Welcome

Virtual Community Open House #1

Live Discussion - March 2022

St. Clair Transmission Line

Speakers and Panelists

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Planning Engineer

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Community Engagement

Agenda

- Introduction to the electricity landscape
- Need for the project
- Class Environmental Assessment process
- Proposed route alternatives and selection process
- Key milestones and next steps
- How to provide your input

Key organizations

Building infrastructure to meet the energy needs of today and tomorrow involves a number of partners, including:

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

Oversees planning to ensure electricity needs are met both now and in the future.

Legislative Authority for Environmental Assessments in Ontario.

Regulates the electricity market in Ontario, including electricity rates.

How the system works

Ontario Power Generation and Private Generating Companies

Generation

Step-Up Transformer Station

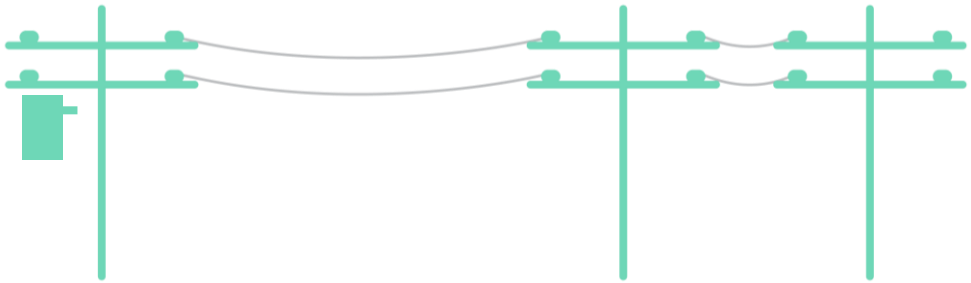
Hydro One Licensed Transmitter

Transmission Lines
115,000 – 500,000 volts

Transformer Station

Distribution Station

Hydro One or Local Distribution Company



Pole Mounted Transformer

Distribution Lines

Home Wiring
120 – 240 volts

IESO: Who we are and what we do

Reliably operate Ontario's province-wide system 24/7

Enable province-wide energy efficiency

Support innovation to drive down costs

Drive electricity market efficiencies

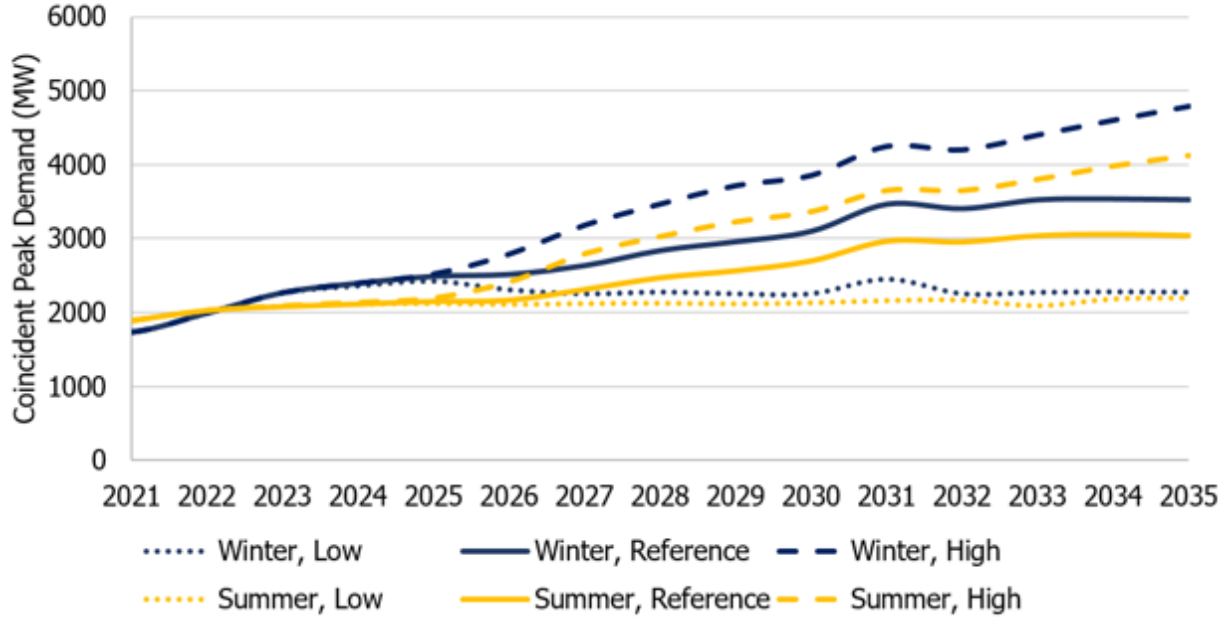
Plan for Ontario's future energy needs

Work closely with communities to explore sustainable options

