

# Atura Power

## Portland's Energy Centre Efficiency Upgrades

### Public Meeting

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

**October 5, 2023**



# Order of Events

## Agenda

1. Introduction 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



Comments or questions can be sent to: [portlandsupgrade@aturapower.com](mailto:portlandsupgrade@aturapower.com)

# Land Acknowledgement

Atura Power acknowledges that Portlands Energy Centre is on the traditional territory of many nations including the Mississaugas of the Credit, the Anishnabeg, the Chippewa, the Haudenosaunee and the Wendat peoples and is now home to many diverse First Nations, Inuit and Métis peoples. We also acknowledge that Toronto is covered by Treaty 13 with the Mississaugas of the Credit.



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# Project Information

## Name of Project

- Portlands Energy Centre (PEC) Efficiency Upgrades

## Location

- 470 Unwin Ave., Toronto, Ont.
- Site of the former Richard L. Hearn Generating Station on Villiers Island

## Proposed Activity

- Replacing parts of the combustion turbines with upgraded parts that will result in a 50 megawatt (MW) increase in 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



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 550 MW



5. Oakville Head Office



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# Community Outreach and Support

## Strong Local Partner for 24 Years

In addition to participating in Doors Open Toronto, PEC annually donates more than \$20,000 to local charities and organizations including:

- Food and toy drives
- Nellie's Shelter
- Red Door Family Shelter
- Toronto Nature Stewards



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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
- The PEC 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 output capacity by 50 MW



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# Project Description

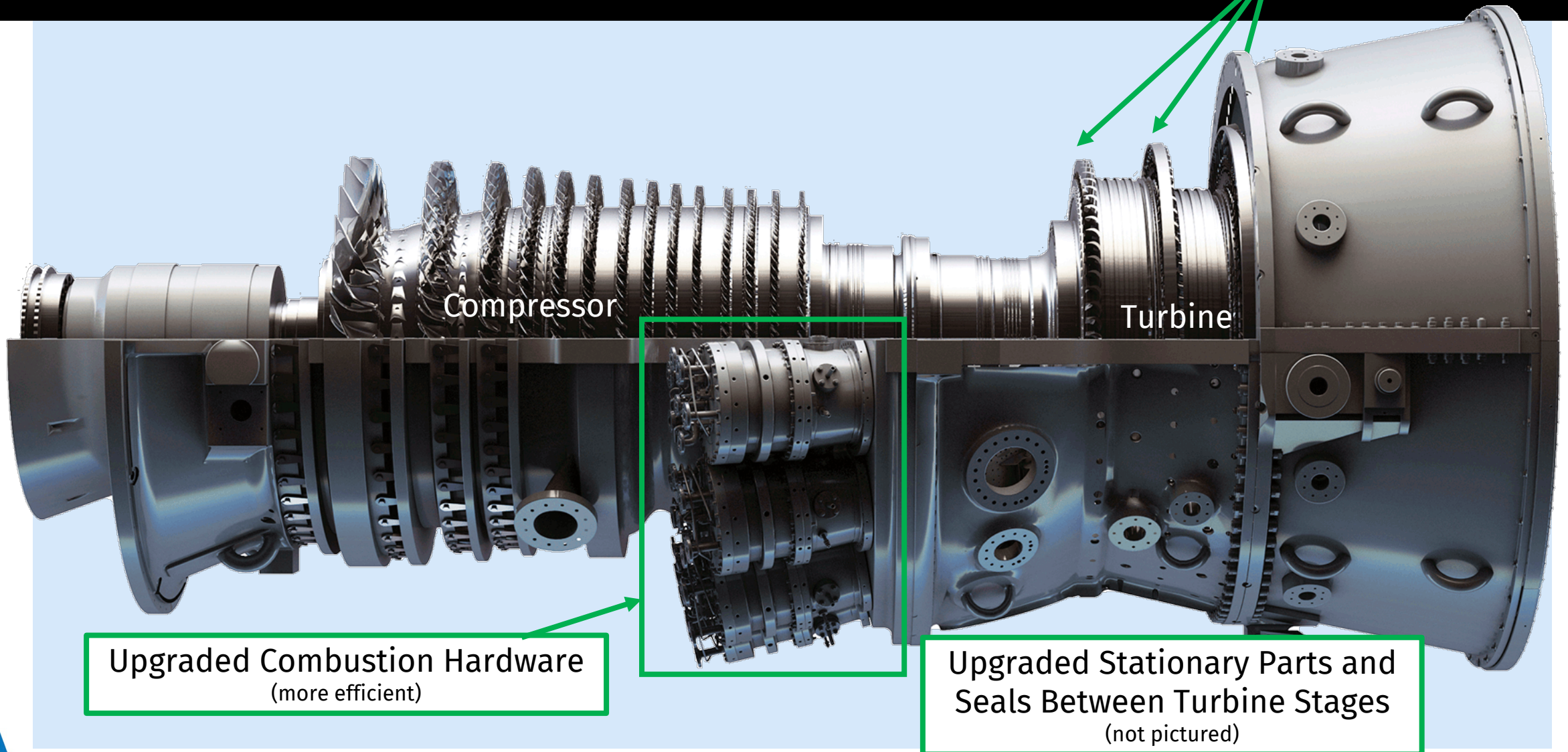
- Replacing parts of the existing turbines with parts made of materials with optimized cooling characteristics
- Will allow PEC to generate more electricity using a similar amount of natural gas
- All activities will be within the existing facility; **no changes or expansion of existing footprint**



