

# St. Clair Transmission Line community open house

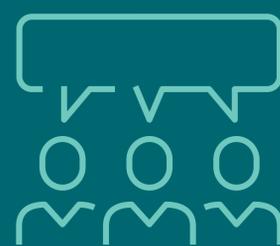
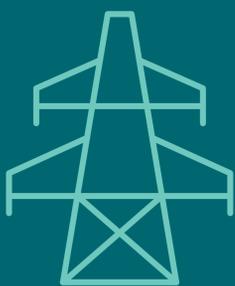
## Groundbreaking and beginning of construction activities

### Why we are here:

- Share updates on construction activities
- Continue to engage with property owners, community members, stakeholders and rights holders
- Present key milestones and next steps
- Answer questions and gather your feedback

### Who you can meet:

- The project team
- The project contractor



# Land acknowledgement

Hydro One acknowledges that the major projects it is proposing to build are on the ancestral lands of the Anishinaabe, which are now home to many diverse people.

Hydro One understands that Indigenous Nations have been here since time immemorial and are stewards of what many refer to as Turtle Island.

We are all Treaty People and with a commitment to friendship and our pursuit of reconciliation, we are thankful to be welcomed on these lands as partners to energize our futures together.



# Who we are



Hydro One is a transmission and distribution company delivering safe and reliable electricity to approximately 1.5 million customers across Ontario.



Forbes Bros is the selected contractor with experience to build large-scale transmission projects.



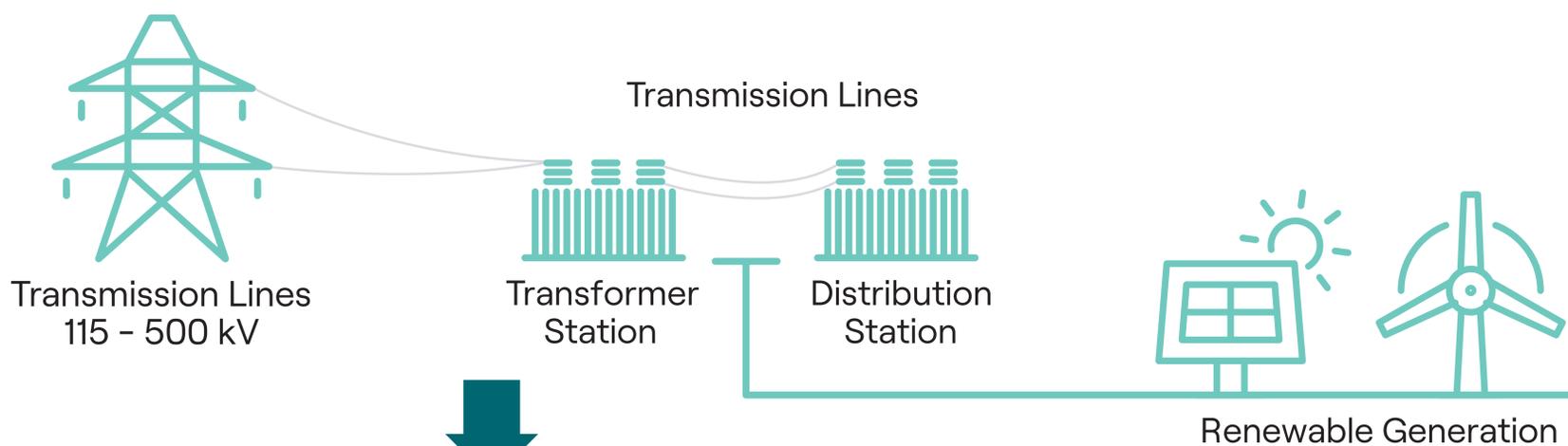
# Hydro One's role in the system

Across the province, Hydro One builds, owns, operates and maintains the electricity transmission and distribution network that brings power to homes and businesses.

