

WE  
WELCOME  
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# LAKESHORE TRANSFORMER STATION

# COMMUNITY INFORMATION CENTRE OVERVIEW

Meet our project team and learn more about:

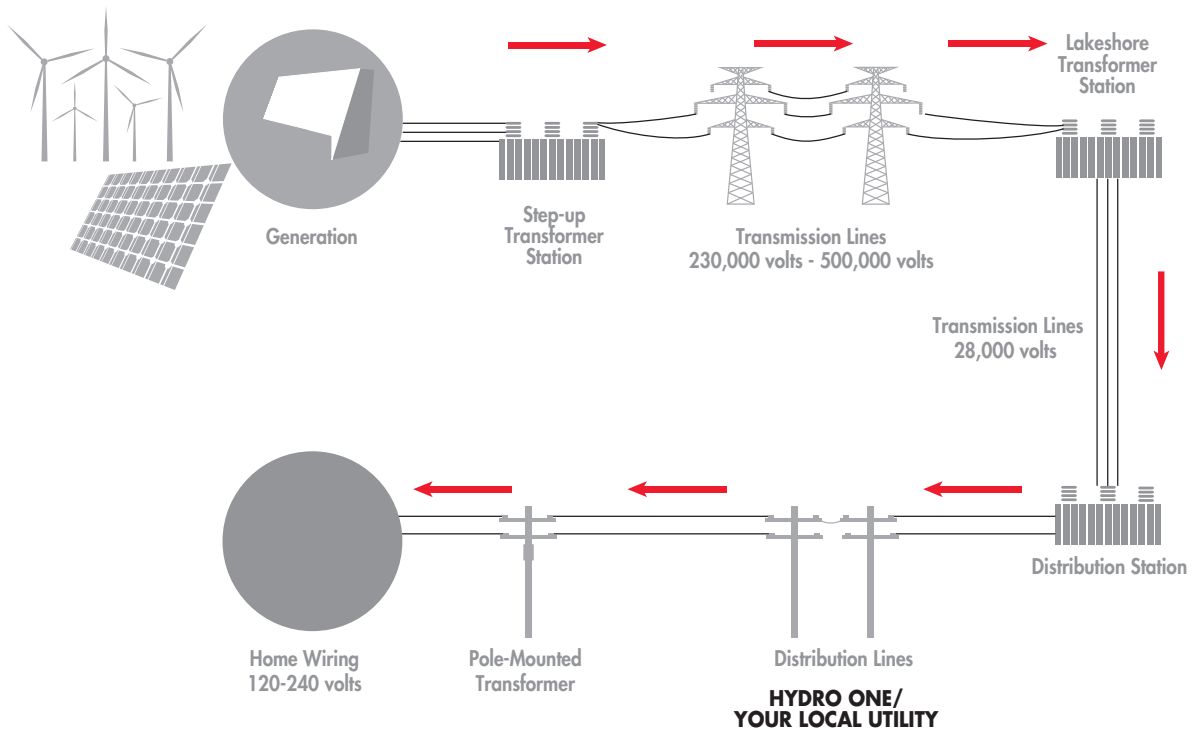
- Background and introduction to the electrical transmission system
- Project overview and description
- Description of the Class Environmental Assessment process
- Project area and preliminary evaluation criteria
- Next steps and anticipated project schedule

