

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

GENERAL INFORMATION • APRIL 2012

Present situation

The 120/12-kV De Lorimier substation is located in Montréal's Ville-Marie borough near the Pont Jacques-Cartier and supplies power to over 18,200 customers, mostly in the Ville-Marie borough and, to a lesser extent, in the Plateau-Mont-Royal borough. Built in 1950, it will reach its maximum capacity in the near future.

Furthermore, since De Lorimier substation is over 60 years old, most of its major equipment must be replaced.

The 120-kV lines that supply De Lorimier substation are also aging and will be unable to meet the growing electricity demand. Therefore, Hydro-Québec must plan investments to both increase the capacity of these transmission lines and ensure their long-term operability.

Preferred solution

Hydro-Québec favors converting the substation to 315/25 kV. Hydro-Québec will also have to build two 315-kV underground lines to connect the 315/25-kV substation to Viger switching substation, near the Pont Victoria.

Upgrading De Lorimier substation will ensure the long-term operability of the facility and improve the reliability of its supply. The converted substation will also provide additional capacity in this area, relieving neighboring substations and allowing them to meet the growing demand in their respective areas. Once this project is completed, the 120/12-kV section of the substation can be dismantled.

Hydro-Québec Équipement et services partagés will conduct the draft-design studies to build a new De Lorimier substation and its connection to the transmission system.







Project description

The project includes the following work:

- Upgrading the indoor substation to 315/25 kV
- Building two 315-kV underground lines, each about 7 km long, between Viger and De Lorimier substations
- Dismantling the 120/12-kV section of the current substation

Study area

The project study area covers approximately 8.9 km² (see map). It affects the Ville-Marie and Sud-Ouest boroughs. The irregularly shaped study area is bordered by the river and the following streets: Bridge, William, de la Montagne, René-Lévesque, Ontario and Fullum.



Environmental and technical studies

In light of current knowledge, the following main technical and environmental considerations will be taken into account when planning the project:

- Building the lines and substation in an urban area
- Noise levels around the substation
- Visual impact of the substation
- Presence of heritage sites in the study area (Old Montréal, Quartier des spectacles, etc.)

In the coming months, Hydro-Québec Équipement et services partagés will carry out environmental inventories and technical surveys in the study area to better understand the host environment of the planned substation and two underground lines.

Once these studies are completed, the project team will propose various configurations for the substation and possible supply line route variants. These variants will be subject to comparative analyses based on environmental, technical and economic criteria, as well as community concerns. This detailed comparison will be used to determine the variants with the least impact for the substation and the supply lines.

Stakeholder participation

Hydro-Québec will implement a communications program to open a dialogue with the community while the studies are being carried out. The company will thus be able to take into account the concerns and expectations expressed by the public and by key stakeholders so as to best adapt the project to local realities.

Project schedule

DRAFT DESIGN

General information	Spring 2012
Information and consultation	Summer–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

For more information

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