Hydro Québec
TransÉnergie

Conversion of **De Lorimier** Substation to 315/25 kV and new 315-kV Underground Lines

PUBLIC CONSULTATION • FALL 2012

To meet increasing demand and ensure the long-term operability of facilities in the eastern part of downtown Montréal, Hydro-Québec TransÉnergie will convert De Lorimier substation to 315/25-kV on the site of the current 120/12-kV substation. Hydro-Québec TransÉnergie will also build two 315-kV underground lines, about 7 km each, to connect the new De Lorimier substation to Viger substation, near Pont Victoria.

Built in 1950, De Lorimier substation is located in Montréal's Ville-Marie borough near Pont Jacques-Cartier and will soon reach its maximum capacity. Most of its major equipment is over 60 years old and must be replaced.

The 120-kV underground lines that supply the substation are also aging and will be unable to meet the growing electricity demand. That's why Hydro-Québec TransÉnergie wishes to build two new 315-kV underground lines.

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

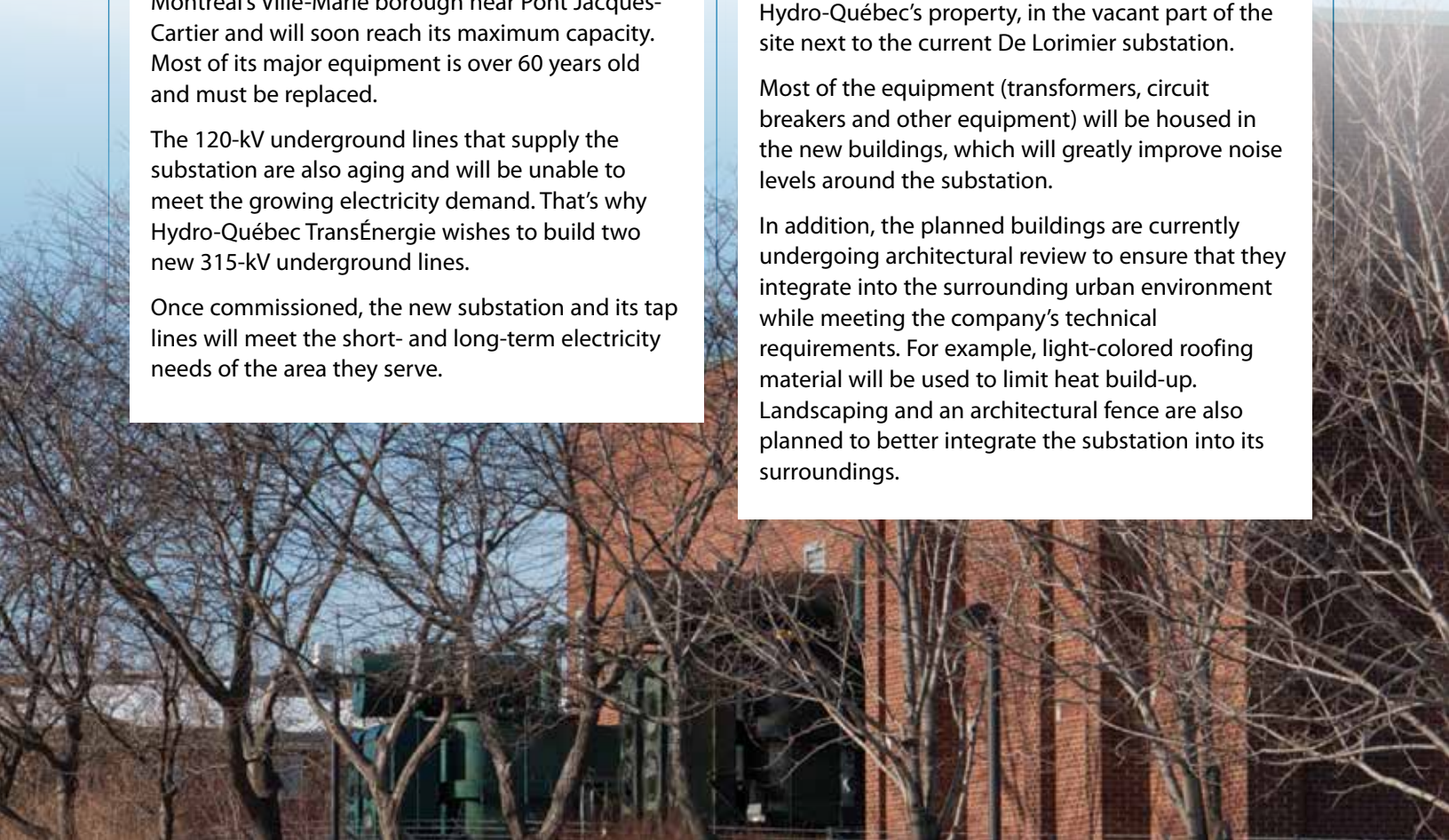
Environmental and technical studies

