Ministry of the Environment, Conservation and Parks

Kingston Regional Office

PO Box 22032, 1259 Gardiners Road

Kingston, Ontario

K7M 8S5

Phone: (613) 548-6918

Fax: (613) 548-6908

Email: jon.orpana@ontario.ca

[3:54 PM]

From: Miroslav.Ubovic@ontario.ca

Sent: October 31, 2024 3:54 PM

To: Jon.Orpana@ontario.ca; Julia.Parker@aturapower.com

Cc: michelle.wongken@avaanz.ca

Subject: Re: Napanee Generating Station Expansion - Noise

Thanks Jon,

If my schedule is open I will be okay.

Miroslav

Contact Date: Nov 05, 2024 11:00-11:30 Method: Virtual Meeting

Activity ID: 3309

Contact People: Pierre Godbout, Jon K. Orpana, Miroslav Ubovic

Topics Discussed: Noise, Consultation / Engagement, Permitting

The meeting was held to discuss technical considerations for obtaining an Environmental Compliance Approval (ECA) Amendment for Noise for the NGS Expansion. The ECA Amendment is expected to be submitted early in the new year, and construction is scheduled to begin in October 2025.

MECP indicated that this timeline will allow for sufficient time for MECP to complete their review before construction starts, and knowing this timeline allows the team to prepare and plan around other priorities. There was discussion about removing tonal penalties to align with acoustic audits, as well as excluding tonal penalties for expansion project transformers.

Attached File: NGS-A 2024-11-05 JOrpana MECP Meeting-3309-att.pdf

Contact Date: Feb 04, 2025 10:35-00:00 Method: E-mail

Activity ID: 4264

Contact People: Dana Cruikshank, Shannon Dennie, Shareen Han, Chris Raffael, Michael Sander

Topics Discussed: Protocols/Engagement Process, Surface/Ground Water, Consultation / Engagement, Permitting

From: Julia.Parker@aturapower.com

Sent: February 4, 2025 10:35 AM

To: Dana.Cruikshank@ontario.ca

Cc: Shareen.Han@ontario.ca; Shannon.Dennie@ontario.ca; Michael.Sander@ontario.ca; Stephen.Smith@aturapower.com; chris.raffael@ontario.ca

Subject: RE: MECP/Atura Meeting - Napane Generating Station Expansion Project

Good Morning Dana,

As a follow-up to our July 16, 2024 meeting, I am sending you the pre-ECA(ISW) application information as requested for your review for the Napane Generating Station (NGS) Expansion. This package contains the following information:

1. The NGS Expansion Stormwater Management Plan (which contains the sediment and erosion control plan) and 8 supporting drawings
2. The floodplain analysis report
3. The most recent annual report for the existing Napane Generating Station

Please find these files using the following link:

<https://www.dropbox.com/scl/fo/3ely4lflz2wurl8edxyys/AGXXRA0xtmM-y1vHZREit8Q?rlkey=vp3fgkxjqeuhee4d1fka2ysa0&st=oasuh8p&dl=0>

The project is still in the process of preparing the amendment to the industrial sewage plan and drawings and we will forward to you once they are ready.

The monitoring plans for the NGS Expansion are shown in Sections 7.3 to 7.5 of the NGS Expansion Stormwater Management Plan – this monitoring will be done in addition to the monitoring being conducted as part of the NGS ECA currently.

We are working towards submitting the ECA(ISW) application to MECP later this month in anticipation of starting work on September 1, 2025.

Thank you for your time and attention on our project, we look forward to hearing your comments.

Kind regards,

Julia Parker

+1 (289) 795-8001 | Julia.Parker@aturapower.com

Attached File: 2025-01-07_RPT-NGS Expansion_Floodplain Analysis.pdf

Attached File: NGS Effluent Performance Report 2023.pdf

Attached File: 170782CE101.pdf

Attached File: 170782CE102.pdf

Attached File: 170782CG101.pdf

Attached File: 170782CG102.pdf

Attached File: 170782CP101.pdf

Attached File: 170782CS101.pdf

Attached File: 170782CS102.pdf

Attached File: 170782CS103.pdf

Contact Date: Mar 10, 2025 08:55-00:00 Method: E-mail

Activity ID: 4419

Contact People: Contact General

Topics Discussed: LT1, Permitting

From: Stephen Smith <Stephen.Smith@aturapower.com>

Sent: March 10, 2025 8:55 AM

To: ECA Submission, MOE (MECP) <ECA.Submission@ontario.ca>

Cc: Julia Parker <Julia.Parker@aturapower.com>

Subject: Atura Power NGS Expansion ECA Amendment 20250306200951585

Good morning ECA Submissions,

Please see attached EAC Application Reference Number: 20250306200951585 and payment confirmation which was submitted on March 6th, 2025.

There are several supporting attachments that are too large to email. Is there a preferred method to send these the application reviewer or alternatively I can set up a SharePoint folder and grant access.

Please let me know.

Thank you!

Stephen Smith

Contact Date: Mar 11, 2025 13:13-00:00 Method: E-mail

Activity ID: 4420

Contact People: Contact General

Topics Discussed: LT1, Permitting

From: ECA Submission, MOE (MECP) <ECA.Submission@ontario.ca>

Sent: March 11, 2025 1:13 PM

To: Stephen Smith <Stephen.Smith@aturapower.com>

Subject: RE: Atura Power NGS Expansion ECA Amendment 20250306200951585

Hello Stephen,

Your application sent March 6, 2025, was received. Please send in the supporting documents through a format that is not password protected/requiring account registration, such as SharePoint. You may grant access to eca.submission@ontario.ca

Regards,

Application Assessment Unit

Contact Date: Mar 13, 2025 10:12-00:00 Method: E-mail

Activity ID: 4558

Contact People: Jon K. Orpana, Roberto Sacilotto

Topics Discussed: Air Quality & Emissions, Noise, Archaeology, Cultural Heritage
[10:12 AM]

From: Julia Parker <Julia.Parker@aturapower.com>

Sent: Thursday, March 13, 2025 10:12 AM

To: Orpana, Jon (MECP) <Jon.Orpana@ontario.ca>

Cc: Sacilotto, Roberto (He/Him) (MECP) <Roberto.Sacilotto@ontario.ca>; Stephen Smith <Stephen.Smith@aturapower.com>

Subject: Napanee Generating Station Expansion

Good morning Jon,

As you know, Atura Power is proposing to expand the existing natural gas-fuelled Napanee Generating Station to increase its electricity generating capacity to support year-round electricity generation in Ontario. The Napanee Generating Station Expansion (NGS Expansion) is subject to the Environmental Screening Process for Electricity Projects pursuant to Ontario Regulation 50/24, under the Ontario Environmental Assessment Act.

