

# Piperville Municipal Transformer Station



Community Information Session 2

November 30, 2023

## Welcome to our community information session

- Energy partners
- Why is a new station necessary?
- Community benefits
- Example of what's being proposed
- Where - Project area map
- How electricity is delivered to your community
- Connecting to Hydro One's system
- Structure examples
- Further community engagement
- Environmental Assessment process & study findings
- Next steps



## Hydro Ottawa

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



Independent Electricity  
System Operator

## 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.



## Hydro One Networks Inc.

Builds, owns, operates and maintains the electricity transmission and distribution facilities across Ontario.



## Ministry of the Environment, Conservation and Parks

The legislative authority responsible for environmental assessments in the province of Ontario.

## Why is a new station necessary?

- Existing Hydro Ottawa infrastructure in the area does not have the capacity to supply current, or anticipated future demand in the near or long-term.
- In March 2020, the need for a new station was identified in a twenty-year Integrated Regional Resource Plan (IRRP).
- A reliable source of electricity is essential to supporting community growth - powering homes, schools, businesses, hospitals and transportation.
- The Piperville Municipal Transformer Station (MTS) project is being proposed to support projected growth in electricity demand in the southeast parts of the city of Ottawa in the coming years.



## 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.

Example of what's being proposed

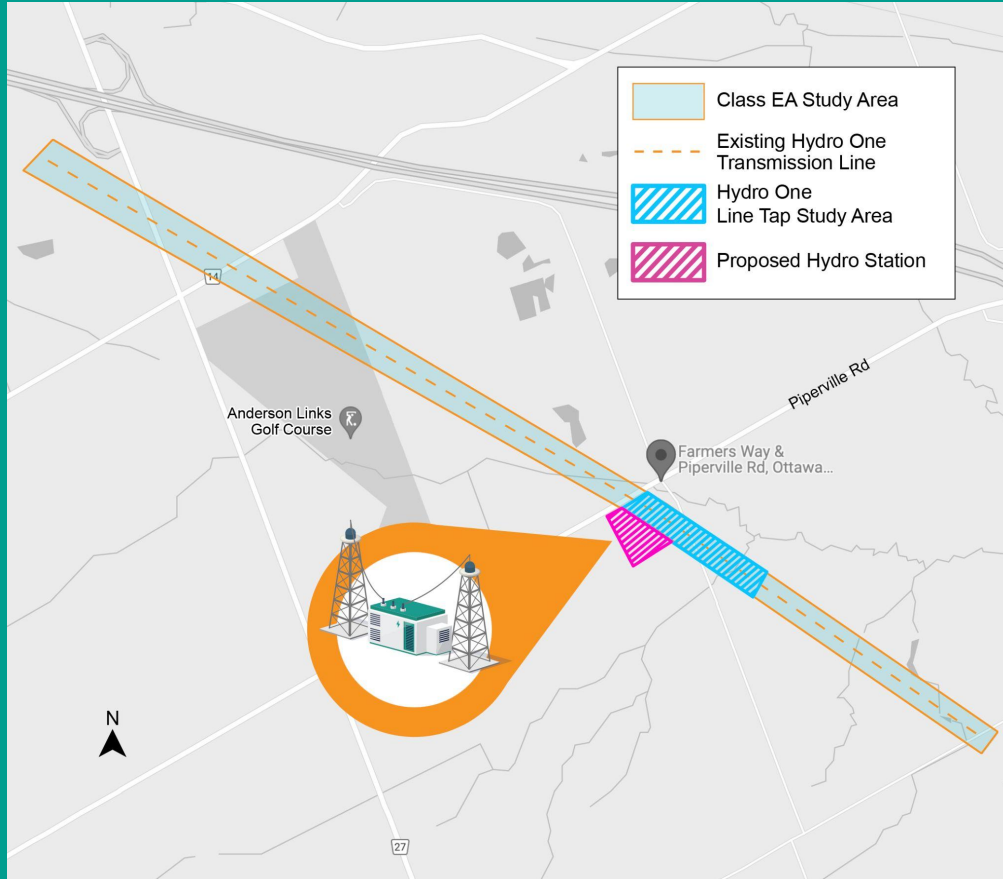
What





## What's being proposed *Cont'd*

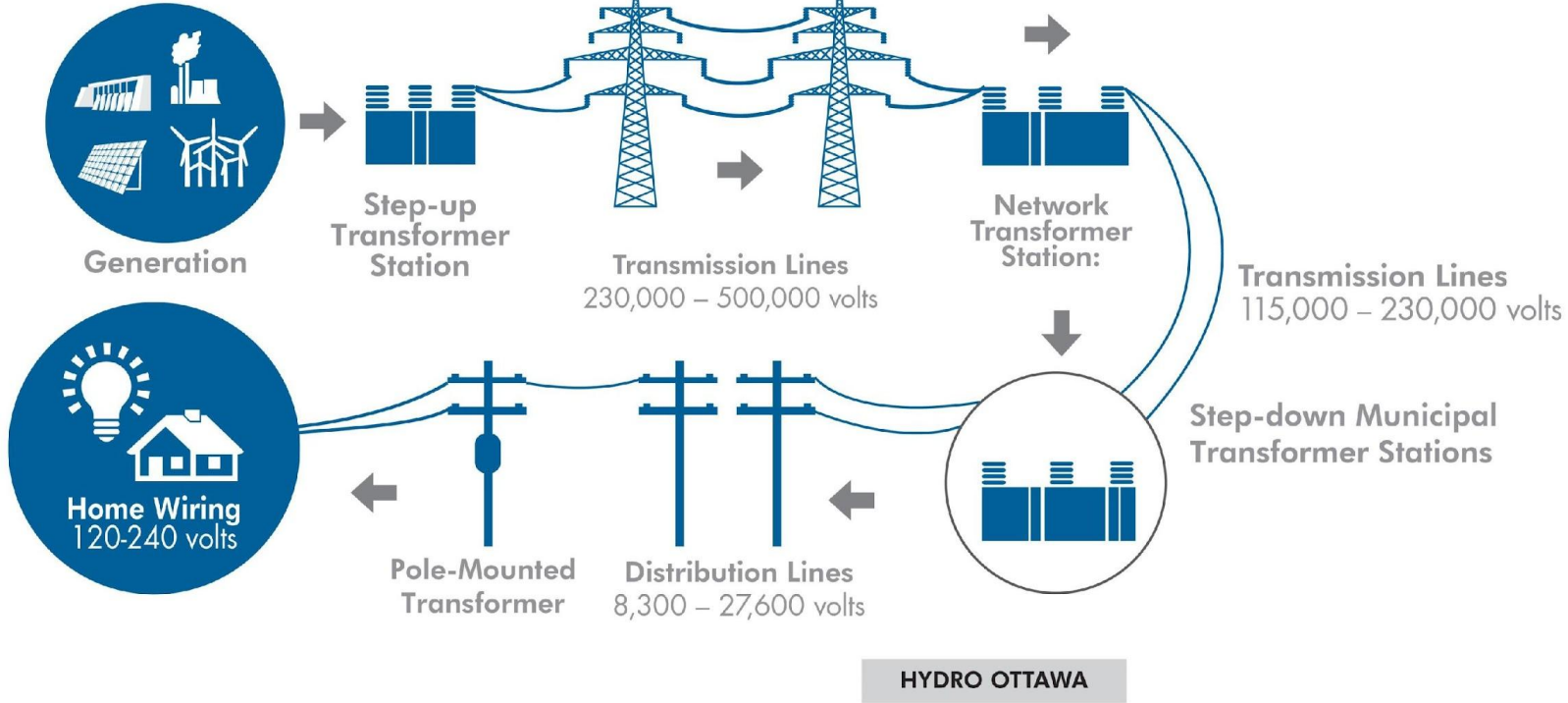
- To meet future electricity needs responsibly, this project proposes:
  - to construct a new 27.6kV municipal transformer station (MTS) near the intersection of Piperville Road and Farmers Way (located on the west side of Highway 417); and
  - to connect the new power station to Hydro One's existing 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.





