



DES JOACHIMS TRANSFORMER STATION TO PEMBROKE TRANSFORMER STATION

**TRANSMISSION LINE
REFURBISHMENT**



PROJECT NEED AND BACKGROUND

This 115 kilovolt (kV) transmission line (Circuit D6) was first constructed in the 1940s and is approaching its end-of-life. The refurbishment is necessary to ensure a safe and reliable electricity supply for the region in the future.

The transmission line runs between the Des Joachims Transformer Station (TS) and Pembroke TS and:

- Is approximately 90 kilometres long
- Travels through the towns of Deep River, Laurentian Hills, Petawawa and the Township of Laurentian Valley
- Spans across a variety of terrain, including Canadian Forces Base (CFB) Petawawa
- Supplies power to the Deep River Distribution Station (DS) and Petawawa DS

PROJECT OVERVIEW

The proposed refurbishment of the transmission line will include:

- Replacing approximately 400 wood pole structures between Des Joachims TS and Pembroke TS
- Removing a section of idle transmission line at Tee Lake Junction (JCT)
- Replacing and installing:
 - Electrical conductors (wire)
 - Wood pole and composite pole structures
 - Optical Ground Wire (OPGW)
 - Conventional shield wire

Work will be done primarily with equipment such as bucket trucks, all-terrain vehicles and heavy machinery, with some material flown into the work sites by helicopter.

PROJECT APPROVALS

This project is subject to the Class Environmental Assessment for Minor Transmission Facilities (Hydro One, 2016) process, in accordance with the Ontario *Environmental Assessment Act*.

The Class EA process ensures that transmission projects with a predictable range of effects are planned and carried out in an environmentally acceptable manner. It also contains screening provisions that may apply to this project.

The Class EA process will identify potential environmental effects related to:

- First Nation and Métis communities
- Businesses, residential property owners, and interest groups
- Planned land uses and existing infrastructure
- Terrestrial and aquatic resources
- Environmentally sensitive areas and species
- Archaeological and heritage resources
- Recreational resources

The portion of line through CFB Petawawa is subject to federal authorization, which will be conducted in parallel with provincial approvals.

ENVIRONMENTAL AND VEGETATION MANAGEMENT

Environmental mitigation measures that may be implemented during construction include:

- Protecting cultural heritage resources
- Minimizing soil erosion and compaction
- Minimizing effects on terrestrial, aquatic and avian species
- Implementing sediment control and tree protection measures
- Controlling noise, mud, dust and traffic disturbance during construction

Some vegetation maintenance will be required before construction begins and will focus on re-establishing existing access trails and the transmission line corridor.

Access to some trails may be restricted during construction including Silver Spoons Trail and Research Forest Trail.

CONSTRUCTION TIMELINES

| PHASE 1 | LINE SECTION |
|-------------------------|--|
| July 2019 to Sept. 2019 | Petawawa JCT – Pembroke TS |
| PHASE 2 | Des Joachims TS – Deep River DS (Part 1) |
| Oct. 2019 to Nov. 2019 | • Remove Tee Lake Tap |
| PHASE 3 | Chalk River JCT - Petawawa JCT |
| Dec. 2019 to June 2020 | |
| PHASE 4 | Deep River DS – Chalk River JCT |
| June 2020 to Aug. 2020 | |
| PHASE 5 | Petawawa JCT – Craig DS - Petawawa DS |
| Sept. 2020 to Nov. 2020 | |
| PHASE 6 | Des Joachim TS – Deep River DS (Part 2) |
| Dec. 2020 to Apr. 2021 | |

As part of a regular maintenance schedule, some wood pole structures between Petawawa JCT and Forest Lea JCT will be replaced in April. Residents in this area have been notified of this work.

Note: Final construction schedule will be determined upon the completion of required environmental approvals and obtaining required permits.

YOUR INPUT IS IMPORTANT TO US!

