Atura Power

Halton Hills Generating Station Expansion

Minutes of Public Community Meeting on Tuesday, October 24, 2023

NOVEMBER 2023

Land Acknowledgement

Atura Power respectfully acknowledges that the land that Halton Hills sits on is the ancestral land of many generations of Indigenous nations.

Today, this land continues to be home to many Indigenous peoples, including the Mississaugas of the Credit First Nation, part of the Anishinaabe Nation that extends from the Niagara peninsula across Hamilton, Halton and Toronto to the Rouge River Valley, the Six Nations of the Grand River, the Haudenosaunee and the Métis, as well as non-Indigenous settlers from a variety of backgrounds. As a community, we have a shared responsibility for stewardship of the land that we live and work on.

Atura Power is committed to fostering positive and mutually beneficial relationships with Indigenous peoples and communities across Ontario, and working toward respective community goals and objectives in peace, respect and friendship.

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Glossary of Terms

- AODA Accessibility for Ontarians with Disabilities Act
- BESS...... Battery Energy Storage System
- EA Environmental Assessment
- ECA..... Environmental Compliance Approval
- IESO...... Independent Electricity System Operator
- HDI Haudenosaunee Development Institute
- HHGS..... Halton Hills Generating Station
- LT1 Long-Term 1
- MNO...... Métis Nation of Ontario
- O.Reg..... Ontario Regulation
- Q&A..... Question-and-Answer
- RFP..... Request for Proposal

1. Introduction

1.1 Procurement Process

The Ontario Independent Electricity System Operator (IESO) is implementing procurement processes to secure new electricity resources that could be in service by 2027-2028. Atura Power has qualified in IESO's Long-Term 1 (LT1) procurement process and will be submitting a proposal for the Halton Hills Generating Station (HHGS) Expansion project, which will be able to provide up to 265 megawatts of electricity output to Ontario's power grid.

The proposed project will be located at the existing HHGS between Steeles Ave. and Highway 401 in the Town of Halton Hills, Ont. A map of the project location is provided in **Figure 1**.



Figure 1: Halton Hills Generating Station Expansion Project Location

This document provides a summary of the minutes of the virtual public community meeting that was held for the HHGS Expansion project on Tuesday, October 24, 2023. The meeting minutes meet the IESO's LT1 Request for Proposal (RFP) requirements as part of Atura Power's proposal submission.

1.2 IESO Requirement

This meeting minutes document was created pursuant to Section 2.1(f)(i)(B) of the IESO LT1-RFP which states that a copy or summary of the minutes of each public community meeting held as part of the LT1 process is made available to the public. The minutes must document that the public community meeting included:

- a description and display of:
 - (1) the legal name and contact information of the Proponent.
 - (2) the name, Nameplate Capacity and generating or storage technology of the Long-Term Reliability Project; and
 - (3) a scale map showing the boundaries of the Project Site, location of the Connection Point and approximate location of the Connection Line; and
- a question-and-answer opportunity where members of the public have an opportunity to ask questions to the Proponent in a manner accessible to all other members of the public attending the meeting.

(IESO, LT1-RFP, September 29, 2023)

To address these IESO requirements and provide a detailed account of the public community meeting, this meeting minutes document includes:

- Section 2 Notification Methods describes how the community was notified about the public community meeting
- Section 3 Summary of the Public Community Meeting outlines details of the meeting including the time, location, and general format
- Section 4 Summary of Questions and Answers provides a summary of questions asked by the meeting attendees and the answers given by the project team
- Section 5 Project Timeline & Next Steps highlights the project timeline and Atura Power's commitment to continued engagement of the Indigenous communities, the public, the local municipalities and any other potentially interested parties

Specifically, the presentation that was delivered at the public community meeting addresses (1), (2) and (3) of IESO's requirements stated above and can be found in **Appendix A**. **Section 4** provides a summary of the questions-and-answers (Q&As) session that occurred following the meeting's presentation as well as questions heard during the course of the public community meeting.

2. Notification Methods

Atura Power used a variety of methods that both meet and go beyond the IESO's LT1 engagement requirements to notify and connect with Indigenous communities, the public, the local municipalities, and any other potentially interested parties about the public community meeting. In accordance with the IESO's public and Indigenous community engagement requirements, Atura Power developed a project webpage and distributed notification to adjacent property landowners. Additionally, to further engage with the local community, Atura Power advertised the public community meeting in the local newspaper and hand delivered project notices.