During spring and summer 2012, Hydro-Québec carried out environmental inventories and technical surveys in the study area to better understand the host environment. This area covers roughly 8.9 km^2 and affects the Ville-Marie and Sud-Ouest boroughs.

The new 315/25-kV substation will be built on Hydro-Québec's property, in the vacant part of the site next to the current De Lorimier substation.

Most of the equipment (transformers, circuit breakers and other equipment) will be housed in the new buildings, which will greatly improve noise levels around the substation.

In addition, the planned buildings are currently undergoing architectural review to ensure that they integrate into the surrounding urban environment while meeting the company's technical requirements. For example, light-colored roofing material will be used to limit heat build-up. Landscaping and an architectural fence are also planned to better integrate the substation into its surroundings.



Indoor 315/25-kV substation

The new De Lorimier substation will be made up of three buildings with a total area of 8,100 m^2. It will contain three 315/25-kV autotransformers allowing thirty 25-kV feeder bays to supply customers in the area.

Existing substation

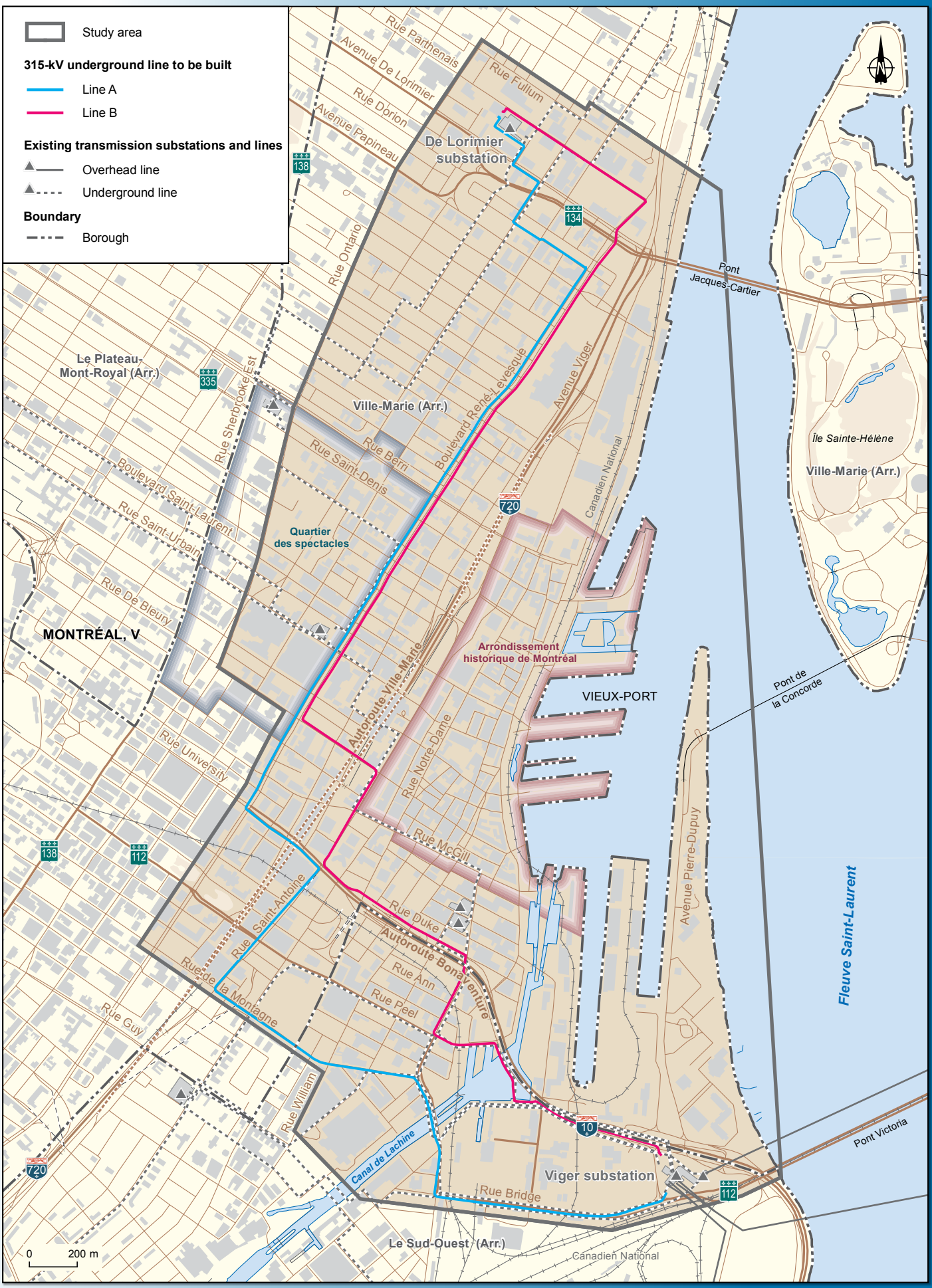
Planned substation (simulation)

