

Community Drop-in

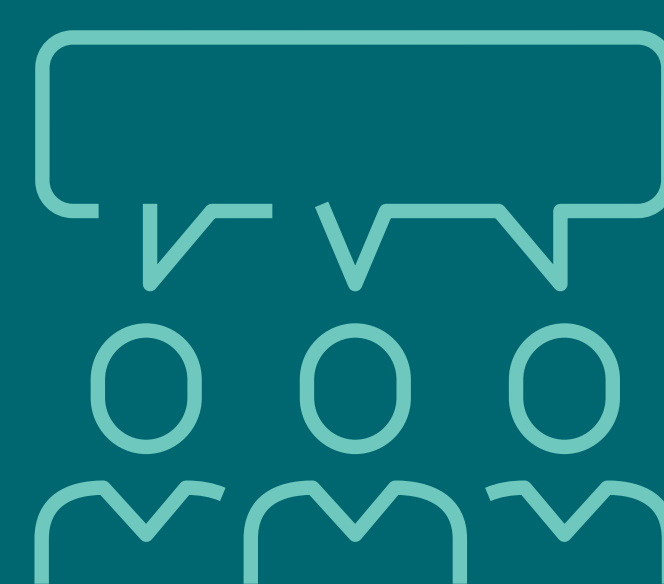
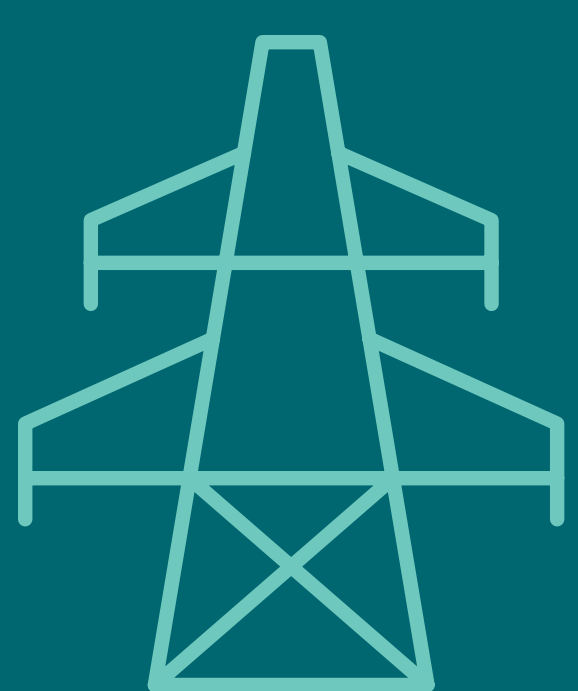
Building the Chatham to Lakeshore Line