Atura Power has prepared the Draft Environmental Review Report which documents the results of the Environmental Screening Process undertaken to identify whether any potential environmental effects of the project would occur ('Yes' or 'No'), and if so, whether the effects can be avoided or mitigated.

Please note that due to file size, we are linking the Environmental Review Report and Appendices for your review here:

https://www.dropbox.com/scl/fo/d5uqm2k1h7432hgjl3vg0/ANpEfQNeNqG6e_RbS9apTMA?rlkey=x35wy4t20l8z3z0frtg0o57cz&st=2v4qooos&dl=0

We are also sharing this draft with Indigenous communities to offer an opportunity to review the project details, the Environmental Screening Process undertaken, and assessment findings. Atura Power is voluntarily providing this opportunity so comments can be addressed in the final report. We invite you to review the draft report and share any comments on the report via our project email address, napaneeexpansion@aturapower.com. We request that you send us your comments on or before April 11, 2025. Immediately following the comment period, we will prepare and release the final version of the Environmental Review Report in the spring.

In addition to the Draft Environmental Review Report, the following Technical Study Documents were prepared to support the Environmental Screening Process and can be provided upon request for your review:

- Air Quality and Greenhouse Gas Technical Report (Draft)
- Cultural Heritage Impact Assessment
- Natural Heritage Existing Conditions and Impact Assessment Report (Draft)
- Noise and Vibration Assessment Report (Draft)
- Stage 1 & 2 Archaeological Assessment

Thank you, and please send your project-related questions to napaneeexpansion@aturapower.com

Kind Regards,

Julia Parker

[1:37 PM]

From: Orpana, Jon (MECP) <Jon.Orpana@ontario.ca>

Sent: March 13, 2025 1:37 PM

To: Julia Parker <Julia.Parker@aturapower.com>

Cc: Stephen Smith <Stephen.Smith@aturapower.com>

Subject: RE: Napanee Generating Station Expansion

Hi again Julia,

Just following up on my VM. If we could get copies of all the supporting reports that would be appreciated as they form the basis of the entire project and if there are any concerns from the public, indigenous communities etc. we should have the full package should there be an elevation request later down the road.

Thanks in advance.

Jon

Jon K. Orpana

[1:51 PM]

From: Julia Parker <Julia.Parker@aturapower.com>

Sent: Thursday, March 13, 2025 1:51 PM

To: Orpana, Jon (MECP) <Jon.Orpana@ontario.ca>
Cc: Stephen Smith <Stephen.Smith@aturapower.com>
Subject: RE: Napanee Generating Station Expansion

Thank you for calling Jon,

We can certainly share the supporting reports with you – they will be ready for sending out on Monday.

Kind regards,
Julia Parker

[1:54 PM]

From: Orpana, Jon (MECP) <Jon.Orpana@ontario.ca>
Sent: March 13, 2025 1:54 PM
To: Julia Parker <Julia.Parker@aturapower.com>
Cc: Stephen Smith <Stephen.Smith@aturapower.com>
Subject: RE: Napanee Generating Station Expansion

Thank you!

Have a good rest of your day.

Jon

Jon K. Orpana

Contact Date: Mar 17, 2025 12:04-00:00 Method: E-mail

Activity ID: 4560

Contact People: Jon K. Orpana

Topics Discussed: Air Quality & Emissions, Noise, Archaeology, Cultural Heritage

From: Julia Parker

Sent: March 17, 2025 12:04 PM

To: Orpana, Jon (MECP) <Jon.Orpana@ontario.ca>

Cc: Stephen Smith <Stephen.Smith@aturapower.com>

Subject: FW: Napanee Generating Station Expansion - DRAFT ERR and Reports

Hi Jon,

As follow-up to our sharing the DRAFT ERR last Thursday, please find links below to the following DRAFT technical reports: archeological, cultural heritage, air quality and noise reports.

-Archeology Report: [REDACTED]
[REDACTED]

-Cultural Heritage Impact Assessment: [REDACTED]
[REDACTED]

-Air Quality and GHG: [REDACTED]
[REDACTED]

-Noise: [REDACTED]
[REDACTED]

Are there others that you would like us to share?

Thanks for your time on this, have a great day!

Kind regards,
Julia Parker

Contact Date: Mar 17, 2025 09:36-00:00 Method: E-mail
Contact People: Contact General
Topics Discussed: LT1, Permitting
[9:36 AM]

Activity ID: 4421

From: Stephen Smith <Stephen.Smith@aturapower.com>
Sent: March 17, 2025 9:36 AM
To: ECA Submission, MOE (MECP) <ECA.Submission@ontario.ca>
Subject: RE: Atura Power NGS Expansion ECA Amendment 20250306200951585

Good Morning ECA Submissions,

Please utilize the following file sharing link from our consultant Terrapex.

There is no password associated with the file but the MECP will need to enter their general email and company name.

If there are any issues please let me know.

Stephen Smith

[1:29 PM]

From: ECA Submission, MOE (MECP) <ECA.Submission@ontario.ca>
Sent: March 17, 2025 1:29 PM
To: Stephen Smith <Stephen.Smith@aturapower.com>
Subject: RE: Atura Power NGS Expansion ECA Amendment 20250306200951585

Hello,

Thank you for your submission. The Ministry's reference number for your application is 5295-DENMLJ. Please quote this number in any correspondence or inquiries regarding this application.

What's New? The Online Payment form!

Planning to submit your credit card payment by mail or fax? STOP and use this new form!

If you did not pay using the link in the original application form submission, use our new "Additional Application Fee Payments" form to pay online by credit card.

Additional Application Fee Payments - Forms - Central Forms Repository (CFR) (gov.on.ca)
Paiements additionnels liés aux frais de demande - Profil de formulaire - Répertoire central des formulaires (RCF) (gov.on.ca)
Select the application type, enter the reference number above, the applicant's name, phone number, email, and payment amount.
Save the form.