Direction on how to contact the project team if assistance was needed to attend the public community meeting or view meeting materials was provided in all notification methods.

2.1 Project Webpage

Atura Power published a project webpage (<u>www.aturapower.com/haltonexpansion</u>) to provide key information about the project to the public. The webpage was made publicly available on Friday, October 6, 2023, and pursuant to the IESO LT1 requirements it will remain live until such time the Proponent is notified of the outcome of the LT1 RFP.

Along with this meeting minutes document, the webpage contains the name of the project, its nameplate capacity and what type of generation technology the project is. It provides Atura Power's name as the proponent of the project, as well as the company's contact information. The webpage contains a scale map that highlights the boundaries of the project site, and where the connection point and connection line of the project are located. The webpage contains information about the notice of the public community meeting, a copy of the Public & Indigenous Community Engagement Plan, the project timeline, and a contact form. A screenshot of the webpage is provided in **Appendix B**.

2.2 Notification Letter

Pursuant to IESO's LT1 process, letters providing notification of the public community meeting were delivered by means of registered post, courier, or email to potentially interested Indigenous communities, the local municipalities, and landowners of properties adjacent to the proposed project site more than 15 days in advance of the public community meeting.

2.2.1 Landowner & Municipal Notification Letter

Notification letters were sent to each property owner located adjacent to the boundaries of the properties that constitute the project site and to the chief administrative officers of the local municipalities. Letters were distributed via Canada Post registered mail on Friday, October 6, 2023. An example of the letter that was sent to landowners and municipalities can be found in **Appendix C**.

2.2.2 Indigenous Community Notification Letter

The IESO's LT1 RFP mandates that project proponents must engage with Indigenous communities on whose lands the project site is located, either fully or partially. Atura Power is taking a proactive approach by engaging with communities that may have an interest in the project as part of the LT1 engagement process. The following communities were notified about the public community meeting by Atura Power based on the location of the project site:

- Haudenosaunee Development Institute (HDI);
- Métis Nation of Ontario (MNO);
- Mississaugas of the Credit First Nation; and
- Six Nations of the Grand River.

Notification letters to Indigenous communities were sent on Friday, October 6, 2023, by either email or courier to the community depending on their individual preference(s) for engagement. An example of the letter that was sent to these Indigenous communities can be found in **Appendix D**.

2.3 Newspaper Notice

Though not a requirement of the IESO's LT1 RFP, a project notice was created and placed in the Halton Hills Today online newspaper on Friday, October 13, 2023, to notify the public at large about the public community meeting. An example of the project notice, and a screenshot of the notice posted on online newspapers are provided in **Appendix E**.

2.4 Hand Delivery of Project Notice

Project notices were hand delivered on Tuesday, October 10, 2023, to residents and businesses within 100 metres of the project property parcel, as well as those on the

HHGS Upgrades project contact list. Though not a requirement of the IESO's LT1 RFP, this was done to further ensure community members were notified about the public community meeting. The hand delivery notification location map can be found in **Appendix F**. Due to the concurrent timing of the HHGS Efficiency Upgrades Notice of Completion of a Screening Report, both notices for the HHGS Expansion and HHGS Efficiency Upgrades were hand delivered together by project team members to streamline engagement with local residents¹.

^{1.} For more information on the HHGS Efficiency Upgrades, please visit <u>aturapower.com/haltonupgrade</u>.

3. Summary of Public Community Meeting

On Tuesday, October 24, 2023, Atura Power held a virtual public community meeting to engage with the public about the project, answer questions regarding the project and fulfill IESO's engagement requirements. The sections below provide the details about the public community meeting, format, and materials.

3.1 Meeting Details

The public community meeting was held on Tuesday, October 24, 2023, from 6:30 p.m. to 7:30 p.m. Eastern Time on Microsoft Teams Live Events. Throughout the evening, attendees were encouraged to ask questions and provide feedback to Atura Power either during the meeting or via the project-specific email address (haltonexpansion@aturapower.com). A screenshot of the event is included below in **Figure 2**.



Figure 2: Screenshot of Public Community Meeting

3.1.1 Attendance

The meeting was attended by 26 individuals. Attendees joined as anonymous participants but had the option to provide their names when they submitted questions to the project team.

