

REBUILDING THE 120-kV LINES BETWEEN VIGNAN, TEMPLETON AND INTERCONNEXION-MACLAREN SUBSTATIONS

PUBLIC CONSULTATION • SPRING 2016

Hydro-Québec plans to rebuild a number of lines located in the city of Gatineau between Vignan substation, on Boulevard Gréber, and Interconnexion-Maclaren substation, in the Masson-Angers sector.

A PROJECT FOR THE CITY OF GATINEAU

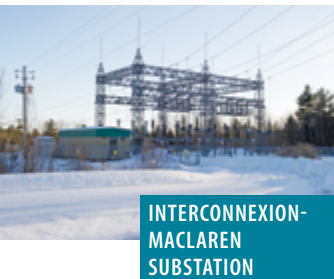
- Continued high-quality service for customers
- Optimized to re-use existing rights-of-way
- One line replaces two – fewer towers over 4 km
- Investment of over \$30 million



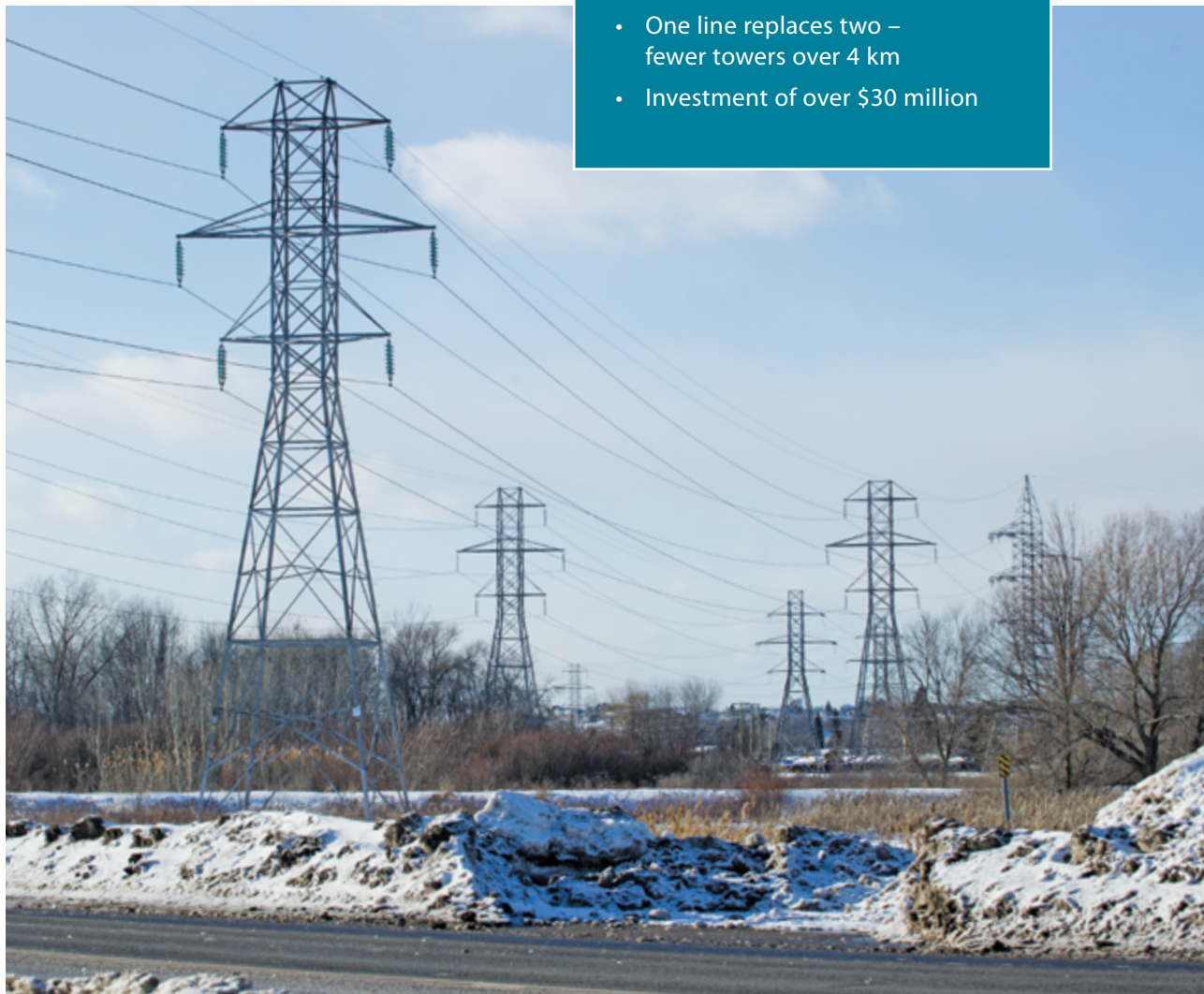
VIGNAN SUBSTATION

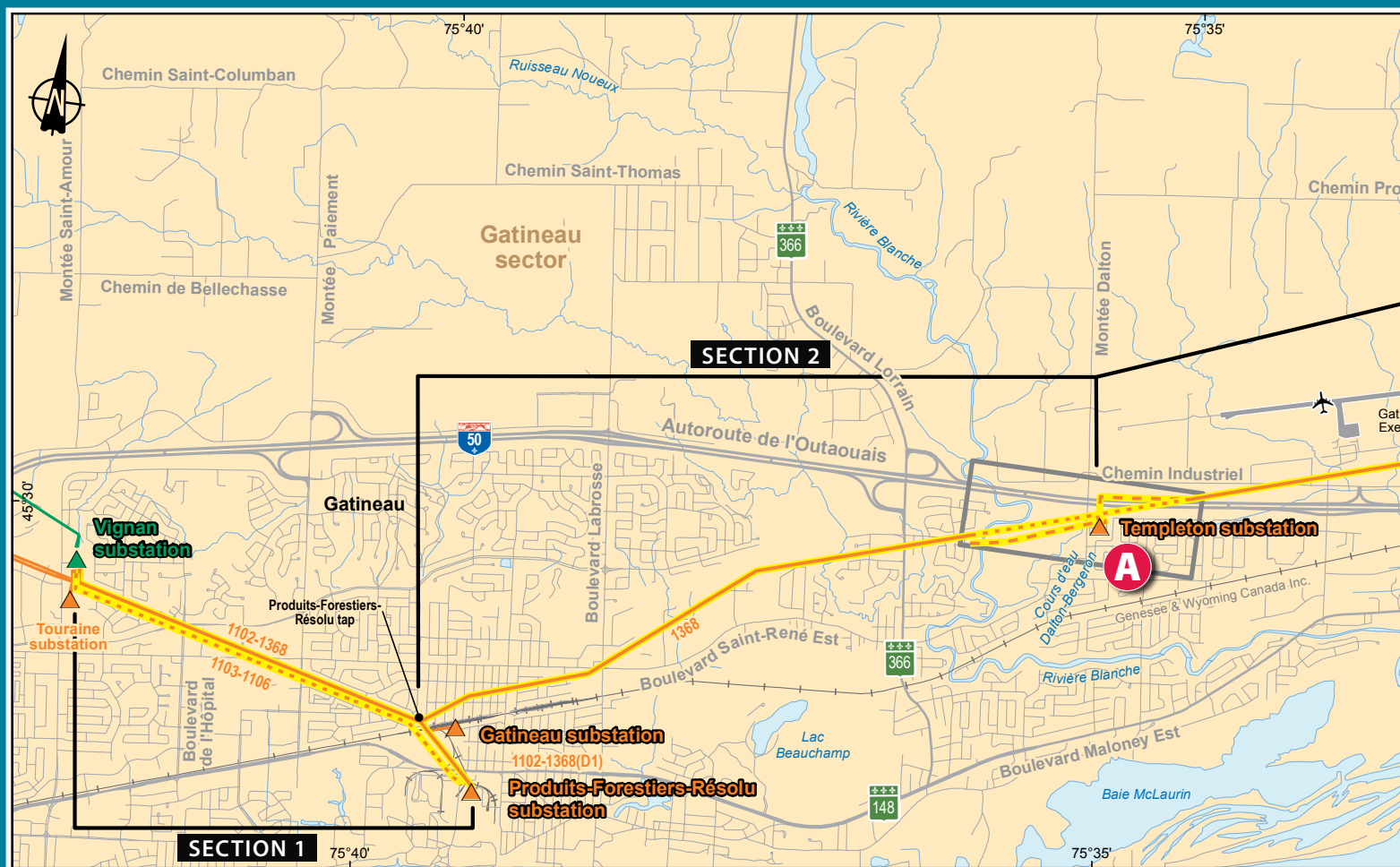


TEMPLETON
SUBSTATION



INTERCONNEXION-
MACLAREN
SUBSTATION





PROJECT DESCRIPTION

SECTION 1

Vignan substation to Produits-Forestiers-Résolu substation

Two 120-kV* lines run parallel in this 4.1-km-long segment. Hydro-Québec will dismantle both lines and rebuild a single line in the existing right-of-way. The 42 towers currently in place will therefore be replaced with approximately 15 new towers.

SECTION 2

From the tap to Templeton substation

In this 6.4-km section, Hydro-Québec will replace the single-circuit line with a new double-circuit line between the tap, at the corner of Gouin and Laviolette streets, and Templeton substation, located on Montée Dalton.

Where possible, towers will be rebuilt on their existing locations.

Due to the presence of a zone subject to mass movements near the Rivière Blanche, the line must be rerouted. A 1.1-km section of the line will have to be moved about 40 m south of the current line corridor (see Map A).

