

WE
WELCOME
YOU

**LAKESHORE
TRANSMISSION
STATIONS
PROJECT**

OCTOBER 1, 2019

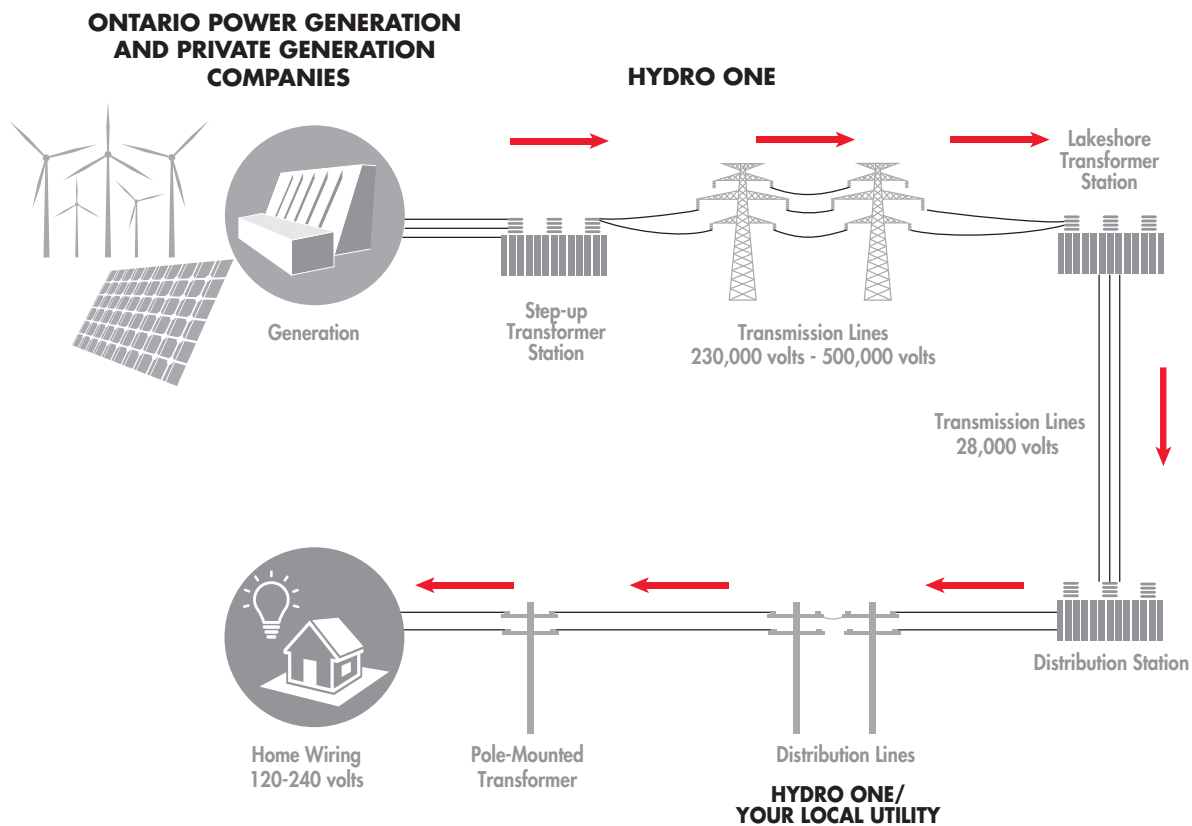
COMMUNITY INFORMATION CENTRE OVERVIEW

Meet our project team and learn more about:

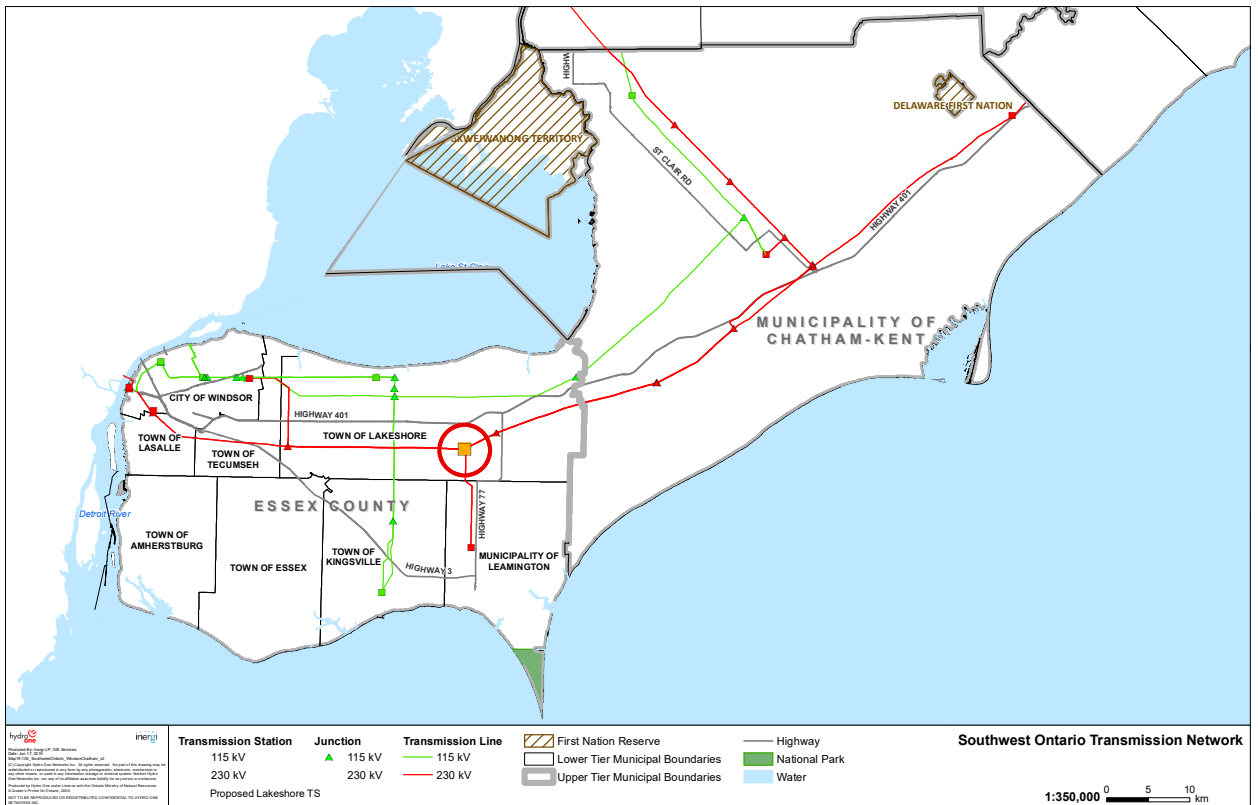
- Project update & description
- Description of the class environmental assessment process
- Selection of the preferred option for the transformer station
- Next steps & anticipated project schedule

We're here to share information, listen to your comments or concerns, obtain your feedback and answer questions.

OUR ROLE IN DELIVERING POWER TO YOU



TRANSMISSION NETWORK SOUTHWESTERN ONTARIO



KEY ORGANIZATIONS



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



Develops plans to ensure electricity needs are met for the benefit of Ontario, both now and in the future.

**Ministry of Environment
Conservation and Parks**

Reviews the environmental assessment process to ensure potential environmental effects are considered before an infrastructure project begins.

PROJECT OVERVIEW

The IESO completed an assessment of the electrical load forecast for Essex County and requested Hydro One to construct a new switching station which will help meet the growing needs of the area.

Hydro One has also identified the need for additional transformers, in order to supply more low-voltage electricity to homes and businesses in the area.

The proposed Lakeshore Transmission Stations Project will involve a new 230 kV switching station and a separate 230/27.6 kV Transformer Station, which together will:

- Improve reliability of the transmission system in Essex County, and;
- Supply the distribution system which carries power to local homes and businesses.

CLASS ENVIRONMENTAL ASSESSMENT

- The project is subject to the Class Environmental Assessment for Minor Transmission Facilities (Hydro One, 2016) process, in accordance with the *Ontario Environmental Assessment Act*.
- This process ensures that transmission projects that have a predictable range of effects are planned and carried out in an environmentally acceptable manner.
- The Class EA process includes:
 - Consultation with municipal, provincial and federal government officials; government agencies; First Nation and Métis communities; potentially affected and interested persons, affected businesses and interest groups.
 - Collection of environmental inventory data and description of the existing baseline conditions.
 - Identification and evaluation of alternative methods of undertaking the project.
 - Identification of potential environmental effects of the project and mitigation measures.