3.2 Meeting Format and Materials

3.2.1 Meeting Format

The virtual public community meeting was hosted on Microsoft Teams Live. Attendees joined the meeting via a live link that was provided on the project webpage. Project team members gave a presentation to describe the project which was followed by a Q&A period. Attendees were able to submit questions to the project team via the Microsoft Teams Live Events Q&A function. The project team responded to questions that were project specific. A summary of the Q&A is provided in **Section 4**.

3.2.2 Meeting Materials

The public community meeting material comprised of a presentation deck (see **Appendix A**). The presentation included the legal name and contact information for Atura Power, a description of the project, including the name of the project, nameplate capacity, type of technology proposed, and a map of the boundaries of the project site, connection point and transmission line.

A copy of the presentation deck was made available on the project webpage in a format that complies with the *Accessibility for Ontarians with Disabilities Act* (AODA) following the public community meeting.

4. Summary of Questions and Answers

Pursuant to the IESO requirements, Atura Power provided an opportunity for Q&As during the public community meeting where attendees could ask Atura Power questions.

Table 1 to **Table 6** are a summary of questions received from attendees during the public community meeting and Atura Power's responses. Questions have been edited for clarity and consistency.

Table 1:	Summary	of Questions a	and Reponses –	Emissions
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Question / Comment	Atura Power Response		
Are there any safety or environmental concerns including noise, air quality, and contamination?	The HHGS has an Environmental Compliance Approval (ECA) which allows the HHGS to operate and emit within parameters set by the province of Ontario that protect human health and the environment. This requires monitoring emissions continuously. We measure emissions from the point source on the stack and report to provincial and federal regulators. For the HHGS Expansion project, it would trigger Ontario Regulation (O.Reg.) 116/01 under the <i>Environmental Assessment Act</i> , meaning the project will undergo an environmental screening process if awarded a contract under the IESO. The screening process would assess environmental components including noise and air quality, as well as social concerns. Engaging Indigenous communities, the local community, agencies, and other interested parties is a key part of Environmental Assessment (EA) process.		
	If the HHGS Expansion moves forward, Atura Power will amend the current ECA that is based on the current HHGS structures and process.		
Is methane monitored for leakage from the HHGS?	Yes. We take methane leakage seriously from environmental and health and safety perspectives. Monitoring is in place though there is minimal piping at the HHGS that would be potentially vulnerable to leakage.		
Will the ongoing refurbishment of the nuclear capacity mean that the natural gas plant will be called on more often? Media reports suggest that the plant is operating an average of 21 out of 24 hours daily. This impacts local air quality more than the community was led to expect when initially constructed.	Our future rate of operations cannot be predicted and are determined by dispatch requests from the systems operator, the IESO, to operate. Electricity output varies from day to day and season to season. The unique role that natural gas generation plays means that sometimes the plant is not needed to operate, while other days it operates for short periods to capture peaks. Some days it needs to operate for longer periods of time, like overnight. These longer runs are needed when there is high energy demand, and a higher demand than what renewables can supply. Our responsibility is to be available to meet that demand, with the IESO dispatching our generating station as needed.		

Question / Comment	Atura Power Response
What is the project lifetime of this unit? What alternatives did Atura Power look at before proposing this expansion?	The IESO contracts have procurement terms. Nominal contract time lasts until 2035 but could extend until 2040. In terms of alternatives, many different alternatives have been advanced, including battery energy storage system (BESS) facilities at several different locations. HHGS was chosen for gas expansion because of its proximity to existing critical electricity transmission and natural gas supply infrastructure on site or nearby.
Is there any plan to use this project to charge the Napanee BESS?	The Napanee BESS site is located in Napanee, Ont. and is not related to the HHGS Expansion project. There are currently no plans to use any specific facilities to charge the Napanee BESS.
Can you provide more detail on the expansion layout and phasing?	A map of the site layout is found in Slide 5 of the public community meeting presentation on the project webpage (<u>aturapower.com/haltonexpansion</u>).
	The project facility will be located in the yellow box, while the green box represents the existing HHGS. The expansion project will supply the new gas turbine as well as the existing one. The brown shape identifies areas that will be used during construction, and the yellow represents the generating technology that will be added: one gas turbine and generator. The black dotted line represents the electricity connection to Ontario's power grid through the existing HHGS switchyard. The pink shape is site access off Steeles Ave., and the orange identifies a facility parking lot.
	The project will follow planning phases such as permitting, construction, and operations like any other project.
When does construction start and how long will it take to build?	Construction is targeted to start in 2025. Project construction will take approximately two years to complete, and the facility will be operational in 2028.