Addressing rapid growth and providing opportunities for tomorrow

- Electricity demand in the Windsor-Essex and Chatham areas is increasing rapidly as a result of growth in the agricultural sector
- Demand is expected to grow by up to 1800 MW by 2035 – an amount greater than the existing demand of a city the size of Ottawa
- A strong electricity supply is being developed to address this growth, providing a strong backbone for long-term economic development for the whole region

Forecast Load West of London



Summary of recommended solutions to date

A multi-pronged approach has been underway to support high, sustained growth and develop solutions to enable additional 1,800 MW by 2035 including:

- New switching station in the Municipality of Lakeshore (2022)
- Three new sets of transmission lines: Chatham to Lakeshore, Lambton to Chatham and Longwood to Lakeshore (2026, 2028 and 2030)
- Two new transformer stations in the Kingsville area and connection lines from the new Lakeshore Switching Station (2028)
- Targeted energy efficiency programs offering greenhouse LED lighting incentives and innovation projects (in-service /in-progress)
- Local generation resources (re-acquisition of Brighton Beach Generating Station and 550 MW of local resources in the Windsor-Essex/Chatham-Kent area needed and will be procured to be in service between 2030 and 2035)

Map of recommended solutions to date

hydro one

Southwest Ontario Transmission Projects

Phase 1 Projects

1. Chatham to Lakeshore 230 kV Transmission Line (2026)
2. Kingsville Area Projects 230 kV Transmission Lines (2028)
3. St. Clair 230 kV Transmission Line (2028)
4. Longwood to Lakeshore 500 kV Transmission Line (2030)

