

120-kV **Grand-Brûlé – Saint-Sauveur** Supply Line

GENERAL INFORMATION • Summer 2012



Hydro-Québec must increase the transit and transformer capacity of certain substations that currently supply the heart of the Laurentides region to better meet the increase in electricity demand.

Many 120-kV substations can no longer handle the load. The same is true of some 120-kV transmission lines in the area; their capacity will be exceeded in the short term.

Hydro-Québec Équipement et services partagés will conduct the draft-design studies to build a new 120-kV line in the Laurentides area.

Present situation

For the past few years, demand for electricity in the Laurentides region has continued to increase. Adding transformers at some substations and reorganizing the distribution system lines has helped delay the construction of new transmission facilities in this area. Today, many satellite substations¹ and transmission lines that supply the heart of the Laurentides have reached their capacity, including Rolland and Arthur-Buies substations, in Saint-Jérôme, Saint-Sauveur substation and, in the short term, the 120-kV transmission system for Lafontaine substation, located in Mirabel.

Preferred solution

To meet the expected growth in demand in Saint-Jérôme and the surrounding municipalities, Hydro-Québec TransÉnergie will build a new substation in Saint-Jérôme in 2016. This substation is part of a separate project. Electricity at the planned 120/25-kV substation will be supplied by Lafontaine source substation.²

To be able to supply the planned Saint-Jérôme substation, Lafontaine substation must stop supplying Saint-Sauveur and Doc-Grignon (in Sainte-Adèle) substations. These two substations will be supplied by another source substation.

To move power from Lafontaine substation to the planned Saint-Jérôme substation, Hydro-Québec will build, also in 2016, a new 120-kV transmission line in the regional county municipalities (MRCs) of Laurentides and Pays-d'en-Haut. This line, approximately 40-km long, will connect Grand-Brûlé source substation, in Mont-Tremblant, to an existing 120-kV line, running between Saint-Sauveur and Doc-Grignon substations.

This new 120-kV double-circuit line, to be built on steel towers, will increase the security of power supply for Saint-Sauveur and Doc-Grignon substations, as well as supplying a third satellite substation, if necessary.

Study area

The study area of the 120-kV line covers about 1,000 km² and includes parts of 12 municipalities in the MRCs of Laurentides and Pays-d'en-Haut. The affected municipalities are:

MRC des Laurentides

- Mont-Tremblant
- Saint-Faustin-Lac-Carré
- Arundel
- Barkmere
- Montcalm
- Sainte-Agathe-des-Monts
- Val-David
- Val-Morin

