Piperville Municipal Transformer Station

Hydro Ottawa

Community Information Session 3

October 23, 2024

Community benefits

- Improve electricity service reliability to customers in the community.
- Protect customers from prolonged outages caused by extreme weather-related events.
- After events like the tornadoes and derecho, we are building back stronger and investing in the grid and new technology to mitigate risks in the community.
- Maximize the use of existing provincial infrastructure such as Hydro One's 230kV transmission line, which is consistent with good planning practices.
- The station's close proximity to the transmission system will minimize the need for new land rights from public and private landowners
- Help to make the community's electricity system as clean, reliable and resilient as possible.

Benefits

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What's being constructed

- To meet future electricity needs responsibly, this project will:
  - Construct a new 27.6kV municipal transformer station (MTS) near the intersection of Piperville Road and Farmers Way (located on the west side of Highway 417); and
  - Connect the new power station to Hydro One's existing 230 kV transmission line, also located on the west side of Highway 417.
- Upon completion, Piperville MTS will be similar to the station and tree screening shown here.
  - The tree screening is being planned on the north side of the station and along Piperville Road.

What makes this project unique

- Hydro Ottawa is spearheading a lot of future planning initiatives to make our electricity system as clean, sustainable, and as resilient as possible.
- As part of our sustainability commitments, Hydro Ottawa intends to develop Piperville as our first low-carbon substation.
- We have undertaken a full project review of the station's construction, including an innovative design, procurement and construction techniques that include using lower Global Warming Potential (GWP) materials, and equipment that will address embodied carbon associated with the construction and operation of the substation. Additional opportunities will continue to be explored.
- It is possible that renewable generation and other innovative technologies could be incorporated in the future to provide additional power that will address the area's need.

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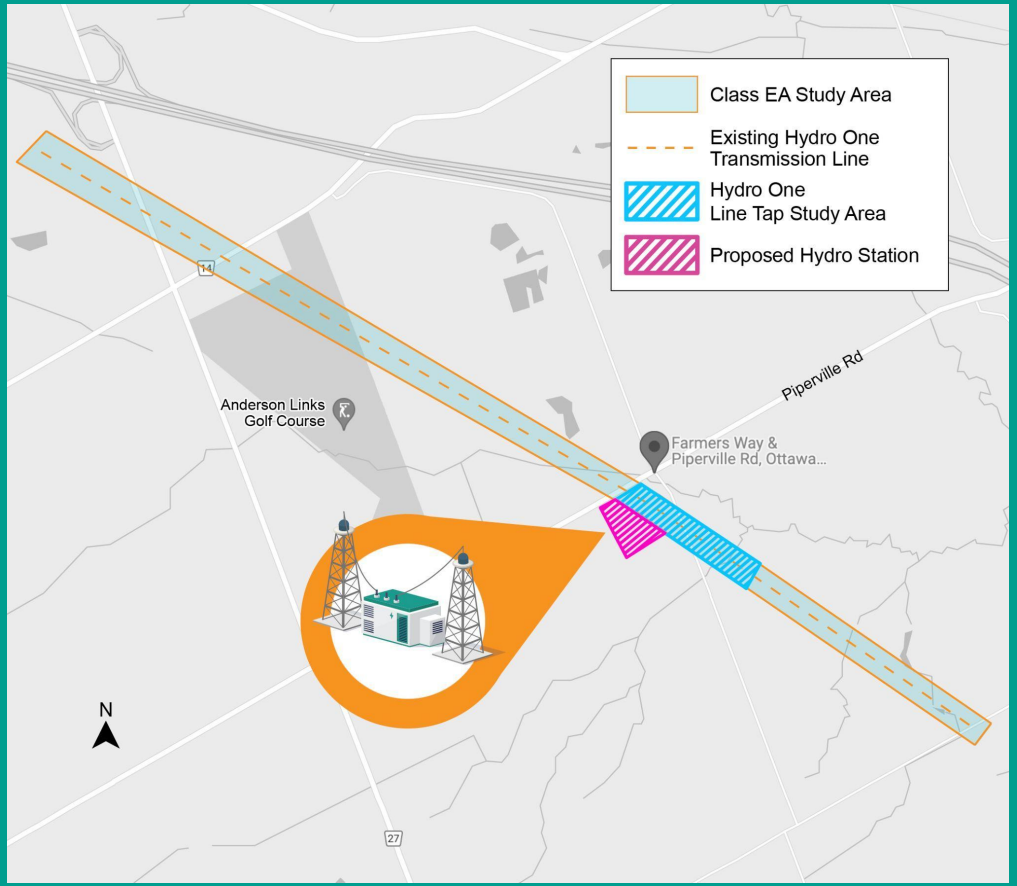
Where