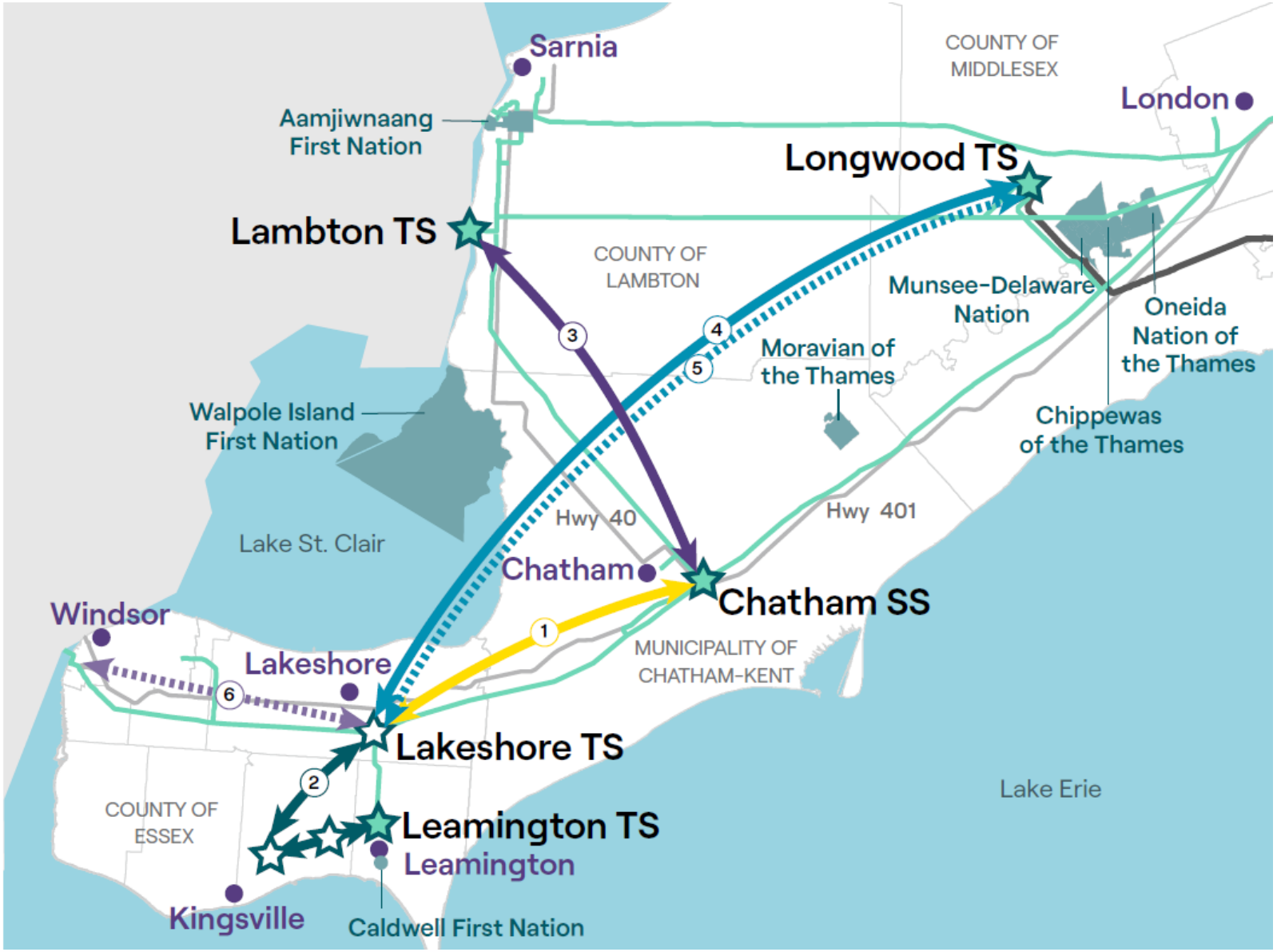
New Transformer Stations (2022-2028)

Phase 2 Projects

5. Longwood to Lakeshore 500 kV Transmission Line (TBD)
6. Windsor to Lakeshore 230 kV Transmission Line (TBD)

Map Legend

- 230 kV Existing Transmission Line
- 500 kV Existing Transmission Line
- Existing Transformer Station
- City/Town
- Highway
- First Nation



Why this project is needed

- A safe and reliable electricity supply is essential to economic growth. As southwestern Ontario continues to grow, so does the need for electricity.
- To help meet this need, Hydro One is planning to build a new double circuit 230 kilovolt transmission line between our Lambton Transformer Station and Chatham Switching Station, as requested by the Independent Electricity System Operator (IESO).
- Known as the St. Clair Transmission Line project, this line will add 400 megawatts of power to the area.
- The project supports local food supply and security, economic development, and job creation.

What is a Class Environmental Assessment?

- The Class Environmental Assessment for Minor Transmission Facilities (Class EA for MTF) is one of ten Class EA documents currently used in Ontario to guide the planning and decision-making process for a group (class) of projects with predictable environmental effects that can be readily managed.
- The Class EA for MTF is a planning tool through which conformance with the provincial *Environmental Assessment Act* is met for certain electrical transmission facilities.

A Class EA involves:

- Engagement with Indigenous communities, the public, municipalities, interest groups and government agencies;
- Collection of environmental information;
- Identification of potential environmental effects and mitigation measures;
- Identification and evaluation of route alternatives;
- Selection of a preferred route;
- A draft Environmental Study Report (ESR) that will be made available for a 30-day public review and comment period; and
- Submission of the Final ESR.