Underground 315-kV tap lines

For the tap lines, the project team proposes routes that take into account numerous technical and environmental elements, including underground congestion and the presence of sensitive elements in the area.

From Viger substation, Line A will pass under Rue Bridge, cross Canal de Lachine and join Rue de la Montagne up to Rue Saint-Antoine, turning on Rue University and running along it up to Boulevard René-Lévesque, which it will follow until the end of the route (see map).

Line B will follow Rue Duke, turning onto Rue Saint-Antoine which it will follow before veering west on Rue De Bleury to Boulevard René-Lévesque, which it will follow for the remainder of the route. The routes of both lines are currently being analyzed based on environmental, technical and economic criteria, as well as community concerns.


Study area
315-kV underground line to be built
Line A
Line B
Existing transmission substations and lines
Overhead line
Underground line
Boundary
Borough
De Lorimier substation
Viger substation
Le Plateau-Mont-Royal (Arr.)
Ville-Marie (Arr.)
Le Sud-Ouest (Arr.)
MONTRÉAL, V
Quartier des spectacles
Arrondissement historique de Montréal
VIEUX-PORT
Île Sainte-Hélène
Ville-Marie (Arr.)
Fleuve Saint-Laurent
Pont Jacques-Cartier
Pont de la Concorde
Pont Victoria
Canadien National
Rue Parthenais
Avenue De Lorimier
Rue Dorion
Avenue Papineau
Rue Fullum
Rue Ontario
Rue Sherbrooke Est
Rue Berri
Rue Saint-Denis
Boulevard René-Lévesque
Avenue Viger
Boulevard Saint-Laurent
Rue Saint-Urbain
Rue De Bleury
Rue University
Autoroute Ville-Marie
Rue Notre-Dame
Rue McGill
Rue Saint-Antoine
Rue Duke
Autoroute Bonaventure
Rue Ann
Rue Peel
Rue de la Montagne
Rue Guy
Rue William
Canal de Lachine
Rue Bridge
Avenue Pierre-Dupuy
138
134
335
720
112
10
0
200 m
7266_bu_am_008_traces_120914a.mxd

Schedule

DRAFT DESIGN

Information and consultation	Fall 2012
Information on the solution selected	Winter 2012-2013

PROJECT

Filing of impact statement	Spring 2013
Government approvals	Fall 2014
Construction	Winter 2014-2015 to spring 2017
Commissioning	Summer 2017

Public participation

Throughout the studies, Hydro-Québec is implementing a public participation program in order to maintain a dialogue with stakeholders. The goal is to know the expectations and concerns of residents, local organizations and community representatives. Citizens will be invited to make themselves heard during consultation sessions scheduled for fall 2012.

Hydro-Québec will then study the comments presented and will take them into account in determining the final characteristics of the project as well as the mitigation measures needed to adapt it to local realities.

For more information

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