

APPENDIX 3-D

Public Community Open House #1 Materials

North Shore Link Project

You're Invited

Join us at a Community Open House in your community to learn more about Hydro One's North Shore Link project

September 2024

Please join us at one of our drop-in Community Open House sessions to meet with Hydro One team members and learn about the North Shore Link project. This project will help meet growing electricity needs in the region, strengthen the connection between the northeast and the northwest, and improve the overall resiliency of the northern Ontario transmission network.

Project description

In July 2024, Hydro One initiated a Class Environmental Assessment (Class EA) to construct a new double-circuit 230 kilovolt transmission line between Mississagi Transformer Station (TS), located near Wharncliffe, and Third Line TS, located in the City of Sault Ste. Marie. As part of the Class EA, Hydro One has identified alternative routes as shown in the attached map. These alternative routes will be studied and evaluated to ultimately select a preferred route for the new line.

This project involves work at the connecting stations to facilitate the new transmission line, including an expansion at Mississagi TS. In addition, to support the overall operation of the transmission system, an expansion at Algoma TS, located east of Algoma Mills, will be required to accommodate additional station equipment.

To learn more about the Class EA process and view an interactive map of the alternative routes and project study area, visit HydroOne.com/NSL.

We want to hear from you

Early, meaningful, and open engagement is a top priority for Hydro One. Receiving feedback from Indigenous communities, members of the public, businesses, government agencies, and other interested parties will be instrumental to inform the Class EA process, route selection and overall project planning.

Freedom of Information and Protection of Privacy Act: All personal information included in your request – such as name, address, telephone number and property location – is collected, under the authority of section 30 of the *Environmental Assessment Act* and is collected and maintained for the purpose of creating a record that is available to the general public. As this information is collected for the purpose of a public record, the protection of personal information provided in the *Freedom of Information and Protection of Privacy Act* (FIPPA) does not apply (s.37). Personal information you submit will become part of the available public record unless you request that your personal information remain confidential



See reverse for map



Community Open House locations and details

Sault Ste. Marie

Tuesday, September 17th

2:00 p.m. – 7:00 p.m.

Fairfield Inn and Suites
633 Great Northern Rd,
Sault Ste. Marie

Searchmont

Wednesday, September 18th

4:00 p.m. – 7:00 p.m.

Searchmont Community Centre
734 Hwy 532
Searchmont

Echo Bay

Thursday, September 19th

4:00 p.m. – 7:00 p.m.

Echo Bay Elks Lodge
96 Church St.
Echo Bay

Contact Us

We're listening and we'd like to hear from you. If you have any questions or would like to be added to the project contact list, please reach out to us at:

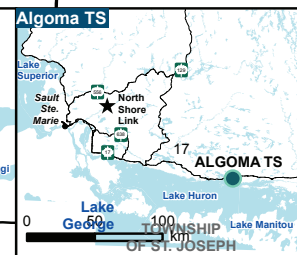
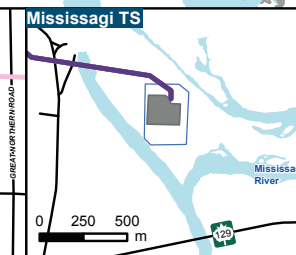
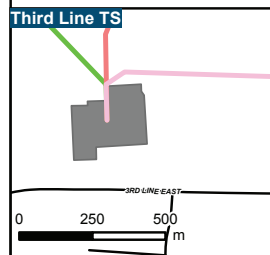
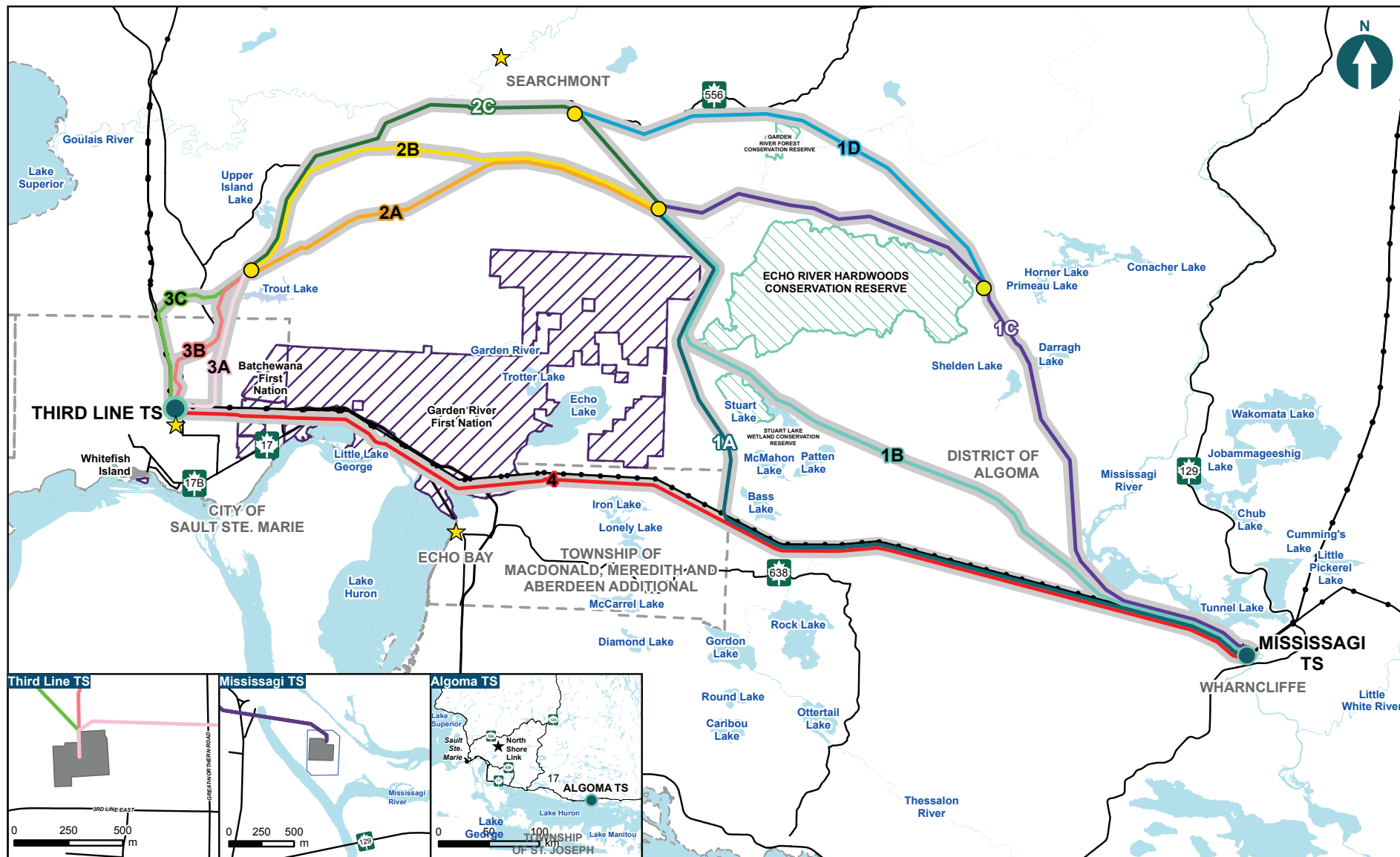


1.877.345.6799



**Community.Relations
@HydroOne.com**

HydroOne.com/NSL



- Transformer Station (TS) - Existing Transmission Line - Alternative Routes - Route Segment 1A - Route Segment 1B - Route Segment 1C	- Route Segment 1D - Route Segment 2A - Route Segment 2B - Route Segment 2C - Route Segment 3A - Route Segment 3B - Route Segment 3C - Route 4	- Highway - First Nation Reserve - Conservation Reserve - Municipal Boundary - Existing Station Boundary	- Local Study Area (500 M on either side of the route centerline) - Station Expansion Area - Community Open House Location - Convergent Point
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North Shore Link