Check the "Pay Online" box, click the link, and complete the payment prompts.
We are still accepting cheques/money orders - please attach it to the completed form before mailing it in.

If your application does not require payment, or if you have already paid using the online method, no further action is needed. The Ministry will notify you if there are any questions regarding your submission.

Please note: the Ministry no longer requires a hard copy of the application package.

For any questions regarding your application and fee submission, please do not reply to this email. Instead, call 416-314-8001 / 1-800-461-6290 or email enviropermissions@ontario.ca.

Regards,
Application Assessment Unit

Appendix C6b – Correspondence with Other Agencies

Cataraqui Region Conservation Authority (CRCA) Provincial / Regional Government

Issues: Project Notice, Protocols/Engagement Process, Environment (general), Surface/Ground Water, Consultation / Engagement, Environmental Assessment, Permitting

Contact Date: Oct 25, 2024 09:10-00:00 Method: E-mail

Activity ID: 4239

Contact People: Contact General

Topics Discussed: Protocols/Engagement Process, Consultation / Engagement, Permitting

[9:10 AM]

From: mnobes@greaternapanee.com

Sent: October 25, 2024 9:10 AM

To: mlippert@mhbcplan.com

Cc: Julia.Parker@aturapower.com; Darren.Baiton@APSipd.com; michelle.wongken@avaanz.ca; dcurrie@mhbcplan.com; pat@jewelleng.ca; development@crca.ca; Trevor.Copeland@cambium-inc.com; dmartin@greaternapanee.com; Camden.Jermey@cambium-inc.com;

Pyke@malroz.com; Sadie.Bachynski@cambium-inc.com

Subject: RE: Request for Site Plan Preconsultation Meeting - Napanee Generating Station Gas Expansion Project

Hi Meghan,

Thank you for the offer, it would be helpful if you sent out a poll to the group. I've included Town reviewers on this email. When you send the poll out please include the documentation that will be reference in the meeting for the reviewers' awareness/perusal prior to the meeting.

Regarding MTO, I believe this will need to be a separate pre-consultation perhaps as they have new HCMS portal submission requirements – this would take the form of a separate pre-con meeting with MTO. I would encourage you to go through this avenue separately as MTO seems to be pushing for all submissions/requests to go through this portal.

Trevor/Sadie – I have included both of you from a noise/particulate emissions perspective for awareness. If one or both of you feel the need to attend, I'll let you organize this on Cambium's end.

Thank you,
Michael Nobes

[9:37 AM]

From: mlippert@mhbcplan.com

Sent: October 25, 2024 9:37 AM

To: mnobes@greaternapanee.com

Cc: Julia.Parker@aturapower.com; Darren.Baiton@APSipd.com; michelle.wongken@avaanz.ca; dcurrie@mhbcplan.com; pat@jewelleng.ca; development@crca.ca; Trevor.Copeland@cambium-inc.com; dmartin@greaternapanee.com; Camden.Jermey@cambium-inc.com;

Pyke@malroz.com; Sadie.Bachynski@cambium-inc.com

Subject: RE: Request for Site Plan Preconsultation Meeting - Napanee Generating Station Gas Expansion Project

Good Morning Michael,

Sounds good – I will have April Broomer of our office send out the poll with the submitted preconsultation materials attached.

Have a great day,
MEGHAN LIPPERT, BA, MAES | Planner

[2:27 PM]

From: April Broomer

Sent: October 25, 2024 2:27 PM

To: Julia.Parker@aturapower.com; Darren.Baiton@APSipd.com;michelle.wongken@avaanz.ca; pat@jewelleng.ca; development@crca.ca;

Trevor.Copeland@cambium-inc.com; Camden.Jermey@cambium-inc.com; Pyke@malroz.com; Sadie.Bachynski@cambium-inc.com;

Darius.Sokal@aturapower.com; khearne@slrconsulting.com; jtu@sentex.net; Mihir.Ved@aturapower.com;

jhodowsky@independentenvironmental.ca; nshinbin@independentenvironmental.ca; ffisl@watercom.ca; mnobes@greaternapanee.com;

jfeeney@greaternapanee.com; mlippert@mhbcplan.com; dcurrie@mhbcplan.com

Subject: Site Plan Pre-Consultation Meeting - Napanee Generating Station (NGS) Expansion

Good afternoon,

Atura Power has requested a Site Plan Pre-Consultation meeting to discuss the proposed Napanee Generating Station (NGS) Expansion and related requirements for a complete Site Plan Application under the Planning Act. Atura will provide an overview of the proposed project at the beginning of the meeting. Please find attached the proposed site plan, renderings, and original Pre-Consultation Meeting request correspondence for your review prior to the meeting. Please note MHBC Planning is assisting in coordinating this meeting on behalf of the Town of Greater Napanee.

Please use the poll below to confirm your availability
[POLL]

Kind regards,
APRIL BROOMER | Executive Assistant

[3:01 PM]

From: abroomer@mhbcplan.com

Sent: October 25, 2024 3:01 PM

To: Julia.Parker@aturapower.com; Darren.Baiton@APSipd.com;michelle.wongken@avaanz.ca; pat@jewelleng.ca; development@crca.ca; Trevor.Copeland@cambium-inc.com; Camden.Jermey@cambium-inc.com; Pyke@malroz.com; Sadie.Bachynski@cambium-inc.com; Darius.Sokal@aturapower.com; khearne@slrconsulting.com; jtu@sentex.net; Mihir.Ved@aturapower.com; jhodowsky@independentenvironmental.ca; nshinbin@independentenvironmental.ca; ffisl@watercom.ca; mnobes@greaternapanee.com; jfeeney@greaternapanee.com; mlippert@mhbcplan.com; dcurrie@mhbcplan.com
Subject: Re: Site Plan Pre-Consultation Meeting - Napanee Generating Station (NGS) Expansion

Good afternoon,

Please see the link below to download attachments. Unfortunately, they were too large and I think didn't make it through to everyone.

22357E_NGSExpansion_PreconsultationRequest_7Oct24.pdf
2024-09-30-170782CS102_NGS-ExpansionSitePlan.pdf
NGS Expansion_Photosims.pdf
2024-10-25_PRES_NGS Expansion Town Mtng_Atura_red.pdf

My apologies.