Question / Comment	Atura Power Response
Will the project affect roads and traffic?	If the project is awarded, there will be a detailed traffic study as part of the permitting process. We do not see the potential for any significant change in traffic.
Why was this site selected?	The site was selected because it is close to key parts of the electricity transmission and natural gas distribution systems.

Table 3: Summary of Questions and Reponses – Engagement

Question / Comment	Atura Power Response
How can I stay updated on the project?	Project updates will be available on the project webpage
	(aturapower.com/haltonexpansion). If project approval is received, engagement
	will continue with the public, stakeholders, and local Indigenous communities,
	including providing notification of the next phases and engagement
	opportunities for the project.
Which Indigenous groups or individuals	All project engagement materials are found on the project webpage,
did Atura Power consult with for this	aturapower.com/haltonexpansion, including the Public & Indigenous Community
project and are provided comments	Engagement Plan. There are different processes for engaging Indigenous
publicly available?	communities and some details will not be publicly available.
Where can I find the public community	The presentation is posted on the project webpage
meeting presentation?	(aturapower.com/haltonexpansion). The presentation is compliant AODA
	standards.
When will you present to council and	Part of the LT1 procurement process includes consulting with local councils and
what Council resolutions is Atura	requires a resolution of support from the municipality on which the project is
Power seeking?	located. We will introduce the project to Council on October 30, 2023.

Table 4:	Summary o	f Questions	and Reponses	– Adjacent Lands
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Question / Comment	Atura Power Response
Will this project have any adverse effects to the adjacent landowners?	Atura Power does not anticipate the project to introduce any new encumbrances to adjacent lands. The EA process will assess potential impacts, identify mitigation measures, and engage directly with adjacent landowners.
Will construction and operation laydown areas be within the existing footprint of the HHGS or will Atura Power be looking to utilize adjacent lands?	Yes, laydown and construction will all take place within the existing HHGS property.
Is there a required buffer from such facilities to adjacent uses in the event of an emergency?	No buffer is required in case of the event of an emergency. Any emergency would be contained within the site.
Does this project require changes to land use and zoning on adjacent lands? Will there be new setbacks affecting the adjacent lands?	The new expansion will be constructed on the existing HHGS site and does not require zoning or land use changes. There are no new setbacks associated with this expansion that would affect adjacent lands.
Will the project have any effects on the surrounding/adjacent lands?	No, the land already belongs to Atura Power and there will not be any expansion beyond the existing site.
Will this project restrict operating hours of businesses in the area?	No, this project will not restrict operating hours of businesses in the area. The expansion will operate similarly to the existing HHGS and should not affect businesses. The HHGS and its expansion will continue to supply reliable power.

Table 5:	Summary	of Questions	and Reponses	– Hydrogen	Technology
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Question / Comment	Atura Power Response
What is clean hydrogen?	Atura Power plans to produce green hydrogen at its Niagara Hydrogen Centre in Niagara Falls, Ont. The hydrogen will be produced using renewable hydroelectricity.
Will this hydrogen turbine be replacing an existing unit, or is it a new additional unit?	It will be a new combustion turbine generator unit, located west of the existing HHGS on land owned by Atura Power.
Will Atura Power be generating hydrogen on-site to use with this expansion?	No, hydrogen will not be generated on site at this time. There are plans to expand this and add electrolyzers to produce hydrogen energy.
Will this turbine only use hydrogen, or will it use a combination gas/hydrogen?	We will be using hydrogen in the existing turbines to de-carbonize the natural gas-fuelled power plant. This project will not initially be powered by hydrogen, rather by natural gas. We will be exploring the feasibility of using hydrogen in all the turbines in the future.
Is there a hydrogen source already identified, and is there a firm commitment to use hydrogen as a fuel source?	Yes, once complete, the Niagara Hydrogen Centre will produce the green hydrogen that will be blended into the fuel in the station's existing turbines.
If the new gas hydrogen turbine is successful, would it then be possible to convert the other turbines to also accept hydrogen?	Atura Power will explore the feasibility of converting all the HHGS turbines to consume hydrogen once we analyse the data and performance of our initial hydrogen blending project.
How would hydrogen be transported to the site? Would that not increase truck traffic? ²	Atura Power will transport green hydrogen to the HHGS by transport trucks. A traffic impact analysis is part of the project assessment plan.