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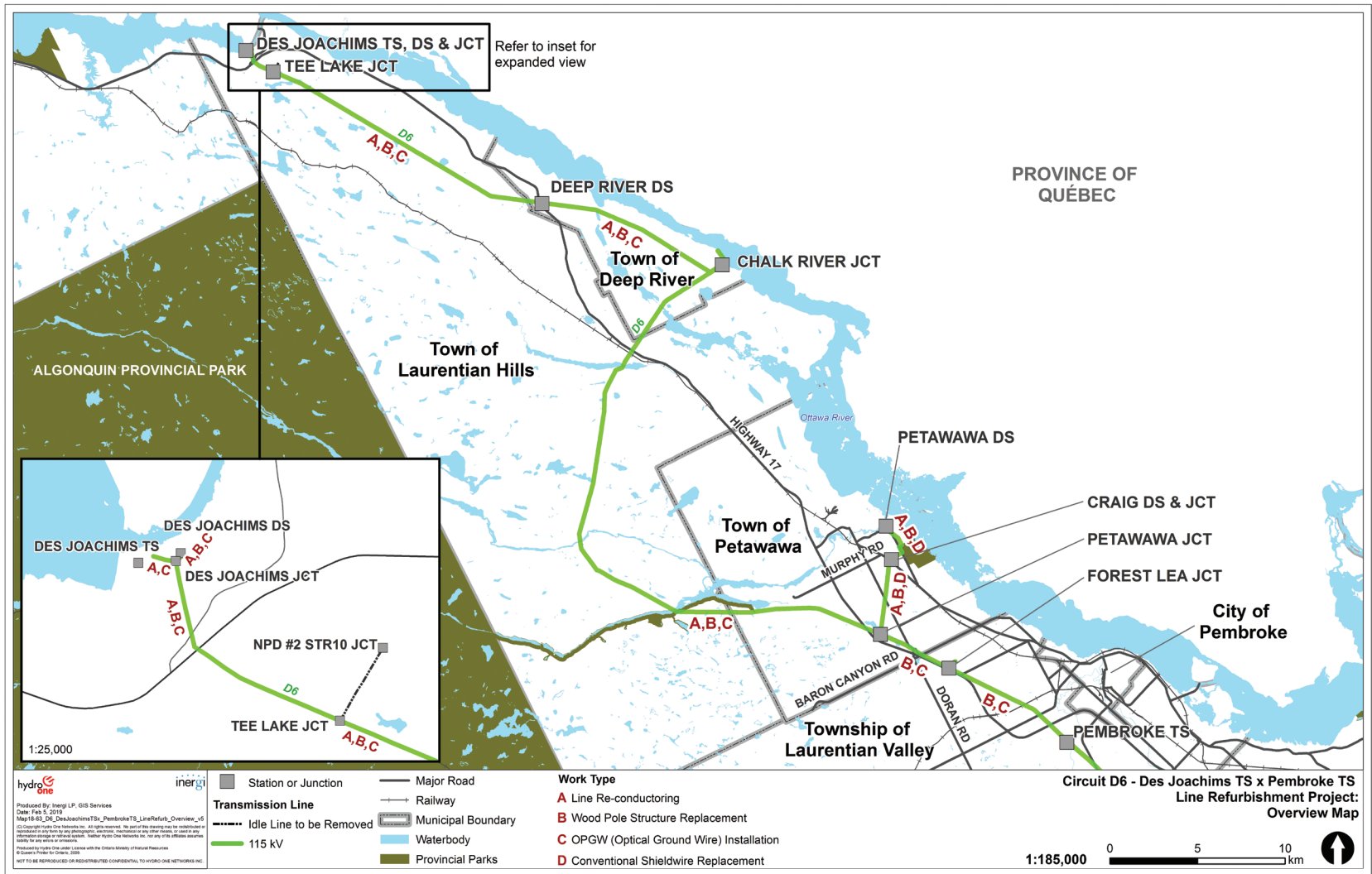


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PROJECT MAP



Some residential outages will be required intermittently during construction. Planned outages will be scheduled during the spring or fall and communicated in advance to Hydro One customers.