Kind regards,

APRIL BROOMER | Executive Assistant

Attached File: NGS-M 2024-10-25 Town of GNap MNobes-3265-att 1.pdf

Attached File: NGS-M 2024-10-25 Town of GNap MNobes-3265-att 2.pdf

Attached File: NGS-M 2024-10-25 Town of GNap MNobes-3265-att 3.pdf

Attached File: NGS-M 2024-10-25 Town of GNap MNobes-3265-att 4.pdf

Contact Date: Nov 05, 2024 13:30-14:45 Method: Virtual Meeting

Activity ID: 4117

Contact People: Michael Dakin, Contact General

Topics Discussed: Consultation / Engagement, Permitting

NGS Expansion Site Plan Pre-Consultation Meeting

1. Overview of Project Proposal
2. MECP Permitting requirements
3. Town of Greater Napanee approvals required
4. Land Use approval details
5. Submission requirements - servicing brief, fire protection design brief, stormwater management plan, engineering plans, geotechnical report, landscape plan, noise and vibration study, air quality assessment, hydrogeological statement, natural heritage study, archaeological assessment and ministry clearance, site plan drawings, TIS, Flood Plain analysis
Attached File: 2024-11-5_PRES_NGS Expansion Town Mtng_Atura-Finalcopyx.pdf
Attached File: 22357E_Pre-Submission Meeting Notes - Combined_27Nov24-MWK edits.pdf

Contact Date: Nov 11, 2024 10:10-00:00 Method: E-mail

Activity ID: 4240

Contact People: Contact General

Topics Discussed: Consultation / Engagement

From: mlippert@mhbcplan.com

Sent: November 11, 2024 10:10 AM

To: dcurrie@mhbcplan.com; Julia.Parker@aturapower.com; Darren.Baiton@APSipd.com; michelle.wongken@avaanz.ca; pat@jewelleng.ca; development@crca.ca; Trevor.Copeland@cambium-inc.com; Camden.Jermey@cambium-inc.com; Pyke@malroz.com; Sadie.Bachynski@cambium-inc.com; Darius.Sokal@aturapower.com; khearne@slrconsulting.com; jtu@sentex.net; Mihir.Ved@aturapower.com; jhodowsky@independentenvironmental.ca; nshinbin@independentenvironmental.ca; ffisl@watercom.ca; mnobes@greaternapanee.com; MDakin@crca.ca; jfeeney@greaternapanee.com; hcampbellgale@independentenvironmental.ca
Cc: kwills@mhbcplan.com; info@watercom.ca; brswindler@burnsmcd.com
Subject: RE: Napanee Generating Station Gas Expansion Project Site Plan Pre-Consultation Meeting

Good Morning,

As requested, please find attached a copy of the presentation provided by Julia at last week's preconsultation meeting.

With thanks,

MEGHAN LIPPERT, BA, MAES | Planner

Attached File: NGS-A 2024-11-11 CRCA-4240-att.pdf

Contact Date: Nov 12, 2024 15:43-00:00 Method: E-mail

Activity ID: 4051

Contact People: Michael Dakin

Topics Discussed: Surface/Ground Water, Consultation / Engagement, Permitting

From: MDakin@crca.ca

Sent: November 12, 2024 3:43 PM

To: mlippert@mnhbcplan.com; mnobes@greaternapanee.com

Cc: dcurrie@mnhbcplan.com; Julia.Parker@aturapower.com; pat@jewelleng.ca

Subject: RE: Napanee Generating Station Gas Expansion Project Site Plan Pre-Consultation Meeting

Hi Meghan and Michael,

I thought I'd follow up from the pre-consultation meeting last Tuesday with a brief email summarizing CRCA comments for the NGS expansion project.

Our main interests in the project are protection of surface water features (e.g. small watercourse on site), proper stormwater management and protection of drinking water sources (i.e. Lake Ontario water intake for the Town of Greater Napanee).

Surface Water Features

It's our understanding the expansion will not result in alterations (e.g. culvert crossings, realignment, etc) to the existing north-south watercourse located near the expansion site. From our review of the concept plan, there will be some grading and an access road northeast of the watercourse (within CRCA's regulated 30 m area adjacent to the watercourse). However, provided the grading in this area does not alter the watercourse channel itself and provided the slope adjacent to the watercourse is properly engineered to be stable from long-term erosion, CRCA would have no concerns with this work occurring in proximity to the watercourse and could issue necessary permits under O. Reg. 41/24 for this work.

We will ask that this be addressed at the detailed site plan submission stage.

Stormwater Management

CRCA does not require full quantity (e.g. post=pre for 2 through 100 year storm events) for runoff that will flow directly into Lake Ontario from this site provided it is demonstrated that additional runoff from the development will not adversely impact existing downstream infrastructure (e.g. culvert crossing under Highway 33, road itself), and provided there would be no other flooding or erosion issues on nearby properties and infrastructure. We expect MTO stormwater requirements will dictate design criteria for the project. We will defer to the Town, through their consulting engineer, for review of stormwater quality controls (although we do recommend enhanced (80% TSS removal) control due to the site being within the municipal Intake Protection Zone 2 (see below)).

An addendum or update to the existing NGS stormwater management report is recommended as part of the site plan control submission.

Drinking Water Source Protection

As noted, the site is located within Zone 2 of the Town's A.L. Dafoe Intake Protection Zone. Since the proposal is an expansion to an existing use within IPZ 2, there are no specific prohibitions in the applicable Cataraqui Source Protection Plan. However, best practices and risk mitigation measures will be required to be incorporated into the design and operation of the expansion if the expansion will involve any of the moderate to low drinking water threat activities identified in the plan for IPZ 2. These are listed in section 7.2.5-HR of the Source Protection Plan (available here: <https://cleanwatercataraqui.ca/studies-and-reports/cataraqui-source-protection-plan-explanatory-document/>). We recommend this policy, along with other applicable policies for A.L. Dafoe IPZ 2 be reviewed by the applicant/consultant. If the expansion will include the listed risk activities, we recommend that best practices / risk mitigation measures (e.g. spill response plan, etc.) be discussed in supporting documentation for the site plan control submission (e.g. in the stormwater management report or hydro-geological report).