SECTION 3

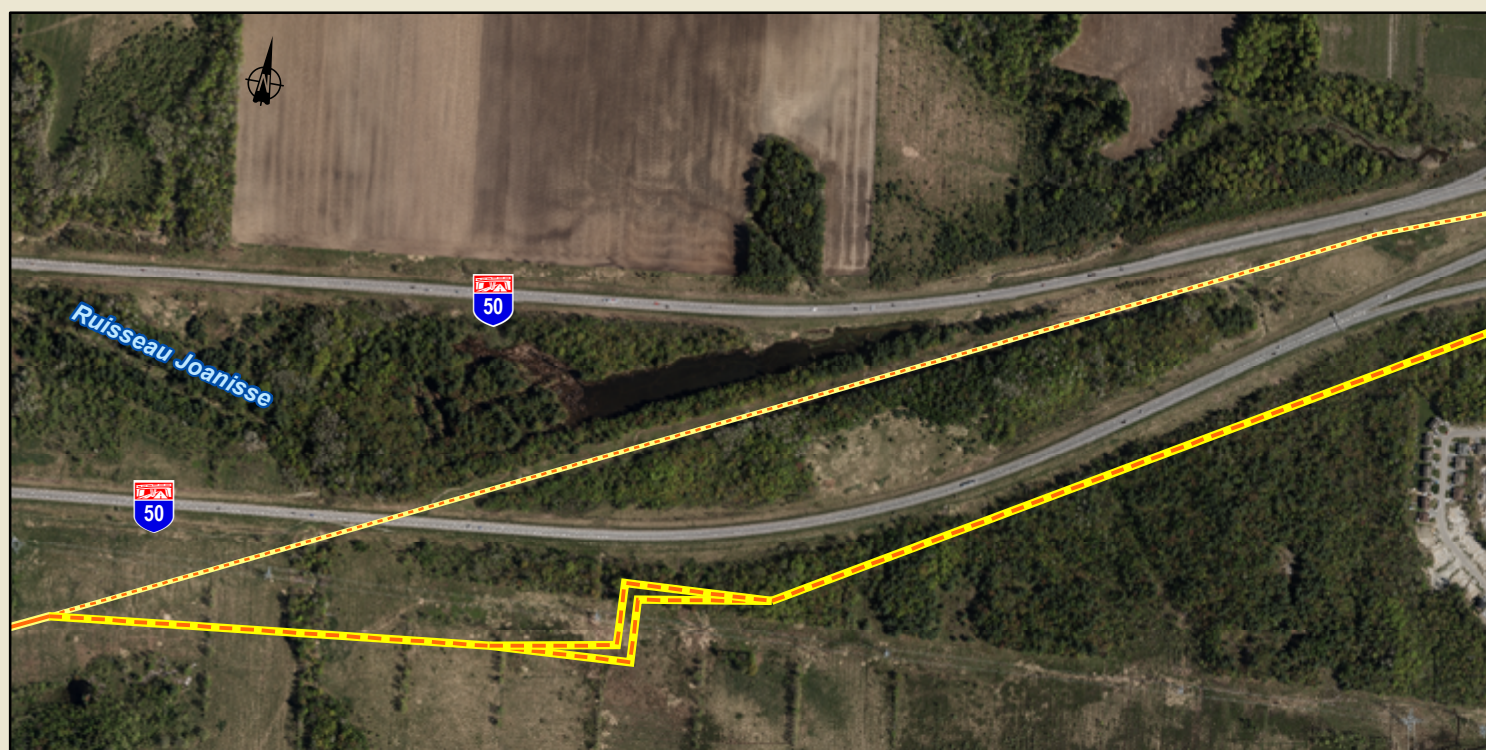
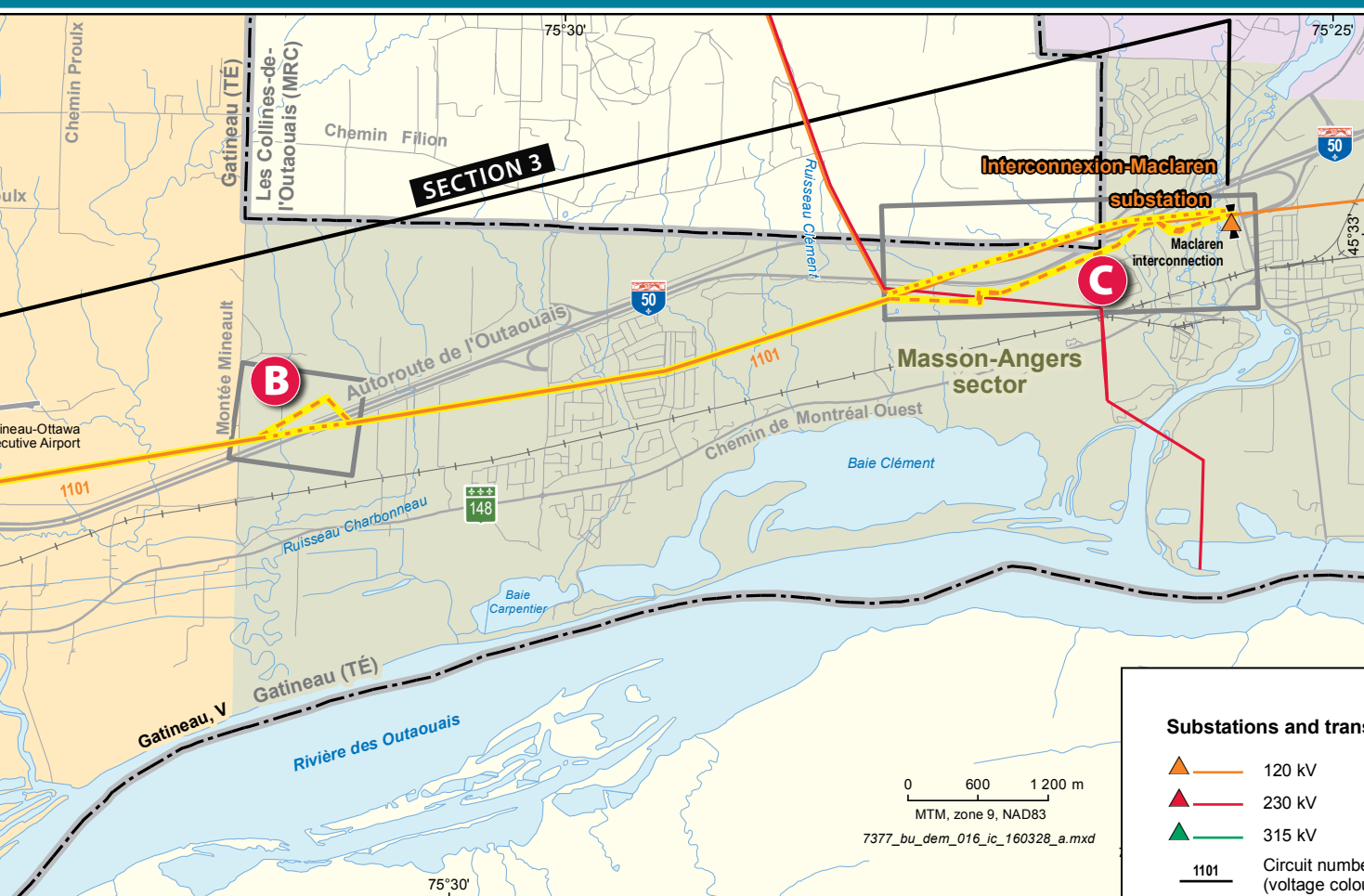
Templeton substation to Interconnexion-Maclaren substation