Environmental Assessment

1:350,000

0 5 10 km

How the system works

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

Regulates the electricity market in Ontario, including electricity rates



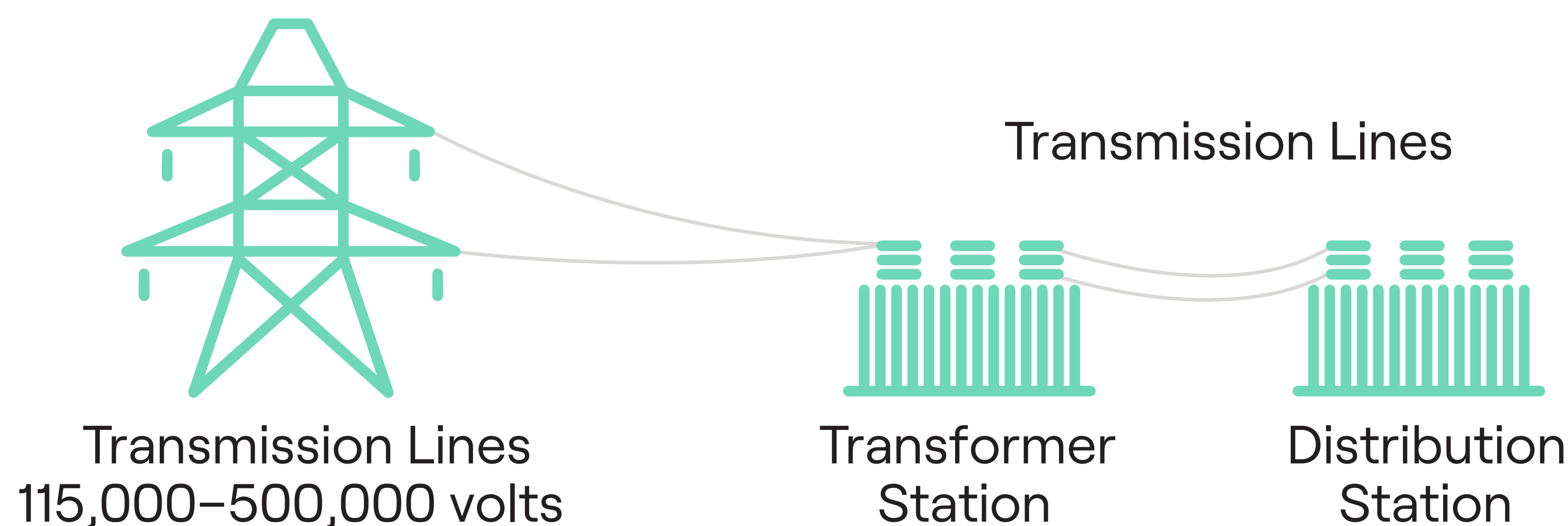
Hydro One's role in delivering power to you

We energize life for people and communities, helping Ontarians live a better and brighter future. In your community we distribute power directly to homes and businesses as well as provide power to local distribution companies.

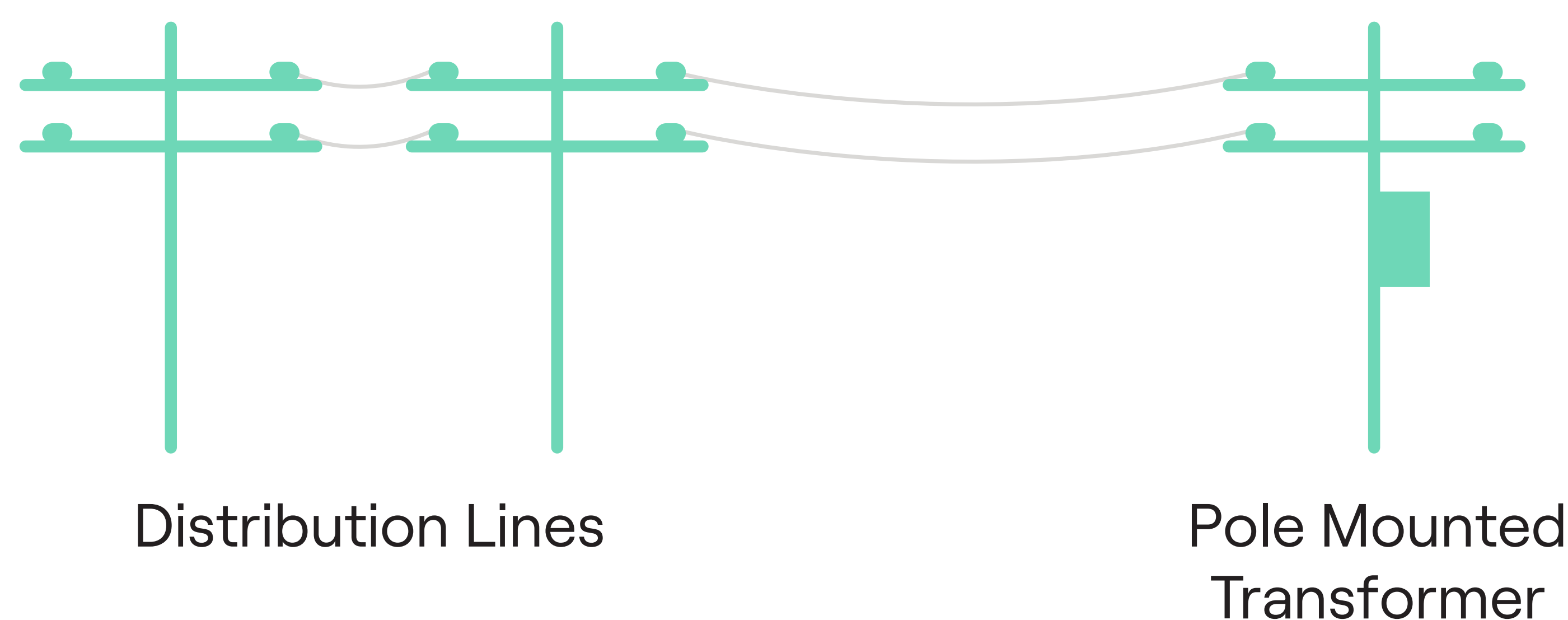
Ontario Power Generation and Private Generating Companies