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

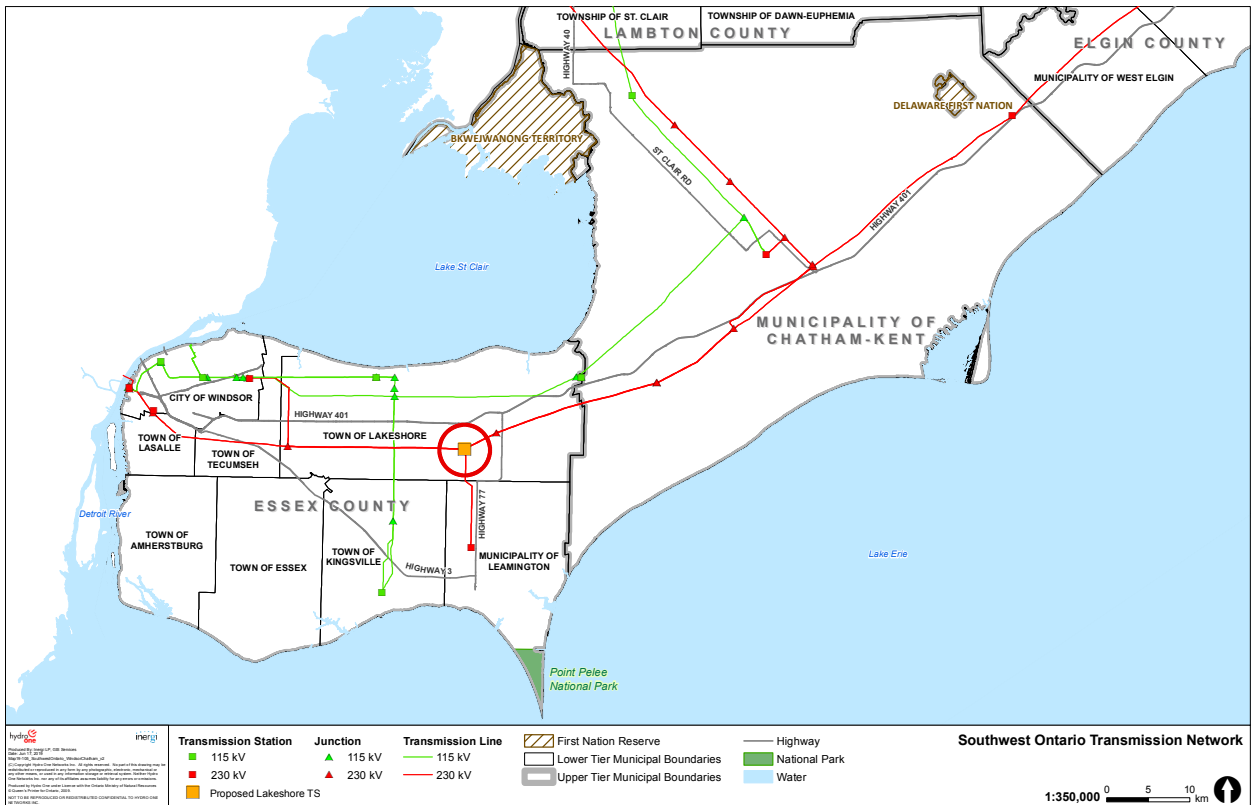
# OUR ROLE IN DELIVERING POWER TO YOU

**ONTARIO POWER GENERATION AND PRIVATE GENERATION COMPANIES**

**HYDRO ONE**



# 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 electricity needs for Essex County and requested Hydro One to construct a new switching station which will help meet the growing needs of the area.

The proposed Lakeshore Transformer Station will house switching facilities and four 230/27.6 kV transformers that will:

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



Example of typical switching facility

# CLASS ENVIRONMENTAL ASSESSMENT

- The project is subject to the Class Environmental Assessment (EA) 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.