CLASS ENVIRONMENTAL ASSESSMENT

- As part of the Class EA process, a draft Environmental Study Report (ESR) will be made available for a 30-day public review and comment period. An ESR is an easy-to-follow record of the decision making process and generally includes:
 - A description of the need for the project;
 - A description of the existing environment;
 - The preferred solution;
 - The rationale behind the selection of the preferred solution;
 - A description of the Indigenous and stakeholder consultation undertaken; and,
 - A description of the potential environmental effects of the preferred solution and mitigation measures to address these effects.
- Hydro One will make best efforts to resolve concerns raised during public consultation and the draft ESR review period, prior to filing the final ESR with the Ontario Ministry of the Environment, Conservation and Parks (MECP).
- If a concern cannot be resolved, the concerned party may submit a written request ("Part II Order Request") to the MECP during the public review period to request a higher level of assessment, known as an Individual Environmental Assessment.

CLASS EA STUDY AREA

The proposed Lakeshore TS location is best suited to be near the existing Leamington Junction (JCT), where the existing 230kV circuits join.

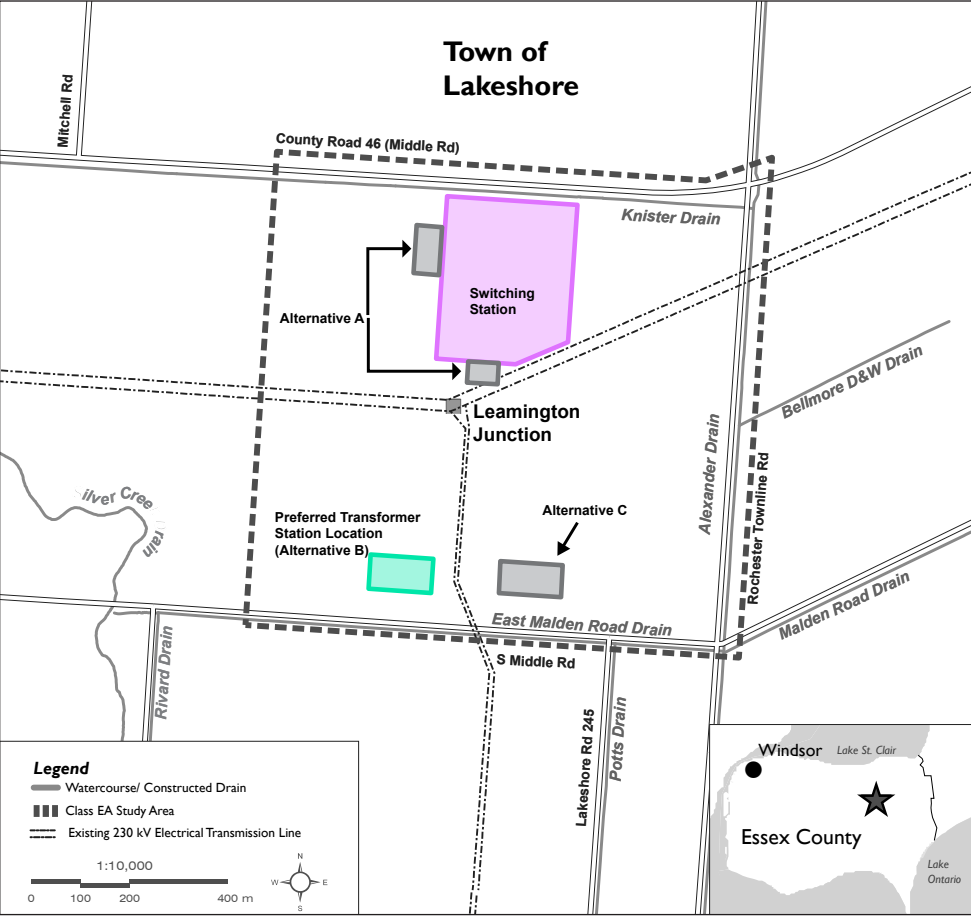


The study is bounded by Middle Road to the north, Rochester Townline Road to the east, South Middle Road to the south, and will extend west approximately 550 metres from the Leamington JCT.

STATION CONFIGURATIONS

Hydro One has identified one technically feasible configuration for the 230 kV switching station and assessed three feasible configurations for the locations of the transformer station.

Based on the research and consultation to date, the preferred location of the transformer station has been selected.