Hydro One or Licensed Transmitter



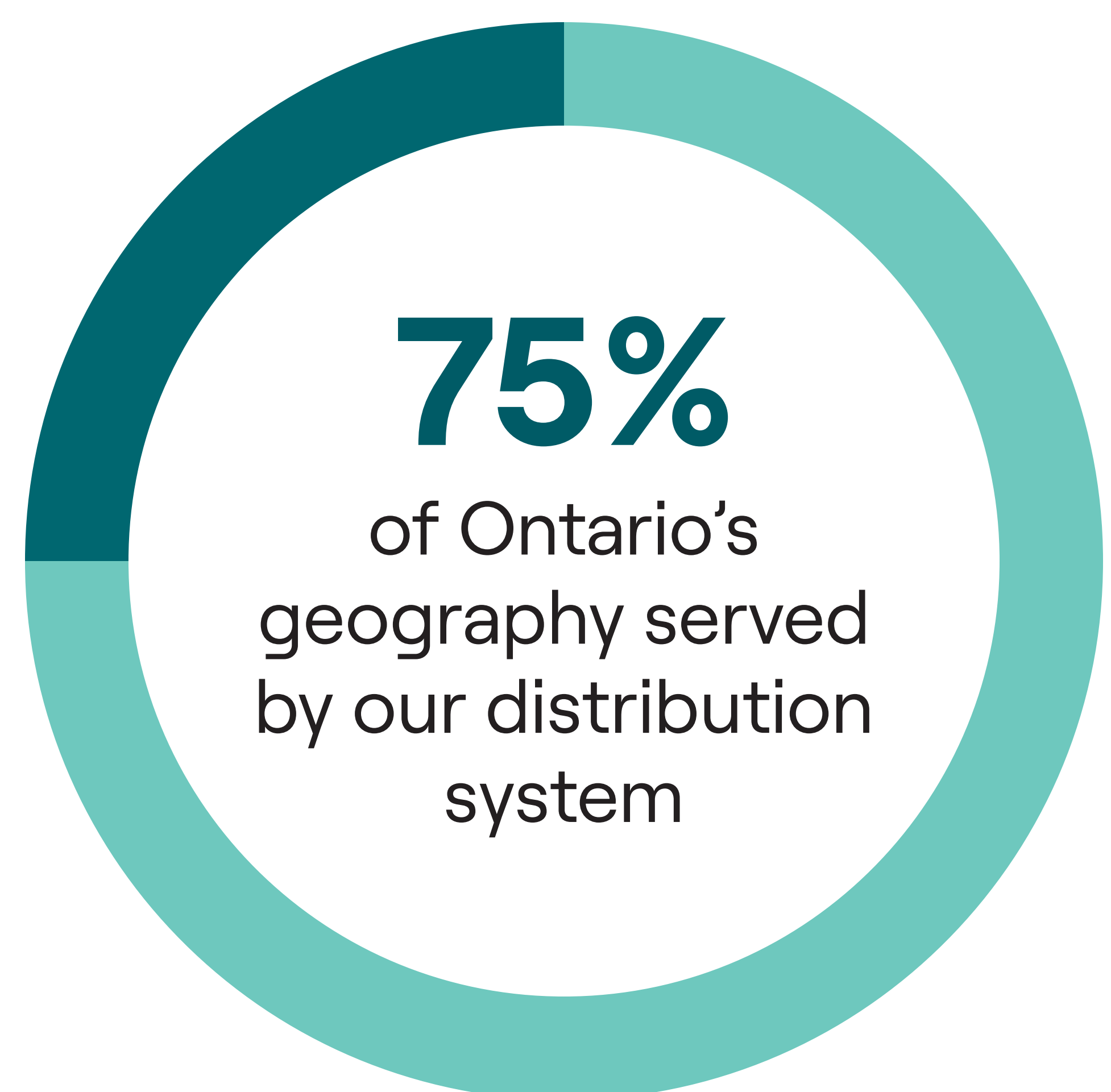