^{2.} Question asked during the public community meeting but did not receive response at the time due to time constraints.

Table 6:	Summar	of Questions	and Reponses -	- Other
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Question / Comment	Atura Power Response
What is the total project number of hours for monthly usage for this unit?	We are not able to determine this. Generation is typically dispatched by the IESO as needed. This unit will be identified as a "peaking unit", meaning it is one of the last resources that would be scheduled to operate.
What is the benefit to the local community?	We will continue to use and expand the existing industrial site. We will also provide a reliable energy supply to a growing area, and support reliability of the power grid overall, as well as supporting Ontario's electrification plans and the province's path to a net-zero future. Other benefits to the Town of Halton Hills can be discussed with the town council and staff.
How does car electrification and electrical home heating through heat pumps impact the demand with daily variation and seasonal differences? ³	Electric vehicles and heat pumps will increase demand for electricity. Atura Power's proposed gas expansion project is part of the solution to meet this growing energy demand that decarbonization through electrification creates.

^{3.} Question asked during the public community meeting but did not receive response at the time due to time constraints.

5. Project Timeline and Next Steps

Atura Power is committed to continuing to engage with Indigenous communities, members of the public and stakeholders as the project advances. The proposal to the IESO will be submitted in December 2023 for a long-term capacity contract. If successful, Atura Power will proceed with the planning, engineering, and construction of the project in 2025 to bring the project online by 2028. This timeline can be seen in **Table 7**.

Activity	Timeline
LT1 Proposal Submission	December 2023
IESO Contract Offer Announcement	May 2024
Target Construction Start	2025
Operations	2028

Table 7: Project Timeline

Atura Power will complete a project-specific EA process and obtain permitting and planning approvals prior to construction. Engagement will continue throughout this phase and is fundamental for obtaining the necessary authorizations needed to construct the project. The EA phase will provide additional opportunities for Indigenous communities, the public, the local municipalities and any other potentially interested parties to participate in the development of the project.

Atura Power is dedicated to developing the HHGS Expansion in a manner respectful to the local community, the environment, and the traditional way of life of Indigenous peoples. We are available to discuss any questions and will ensure that feedback received is considered. Please feel free to contact us at <u>haltonexpansion@aturapower.com</u>. For further information about the project, visit <u>www.aturapower.com/haltonexpansion</u>.

Appendix A

Meeting Presentation



Atura Power

Halton Hills Generating Station Expansion

Public Community Meeting

An opportunity to learn about the proposed project and share feedback.

Tuesday, October 24, 2023



Order of Events

Agenda

- 1. Introduction and Land Acknowledgement
- 2. Project and Proponent Information
- 3. Next Steps and Project Timeline
- 4. Question and Answer Period
- 5. Closing Comments







Chat function is available for questions



Atura Power respectfully acknowledges that the land that Halton Hills sits on is the ancestral land of many generations of Indigenous nations.

Today, this land continues to be home to many Indigenous peoples, including the Mississaugas of the Credit First Nation, part of the Anishinaabe Nation that extends from the Niagara peninsula across Hamilton, Halton and Toronto to the Rouge River Valley, the Six Nations of the Grand River, the Haudenosaunee and the Métis, as well as non-Indigenous settlers from a variety of backgrounds. As a community, we have a shared responsibility for stewardship of the land that we live and work on.

Atura Power is committed to fostering positive and mutually beneficial relationships with Indigenous peoples and communities across Ontario, and working toward respective community goals and objectives in peace, respect and friendship.



About Atura Power

Atura Power's Fleet of Generation Assets



Comments or questions can be sent to: haltonexpansion@aturapower.com

Community Outreach and Support

Committed to Supporting the Halton Hills Community

Atura Power annually donates thousands of dollars to local charities and organizations including:

- Georgetown Hospital Foundation
- Halton Learning Foundation trades / engineering scholarships
- More than 800 healthy food packages to schools via Food4Kids
- Youth Leadership Program
- Lions Club Santa Clause Parade
- Free public skating at local arenas



Atura

FOOD DRIVE

X-Ray Waiting Room

With sincere gratitude for

the generous support of

Atura Power

Halton Hills Generating Station

Comments or questions can be sent to: haltonexpansion@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 system needs and IESO forecasts that an additional 4,000 megawatts (MW) are needed by the end of the decade.

The IESO is implementing procurement processes to secure new electricity resources that could be in service by 2027-2028.