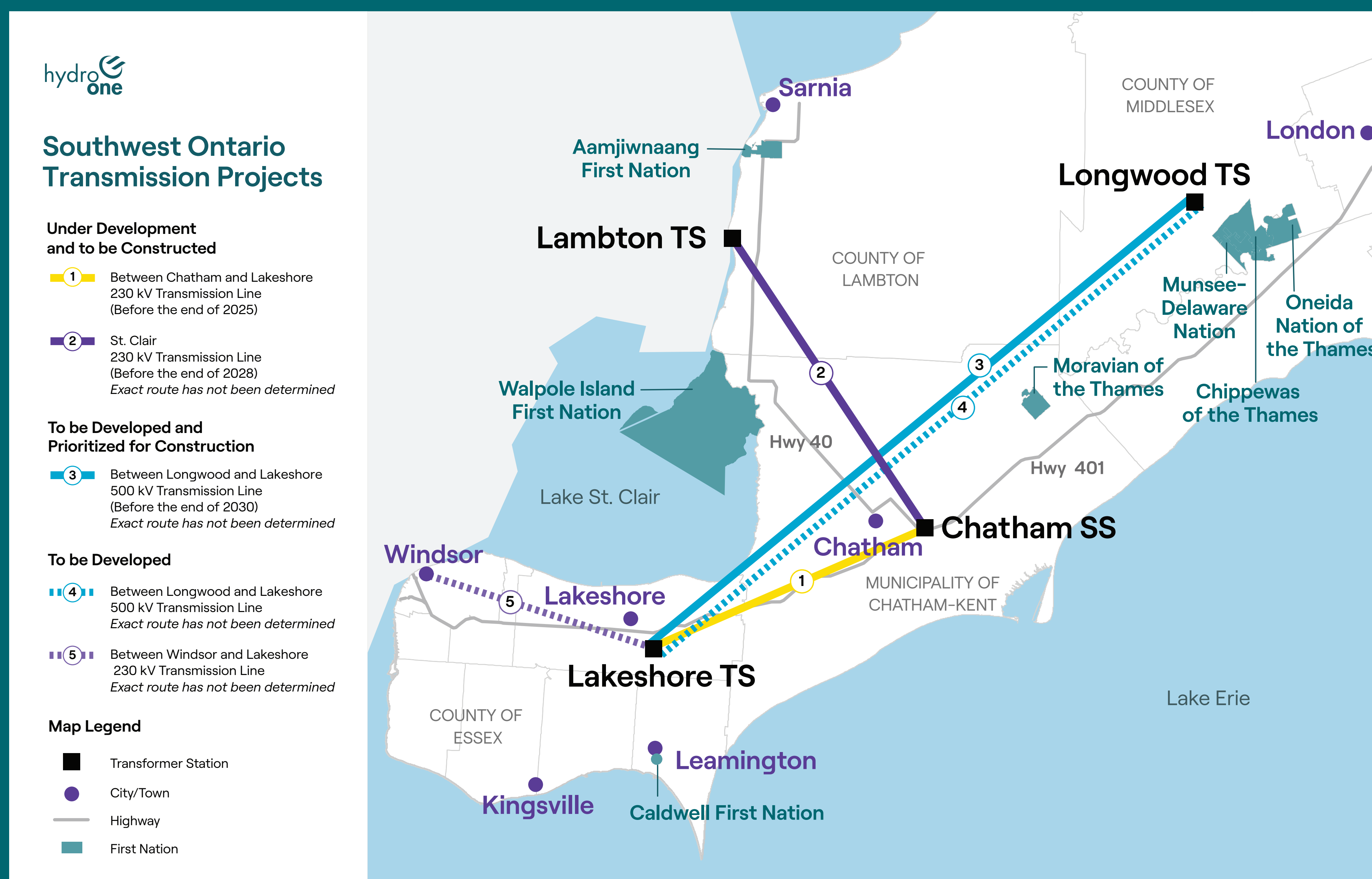
We're here to:

- Share our construction activities
- Gather feedback and answer your questions

Who you can meet:

- Project Team
- Project Contractor





For illustrative purposes only and not reflective of preferred routes.