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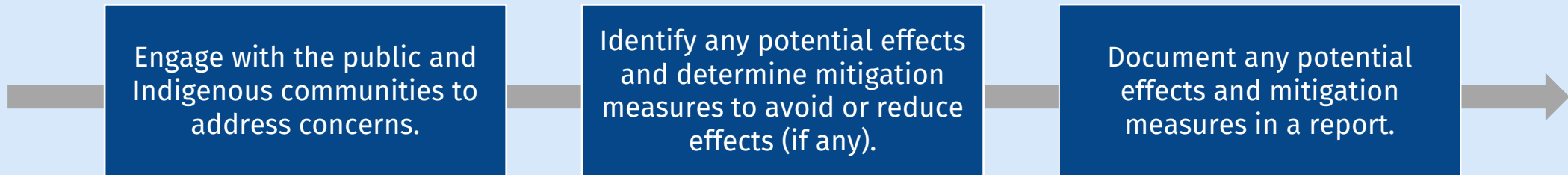


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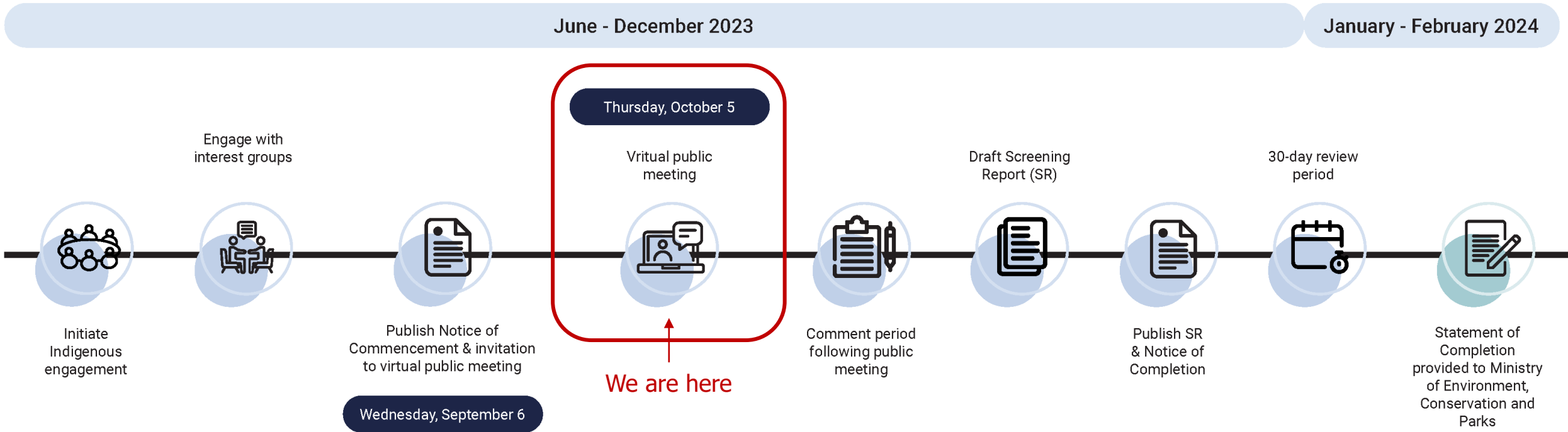
# Environmental Assessment (EA) Process

- The project will result in a > 5 MW increase in the output capacity of PEC
- The capacity increase of 50 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



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 will continue throughout the life of the project.



# Environmental Effects

- No changes to features listed in the Screening Criteria Checklist are anticipated given that the upgrade activities are limited to the footprint and will occur within the existing facility.
- Emission concentrations (NO, NO<sub>2</sub>, 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, PEC 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                |
|--|-------------------------|
| IESO Contract Award  | Announced May 16, 2023  |
| Permits and Approvals: Environmental Compliance Approval Amendment | Submitted June 23, 2023 |
| Turbine Upgrades   | Fall 2024               |
| Commissioning and Testing  | Fall 2024               |
| Operations   | Fall 2024 onwards       |



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## Thank You

Questions?

Please email further comments and feedback to:  
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