

315/25-kV **Patriotes** Substation and 315-kV Supply Line

PUBLIC CONSULTATION • WINTER – SPRING 2017

Hydro-Québec plans to build a 315/25-kV* substation in Saint-Eustache and a 315-kV tap line to meet the sustained growth in the municipalities of Saint-Eustache, Deux-Montagnes and Sainte-Marthe-sur-le-Lac. A recent analysis revealed that La Trappe and Saint-Eustache substations, which currently supply this region, do not have the capacity and reliability required to support urban development.

PROJECT OVERVIEW

The new Patriotes substation will be built in Saint-Eustache's industrial area. In the first phase, the substation will include three transformers that will lower the voltage from 315 kV to 25 kV for distribution to customers. Another transformer may be added at a later time to meet the growth and development of the regional county municipality (MRC) of Deux-Montagnes.

A new 315-kV supply line will connect the planned substation to the existing 315-kV line, located north of Boulevard Arthur-Sauvé. The support structures will be either four-legged or reduced-footprint towers in order to limit the line's impact on farmland.

AN IMPORTANT PROJECT FOR THE REGION

- Meets the region's growing demand for electricity
- Supports local development
- Represents an investment of over \$70 million



* kV = kilovolt (1,000 volts)



REDUCED-FOOTPRINT TOWER (FOREGROUND)
AND FOUR-LEGGED TOWER (BACKGROUND)

ENVIRONMENTAL AND TECHNICAL STUDIES

STUDY AREA

Before determining line routes and substation locations, Hydro-Québec carried out an inventory in a study area covering some 40 km² to understand the project's host environment. We then established line routes and substation locations based on the following criteria:

For the substation and line

- Avoid the most sensitive environmental elements, such as the built environment, residential development projects, sugar bushes, land used for horticulture and specialty crops, wetlands and erosion zones.

For the substation

- Locate it as close as possible to the load centre.
- Avoid protected agricultural land.

For the line

- Avoid road crossings that would require that houses or major farm buildings be moved.
- Select the shortest route possible to limit the elements or areas that may be affected and to reduce construction costs.
- Limit impacts on the landscape.
- Follow cadastral lines and lot boundaries as much as possible.
- Limit the number of landowners affected.

PROPOSED SUBSTATION SITES

Two substation sites are under study. **Site 1** is north of the Agence métropolitaine de transport's railway. It would be accessed via Boulevard Industriel.

Site 2 is located south of the railway and would be accessed via Boulevard Albert-Mondou.

PROPOSED LINE ROUTES

ROUTE A

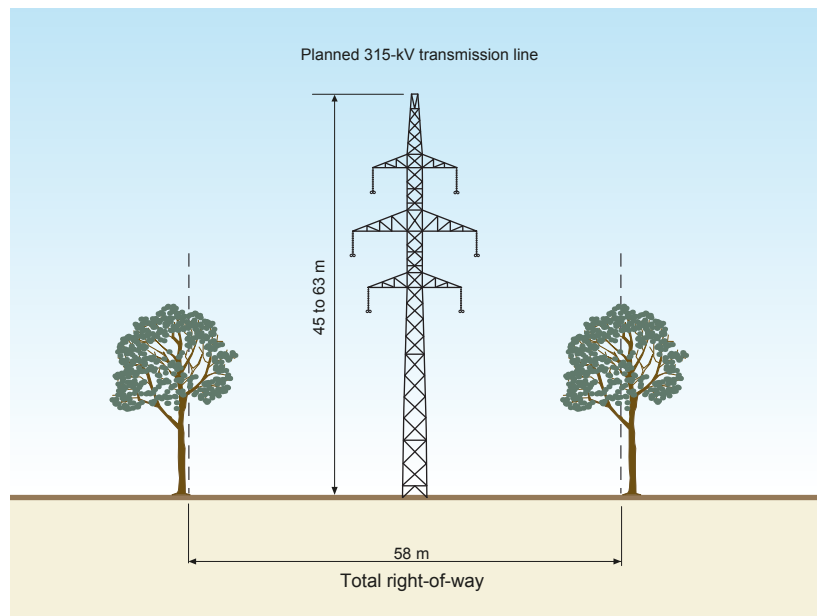
Measuring 4.7 km, Route A is shorter and affects fewer properties than Route B. However, a hangar located close to where the line would cross Chemin de la Rivière Nord would have to be moved.

ROUTE B

Route B is 5.5 km long and crosses a sugar bush for 600 m, a wetland for 200 m and specialty crops for close to 200 m.

Both routes are close to homes when they intersect roads, especially at the crossing with Chemin de la Rivière Nord.

Both routes cross mainly open farmland, but woodlots and vegetation along roads would partially hide the towers.



Reduced-footprint steel lattice tower

1404_buf1_dem_008_py_lc_160808.ai



73°58'20"

73°56'40"



To Chomedey substation

Existing 315-kV transmission line

Existing 120-kV transmission line

148

To Chénier substation

Boulevard Arthur-Sauvé

Montée Dorion

Rue des Érables

Rue Prud'Homme

Boulevard Léveillé

Boulevard René-Lévesque

Boulevard Girouard

Saint-Eustache, V Deux-Montagnes (MRC)

Route B

Route A

Chemin de la Rivière Nord

Chemin de la Rivière Sud

Rivière du Chêne

Rue Robison

Rue Poirier

Agence métropolitaine de transport

Site 1

Site 2

Boulevard Albert-Mondou

Project components

- Route studied (Route A)
- Route studied (Route B)
- Substation site studied

Transmission lines

- 120-kV
- 315-kV

0 225 450 m

MTM, zone 8, NAD83 (SCRS)
140403_buc1_hq_012_ic_170309a.mxd

73°56'40"

PUBLIC PARTICIPATION PROCESS

Favorable 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 impacts associated with the three pillars of sustainable development: social, environmental and economic.

Hydro-Québec is currently holding information and consultation sessions with local authorities and public stakeholders to obtain their comments and input about the area. The company invites all organizations, landowners and individuals affected to share their concerns with regard to the project before April 21, 2017. You can fill out the attached opinion submission form or the online version available on our Web site, or you can contact us by e-mail or phone (see contact details below).

SUPPORT FOR COMMUNITY DEVELOPMENT

Hydro-Québec sees its transmission projects as an opportunity to participate in the development of host communities. Our Integrated Enhancement Program provides eligible communities with a grant equal to 1% of the initial value of a transmission project.

NEXT STEPS

At the conclusion of the study and consultation process, Hydro-Québec will file an environmental impact statement with the Ministère du Développement durable, de l'Environnement et de la Lutte contre les changements climatiques du Québec in order to obtain the required permits.

SCHEDULE

Public participation process	Fall 2015 to summer 2017
Government approvals	Summer 2017 to fall 2018
Construction	Fall 2018 to fall 2019
Commissioning	Fall 2019



FOR MORE INFORMATION

Info-project line
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Take our online survey at www.hydroquebec.com/despatriotes

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