This should cover the main items from CRCA's perspective. CRCA will charge review fees for our review of subsequent Planning Act application submissions (e.g. consents, minor variances and site plan control) along with fees for review of technical studies (e.g. SWM report). General information on fees can be found here: <https://cataraquiconservation.ca/pages/permit-fees>. Otherwise, contact me if you have any specific questions on the applicable fees.

I trust this should be of some assistance at this time. Please reach out if anything else is needed.

Mike

Michael Dakin RPP, MCIP
Supervisor, Development Review

Hydro One Networks Inc. (HONI)

Provincial / Regional Government

Issues: Project Notice, Protocols/Engagement Process, Land-Use, Consultation / Engagement, Infrastructure

Contact Date: May 24, 2024 09:45-00:00 Method: E-mail

Activity ID: 962

Contact People:

Topics Discussed: Land-Use, Infrastructure

From: Susan.SUN@HydroOne.com On Behalf Of SECONDARY LAND USE Department

Sent: Friday, May 24, 2024 9:45 AM

To: napaneeexpansion@aturapower.com

Cc: Department.SecondaryLandUse@hydroone.com

Subject: Hydro One Response: 20240524-NoticeOfPIC1-Napanee Generating Station Expansion

Please see the attached for Hydro One's Response.

Hydro One Networks Inc

SecondaryLandUse@HydroOne.com

[Letter Attachment indicated that there are no existing Hydro One transmission assets in the subject area]

Attached File: 2024-05-24_NoticeOfPIC1-NGS Expansion Attachment.pdf

Activity Date: May 24, 2024 09:45:00:00

File Name: 2024-05-24_NoticeOfPIC1-NGS Expansion Attachment.pdf

Activity Method: E-mail

Date Published:

Page: 1 of 1



Hydro One Networks Inc.

483 Bay Street
8th Floor South Tower
Toronto, Ontario M5G 2P5

HydroOne.com

May 24, 2024

Re: Napanee Generating Station (NGS) Expansion

Attention:
Julia Parker
Project Manager - Environmental and Municipal Approvals
Atura Power

Thank you for sending us notification regarding Napanee Generating Station (NGS) Expansion. In our preliminary assessment, we confirm there are no existing Hydro One Transmission assets in the subject area. Please be advised that this is only a preliminary assessment based on current information.

If plans for the undertaking change or the study area expands beyond that shown, please contact Hydro One to assess impacts of existing or future planned electricity infrastructure.

Any future communications are sent to SecondaryLanduse@hydroone.com.

Be advised that any changes to lot grading and/or drainage within proximity to Hydro One transmission corridor lands must be controlled and directed away from the transmission corridor.

Sent on behalf of,

**Secondary Land Use
Asset Optimization
Strategy & Integrated Planning
Hydro One Networks Inc.**

Impact Assessment Agency of Canada Federal / National Government

Issues: Project Notice, Protocols/Engagement Process, Consultation / Engagement, Operations

Contact Date: Aug 01, 2024 15:01-00:00 Method: E-mail

Activity ID: 1726

Contact People: Switchboard

Topics Discussed: Operations

From: orientationontario@iaac-aeic.gc.ca

Sent: Thursday, August 1, 2024 3:01 PM

To: napaneeexpansion@aturapower.com

Subject: Question about Napanee Generating Station Expansion Project

Hello,

The Impact Assessment Agency of Canada (IAAC) received a public notice regarding the start of the class environmental assessment process for the Napanee Generating Station Expansion proposed by Atura Power.

Please confirm the maximum nameplate capacity of the simple cycle combustion gas turbine that Atura Power proposes to add for this expansion.

Additionally, we request the maximum nameplate capacity for each of the existing gas turbines at the Napanee Generating Station.

Furthermore, IAAC understands that Atura Power is proposing, as a separate project, the construction of a battery energy storage system (BESS) at Napanee for power storage.

Please confirm whether the Napanee BESS will include any gas-fueled turbine. If so, please provide the maximum nameplate capacity of the turbine.

Please let us know if you have any questions.

Thank you,

Sita Chinnadurai
(she/her|elle)A/Project Manager, Ontario Region
Impact Assessment Agency of Canada / Government of CanadaGestionnaire de Projets par intérim, Région de l'Ontario
Agence d'évaluation d'impact du Canada / Gouvernement du Canada**Contact Date: Aug 06, 2024 09:53-00:00** Method: E-mail

Activity ID: 1727

Contact People: Switchboard

Topics Discussed: Operations

From: napaneeexpansion@aturapower.com

Sent: Thursday, August 6, 2024 9:53 AM

To: orientationontario@iaac-aeic.gc.ca; napaneeexpansion@aturapower.com

Subject: RE: Question about Napanee Generating Station Expansion Project

Hello, Sita.

Thank you for your email. We will provide you with the information you request shortly.

Best regards,

Darius Sokal
Sr. Communications & Stakeholder Relations Advisor
1415 Joshuas Creek Dr., Unit 200, Oakville, ON L6H 7G4
E: darius.sokal@aturapower.com
M: 289-795-6573

Contact Date: Aug 12, 2024 07:48-00:00 Method: E-mail
Contact People: Switchboard
Topics Discussed: Operations
[7:48 AM]

Activity ID: 1856

From: napaneeexpansion@aturapower.com
Sent: Monday, August 12, 2024 7:48 AM
To: orientationontario@iaac-aeic.gc.ca
Cc: napaneeexpansion@aturapower.com
Subject: RE: Question about Napanee Generating Station Expansion Project

Good morning, Sita.

The existing Napanee Generating Station ("NGS") has a production capacity, based on its design specifications, of 1040 megawatts (MW).

Atura Power plans to expand the electricity generation capacity of NGS by adding a simple cycle gas turbine with a production capacity of 430 MW on a site located immediately adjacent to the existing NGS site (the "Expansion Project"). Upon completion of the Expansion Project, the NGS will have a total production capacity of 1470 MW.

Atura Power's Napanee BESS project does not include a gas-fueled turbine.

Thank you, and please let me know if you have any further questions.

Darius Sokal

[9:42 AM]

From: orientationontario@iaac-aeic.gc.ca
Sent: Monday, August 12, 2024 9:42 AM
To: napaneeexpansion@aturapower.com
Subject: RE: Question about Napanee Generating Station Expansion Project

Hello Darius,

Thank you for providing us with that information.

We will let you know if we have any further questions.