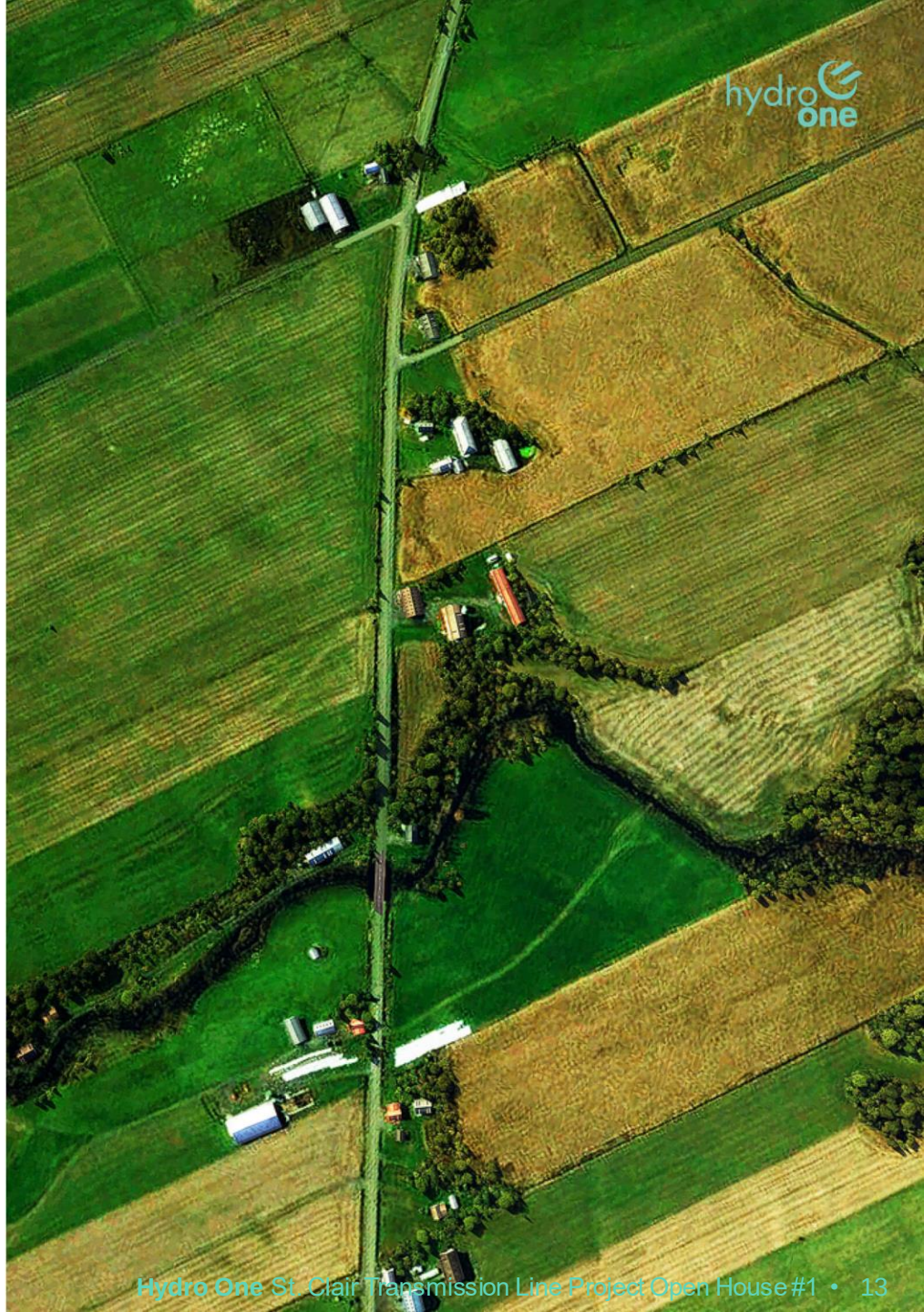
Class Environmental Assessment Process Update

Where we are today

In February 2022, Hydro One commenced the Class EA by initiating consultation with Indigenous communities, community members, municipalities, interest groups and government agencies.