ONTARIO POWER  
GENERATION AND PRIVATE  
GENERATION COMPANIES

HYDRO ONE



# Connecting to Hydro One's System

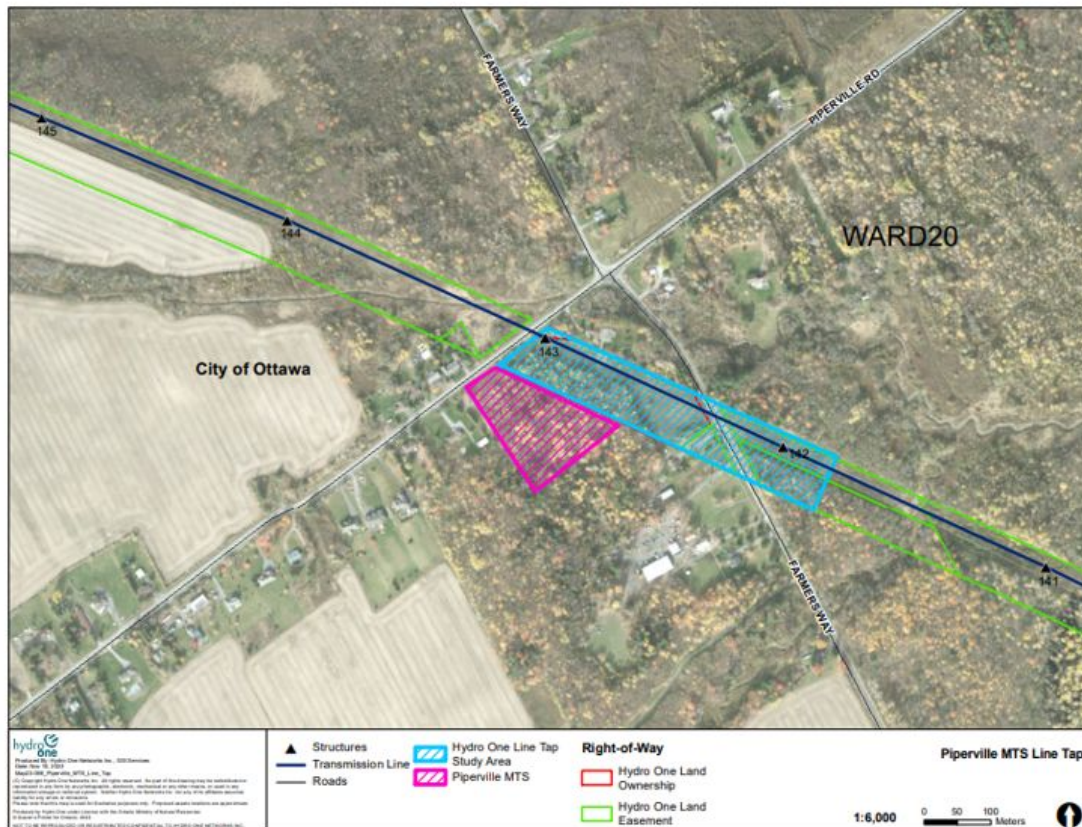
To energize the Piperville Municipal Transformer Station, Hydro One will connect the new power station to Hydro One's existing 230kV transmission line, also located on the west side of Highway 417.

The new station will be connected within the existing hydro corridor as shown in blue.

We are working with Hydro Ottawa on the Class EA Study to plan for the new station and its connection to our high-voltage system.



# Connection Study Area





# Structure Examples

Our team is in the early planning stage and have not confirmed the specific connection details or the exact structures that will be used.

When determining the location of these structures, our team will consider:

- Construction requirements
- Safe clearances between the lines and the surrounding environment
- Accessibility for future maintenance
- Socioeconomic and natural environment considerations



# Hydro One's Next Steps

We expect to have our design finalized by early 2025 although timelines may change as the project develops.

Once our design has been finalized, we will share more information with the community.

We understand how important preserving natural vegetation is and we are working to identify opportunities for replanting following construction.



## Environmental Assessment

This class environmental assessment sets out a planning process for specific minor transmission line and transmission station projects. Potential effects of the project were examined through a number of detailed studies, taking into consideration factors relating to:

- the natural and socio-economic environments;
- cultural/heritage resources;
- recreational resources;
- existing and planned land uses;
- visual landscapes;
- technical/cost considerations; and
- the concerns and interests of local business and residential property owners, Indigenous communities, government agencies and other interested parties.