Best,

Sita Chinnadurai

Contact Date: Aug 15, 2024 09:42-00:00 Method: E-mail
Contact People: Switchboard
Topics Discussed: Protocols/Engagement Process, Consultation / Engagement
From: napaneeexpansion@aturapower.com
Sent: Monday, August 12, 2024 9:42 AM
To: orientationontario@iaac-aeic.gc.ca; napaneeexpansion@aturapower.com
Subject: RE: Question about Napanee Generating Station Expansion Project

Activity ID: 2927

Thank you, Sita.

Darius Sokal

Ministry of Citizenship and Multiculturalism (MCM) Provincial / Regional Government

Issues: Project Notice, Protocols/Engagement Process, Impact Assessment Act- Federal and Provincial, Archaeology, Cultural Heritage, Consultation / Engagement, Environmental Assessment, Permitting

Contact Date: May 10, 2024 16:52-00:00 Method: E-mail Activity ID: 1071

Contact People: Karla Barboza, Laura Hatcher, Erika Leclerc

Topics Discussed: Archaeology, Cultural Heritage

From: ericka.leclerc@ontario.ca

Sent: Friday May 10, 2024 4:52 PM

To: napaneeexpansion@aturapower.com; Julia.Parker@aturapower.com

?CC: Laura.E.Hatcher@ontario.ca; Karla.Barboza@ontario.ca; Brad.Kyte@aturapower.com; Ryan.Dube@aturapower.com;

Darius.Sokal@aturapower.com; nancy.kumar@aturapower.com

Dear Julia Parker,

Thank you for sending the Notice of Commencement for the above-referenced project to the Ministry of Citizenship and Multiculturalism (MCM). Please find attached MCM's initial letter on this project.

Please do not hesitate to contact us if you have any questions.

Attached File: NGS-A 2024-05-10 MCM Response Attachment.pdf

Contact Date: Jan 07, 2025 00:00-00:00 Method: Webpage Submission

Activity ID: 4237

Contact People:

Topics Discussed: Archaeology, Permitting

Submission of Archaeology Stage 1 & 2 Report for MCM approval, as well as letter requesting expedited review by MCM. Submitted via online submission portal.

Attached File: NGSX Atura development plan submitted to MCM.pdf

Attached File: NGSX Indigenous Engagement Pkg submitted to MCM.pdf

Attached File: NGSX Stage 1 & 2 archaeo report submitted to MCM.pdf

Attached File: NGSX Supplementary Documentation Pkg submitted to MCM.pdf

Attached File: NGSX subject area map submitted to MCM.pdf

Attached File: NGS Expansion Atura letter requesting expedited review from MCM.pdf

Contact Date: Feb 12, 2025 10:55-00:00 Method: Mail

Activity ID: 4265

Contact People: Dan Minkin

Topics Discussed: Cultural Heritage, Permitting

From: rredshaw@mhbcplan.com

Sent: February 12, 2025 10:55 AM

To: Dan.Minkin@ontario.ca

Cc: Julia.Parker@aturapower.com; lindsay.jackman@avaanz.ca; michelle.wongken@avaanz.ca; dcurrie@mhbcplan.com

Subject: MCM Submission_MHBC_Heritage Impact Assessment for Napanee Generating Station Project_12February2025

Importance: High

Good morning Dan,

I hope you are keeping well! I have attached the Heritage Impact Assessment for the Napanee Generating Station project for MCM's review. Please let me know if you have any trouble accessing the document and/ or if you have any questions.

Warm regards,

RACHEL REDSHAW, MA, H.E. Dipl., CAHP | Senior Heritage Planner | Associate

Attached File: FINAL-2025-01-30-RPT-NGS Expansion_Cultural Heritage Impact Assessment_v2_Atura.docx-2.pdf

Ministry of Citizenship & Multiculturalism
Hearst Block, 9th Floor
900 Bay Street
Toronto, ON
M7A 2E1

January 7, 2025

Dear Archaeology Programs Unit,

We are requesting expedited review of the Stage 1 and 2 archaeological assessment report that was conducted for the Napanee Generating Station Expansion Project (PIF # P025-0903-2024).

This project is one of a small number of electricity projects contracted by the Independent Electricity System Operators' (IESO's) LT1 process and as such is required to be in service by May 2028. To achieve commercial operation by the IESO contract date, an important portion of work located within the boundaries investigated in this work is scheduled to go into construction no later than January 14, 2025. We would need to receive the letter of acceptance from MCM therefore by January 13, 2025.

IESO considers this project as critical in meeting Ontario's future electricity system needs, particularly as it is needed to be in service by May 2028. For these reasons, we are requesting a priority review.

Thank you,



Julia Parker
Project Manager, Business Development Team
Environmental and Municipal Permitting

Contact Date: Feb 13, 2025 15:20-00:00 Method: E-mail

Activity ID: 4266

Contact People: Karla Barboza, Erika Leclerc

Topics Discussed: Cultural Heritage, Permitting

[3:20 PM]

From: Karla.Barboza@ontario.ca

Sent: Thursday, February 13, 2025 3:20 PM

To: rredshaw@mhbcplan.com

Cc: Julia.Parker@aturapower.com; lindsay.jackman@avaanz.ca; michelle.wongken@avaanz.ca; dcurrie@mhbcplan.com; erika.leclerc@ontario.ca

Subject: RE: MCM Submission_MHBC_Heritage Impact Assessment for Napanee Generating Station Project_12February2025

Hi Rachel,

Hope this email finds you well! Thanks for sending the Heritage Impact Assessment for the above referenced project to the Ministry of Citizenship and Multiculturalism (MCM) for review and comment.

We will review and provide comments, as appropriate, by mid to late March.

In the meantime, let me know if you have any questions.

Thanks again,
Karla

Karla Barboza, MCIP, RPP, CAHP (she/her)

[3:40 PM]

From: rredshaw@mhbcplan.com

Sent: February 13, 2025 3:40 PM

To: Karla.Barboza@ontario.ca

Cc: Julia Parker <Julia.Parker@aturapower.com>; lindsay.jackman@avaanz.ca; michelle.wongken@avaanz.ca; dcurrie@mhbcplan.com; erika.leclerc@ontario.ca

Subject: Re: MCM Submission_MHBC_Heritage Impact Assessment for Napanee Generating Station Project_12February2025

Good afternoon Karla,

Thank you so much for the confirmation of receipt and providing a timeline. It is greatly appreciated.