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Summary of activities to date

2020	March	Need for new station identified in Integrated Regional Resource Plan
2023	February	Environmental analysis begins
	March	Notice of Commencement of Class Environmental Assessment
	April	Community information session 1
	September	Environmental analysis concludes
	November	Notice of completion - Draft Environmental Study Report (ESR)
		Community information session 2
		Public review and comment period for Draft ESR
	December	ESR submitted to Ministry of the Environment, Conservation and Parks
2024	March	Pre-construction site prep begins
	April	All construction, environmental and land permits / approvals completed
	October	Community information session 3
	November	Construction begins

Summary

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What to expect during construction

- Local residents may see various types and frequencies of construction traffic depending on the stage of the construction. There will not be a sustained long-term traffic impact associated with the Piperville project
- When necessary, traffic control will be implemented to ensure that roads remain safe for residents. Our qualified staff and contractors will ensure that any inconvenience is minimal.
- There are no power outages anticipated as a result of this work. Arrangements have been made so that electricity service can be maintained during construction of the new facilities. If that changes, you will be notified in advance.
- To ensure the safety of the public and our crews, the majority of construction will be completed weekdays between 7:00 a.m. and 5:00 p.m., and in accordance with City of Ottawa noise by-law.

Construction

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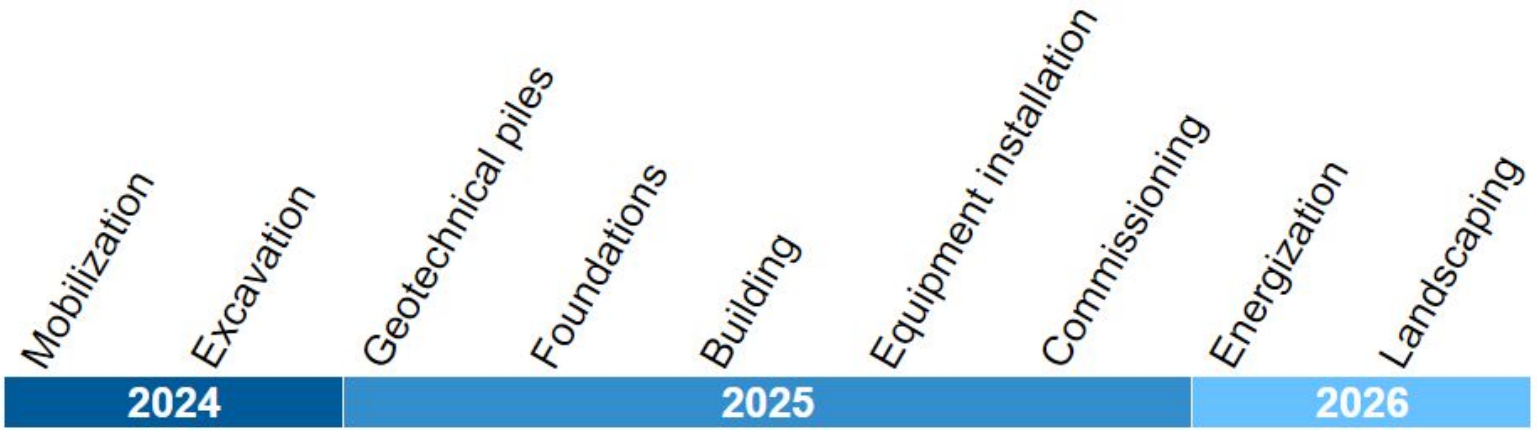
Schedule

Piperville MTS Construction



Interrelated Projects	Timeline	Proponent
Feeder Reconfiguration on Piperville Road	2025	Hydro Ottawa
Hydro One Line Tap construction	2025	Hydro One

Partners

Hydro Ottawa
Builds, owns, operates and maintains the distribution of electricity facilities to more than 354,000 homes and businesses in Ottawa and Casselman.

Hydro One Networks Inc.
Builds, owns, operates and maintains the electricity transmission and distribution facilities across Ontario.

Independent Electricity System Operator
Operates the provincial electricity system, and is responsible for planning to ensure electricity needs are met both now and in the future.

Ministry of the Environment, Conservation and Parks
The legislative authority responsible for environmental assessments in the province of Ontario.

Thank you for joining us

If you have any further questions about the construction phase of the project, please contact us.

Join our project mailing list:
piperville@hydroottawa.com

Visit our website for updates:
hydroottawa.com/piperville

Thank you

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