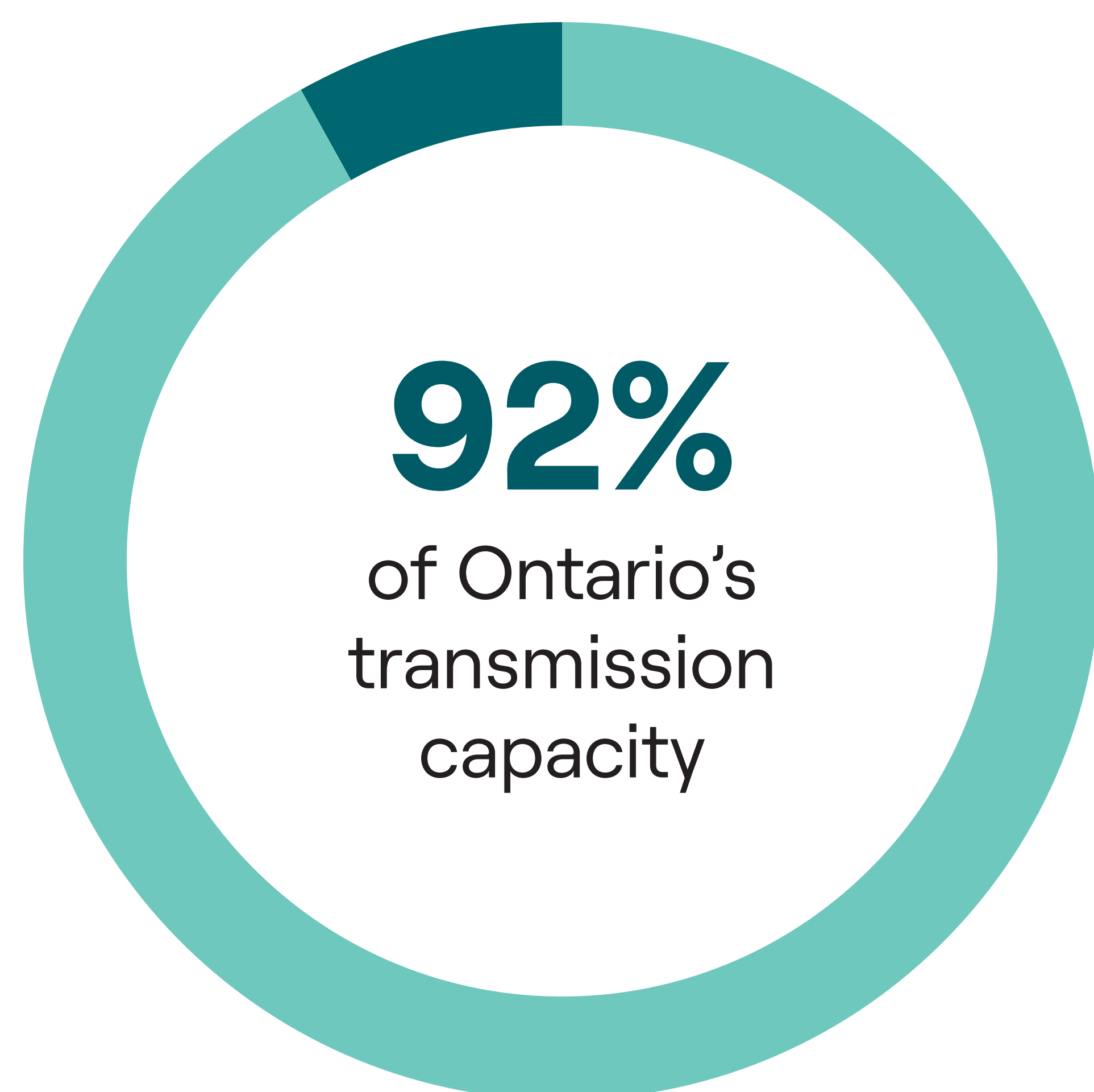
Hydro One or Local Distribution Company