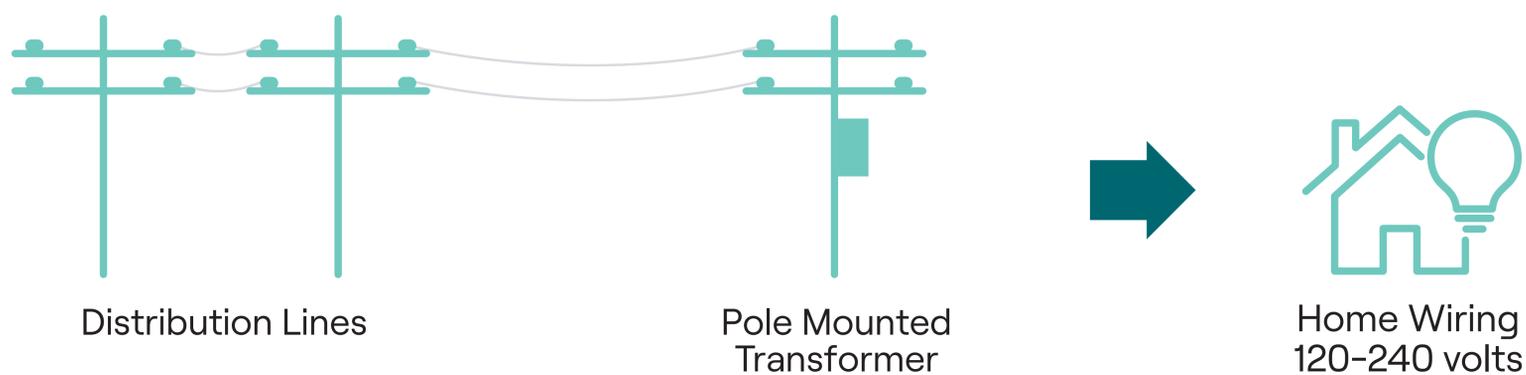
## Ontario Power Generation and private generation companies