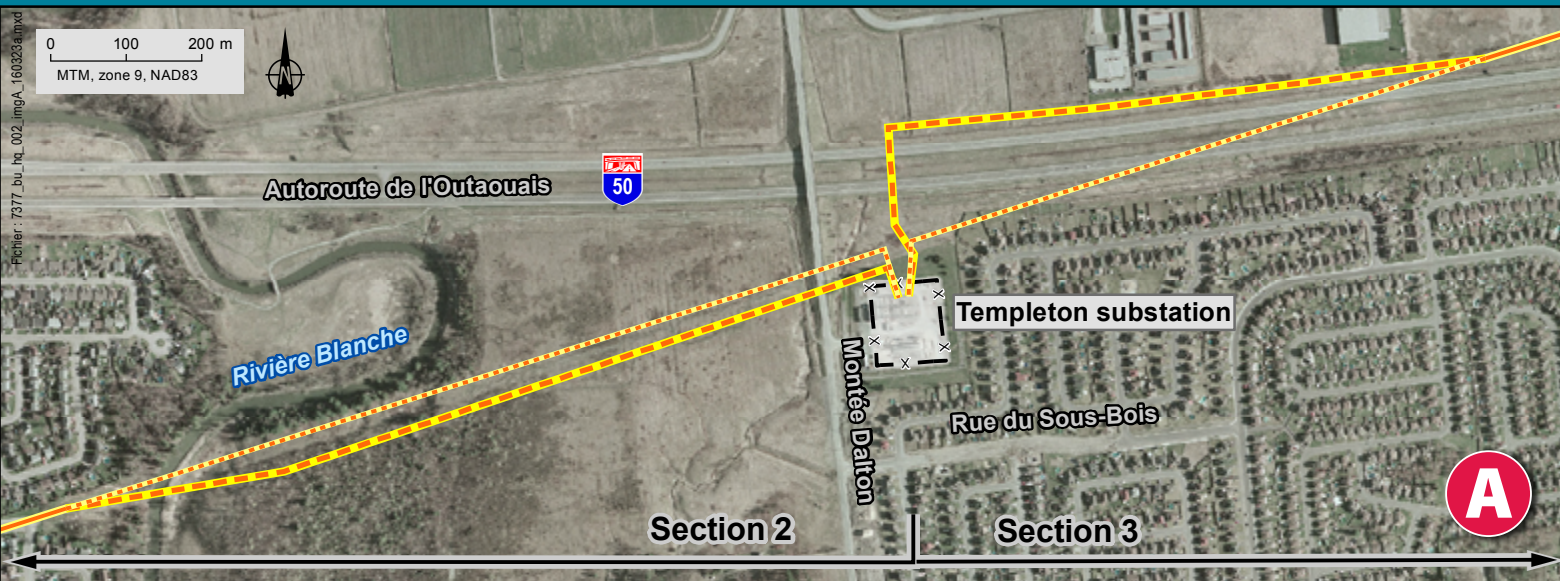
In this 13.6-km-long section, Hydro-Québec will replace the single-circuit line with a new double-circuit line.