Electricity needs in Southwestern Ontario

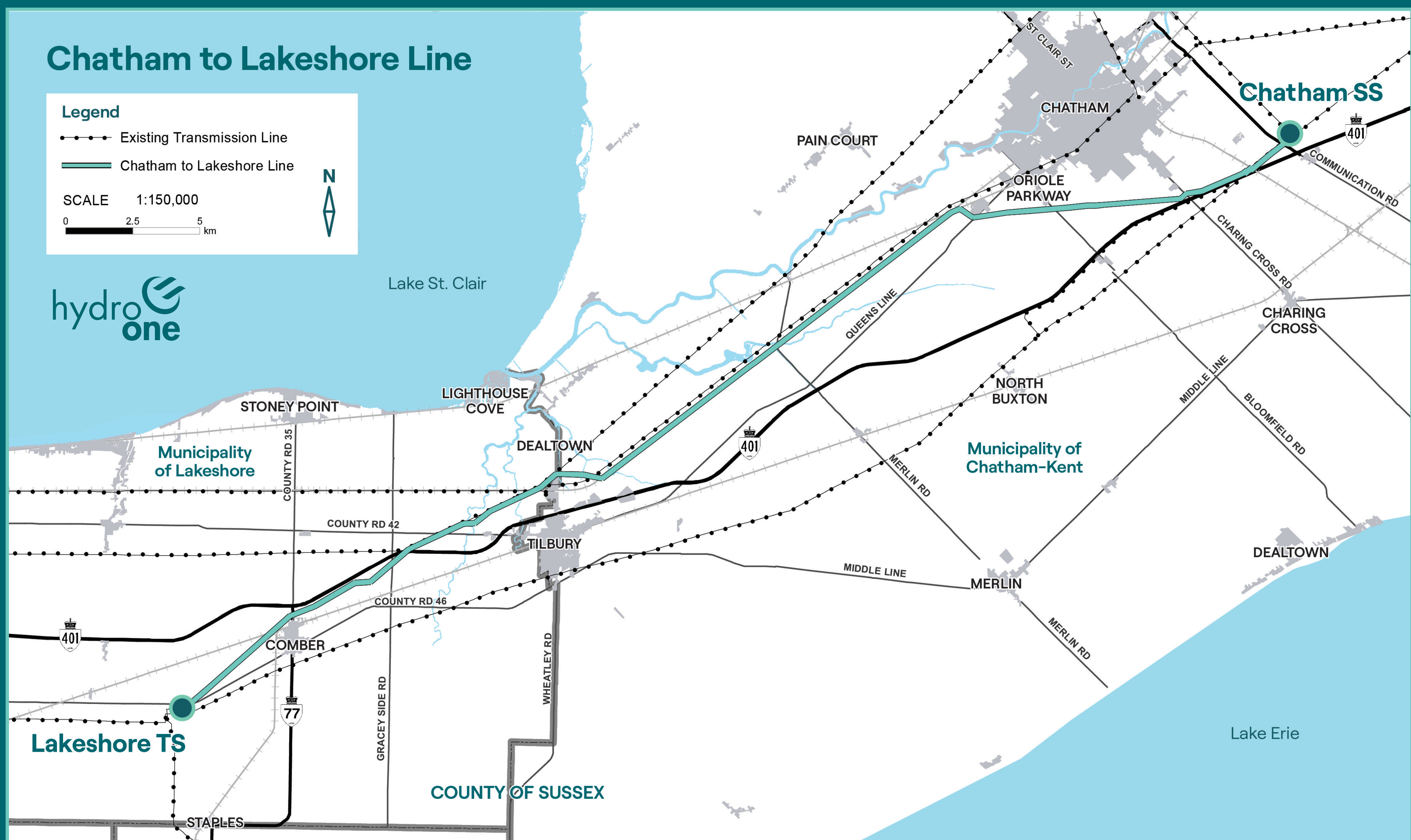
Hydro One is committed to providing safe and reliable electricity where and when it's needed.

In southwestern Ontario, electricity demand is anticipated to quadruple by 2035 according to the Independent Electricity System Operator (IESO). To meet this demand, a network of electricity infrastructure projects have been identified. This includes three projects already underway:

- **Chatham to Lakeshore Line:**
Starting construction in Spring 2023
- **St. Clair Transmission Line:**
Undergoing a Class Environmental Assessment
- **Longwood to Lakeshore Project:**
Beginning a Comprehensive Environmental Assessment

This network of projects will provide many regional benefits including improved resiliency and reliability, economic growth and investments, and support for local food supply and security.

For more information, please visit HydroOne.com/Projects



Chatham to Lakeshore Line

- Hydro One is building a new double-circuit 230kV transmission line between our Chatham Switching Station in Chatham-Kent to Lakeshore Transmission Station in Lakeshore.
- The route will be approximately 49 km and was selected based on input and feedback received during an Environmental Assessment that was completed in October 2022.
- Hydro One received approval to construct the line from the Ontario Energy Board in November 2022.
- Voltage Power is the contractor who will complete construction. We anticipate the line will be in-service before the end of 2025.

Learn more
HydroOne.com/Chatham-to-Lakeshore



Who we are

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

Voltage Power is a part of AECON Group Inc., and constructs complex electricity projects across Canada. AECON is a construction and infrastructure company with global experience.