## Hydro One or licensed transmitter



## Hydro One or Local Distribution Company

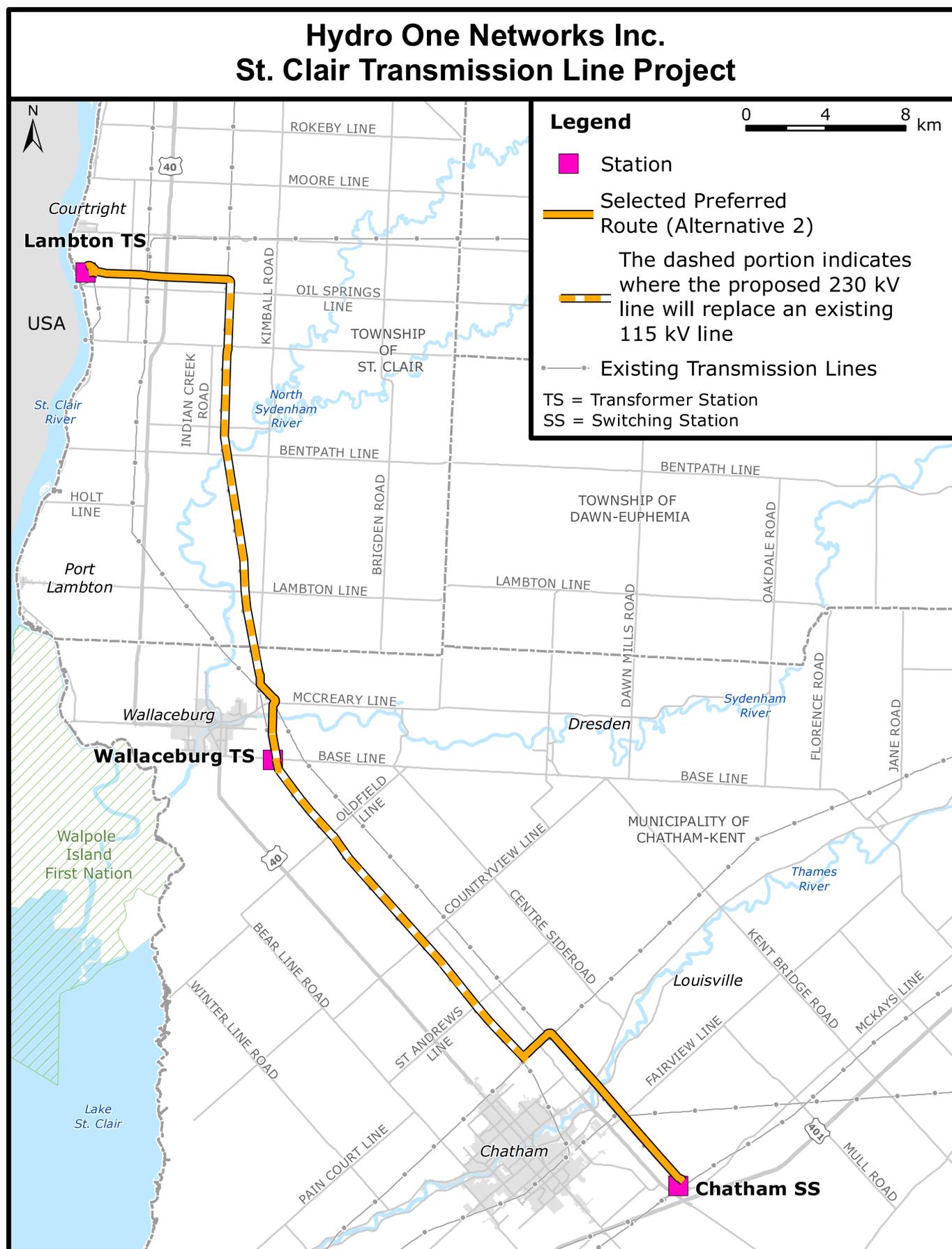


# St. Clair Transmission Line project

- The St. Clair Transmission Line is a new double-circuit 230 kilovolt (kV) transmission line between the Lambton Transformer Station (TS) in St. Clair and the Chatham Switching Station (SS) in Chatham-Kent.
- Once built, the line will be approximately 64 kilometres (km) and was selected based on input and feedback received during an environmental assessment that was completed in February 2024.
- Hydro One received approval to construct the line from the Ontario Energy Board in December 2024.
- Forbes Bros is the contract partner who will complete construction.
- We anticipate the line will be in-service before the end of 2028.



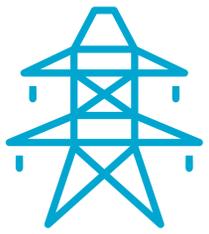
# St. Clair Transmission Line project



80% of the proposed line utilizes existing transmission corridor lands:

- more than **60%** of the route repurposes an existing transmission corridor with a requirement to widen the corridor and acquire new land rights
- nearly **20%** of the preferred route utilizes existing corridor lands that do not have transmission infrastructure on them

# Benefits to the southwest



Providing safe and reliable power to the region - expected to bring enough clean energy to power a city the size of London.



Build community partnerships in the communities we work in and serve.





# Planned construction activities and milestones

**Step one -  
Prepare the corridor**

**Summer 2025  
to summer 2026**



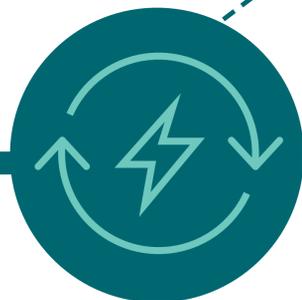
**Step two -  
Build the line**

**Summer 2025  
to winter 2027**



**Step three -  
Complete and  
energize line**

**Summer 2027  
to winter 2028**



Construction will be phased along the line with crews working on multiple work locations at the same time.

# Step one – Prepare the corridor



## Removal of the existing line

**Anticipated timeline: winter 2025 to winter 2026**

- Crews will remove the idle line along a portion of the transmission corridor, spanning approximately 48 km.
- Material will be separated and removed for safe disposal at an approved site.



## Creation of access roads and construction areas

**Anticipated timeline: summer 2025 to summer 2026**

- Initial work will include placing temporary access roads along the route to allow for construction of the new line.
- Access roads will be constructed using gravel, excavators and bulldozers. Wooden mats and/or gravel will be placed at each tower location and as needed along the corridor to support heavy equipment.
- Vegetation such as trees or brush around the new tower locations and construction areas will also be maintained.

