



Public charging and interconnexions with US States: Québec's deployment strategy

Eastern Border Transportation Coalition Summit, May 7, 2025

Arthur Billette, Transportation electrification adviser
Ministère des Transports et de la Mobilité durable du Québec

Context and milestones of public charging in Québec

2

- Inception of the Electric Circuit (Hydro-Québec): 2011 to present day
- Direct Government financial support to HQ for public charging:
 - 2014: Highway 40 pilot project (between Montreal and Québec city)
 - 2015-2020: Electrification transportation action plan, first measure to financially help HQ to implant fast chargers in rest areas and relay towns
- 2018: Act 184
 - New legal structure to help HQ finance the deployment of public fast charging. Could therefore be reimbursed on electricity consumers tariff basis.



Context and milestones of public charging in Québec

3

- 2020-2030: Green Economy Plan (PEV)
 - 2021: new measure to financially help HQ to deploy fast chargers for light vehicles (LDV): rest areas, relay towns, strategic sites and pilot projects
- 2023-2030: Québec Electric Vehicle Charging Strategy
 - 2024 : new measure to financially help HQ to deploy fast chargers for medium and heavy-duty vehicles (MHDV)
- 15 years, 4 governments, 3 political parties. This looks like a consensus!!!



Main Governmental tools to support the *Electric Circuit*

4

Light-duty vehicles (2021-30):

- Financial support: up to 50%
- Locations/types of projects:
 - Rest areas
 - Relay towns
 - Strategic sites (ie: interconnexions with neighboring provinces of states)
 - Pilot projects

Medium and heavy-duty vehicles (2024-30):

- Financial support: up to 100%
- Locations/types of projects:
 - Rest areas
 - Strategic sites (ie: interconnexions with neighboring provinces of states)
 - Pilot projects

Funding source for the deployment of fast chargers

5

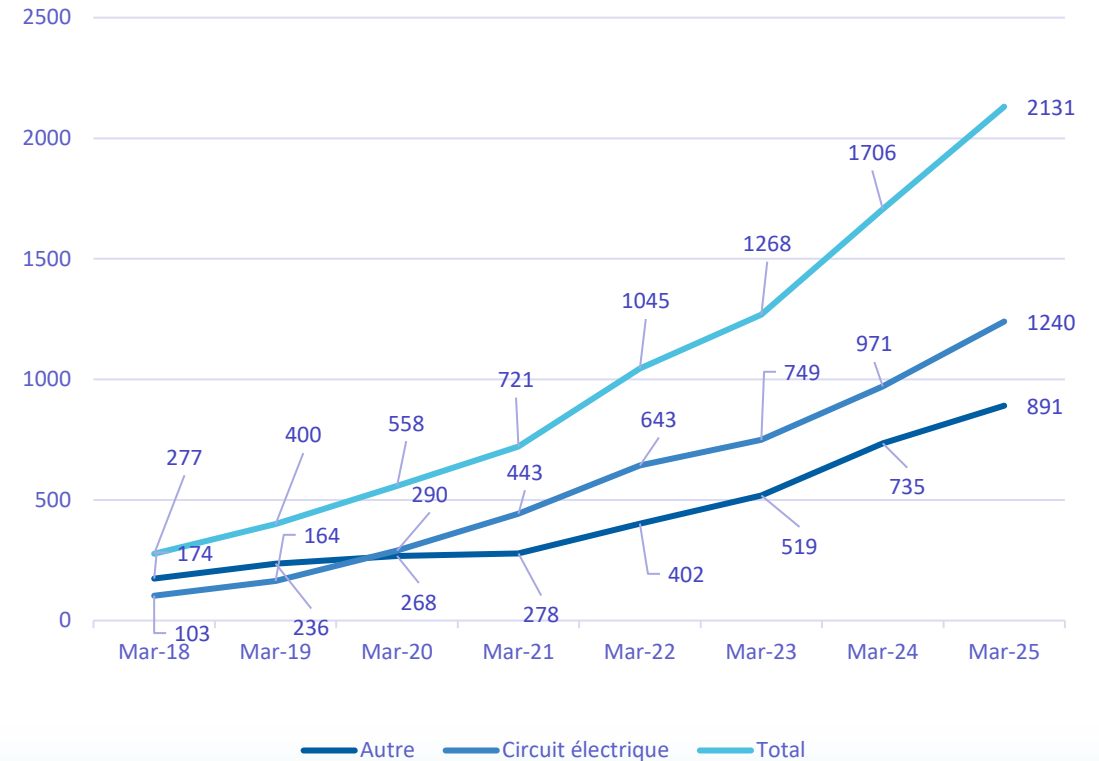
- Hydro-Québec's Electric Circuit:
 - Act 184, charging infrastructures are financed through electricity consumers tariffs basis
 - Demands must be submitted to the Régie de l'énergie
 - Similar to other infrastructures, ie: power lines
- Electrification and Climate Change Fund (FECC)
 - Fund created by the National Assembly and aimed primarily at financing the fight against climate change and the electrification transition
 - Previously called *Green Fund*
 - All the revenues from the carbon market are poured in the FECC

