

315/25-kV **Saint-Jean** Substation and 315-kV Supply Line

PUBLIC CONSULTATION • Fall 2014

The project

Hydro-Québec plans to refurbish Saint-Jean substation and convert the current voltage to 315/25 kV*. Given that the facility is over 50 years old, most of the substation's 120/12-kV equipment must be replaced. The majority of the work will be done on the site of the current substation. The project also calls for the construction of a new 315-kV line from Sources substation, which is located less than 3 km away. This line will run through a right-of-way where power lines are already located.

Commissioned in 1957, Saint-Jean substation is located in Dollard-des-Ormeaux, at the intersection of Saint-Jean and De Salaberry boulevards. It supplies part of the cities of Dollard-des-Ormeaux, Pointe-Claire, Kirkland and Beaconsfield, serving a total of about 10,000 customers.

Once commissioned, the planned substation and its new supply line will meet the short- and long-term electricity needs of the area they serve.

* kV = kilovolt (1,000 volts)



Planned Saint-Jean substation (simulation)

Planned Saint-Jean substation

Converting the substation to 315/25 kV will require the construction of a 1,700 m² building, which will house the new 25-kV equipment and the control room. The proposed work requires the expansion of the current substation between its northern boundary and Boulevard De Salaberry. Hydro-Québec will use a white roof in order to avoid creating a heat island.



Planned substation building
(simulation)



Westward view
of the bicycle path
near city hall



SIMULATION

of the supply line
supported by
reduced-footprint
lattice towers



SIMULATION

of the supply line
supported by
tubular towers

315-kV supply line

The planned Saint-Jean substation will be supplied by a new 315-kV double circuit line that will run through a right-of-way where power distribution lines and a 120-kV transmission line are already located. The planned power line will be supported by reduced-footprint lattice towers or by tubular towers.

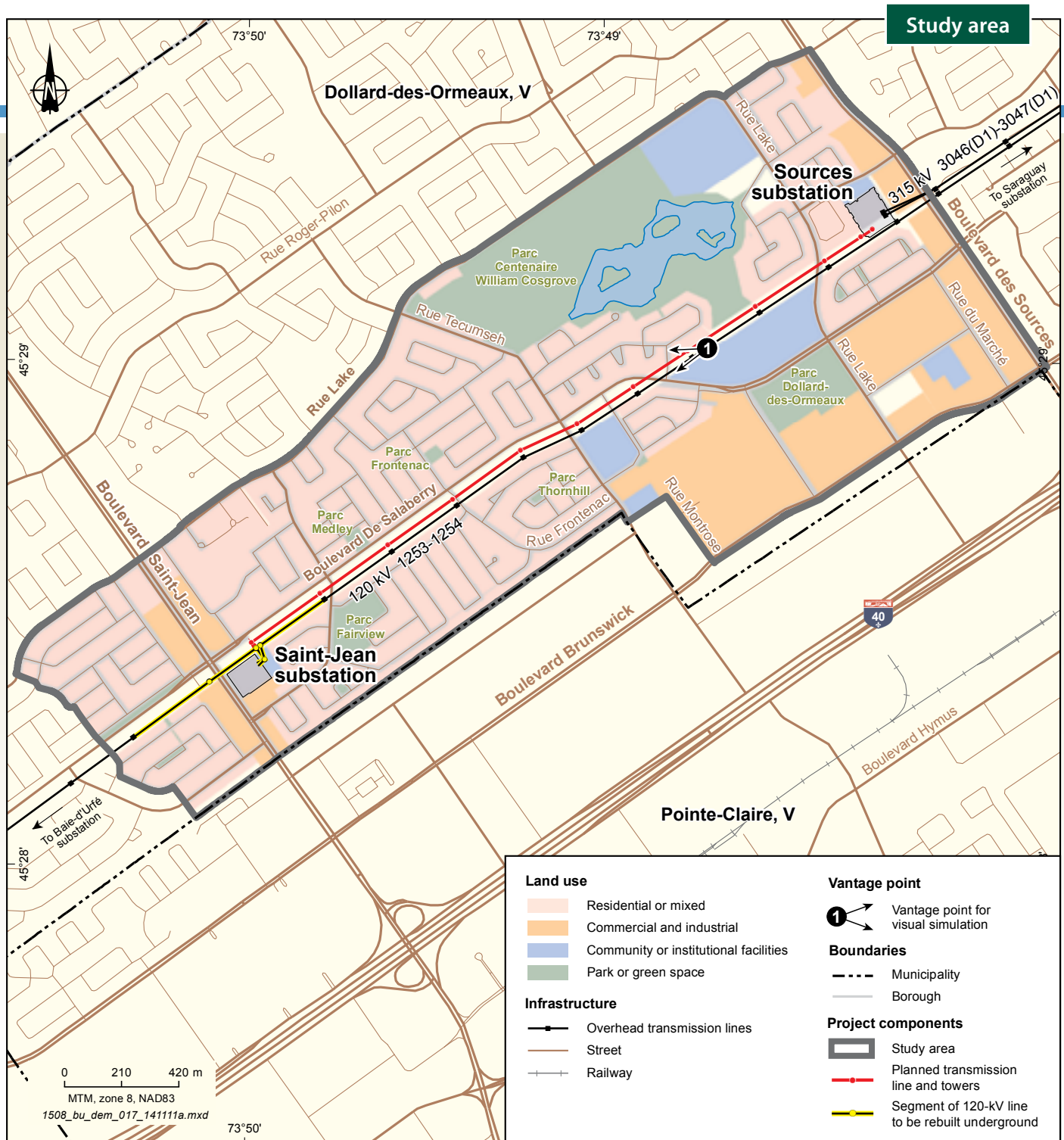
Thus two types of towers are under study with a view to ensuring that the future line will blend harmoniously into its environment.

The lattice towers are similar to those used for the existing 120-kV line. Tubular towers are most commonly used in urban areas.

Environmental and technical studies

During the summer and fall of 2014, Hydro-Québec carried out environmental and landscape surveys in the study area to better understand the host environment of the substation and supply line. The project study area is located entirely in the city of Dollard-des-Ormeaux and covers an area of 4 km². It is bordered to the north by Rue Lake, to the west by Hastings and Morningside, to the east by Boulevard des Sources and to the south by Boulevard Brunswick and the outer edge of the city of Pointe-Claire. The right-of-way of the existing lines between Sources and Saint-Jean substations runs along the centre of the study area.

In addition, visual integration studies are being conducted to ensure that the planned substation and line will fit into the surrounding urban environment, a mixed residential and commercial area. Landscaping and architectural fencing designs are also being studied.



Public participation

Hydro-Québec is implementing a communications program to open a dialogue with the community while the studies are being carried out.

Citizens will be invited to voice their opinions on the project during a consultation session scheduled for fall 2014.

Concerns and expectations expressed by the public and by key stakeholders will allow Hydro-Québec to implement mitigation measures to adapt the project to local realities.

Schedule

PUBLIC PARTICIPATION PROGRAM

Information and consultation	Summer to fall 2014
Information on solution selected	Winter 2014–2015

PROJECT

Filing of the environmental impact statement	Spring 2015
Permitting	Fall 2016
Refurbishment of substation and conversion of voltage	Winter 2016–2017 to fall 2019
Construction of the 315-kV line	Summer to fall 2019
Commissioning of the substation and line	Spring 2020

PRELIMINARY WORK

• Moving of distribution lines	
• Reorganization of the 120-kV line	2015–2016

For more information

Info-project line

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