Delivery to your home or business

Hydro One energizes life for people and communities

Our team of approximately 9,300 skilled and dedicated employees proudly build and maintain a safe and reliable electricity system which is essential to energizing life in communities across the province.



Hydro One's commitment

Hydro One is supporting communities where we live and work. We are proud to serve northeastern Ontario and want to build a line that communities can see themselves reflected in.

We are here to listen, gather feedback and provide up-to-date information every step of the way. Our team wants to hear community voices to help ensure the project continues to consider your interests.

Health & Safety

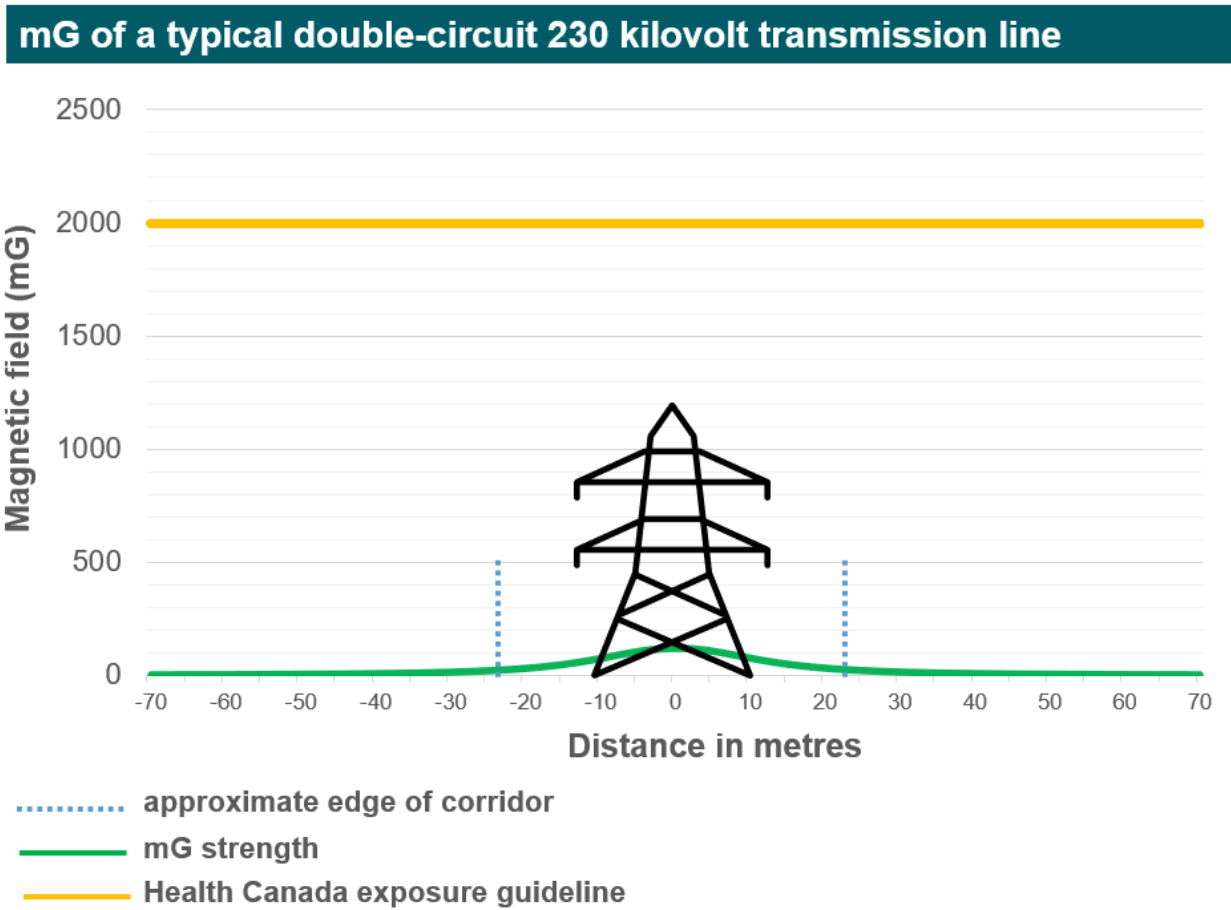
Health & safety background

- Everything is rooted in safety at Hydro One.
- Hydro One has a dedicated team that regularly monitors global studies around electric and magnetic fields (EMF) and ensures that our infrastructure is built and maintained following best practices and industry standards.
- We look to **Health Canada**, the **World Health Organization** and the **International Commission on Non-Ionizing Radiation Protection (ICNIRP)**, for guidance on EMF and our approach.
- Based on global studies which have and continue to be regularly monitored, these organizations indicate that members of the public do not need to take precautions to protect from fields produced by extremely low frequencies such as transmission lines.

Key facts

- Electricity produces fields which are referred to as EMFs. **EMFs are invisible forces found everywhere electricity is used** including household appliances, power cords, and wires.
- They are strongest when close to their source. As you move away from the source, the **strength of the fields fades rapidly**.
- In North America, all electricity including transmission lines, operate at 60 hertz, which is considered to be extremely low frequency.
- World Health Organization (WHO) states that “despite extensive research, to date there is **no evidence** to conclude that exposure to low level electromagnetic fields is harmful to human health.”
- Health Canada states that members of the public do not need to take precautions to protect from fields produced by electricity (extremely low frequency) because exposures are far below the limits recommended by the ICNIRP guidelines (The International Commission on Non-Ionizing Radiation Protection)