Public charging network in Québec (2025-03-31)

6

	Level 2	DCFC	Total	%
Other	5 216	891	6 107	47%
Electric Circuit	5 582	1 240	6 822	53%
Total	10 798	2 131	12 929	100%
%	83,5%	16,5%		

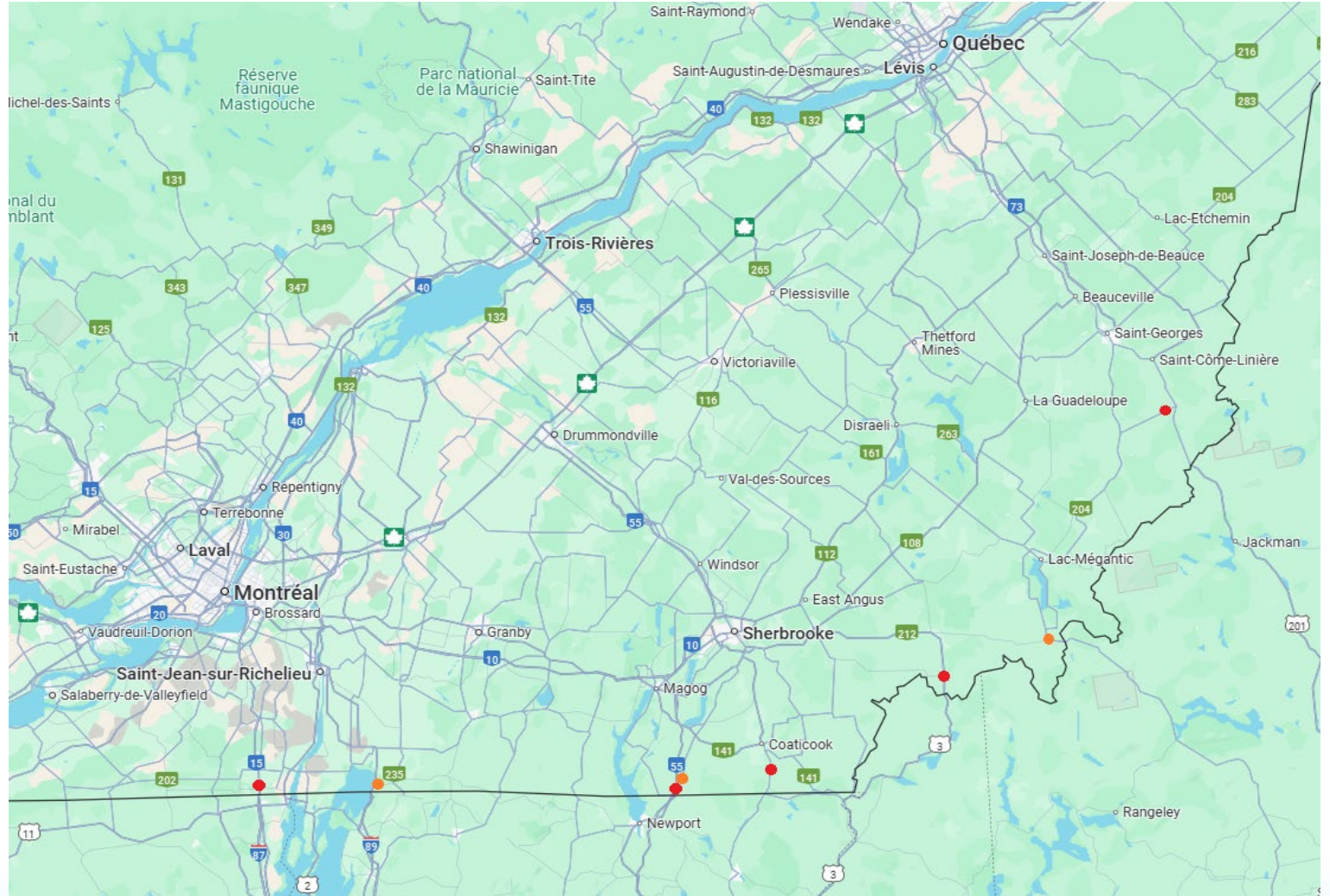
Public DCFC chargers: march 2018 to march 2025



