

Atura Power

Brighton Beach Generating Station Efficiency Upgrades

Public Meeting

An opportunity to learn about the proposed efficiency upgrades and share your feedback.

August 17, 2023



Order of Events

Agenda

1. Introductions and Land Acknowledgement
2. Project and Proponent Information
3. Environmental Assessment Process
4. Next Steps
5. Question Period
6. Closing Comments



Presentation is being recorded



Materials will be available online



Moderator will mute participants; chat function is available for questions



Land Acknowledgement

Atura Power respectfully acknowledges that the land we're gathered on today is the traditional territory of the Three Fires Confederacy of First Nations, comprised of the Ojibwe, the Odawa and the Potawatomi Peoples.

Atura Power is committed to fostering positive and mutually beneficial relationships with Indigenous people and communities across Ontario. We are grateful to work, learn, and live in this area.



Project Information

Name of Project

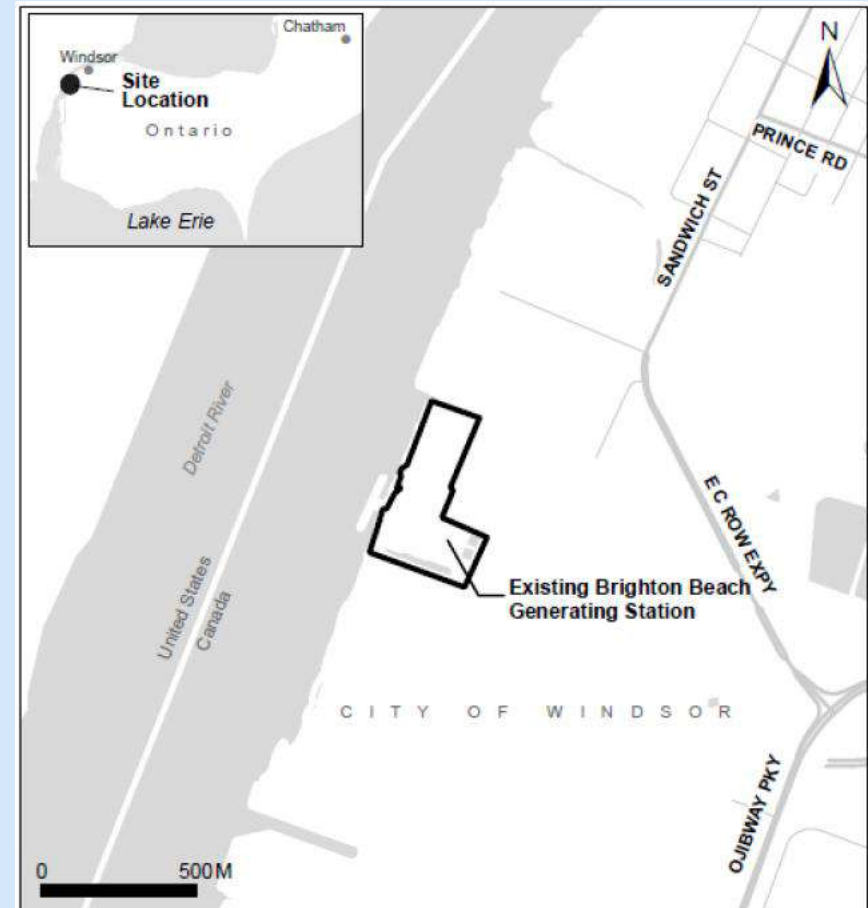
- Brighton Beach Generating Station (BBS) Efficiency Upgrades

Location

- 100 Broadway Street, Windsor, Ontario

Proposed Activity

- Replacing parts of the combustion turbines with upgraded parts that will result in a minor increase in plant output capacity



Proponent Information

Atura Power's Fleet of Generation Assets

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



1. Brighton Beach Generating Station
Capacity 570 MW



2. Halton Hills Generating Station
Capacity 683 MW



4. Napanee Generating Station
Capacity 900 MW



3. Portlands Energy Centre
Capacity 562 MW



5. Oakville Head Office



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

Community Outreach and Support

Strong Local Partner for 19 Years

Atura Power annually donates more than \$20,000 to local charities and organizations including:

- Gen. Brock Public School Breakfast Club
- Windsor 131st Birthday Celebration/Mayor's Walk
- UHC-Hub of Opportunities
- 2022 Windsor Sponsor Recognition Award
- Harmony In Action
- Sparky's Toy Drive