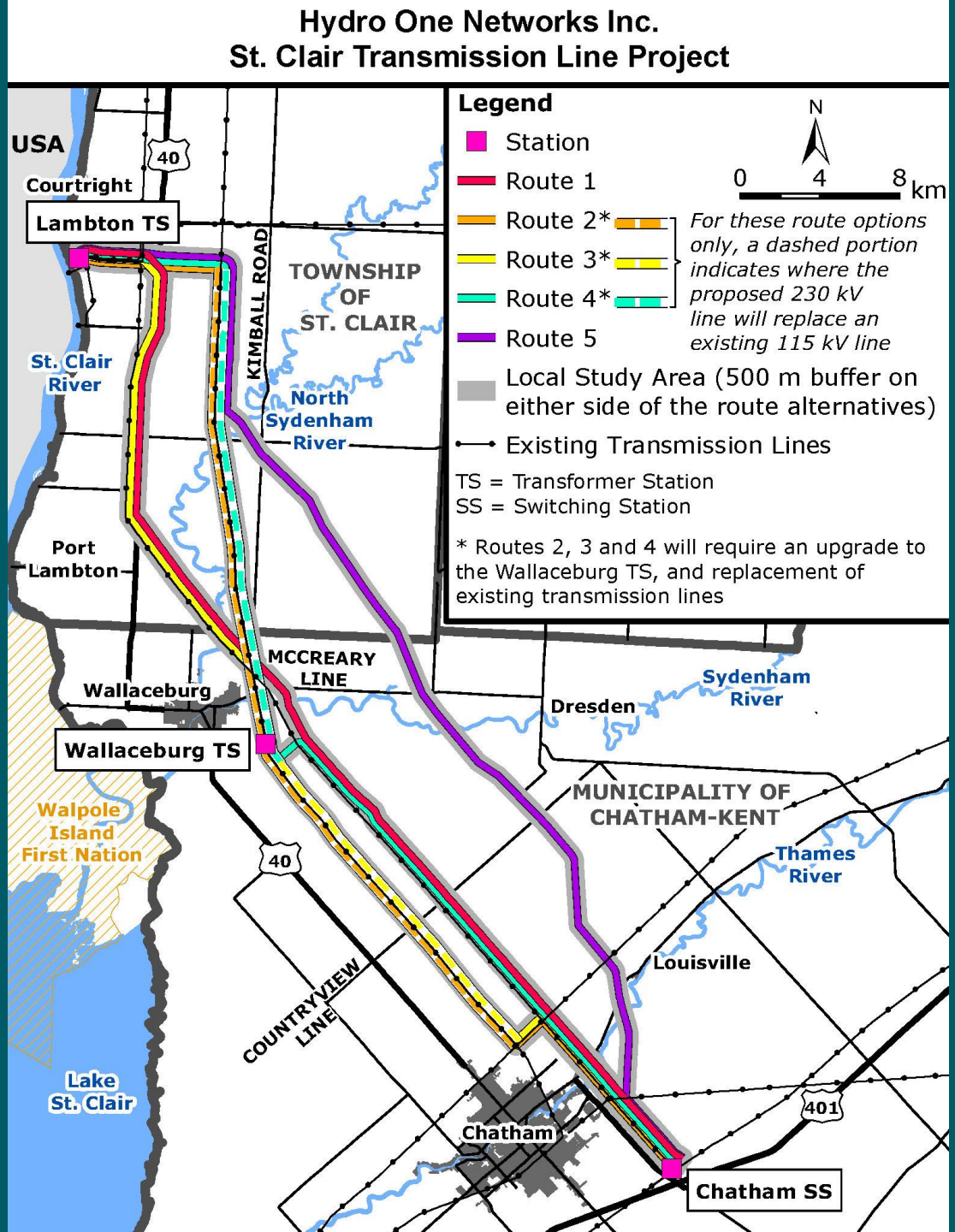
We continue to learn more about the existing environment within the study area by gathering:

- Data from existing reports, plans, maps, aerial photographs and other sources;
- Field data collected from environmental surveys such as breeding bird and vegetation surveys;
- Project specific research such as archaeological assessment;
- Information obtained through consultation.