MRC des Pays-d'en-Haut

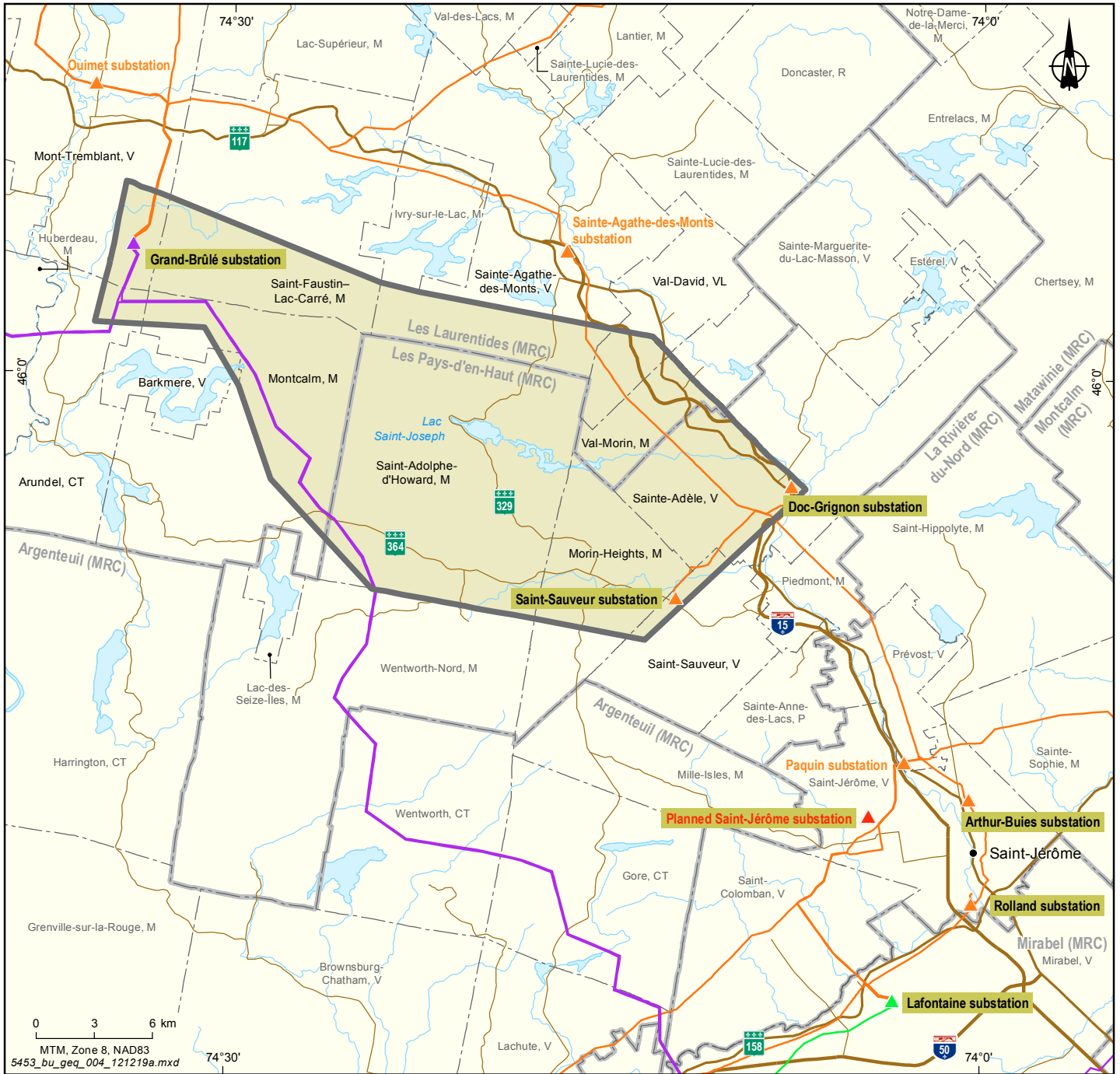
- Saint-Adolphe-d'Howard
- Morin-Heights
- Sainte-Adèle
- Saint-Sauveur

To the west of the study area is Grand-Brûlé substation, in Mont-Tremblant, and the 735-kV transmission lines, to the south are the municipalities of Saint-Adolphe-d'Howard and Morin-Heights, to the east we find Saint-Sauveur and Doc-Grignon (in Sainte-Adèle) substations, and to the north is the town of Sainte-Agathe-des-Monts.

The study area includes many small valleys and woodlands and is scattered with lakes and rivers that are used for recreation, tourism and vacationing. It is made up of both public and private lands.

1 Satellite substation: 120/25-kV transmission substation that supplies electricity to the distribution system.

2 Source substation: 315/120-kV transmission substation that supplies electricity to satellite substations.



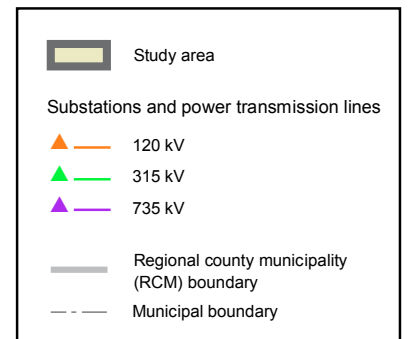
Environmental issues

Based on a summary review of regional characteristics, the main environmental components that are sensitive to the installation of equipment are:

- Land use
- Landscape
- Forest
- Water bodies
- Wetlands

Studies

In the coming months, Hydro-Québec will carry out environmental inventories and technical surveys in the study area to better understand the host environment of the planned line. These inventories will allow Hydro-Québec to develop route variants. The company will then determine the most advantageous route from a technical, economic, environmental and social standpoint.



120-kV line in the
Saint-Sauveur area

Public participation

Hydro-Québec has implemented a public participation program to establish a dialogue 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.

Tangible support for community development

Hydro-Québec wants its facilities to blend harmoniously into the host environment. It sees its projects as opportunities to actively participate in the development of host communities and has set up the Integrated Enhancement Program (IEP) with this intent. For each new power transmission project covered by this program, Hydro-Québec grants eligible organizations funding equivalent to 1% of the initially authorized value of the facilities covered by the IEP.

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Project schedule

DRAFT DESIGN

General information	Summer 2012
Information and consultation on line routes	Fall 2012
Information on solution selected	Winter – spring 2013

PERMITTING

Government authorizations	Spring 2013 – summer 2014
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PROJECT

Construction	Summer 2015 – fall 2016
Commissioning	Fall 2016

Info-project line

Laurentides

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For more information

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*Ce document est également publié en français.
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