Warm regards,

RACHEL REDSHAW, MA, H.E. Dipl., CAHP | Senior Heritage Planner | Associate

Contact Date: Feb 21, 2025 00:00-00:00 Method: E-mail

Activity ID: 4290

Contact People: Lena Motley

Topics Discussed: Archaeology

Feb 21, 2025

Lawrence Jackson (P025)

Northeastern Archaeological Associates Ltd.

PO BOX 493 Port Hope ON L1A 3Z4

Dear Dr. Jackson:

This office has reviewed the above-mentioned report, which has been submitted to this ministry as a condition of licensing in accordance with Part VI of the Ontario Heritage Act, R.S.O. 1990, c 0.18. This review has been carried out in order to determine whether the licensed professional consultant archaeologist has met the terms and conditions of their licence, that the licensee assessed the property and documented archaeological resources using a process that accords with the 2011 Standards and Guidelines for Consultant Archaeologists set by the ministry, and that the archaeological fieldwork and report recommendations are consistent with the conservation, protection and preservation of the cultural heritage of Ontario.

In reviewing this report, this ministry notes that specific standards have not been adequately addressed or addressed to the ministry's satisfaction.¹ Please file a revised report that resolves the following fieldwork and/or reporting issues:

1. Please provide a brief summary of the findings and recommendations for the previous assessment conducted within Zone 6 and include the PIF number for all previous reports that are referenced in this report (Section 7.5.8, Standard 5a; Section 7.5.7, Standard 2).
2. A historic plaque for the Upper Gap Archaeological Site is located near the project area but is not included within the background research. Please include research information from this source as per Section 1.1, Standard 1 – bullet 6.
3. In Map 6 of the report, please specify the degree of potential for the existing buildings within the legend (Section 7.8.7, Standard 1b).

A revised report must be filed by the ministry on or before May 28, 2025. Once a revised report is received, it will be reviewed and a response provided. Please note that licensees who fail to file reports by the specified report filing deadline will be in violation of the terms and conditions of their licence.

If the concerns identified are not fully addressed by the date noted above the report may be deemed incomplete or non-compliant. Incomplete or non-compliant reports may impact a licensee's record of compliance.

Please note that a licensee's record of compliance will be taken into account by the ministry at the time of any licensing decisions.

Should you require any further information regarding this matter, please feel free to contact me.

For further information and guidance, please see the Project Information Forms and the Report Review Process Bulletin, the Standards and Guidelines, and the Terms and Conditions for Archaeological Licences by visiting the ministry's website www.ontario.ca/archaeology.

Sincerely,

Lena Motley

Archaeology Review Officer

cc. Archaeology Licensing Officer

1 In no way will the ministry be liable for any harm, damages, costs, expenses, losses, claims or actions that may result: (a) from the incompleteness, non-compliance or inaccuracies of this Report; (b) from reliance on this Report; or (c) from the issuance of this letter. Further measures are required as this Report is found to be incomplete at this time.

Attached File: REVISED REPORT REQUIRED_ P025-0903-2024_V1_Feb 21, 2025.pdf

Contact Date: Mar 04, 2025 00:00-00:00 Method: Webpage Submission

Activity ID: 4291

Contact People: Other Person

Topics Discussed: Archaeology

Atura Power's Archaeology consultant submitted the revised Stage 1 & 2 Archaeology Assessment Report via MCM's online submission portal.

The report addresses MCM's comments provided on February 21, 2025.

Attached File: 2025-03-04-RPT-REVISED Archaeo Report for NGS Expansion.pdf

Contact Date: Mar 18, 2025 09:05-00:00 Method: E-mail

Activity ID: 4422

Contact People: Contact General, Lena Motley

Topics Discussed: Archaeology, Permitting

From: pastport <pastport@ontario.ca>

Sent: March 18, 2025 9:05 AM

To: northeastarch@gmail.com

Cc: Michael Nobes <mnobes@greaternapanee.com>; Julia Parker <Julia.Parker@aturapower.com>; PastPort@ontario.ca

Subject: ENTERED INTO REGISTER: Archaeological Report for P025-0903-2024 / *

Dear Lawrence Jackson,

The ministry has reviewed the Revised report for PIF P025-0903-2024 submitted by you as a condition of your licence.

This report has been deemed compliant with ministry requirements for archaeological fieldwork and reporting. It has been entered into the Ontario Public Register of Archaeological Reports. Please refer to the attached letter to see the result of this review.

Note: the ministry makes no representation or warrant as to the completeness, accuracy or quality of reports in the register.

Development proponents and approval authorities: the Ontario Ministry of Citizenship and Multiculturalism has copied you on this email as you have been identified by the consultant archaeologist as either the proponent or approval authority for this project.

Please do not reply to this e-mail. The message will be undeliverable and we are unable to respond from this address.

If you have any questions about this report email us at: Archaeology@ontario.ca

Thank you,

Lena Motley

Lena.Motley@Ontario.ca

Attached File: NGS-A 2025-03-18 MCM 4422-att.pdf

Ministry of Transportation (MTO)

Provincial / Regional Government

Issues: Procurement, Project Notice, Protocols/Engagement Process, Impact Assessment Act- Federal and Provincial, Land-Use, Consultation / Engagement, Permitting, Traffic, Visual Impacts

Contact Date: Jan 17, 2025 00:00-00:00 Method: Phone

Activity ID: 4242

Contact People: George Taylor

Topics Discussed: Land-Use, Consultation / Engagement, Permitting, Traffic

Atura Power and MTO discussed permitting requirements for the NGS Expansion. MTO confirmed comments will be provided to the Town during the Site Plan Application process and MTO Traffic Impact Study (TIS) requirements may be different than requirements from the Town. MTO is available for any further questions and may be able to provide required data for the TIS.

Contact Date: Jan 22, 2025 15:48-00:00 Method: E-mail

Activity ID: 4241

Contact People: George Taylor

Topics Discussed: Land-Use, Consultation / Engagement, Permitting, Traffic

From: Kelly.McGillivray@trans-plan.com

Sent: January 22, 2025 3:48 PM

To: George.Taylor2@ontario.ca

Cc: Julia.Parker@aturapower.com; kim.amande@trans-plan.com; mikee.bautista@trans-plan.com

Subject: Atura Power Napanee Generating Station (NGS) Expansion - Transportation Impact Study TOR

Importance: High

Hello George,

Trans-Plan has been retained by Atura Power to conduct Transportation Impact, Functional Review and Construction Traffic Management Studies for the planned addition of one gas-fired generating unit at NGS on Highway 33 in Greater Napanee.