VOLTAGE
POWER
AN **AECON** COMPANY



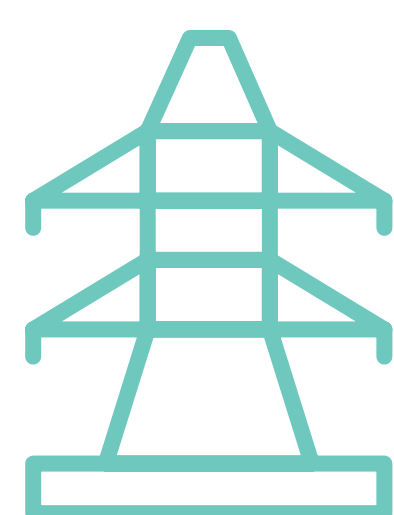
Construction activities and milestones*



Step 1. Prepare

- Remove idle line
- Create access roads

Spring – Summer 2023



Step 2. Build

- Build tower foundations, towers and string power line

Summer 2023 – Summer 2024



Step 3. Complete

- Connect and energize the line
- Restore construction areas

Fall 2024 – Fall 2025

Voltage will also work directly with property owners throughout the project.

* Timelines are subject to change.



Step 1. Prepare



1. Removing idle line

- Crews will begin removing idle line along a portion of the corridor, spanning approximately 16 km.
- Material will be separated and removed for safe disposal at an approved site.

Anticipated timeline: Spring 2023

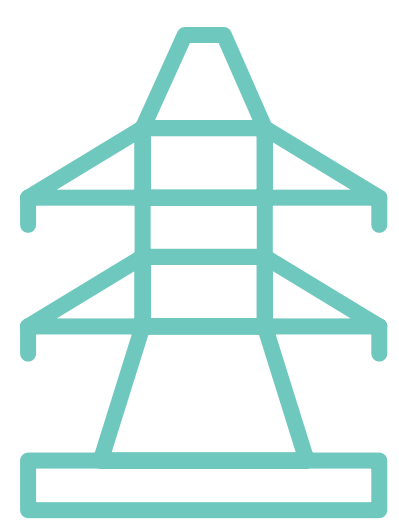
2. Creating access roads and construction areas

- The first step to building the new line includes creating temporary access roads, approximately 4m in width, along the route.
- Access roads will be constructed using gravel, excavators, and bulldozers. Wooden mats and 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.

Anticipated timeline: Summer 2023



Step 2. Build



3. Building the line

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 7m and 14m below ground.

Anticipated timeline: Summer 2023 - Spring 2024

- **Install new transmission towers**

- We will take a phased approach beginning in Chatham and moving southwest towards Lakeshore.
- Crews will use cranes, aerial lifts and climbing techniques to assemble 170 towers along the route.

Anticipated timeline: Fall 2023 - Summer 2024

- **String new power line and associated equipment**

- Approximately 49km of power line will be strung with a helicopter. Each span of line is approximately 300m to 350m 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.

Anticipated timeline: Winter 2024 - Summer 2024



Step 3. Complete



4. Energizing the line

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

Anticipated timeline: Fall 2024 - Fall 2025

5. Restoring construction areas

- 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 natural state.

Anticipated timeline: Fall 2024 - Fall 2025

Our commitment to you

We understand we will have an increased presence in your community throughout the project. Hydro One and our contractor will make best efforts to minimize disruptions by:

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.

Soil

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

Dust

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

Vibration

- Voltage 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, Voltage will acquire the appropriate permits and approvals.
- Voltage will also notify residents prior to line stringing, as the technique used during this process can resemble the sound of fireworks.

Traffic

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



Thank you for coming

- At Hydro One, safety is our top priority. As part of this, Voltage Power will work with property owners in advance of any construction taking place.
- Hydro One will also have a dedicated site inspector on-site throughout construction.
- If you have any property specific questions, please contact the Voltage Power team at **250-859-0714** or **thowie@VoltagePower.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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HydroOne.com/Chatham-to-Lakeshore



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