## Environmental Assessment *Cont'd*

A number of natural environment field studies were undertaken in the project area as part of the Class EA process. This includes:

- Species at Risk (SAR) surveys, as required by government agencies;
- Ecological Land Classification;
- botanical and tree surveys;
- aquatic habitat assessments;
- incidental wildlife observations; and,
- potential significant wildlife habitat mapping.

Where effects on the natural environment cannot be avoided, appropriate mitigation measures were proposed.

## Environmental Study Report findings

The execution of this assessment was entrusted to a licensed archaeologist, who produced the complete Archaeological Stage 1 and 2 Report. The following summary outlines the notable findings.

- The results of the background research discussed by the archaeological consultant in the Archeological Stage 1 Report indicated that the study area exhibited potential for the presence of significant archaeological resources.
- Consequently, the archeological consultant recommended that areas of the study site showing archaeological potential should undergo a Stage 2 archaeological assessment before any sub-surface soil disturbances or other alterations are initiated in the future.
- The Stage 2 Archaeological field survey has confirmed that there are no archaeological resources of concern, ensuring that there is no need for any additional archaeological assessment in the study area.

## Environmental Study Report findings *Cont'd*

The project site was assessed by a professional biologist. The following summary outlines the notable findings.

### Results:

- No Species at Risk (SAR) birds were detected or audibly identified from the August 2023 survey.
- No significant animal movement corridors exist on the project site.
- Additionally, no evidence of SAR presence or any indications thereof were recorded during the surveys.
- Butternut trees were not observed on the project site.
- There were no sightings of SAR insects or appropriate host plants.
- The surveys did not reveal the presence of reptiles or suitable turtle habitats.
- Furthermore, evening exit surveys yielded no observations of bats roosting in trees with cavities, and no SAR bats were identified.

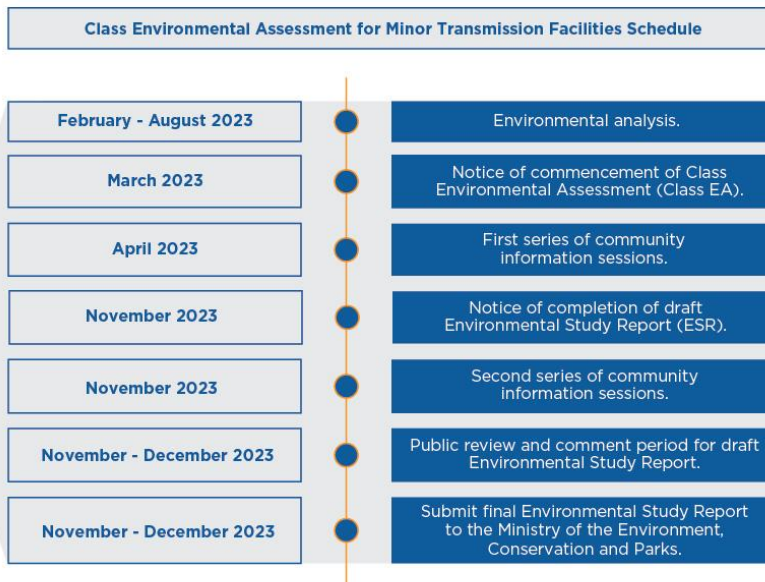


## Next steps of the project

Following this community information session, the project team will:

- Consider all feedback received from stakeholders and respond to inquiries in a timely manner.
- Complete the Environmental Study Report (ESR).
  - The ESR is part of the Class EA process;
  - Address and/or document any outstanding concerns; and
  - Issue the final ESR following the review period and incorporate feedback received from stakeholders.
- Prepare for permitting and approvals
- Host a pre-construction community information session.

## Piperville Municipal Transformer Station Anticipated Project Schedule



# Thank you

## Your input is important to us

Thank you for joining us at our community information session.

We will continue to provide early, ongoing and respectful communications about the project and our plans.

Your feedback during the consultation process will be used to refine our project implementation plans and determine appropriate ways to minimize and mitigate impacts, where feasible.



Join our project mailing list:  
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