Atura Power qualified for IESO's Long-Term 1 (LT1) procurement process.

Halton Hills Generating Station Expansion project is part of Atura Power's efforts to increase Ontario's electricity supply, support grid reliability, and help get to net-zero.



GTA West (Peel/Halton) Electricity Needs

Halton Hills Generation Station Provides Local Electricity Supply

Electricity demand growth within the GTA West region has been steady over the last five years, largely driven by expanding urban boundaries and intensifying urban areas^{1.}

GTA West electricity demand is forecasted to grow to 3,500 MW by 2031 from 3,000 MW today, an increase of 500 MW, or 16%^{1.}

The Halton Hills Generating Station Expansion location will supply electricity where it is needed without driving future transmission system reinforcement.





Supply Mix

Combination of Electricity Storage and Natural Gas

The IESO wants to meet the 4,000 MW electricity system need through 2,500 MW of electricity storage and 1,500 MW of natural gas generation.

Electricity storage and natural gas generation provide complementary functions.

Electricity Storage:

- Improves electricity system efficiency by shifting overnight renewable electricity production to daytime periods when it's most needed
- Supplies grid peak demand for up to four hours

Natural Gas Generation:

- Backs-up electricity for longer periods of time to ensure reliability in all conditions including during extreme weather and periods of low wind and solar generation
- Halton Hills Generating Station Expansion is expected to operate less frequently than electricity storage and will only operate when peak needs exceed four hours (after electricity storage depletes)



Natural Gas Synergy with Wind and Solar

Natural Gas Backs Up Wind and Solar Generation

Wind and solar generation are important resources and will continue to play an increasing role in supplying clean electricity. However, other resources are needed to maintain system reliability.

It's common to have a week or more of low wind or overcast conditions so it's critical to have resources available that can generate electricity during those periods.

July 1 to 10, 2023, was a period of consistently low wind and Ontario's ~4,900 MW of wind generation operated at an average of 426 MW - roughly nine per cent of nameplate capacity – during three of the top six electricity demand hours of 2023.

Natural gas generation operates regardless of weather conditions to ensure system reliability and supports wind and solar generation in the electricity system.

Natural Gas Operation

Natural Gas Backs Up Wind and Solar Generation



Consider two high electricity demand days with different weather conditions:

- January 27th had high wind generation and gas generation was limited
- July 4th had low wind generation and gas generation was needed
- July 4th had the sixth-highest peak hourly load of 2023 and gas generation prevented blackouts

Electricity Storage Operation

Electricity Storage Optimizes Other Generation



Consider the same January 27th with high wind generation:

- IESO's planned 2,500 MW/10,000 MWh of electricity storage would reduce the amount of natural gas generation required to serve the load by more than 50 per cent
- The January 27th generation mix without storage is 95 per cent emissions free, and adding storage further reduced emissions, resulting in a 97 per cent emission-free generation mix



Ontario Electricity in a Global Context

World Leader in Clean Electricity Supply

Ontario has one of the cleanest electricity systems in the world after eliminating coalfired generation in 2014.

Ontario's electricity system is about 90 per cent emissions-free (2022).



Notes:

Based on actual 2019 generation for Ontario, USA, UK, France & Germany, and 2018 generation for Canada.

CO₂ emission intensity estimates for inregion generation only; CO₂ from imports and life-cycle emissions not included.

Renewable excludes hydro and included wind, solar, biofuels and geothermal; small brown portion is oil.

CO₂ emissions intensity estimates calculated assuming emissions of 450 gCO₂e/kWh for gas, 800 gCO₂/kWh for oil and 900 g/kWh for coal.

Comments or questions can be sent to: haltonexpansion@aturapower.com

Electricity is the Lowest Carbon Energy Source

Provides 24 Per Cent of Ontario's Energy but Only Two Per Cent of GHGs



Electricity supplies 24 per cent of end-use energy in Ontario but only contributes two per cent of overall greenhouse gas (GHG) emissions.

Converting other sectors to electricity ('electrification') is a key way to reduce overall emissions.

Comments or questions can be sent to: haltonexpansion@aturapower.com

Example Benefit of Electrification

Electric Vehicles Emit 60-97% Less CO₂ than Gasoline Cars

Electric vehicles (EVs) substantially reduce CO₂ emissions.

An EV charged with the Ontario average generation mix would release 97 per cent less CO₂ compared to a gasoline-powered vehicle.