To avoid erecting towers in the median strip of Highway 50, Hydro-Québec will modify the line route to cross the highway at right angles (see Maps A and B).

Since the existing line crosses two zones subject to mass movement, the line corridor for this line segment will be moved to the south side of Highway 50 (see Map C).

* kV = kilovolt, or 1,000 volts

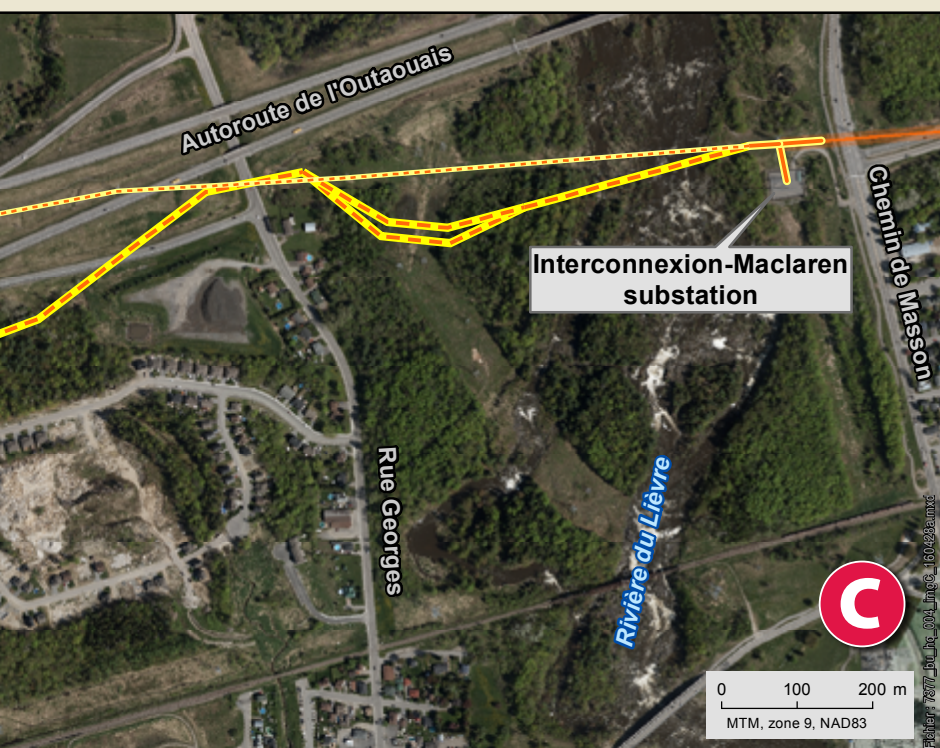
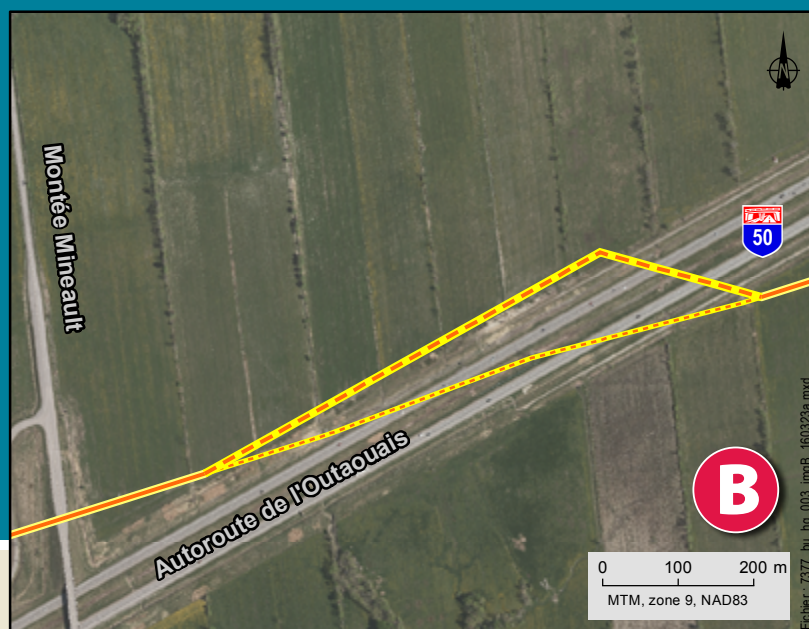