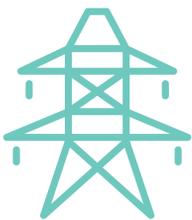
# Step two – Build the line



## Install tower foundations

### Anticipated timeline: summer 2025 to fall 2026

- Once construction sites are prepared, crews will install tower foundations to support the new tower structures.
- Foundations will be built with helical piles, which are hollow steel tubes that will be installed with specialized equipment.
- Tower foundations are typically between seven metres and 14 metres below ground.



## Install new transmission towers

### Anticipated timeline: fall 2025 to spring 2027

- We will take a phased approach beginning in Chatham and move northwest towards Lambton.
- Crews will use cranes, aerial lifts and climbing techniques to assemble 225 towers along the route.



## String new power line and associated equipment

### Anticipated timeline: fall 2025 to winter 2027

- Approximately 60 km of power line will be strung with a helicopter. Each span of line is approximately 300 to 350 metres in length.
- Crews will use cable splicing techniques to connect the lines along the route.
- Cranes will be used to install approximately 20,000 insulators along the line.

# Step three – Complete and energize line



## Energizing the line

**Anticipated timeline: winter 2028 or sooner**

- Once crews are finished construction, Hydro One will energize the line.

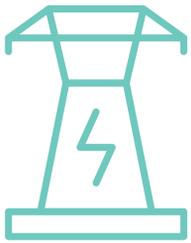


## Restoring construction areas

**Anticipated timeline: summer 2026 to summer 2028**

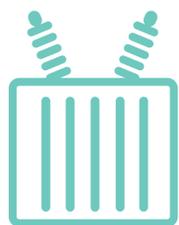
- Construction sites will be graded and returned to a pre-construction state.
- Temporary access roads will be removed, and routes will be returned to their pre-construction state.

# Additional work



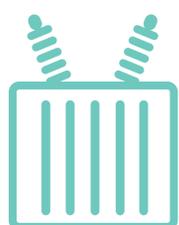
## Lambton and Chatham station expansions

- Lambton TS and Chatham Switching Station require expansion to accommodate new electrical equipment and enable the new St. Clair Transmission Line connection.
- Work started in April 2025 and is expected to be completed in summer 2027.



## Wallaceburg Transmission Station conversion

- Two new 230kV transformers to accommodate the increase in power needed for the new St. Clair Transmission Line.
- Work started in May 2024 and is expected to be completed by summer 2026.



## New Wallaceburg Distribution Station

- To accommodate the space required for Wallaceburg TS conversion, the distribution station housed within the station will be relocated to a nearby location.
  - The relocation of the distribution station will be near Base Line Road and Fraser Road.
  - Construction began in January 2025 and is expected to be completed by fall 2025.

# Working with you

We will be in your community as we build this transmission line. Hydro One and Forbes Bros will make every effort to minimize disruption. Here are some of our mitigation measures:

## Property

- Reviewing existing property maps and plans and completing locates, and, if required, relocating drainage tiles before excavation.
- Using access mats and gravel constructed with a geotextile base layer to mitigate soil compaction.

## Vibration

- Forbes Bros will implement best practices to minimize vibration from heavy machinery.

## Noise

- Construction will typically occur between 7 a.m. to 5 p.m. from Monday to Sunday.
- If exceptions are required, Forbes will acquire the appropriate permits and approvals.
- Forbes Bros will also notify residents prior to line stringing., as the technique used during this process can resemble the sound of fireworks.

## Dust

- Forbes Bros will implement best management practices to control and minimize dust. This can include watering areas with fine-grain materials along with temporary barriers.

## Soil

- Utilizing a management plan to address compaction, rutting, admixing, storage, slurry, re-use and the safe disposal of soil.

## Traffic

- Where temporary lane restrictions are required, Forbes Bros will coordinate the timing of construction with municipalities and other projects that may be scheduled in the area. Contractors will also have staff on-site to direct traffic as needed.
- All necessary permits will be obtained in advance.



# Thank you

At Hydro One, safety comes first. We will work with our construction partner, Forbes Bros and impacted property owners before construction begins.

If you have any property-specific questions, please contact the Forbes Bros team: Matthew Saindon at 587-335-0162 or [msaindon@forbesbrosLtd.ca](mailto:msaindon@forbesbrosLtd.ca)

We're here to help. If you would like further information or have any questions, please contact:



**1.877.345.6799**



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