EVALUATION OF THE PREFERRED CONFIGURATION

CRITERIA	OPTION A	OPTION B	OPTION C
TECHNICAL & COST			
Constructability		Preferred	
Cost		Preferred	Preferred
NATURAL ENVIRONMENT			
Vegetation		No Preference	
Aquatic habitat/waterbodies		No Preference	
Terrestrial wildlife		No Preference	
Potential natural hazards		No Preference	
Species at risk or sensitive species		No Preference	
SOCIO ECONOMIC			
Distance from residences		Preferred	
Proximity to existing infrastructure	Preferred	Preferred	
Total project footprint/size, and effects to agricultural land	Preferred		
Archaeology & built heritage resources		No Preference	
Source water protection		No Preference	
Indigenous interests		No Preference	

Based on the outcome of the evaluation, Option B is the most preferred for the project.

PREFERRED CONFIGURATION



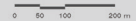
HYDRO ONE – LAKESHORE TRANSMISSION STATIONS PROJECT CLASS ENVIRONMENTAL ASSESSMENT

PREFERRED ALTERNATIVE

- Class EA Study Area
- Existing Transmission Tower
- New / Rebuilt Transmission Tower
- Transmission Line
- Station Fence
- Proposed Site Plan
- Proposed Station Entrance
- Proposed Site Access
- Watercourse/Constructed Drain
- Switching Station
- Transformer Station



1:5,000



MAP CREATED BY LE
MAP CHECKED BY DE
MAP PROJECTION: NAD 83 UTM Zone 17N



CONSTRUCTION ACTIVITIES

The construction phase for the project will involve the following activities:

- Site preparation such as vegetation removal, grading, temporary access and laydown area
- Construction of temporary 230 kV bypass line to ensure continued power
- Installation of station fences, entrances, concrete foundations and station drainage
- Installation of new transmission line structures and station electrical equipment
- Delivery and installation of new transformers
- Connection of transmission lines and station electrical equipment, testing and commissioning
- Site clean up and reclamation
- Hydro One will be installing additional distribution lines to carry power from the new stations to the customers in the vicinity. These distribution power lines are expected to be on the road allowance of South Middle Rd, County Rd 31, Lakeshore Rd 243, Lakeshore Rd 245, and Rochester Townline road. Hydro One will be contacting affected property owners and road authorities in advance of construction.

MINIMIZING CONSTRUCTION AND PROJECT EFFECTS

The following mitigation measures will be implemented to minimize potential construction and project effects:

- Dust, sediment and erosion controls, as required
- Hydro One will work in accordance with local bylaws with respect to noise and working hours, and if necessary obtain permit(s)
- Hydro One will minimize effects to existing agricultural resources to the extent feasible
- Landscaping and visual screening
- Hydro One does not anticipate power interruptions during construction of the switching and transformer stations.

TYPICAL CONSTRUCTION EQUIPMENT



Boom truck



Cable puller



TYPICAL HYDRO ONE SWITCHING STATION AND TRANSFORMER STATION



Transformer station



Switching station

NEXT STEPS

- Hydro One will complete environmental surveys within the study area to complete the identification of potential environmental effects.
- Hydro One will continue to consult Indigenous communities, government agencies, municipal staff, elected officials, interest groups and the public to obtain feedback and answer questions about the project.
- Hydro One will release a Draft Environmental Study Report (ESR) for a 30 day public review, anticipated for release later this fall.
- If no Part II Order Requests are submitted during the 30 day review period, Hydro One will file the final ESR with the Ministry of the Environment, Conservation and Parks, concluding the Class EA.

ANTICIPATED PROJECT SCHEDULE

ACTIVITY	TIMELINE
Notice of Commencement of the Class Environmental Assessment	Early June 2019
Community Information Centre #1 Introduction of proposed project and alternatives	June 26, 2019
Community Information Centre #2 Presentation of preferred alternative	October 1, 2019
Draft Environmental Study Report Review period (30 days)	November 2019
File final Environmental Study Report with Ministry of the Environment, Conservation and Parks (MECP)	January 2020
Detailed engineering and permitting	Early 2020
Anticipated start of construction	Mid 2020
Anticipated construction completion	Late 2023

THANK YOU FOR JOINING US TODAY

Your input is important to us.

Please share your feedback with our team and complete a comment form before you go.

To provide comments or to be added to the project contact list, please contact the Community Relations team at:

1.877.345.6799

Community.Relations@HydroOne.com

For additional project information please visit:

www.HydroOne.com/Lakeshore



HydroOne.com



Customer Communications Centre

1-888-664-9376

Monday – Friday 7.30AM – 8PM EST



Power outages & emergencies

1-800-434-1235

24 hours/7 days



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