- Line to be dismantled (120 kV)
- Line to be rebuilt in existing right-of-way (120 kV)
- Line route studied, line to be rebuilt outside existing right-of-way (120 kV)

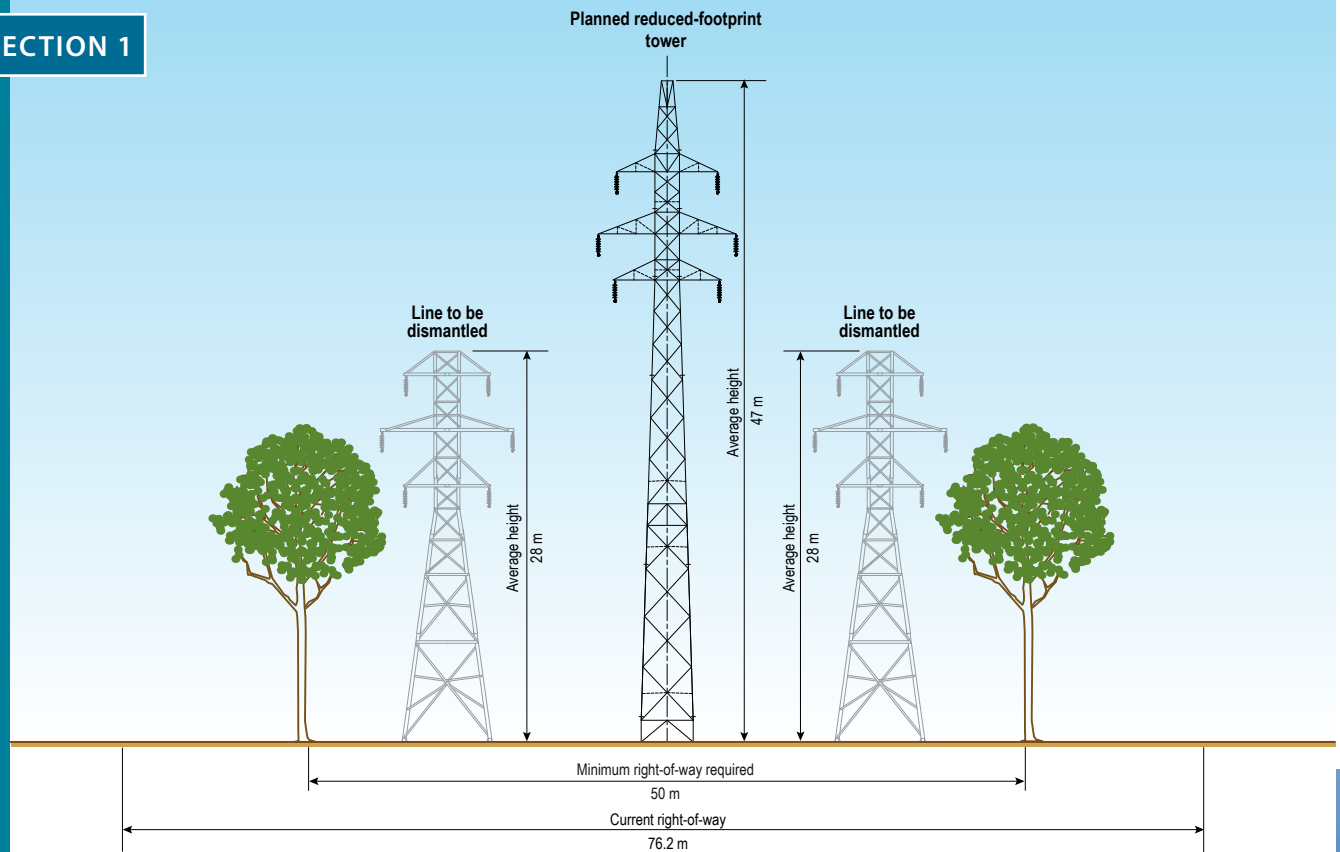
Boundaries

- Municipality
- Regional county municipality (MRC) or equivalent territory (TÉ)



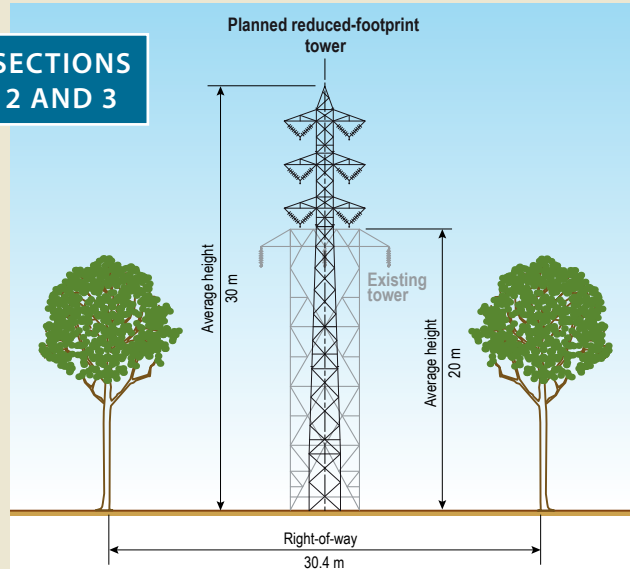
TOWERS FOR THE 120-KV LINES TO BE REBUILT

SECTION 1



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SECTIONS 2 AND 3



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The new line will be supported by steel lattice towers. Most will be reduced-footprint models, with four-legged towers in certain locations.



PROJECT BENEFITS

Rebuilding the lines will enable Hydro-Québec to ensure high-quality service for customers while meeting new standards for:

- Resistance to wind and ice-loading
- Highway crossings
- Zones subject to mass movements

Reconstruction work will take place within the existing rights-of-way, except specific locations in Sections 2 and 3.

PUBLIC PARTICIPATION

A favourable reception from local communities is one of the three essential conditions for Hydro-Québec projects. When developing each new project, the company seeks to balance the three pillars of sustainable development: social, environmental and economic impacts.

As a result, Hydro-Québec implemented a public participation and consultation process. The company will thus be able to take into account the concerns of the community and its leaders so as to best adapt the project to local realities.

The company therefore invites all organizations, land owners and individuals affected to share their concerns with regard to the project before June 15, 2016.

An opinion submission form is attached to this bulletin.

STUDIES

Since fall 2014, Hydro-Québec has been conducting environmental and technical studies to determine the line reconstruction solution with the least impact.

The studies take into account the presence of:

- Sensitive elements such as the built environment, vegetation, wildlife, wetlands and cultivated land
- Highway 50
- Zones subject to mass movements

NEXT STEPS

Information and public consultation	Spring 2016
Information on the solution selected	Fall 2016
Permitting	Winter 2017-2018
Dismantling and construction	Spring 2018 – fall 2019

FOR MORE INFORMATION

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www.hydroquebec.com/gatineau

Ce document est également publié en français.
This is a translation of the original French text.

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