Julia Parker, our Atura contact, has uploaded documents to the Corridor Management portal, including the Study Terms of Reference, which I have attached here for your convenience. We request that you review the document and provide any comments or questions regarding the planned scope of work. In addition, the document outlines requests for additional background data. We request your response to whether we can use the background data we have described therein, or if MTO has any additional data not yet published.

In addition to the questions outlined in the document, we request guidance on where to obtain Highway 33 as-built plans to determine existing cross-sections and right-of-way information for the designers.

Finally, I note the impending construction project on Main Street, Bath, ON (a Highway 33 Connected Link section), which will likely be concurrent with our construction project, as outlined at <https://engage.loyalist.ca/main-street-bath>. Please advise if we should keep informed of the project timing through Loyalist Township or the MTO directly.

I'm available at the email and cell phone numbers below should you have any specific questions. Kim Amande, copied here, is the Transportation Analyst who will also be working on the project and may have additional questions as we continue our analysis.

Cheers,

Kelly

Attached File: NGS-A 2024-01-22 MTO Terms of Reference-4241-att.pdf

Ontario Energy Board (OEB)

Provincial / Regional Government

Issues: Project Notice, Protocols/Engagement Process, Consultation / Engagement

Contact Date: Apr 09, 2024 18:20-00:00

Method: E-mail

Activity ID: 914

Contact People: Liam Lonergan

Topics Discussed: Consultation / Engagement

From: Liam.Lonergan@oeb.ca

Sent: Tuesday, April 9, 2024 6:20 PM

To: napaneeexpansion@aturapower.com; Julia.Parker@aturapower.com

Cc: Brad.Kyte@aturapower.com; Ryan.Dube@aturapower.com; Darius.Sokal@aturapower.com; nancy.kumar@aturapower.com

Subject: RE: Napanee Generating Station Expansion: Notice of Commencement

Dear Julia Parker:

Thank you for taking the time to contact the Ontario Energy Board (OEB) on April 8, 2024.

Thank you for the information. It has been shared with the appropriate OEB staff.

Appendix C7 – Notice of Completion

Notice of Completion of an Environmental Review Report

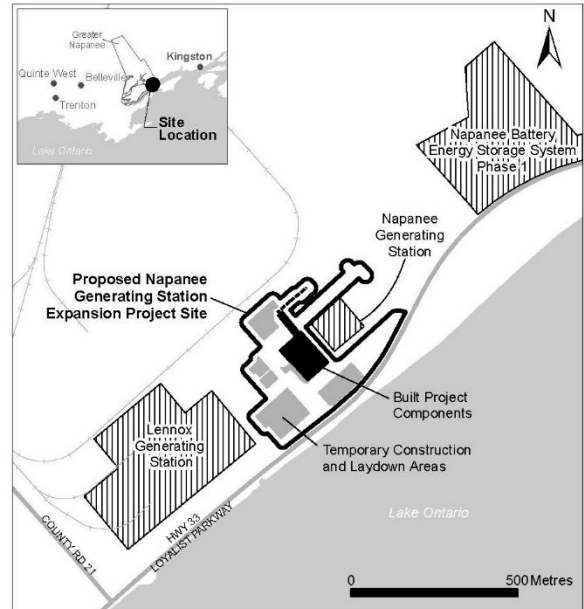
Napanee Generating Station Expansion

Portlands Energy Centre L.P. (Atura Power) is proposing to expand the electricity generation capacity of the Napanee Generating Station (NGS), an electricity project under a procurement process led by the Independent Electricity System Operator.

The NGS Expansion (the project) will include adding a simple cycle combustion turbine generator unit to provide a gross output capacity of approximately 420 megawatts of electricity to Ontario's electricity grid. The project will be located between Atura Power's existing NGS and Ontario Power Generation's Lennox Generating Station in the Town of Greater Napanee.

This notice is to communicate the completion of the Environmental Review to assess potential environmental effects of the project.

Atura Power



Environmental Review Process

Pursuant to Ontario Regulation 50/24 under the *Environmental Assessment Act*, Atura Power voluntarily elected to undergo a "Category B" Environmental Review under the Environmental Screening Process as described in the Ministry of the Environment, Conservation and Parks' (MECP) "Guide to Environmental Assessment Requirements for Electricity Projects" (2024). An Environmental Review Report (ERR) was prepared to document the assessment of potential environmental effects of the project. **The Environmental Review determined the project will not cause significant environmental effects.** Atura Power intends to proceed with the project subject to mitigation and impact management measures, and receipt of other approvals.

The ERR is available for public review and comment for 37-calendar days, from April 17 to May 24, 2025. The ERR is available on the project webpage at aturapower.com/napaneeexpansion and at the Bath Branch of the County of Lennox & Addington Libraries, located at 197 Davy St., Bath, ON, K0H 1G0.

Outstanding concerns about the project should be shared directly with Atura Power. If the matter is unable to be resolved, a written request can be submitted to the Minister of the Environment, Conservation and Parks, copying the Director of the Environmental Assessment (EA) Branch and Atura Power, to elevate the project to a comprehensive EA. Elevation requests must be submitted within the review period between April 17 and May 24, 2025, and made according to the provisions in the MECP's Environmental Screening Process for electricity projects.

Contact Information:

	Email Address	Mailing Address
Atura Power	napaneeexpansion@aturapower.com	1415 Joshuas Creek Dr., Unit 200, Box 2 Oakville, ON L6H 7G4
Minister of the Environment, Conservation and Parks	minister.mecp@ontario.ca	777 Bay St., 5 th Floor Toronto, ON M7A 2J3
Director, Environmental Assessment Branch	EABDirector@ontario.ca	135 St. Clair Ave. W., 1 st Floor Toronto, ON M4V 1P5

Comments and information regarding this project are being collected in accordance with the *Freedom of Information and Protection of Privacy Act* for the purpose of meeting environmental assessment requirements.

Atura Power