Interconnexions with US States for LDV

Interconnexion with DCFC chargers for LDV: implanted with the Government's financial help

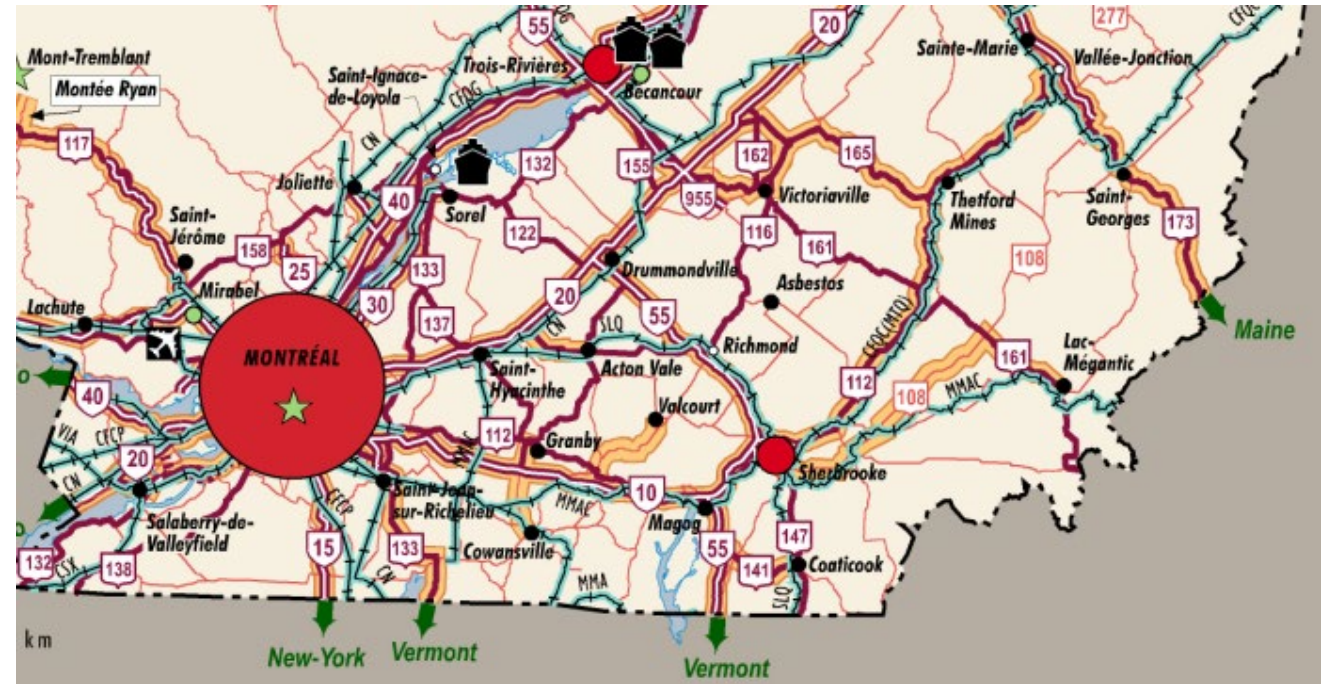
- Rest areas:
 - Jardins-de-Napierville (N-Y 87: 2023)
 - Curtis (VT 91: 2025)
- Relay towns:
 - Stanstead (VT 91: 2017)
- Strategic sites:
 - St-Théophile (ME 201: 2022)
 - Chartierville (N-H 3: 2024)
 - Dixville (VT 114: 2024)
 - Philipsburg (VT 89: 2025)
 - Woburn (N-H 27: 2025)
- Long term goal:
 - New interconnexions
 - keep adding DCFC chargers according to the demand



Plan for MHDV charging network deployment

8

- Short-medium term goals:
 - To open up Québec's territory to MHDVs, first between Québec and Montréal
 - Send a signal to the transportation industry
 - Launch the charging network while waiting for more appropriate legal framework or a technological alternative
- Long-term goals:
 - To adequately cover strategic road networks: among which the Strategic Network in Support of Quebec's Foreign Trade
 - Produce a viable business model and a suitable technological standard





Thank you very much!