Routes we are studying

- Five viable route alternatives will be evaluated as a part of the Class EA
- Four route alternatives will utilize existing transmission rights of way and easements
- Upgrade to Wallaceburg TS is required from 115kV to 230kV with three route alternatives (Routes 2, 3, 4)



Evaluation of routes

To evaluate the route alternatives, we will:

- Engage with Indigenous communities, community members, municipalities, government agencies, and interest groups to gather feedback;
- Conduct background research, environmental field studies and technical assessments; and

Based on the feedback and data collected, we will evaluate each route alternative based on a number of natural, social, cultural, technical and economic criteria to select a preferred route for the new transmission line.

Working with land owners

- During the Class EA, we will be requesting property access to complete non-intrusive field studies on properties with environmental areas of interest identified along all route alternatives.
- Hydro One Real Estate has begun contacting property owners where certain environmental features of interest have been identified to secure an access agreement to conduct these studies. To all property owners that have granted us property access to date, we appreciate your cooperation.
- Upon the selection of the preferred route anticipated Spring 2023, our Real Estate team will work with directly impacted property owners to discuss and consult on next steps.
- To guide our conversations with directly impacted property owners, land acquisition principles tailored to the project will be applied in a fair, open, consistent and transparent manner.

Get involved

We want to hear from you, please provide your feedback by:

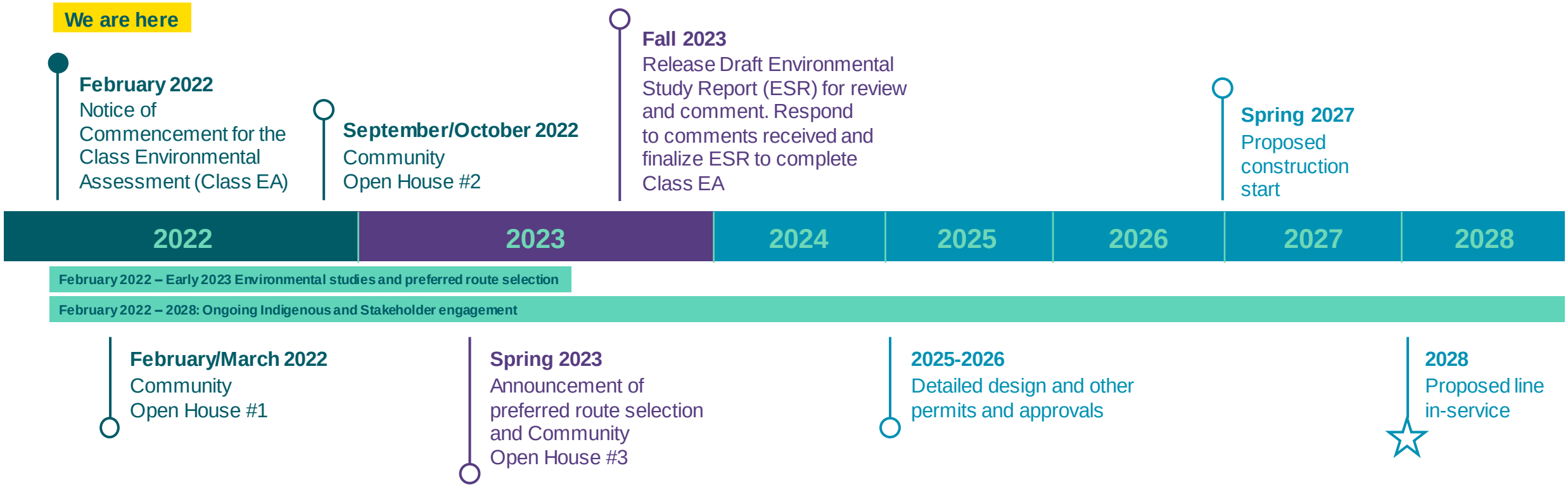
Asking a question via our virtual Community Open Houses

Submitting your comments to **Community.Relations@HydroOne.com** or **1.877.345.6799**

Attending future Community Open Houses and other engagement opportunities

To stay up to date on project details, please visit our webpage **HydroOne.com/StClair**

Project Milestones



In order to meet the energy needs of the region as quickly as possible, we are looking for opportunities to bring the new line into service at an earlier date.

Live question period with panelists

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Thank you

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