

Upgrading of the Transmission System in the Northeast Montréal Metropolitan Region

New 315/120/25-kV **Bélanger** Substation and 315-kV Tap Line

PUBLIC CONSULTATION • April 2010



To meet increasing demand and ensure the long-term operability of facilities in the northeastern part of the Montréal metropolitan region, Hydro-Québec has prepared a plan that groups together several projects in the east end of the island, including construction of the new Bélanger substation.

Located in the borough of Saint-Léonard near its border with the borough of Rosemont-La Petite-Patrie, Bélanger substation currently supplies power to nearly 44,000 customers. Built in 1955, it is now approaching capacity and much of its equipment is aging.

To meet current and future demand, Hydro-Québec must increase the capacity of its facilities. To do so, it will build a new indoor 315/120/25-kV substation on the current site, replacing the old equipment with new and more efficient equipment.

Because of the greater capacity of this new equipment, one of the 120-kV lines currently supplying the substation will have to be replaced by a 315-kV line.

Once commissioned, the new substation will meet the short- and long-term electricity needs of the area it serves.



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Environmental and technical studies

In fall 2009, Hydro-Québec carried out an environmental inventory of the study area, which includes the southwest portion of the borough of Saint-Léonard and a small portion of the borough of Rosemont–La Petite-Patrie.

Environmental and technical studies concluded that buildings can be erected in the southwest part of the site to house most of the equipment. However, two 315-kV transformers will be installed outside and concealed behind walls on the northwest side. These newly designed transformers produce less noise, enabling them to adequately meet sound level standards.

More than half of the old substation will be dismantled, including the six noisy 120/12-kV transformers and the switchgear in the south part of the site.

A tight schedule for the substation and line construction is planned in order to limit its impact on neighboring areas. In addition, Hydro-Québec will notify affected residents at the appropriate time.

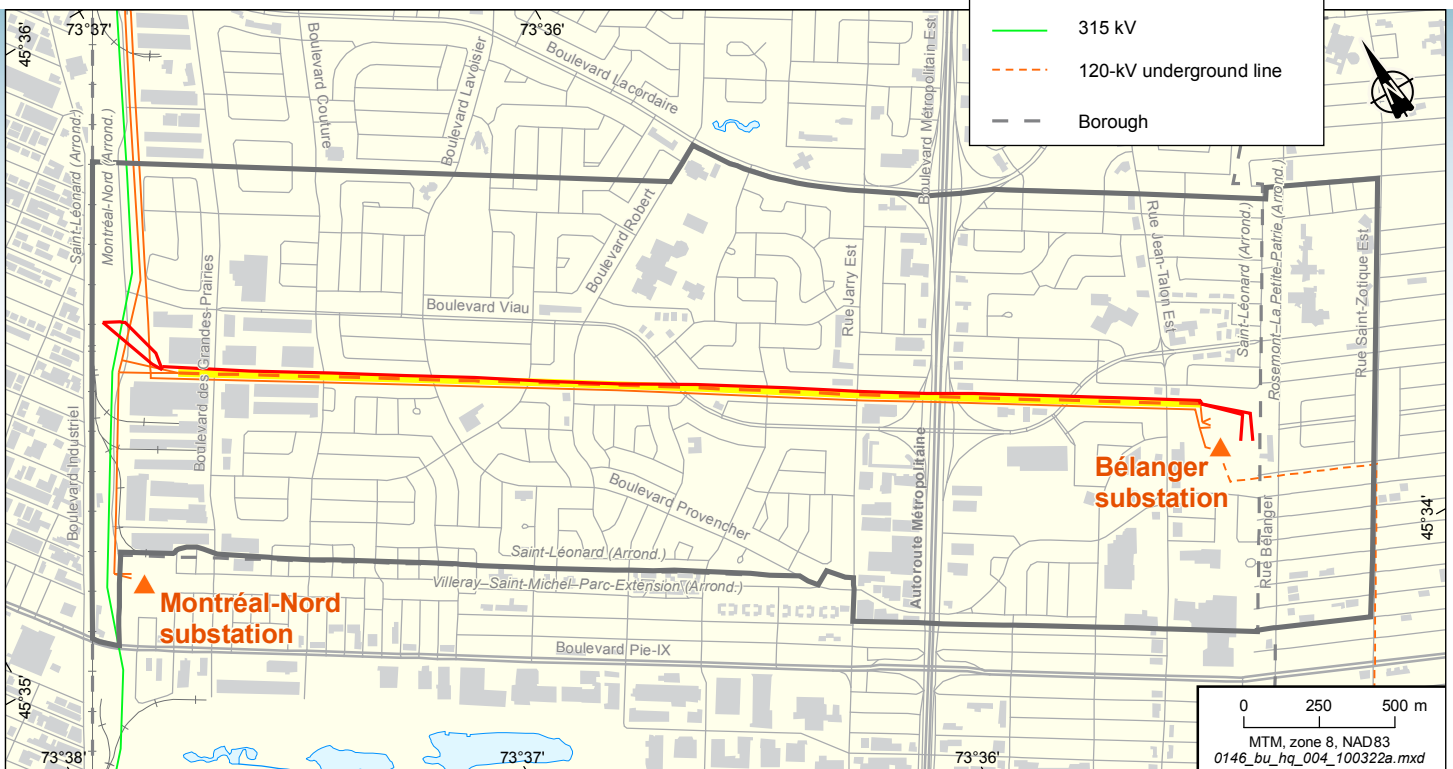
The planned buildings are currently undergoing architectural review to ensure that they integrate into the surrounding urban environment while meeting the company's technical requirements. For example, light-colored roofing material will be used to limit heat build-up.

In addition, trees or shrubs will be planted and other mitigation measures implemented in different locations to improve the substation's visual aspect.

315-kV tap line

In the 1960s, three 120-kV lines about 4 km long were built in the Hydro-Québec right-of-way running from Boulevard Industriel to Bélanger substation. In 1995, the easternmost line was dismantled. The current project will replace the now-easternmost line with a 315-kV line. Tubular towers, the type of structure generally used in urban locations, will be built in the space currently occupied by lattice towers.

In about ten years, Hydro-Québec plans to dismantle the remaining 120-kV line, which supplies Montréal-Nord substation, leaving only the 315-kV line on tubular towers.





Existing line



Planned line (simulation)



Existing substation



Planned substation (simulation)



Project schedule

DRAFT DESIGN	
Public consultation	Spring 2010
Information on solution selected	Spring 2010 to summer 2010
PROJECT	
Filing of impact statement	Fall 2010
Permitting	Winter 2011–2012
Construction	Spring 2012 to fall 2014
Commissioning	Fall 2013 to fall 2014

Public participation

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 spring 2010.

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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