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Project Need

- The Independent Electricity System Operator (IESO) is the Crown corporation responsible for operating the electricity market in Ontario
- The IESO predicts Ontario will face an energy shortage as a result of growing demand and nuclear refurbishments; an additional 4,000 MW are needed by the end of the decade to maintain the system's reliability
- Proposed BBGS upgrades are part of Atura Power's efforts to address this supply gap, providing a cost-effective and timely solution to secure operational flexibility in the Ontario electricity grid
- Upgrading the two turbines with more efficient parts will increase the output capacity of BBGS by 42.5 MW



Project Description

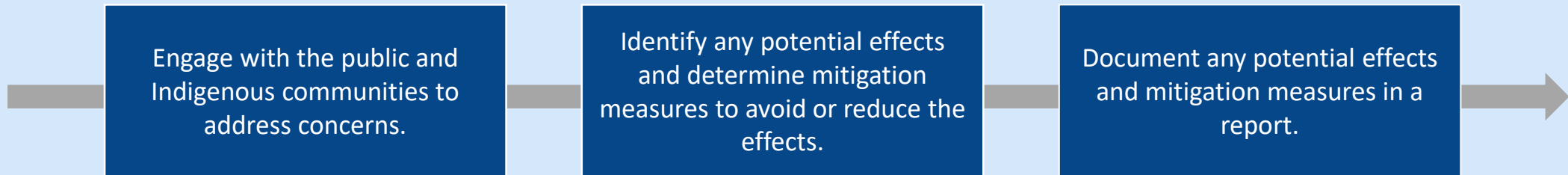
- Replacing parts of the existing turbines with parts made of materials with optimized cooling characteristics
- Will allow BBGS to generate more electricity using a similar amount of natural gas
- All activities will be within the existing facility; **no changes or expansion of existing footprint**



Environmental Assessment (EA) Process

- The project will result in a >5 MW increase in the output capacity of BBGS
- The capacity increase of 42.5 MW triggers the Environmental Screening Process for Electricity Projects subject to Ontario Regulation 116/01, under the Ontario Environmental Assessment Act
- The Project is classified as a Category B project under the Environmental Screening Process
- Atura Power is proceeding with a **Screening Stage assessment**

Purpose of the Screening Stage Assessment



Public and Indigenous Engagement

July - September 2023

October - November 2023

Initiate
Indigenous
engagement



Publish Notice of
Commencement
& invitation to
virtual public
event



Thursday, August 17

Virtual public
meeting



We are here

Comment period
following virtual
public meeting



Draft Screening
Report (SR)



Publish SR
and Notice of
Completion



30-day review
period



Statement of
Completion provided
to the Ministry
of Environment,
Conservation and
Parks



Wednesday, July 26



Continuous Public and Indigenous Engagement



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Environmental Effects

- The Screening criteria in Ontario Regulation 116/01 require the project to be reviewed against the following criteria:
 1. Surface and groundwater
 2. Land
 3. Air and noise
 4. The natural environment
 5. Resources
 6. Socio-economic
 7. Heritage and culture
 8. Other environmental features
- Engagement with Indigenous communities and the public is also an important part of the Screening Process. Engagement is ongoing and will continue throughout the life of the project.



Environmental Effects

- No changes to the Screening criteria are anticipated given that the upgrade activities are limited to the footprint and will occur within the existing facility.
- Emission concentrations (NO, NO₂, and CO) will remain the same following the upgrades according to General Electric (GE) Gas Power, the manufacturer of the equipment being installed for the upgrades.
- Further, BBGS will continue to meet relevant air quality regulations required by the Ministry of Environment, Conservation and Parks (MECP) and will continue to operate in accordance with the emissions permit requirements.



Next Steps and Timeline

Next steps and timelines associated with completing the upgrades are:

Activity	Timeline
Permits and Approvals: Environmental Compliance Approval Amendment	Submitted Q3/Q4 2023
IESO New Contract Extension	Announced May 16, 2023
Turbine Upgrades	Spring 2025
Commissioning and Testing	Spring 2025
Operations	Spring/Summer 2025



Exemption Process

- Proponents can request the MECP exempt a project from the Ontario *Environmental Assessment Act*. Atura Power is requesting an exemption from the MECP based on the following rationale :
 - BBGS facility activities are heavily regulated under permits
 - Activities to complete the upgrades will occur within the existing facility
 - Upgrades will improve operational efficiency, grid resiliency, and bring economic benefits
 - Atura Power is in the process of obtaining an amended air emissions permit which includes updated technical studies and engagement with agencies, and
 - BBGS will continue to meet relevant air quality regulations required by the MECP and will continue to operate in accordance with the emissions permit requirements.
- Atura Power will be undertaking this process in parallel with the Environmental Screening Process.



Thank You

Questions?

Please email further comments and feedback to:

[*brightonupgrade@aturapower.com*](mailto:brightonupgrade@aturapower.com)