The same EV, charged only with natural gas-generated electricity, would still release 60 per cent less CO₂ than a gasoline car.

Fuel Source	CO ₂ Emissions (kg CO ₂ e/100 km)	% Reduction in CO ₂ Emissions
Gasoline	17.16	0%
Electric – Powered by Ontario Average Generation Mix	0.45	97%
Electric – Powered by Combined Cycle Natural Gas Generator	6.94	60%

Source: IESO Natural Gas Phase Out Study Data Tables, based on 2022 Hyundai Kona with a gasoline model efficiency of 7.4 litres/100 km, electric model efficiency of 17.4 kWh/100 km, combined cycle natural gas generation emission intensity of 0.4 kg CO₂e/kWh and Ontario average electricity emission intensity of 0.03 kg CO₂e/kWh.



Project Description & Location

Project Benefits

Provides local supply to growing area to reduce need for transmission upgrades. Hydrogen ready turbine facilitates future energy transformation.

Project Capacity

Up to **265 MW** of electricity output.

Project Location

Located within the existing Halton Hills Generating Station boundary.

No expansion outside of zoned area.





Comments or questions can be sent to: haltonexpansion@aturapower.com

Activity	Timeline
LT1 Proposal Submission	December 2023
IESO Contract Offer Announcement	May 2024
Target Construction Start	2025
Operations	2028

Atura Power will complete a project-specific Environmental Assessment process and obtain necessary permits and approvals prior to construction.

Indigenous and public engagement will remain a priority and continue during the next phase of the project.



Next Steps

- Meeting materials, including a summary of questions and responses, will be posted to the project webpage
- Presenting to Halton Hills Council on Oct. 30th
- Halton Hills Generating Station Expansion LT1 proposal will be submitted to the IESO in December



The Halton Hills Generating Station has an important role to play in powering Halton Hills today and helping us transition to tomorrow's carbon-free economy.

- Ontario has significant energy needs today and they're growing as we move towards electrification
- Electricity generated at Halton Hills Generating Station is critical to ensure grid reliability and stability during peak demand periods and backing up wind and solar

Question & Answer Period

We now welcome your questions or comments







Thank You

Email the project contact or visit the project webpage for more information.



Email: haltonexpansion@aturapower.com



Webpage: aturapower.com/haltonexpansion





Appendix B

Webpage Screenshot



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Atura Power

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Halton Hills Generating Station Expansion

Project overview

Atura Power, a subsidiary of Ontario Power Generation (OPG), is planning to expand the electricity generating capacity of its Halton Hills Generating Station (HHGS) in the Town of Halton Hills, Ont. The proposed Halton Hills Generating



Appendix C

Letter to Landowners and Municipalities



Atura Power

[Date]

[Recipient] [Address] [Address]

Dear Neighbour,

You are invited to a virtual public community meeting for the Halton Hills Generating Station Expansion

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, a subsidiary of Ontario Power Generation, is proposing to expand its Halton Hills Generating Station's capacity to support year-round electricity generation capacity in Ontario. This project is part of the Long-Term Request for Proposals (LT1 RFP) led by the Independent Electricity system Operator (IESO) and would be located at the existing Halton Hills Generating Station between Steeles Ave. and Highway 401 in the Town of Halton Hills, Ont.

The proposed project includes:

- Adding a hydrogen-ready simple cycle combustion turbine generator unit.
- An operational output of up to 265 megawatts (MW) of electricity to Ontario's power grid.

Atura Power is currently engaging the public and Indigenous communities in support of the IESO's engagement requirements. As a neighbouring landowner, we invite you to join us at our upcoming virtual public community meeting to learn more about this project.

	Date:	Tuesday, Oct. 24, 2023	
How to	Time:	6:30 to 7:30 p.m. Eastern Time	
Join	Project Webpage:	aturapower.com/haltonexpansion	

You can access the link to join the virtual public community meeting on the project webpage. If you require accommodation related to the virtual public community meeting, please contact the project team by sending an email to <u>haltonexpansion@aturapower.com</u>. If you are unable to participate, meeting materials will be posted on the project webpage following the meeting.