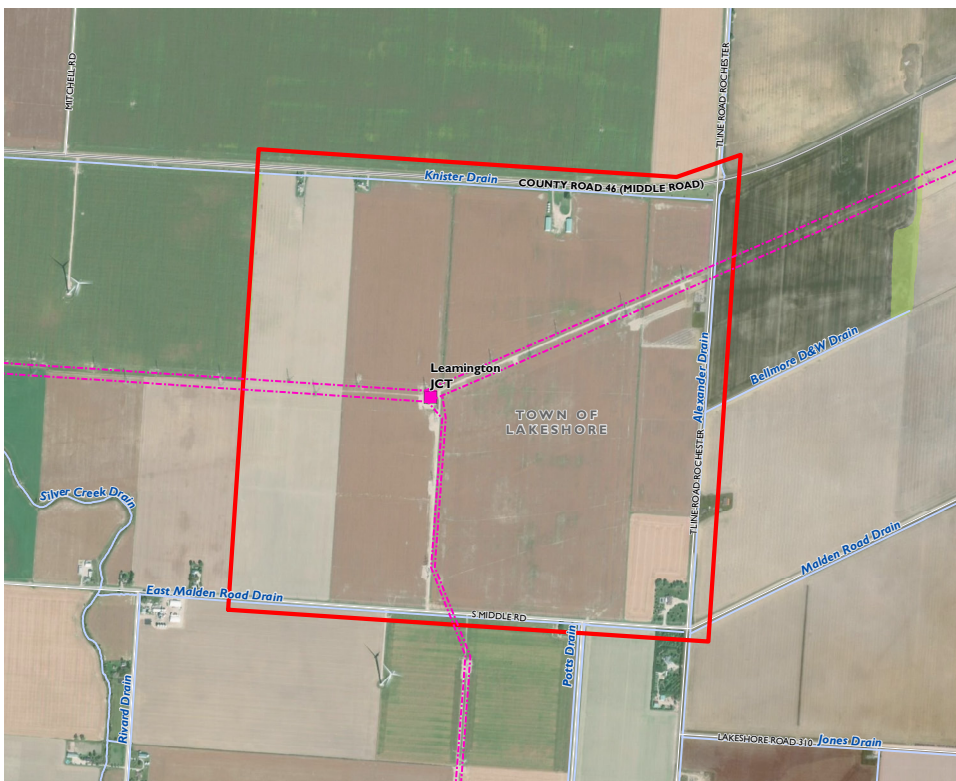
# CLASS ENVIRONMENTAL ASSESSMENT

- 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 the public consultation period and in advance of 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 for a higher level of assessment, known as an Individual Environmental Assessment.



# CLASS EA STUDY AREA

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



## HYDRO ONE – LAKESHORE TS CLASS ENVIRONMENTAL ASSESSMENT

### PROJECT LOCATION AND CLASS EA STUDY AREA

- Existing 230 kV Electrical Transmission Line
- Junction
- Class EA Study Area
- Watercourse/Constructed Drain
- Woodland



MAP CREATED BY GVI  
 MAP SOURCES BY AIV  
 MAP PROJECTION: NAD 1983 UTM Zone 17N



The study area will be 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 m from the Leamington JCT.

# ALTERNATIVE STATION CONFIGURATIONS

Hydro One has only identified one technically feasible configuration for the 230 kV switchyard and associated equipment, which is to the north of the existing transmission corridor and Junction.

Within the Study Area, Hydro One has identified three possible configurations of the transformers and associated equipment, as shown on the table map. As part of the Class EA, we will be conducting an evaluation of these alternatives to select one preferred alternative.

# EVALUATION CRITERIA

CATEGORY	CRITERIA
<p>Technical &amp; Cost Considerations</p>	<ul style="list-style-type: none"> <li>• Ease of construction</li> <li>• Cost</li> </ul>
<p>Natural Environment Considerations</p>	<ul style="list-style-type: none"> <li>• Potential effect on vegetation</li> <li>• Potential effect on water bodies or aquatic habitat</li> <li>• Potential effect on terrestrial wildlife</li> <li>• Proximity to potential natural hazards (erosion, flooding)</li> <li>• Potential effect on species at risk/sensitive species</li> </ul>
<p>Socio-Economic Considerations</p>	<ul style="list-style-type: none"> <li>• Proximity to residences</li> <li>• Proximity to existing infrastructure</li> <li>• Potential effect on agricultural lands and resources</li> <li>• Potential effect on archaeological or built heritage resources</li> <li>• Potential effect to Indigenous interests (species of significance, cultural/traditional/ historical lands and resources)</li> </ul>

# NEXT STEPS

- Hydro One will continue to conduct environmental surveys and research within the study area to inform the evaluation of alternatives and 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.
- The project team will consider all feedback received and evaluate the project alternatives.
- A preferred alternative will be presented at the Community Information Centre #2 in September 2019.
- Following the second Community Information Centre, Hydro One will release a Draft Environmental Study Report (ESR) for 30-day public review.
- 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

# 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 2019
Community Information Centre #2 Presentation of preferred alternative	September 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](http://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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