- ICNIRP’s guidelines indicate that general exposure at low frequency, such as transmission lines, should **not exceed a level of 2000 milligauss (mG)**.
- To help further put this into context, household appliances such as a **vacuum operates at 300 mG**, a microwave at 200 mG and a washing machine at 20 mG.

Below is an example chart that shows a double-circuit 230kV transmission line. The green line represents magnetic field modelling as it extends from under the wires and to the edge of the right-of-way. This modelling is compared against Health Canada’s recommended limit of 2000 mG (yellow horizontal line). The tower represents the middle of the transmission line.



Common household sources of magnetic fields

Appliance	Median mG
Electric Ovens	9 mG at 6 inches
Coffee Makers	7 mG at 6 inches
Refrigerators	2 mG at 6 inches
Vacuum Cleaner	300 mG at 6 inches
Microwave	200 mG at 6 inches
Portable Heater	100 mG at 6 inches
Washing Machines	20 mG at 6 inches

EMF and the Natural Environment

The World Health Organization has studied EMF effects on species and the natural environment.

Their findings include:

- **little or no evidence** of significant environmental impact to aquatic ecosystems
- **no effects** to plants at the levels normally found in the environment, nor even at field levels directly under power lines up to 765 kV
- **no adverse effects** found on cattle grazing below power lines

Additional resources

- <https://www.hydroone.com/power-outages-and-safety/corporate-health-and-safety/electric-and-magnetic-fields>
- <https://www.canada.ca/en/health-canada/services/health-risks-safety/radiation/everyday-things-emit-radiation/power-lines-electrical-appliances.html>
- <https://www.who.int/news-room/questions-and-answers/item/radiation-electromagnetic-fields>
- https://www.jeic-emf.jp/assets/files/Fact%20Sheets/facr_t_sheet_Effects%20of%20EMF%20on%20the%20environment.pdf
- <https://www.icnirp.org/cms/upload/publications/ICNIRPLFgdl.pdf>

We are committed to understanding and addressing any health concerns individuals may have. In the meantime, if you have any questions, please contact Hydro One's Community Relations team:

1-877-345-6799

Community.Relations@HydroOne.com