Sincerely,

Julia Parker

Julia Parker Project Manager – Environmental and Municipal Approvals Atura Power

Appendix D

Letter to Indigenous Communities



1415 Joshuas Creek Dr., Unit #101 Oakville, Ont. L6H 7G4 aturapower.com

[Date]

Atura Power

[Recipient] [Address] [Address]

You are invited to a virtual public community meeting for the Halton Hills Generating Station Expansion

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, a subsidiary of Ontario Power Generation, is proposing to expand its Halton Hills Generating Station's capacity to support year-round electricity generation capacity in Ontario. This project is part of the Long-Term Request for Proposals (LT1 RFP) led by the Independent Electricity system Operator (IESO) and would be located at the existing Halton Hills Generating Station between Steeles Ave. and Highway 401 in the Town of Halton Hills, Ont.

The proposed project includes:

- Adding a hydrogen-ready simple cycle combustion turbine generator unit.
- Output of up to 265 MW of electricity to Ontario's electricity grid.

Atura Power is starting to engage with Indigenous communities for the Halton Hills Generating Station Expansion following the IESO's engagement LT1 RFP requirements.

Over the last 60 days, we have actively engaged with your community regarding the Halton Hills Gas Upgrade project. We also highlighted other potential projects at the Halton Hills Generating Station (HHGS) site during this period. Atura Power wishes to extend our engagement with you to better understand your preferences for engagement and involvement in the proposed Halton Hills Generating Station Expansion project. We are committed to respecting your consultation protocols and are eager to meet with your leadership, staff, and community to discuss these projects in greater detail.

Furthermore, we invite you to join our upcoming virtual public community meeting, where you can gain more information about the proposed expansion. We aim to maintain an open line of communication with you and determine your preferred way of participating in this process.

Meeting materials will be posted on the project webpage for review following the meeting.

Hannaka	Date:	Tuesday, Oct. 24, 2023
How to	Time:	6:30 to 7:30 p.m. Eastern Time
JOIN	Project Webpage:	aturapower.com/haltonexpansion



If you require accommodation related to the public community meeting, please get in touch with the project team by sending an email to aturapower.com/haltonexpansion.

Sincerely,

-XB

Shelley Babin President and CEO Atura Power

Appendix E

Newspaper Advertisement



Newspaper Notice



Invitation to a Public Community Meeting

Halton Hills Generating Station Expansion

Atura Power is proposing to expand its Halton Hills Generating Station's capacity, an electricity project under a procurement process led by the Ontario Independent Electricity System Operator (IESO).

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.

The proposed Halton Hills Generating Station Expansion project will increase Ontario's electricity supply, providing generation diversity, and help advance Ontario's path to a net-zero future.

Project Description

The proposed Halton Hills Generating Station Expansion project includes the installation of an additional hydrogenready simple cycle combustion turbine generator unit at the existing Halton Hills Generating Station (HHGS). The new generator unit will be able to provide up to 265 megawatts (MW) of electricity output to Ontario's

power grid. The proposed Halton Hills Generating Station Expansion project is located at the existing HHGS between Steeles Ave. and Highway 401 in the Town of Halton Hills, Ont.

You are Invited to a Virtual Public Community Meeting

Atura Power is committed to engaging Indigenous communities, the public and other interested parties on all our projects. We invite you to attend an upcoming virtual public community meeting to learn more. You can access the link to join the public community meeting on the project webpage. If you are unable to participate, meeting materials will be posted on the project webpage for review following the meeting.

How to	Date:	Tuesday, Oct. 24, 2023	
HOW LO	Time:	6:30 to 7:30 p.m. Eastern Time	
Join	Project Webpage:	aturapower.com/haltonexpansion	

Project Contacts

For project questions or accommodation needs please email haltonexpansion@aturapower.com.

Comments and information regarding this project are being collected in accordance with the Freedom of Information and Protection of Privacy Act.



Atura Power

Online Publication Notice



https://www.haltonhillstoday.ca/spotlight/atura-power-invites-you-to-attend-a-public-community-meeting-7669490

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Atura Power



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You are Invited to a Virtual Public Community Meeting

Atura Power is committed to engaging indigenous communities, the public and other interested parties on all our projects. They invite you to attend an upcoming virtual public community meeting to learn more.

You can access the link to join the public community meeting on the $\underline{\mbox{project}}$ webpage. If you are unable to participate, meeting materials will be posted on the project webpage for review following the meeting.

How to Join:

- Date: Tuesday October 24, 2023
 Time: 6:30-7:30pm (ET)
- Project Webpage: <u>aturapower.com/haltonexpansion</u>

Project Contacts



Appendix F

Hand Delivery Location Map





