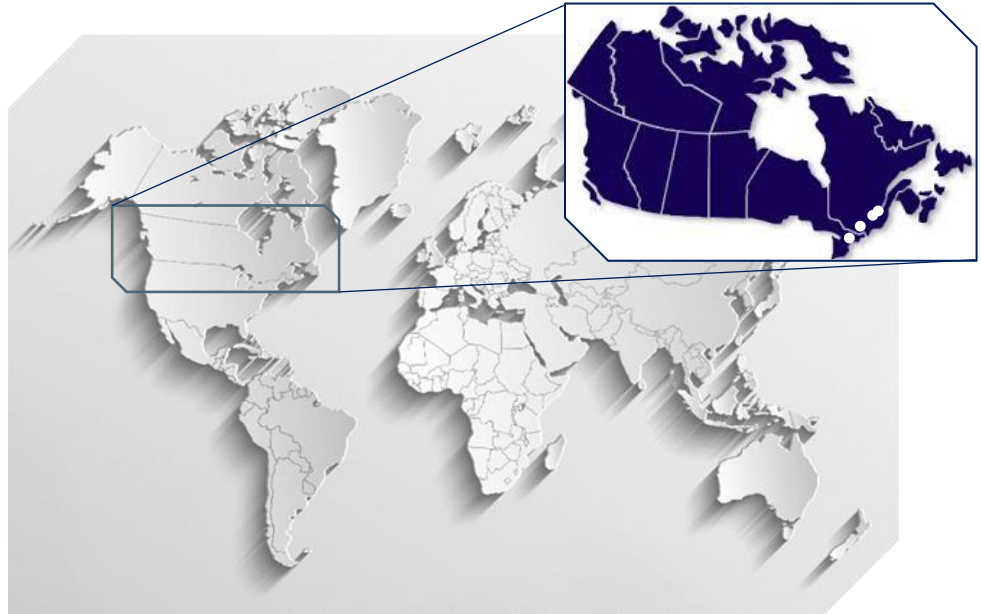




Alstom in Canada 2017

Alstom has been present in Canada for almost 80 years. The company has evolved over time from shipbuilding to hydroelectric turbines, from rail cars to power substations. Today, the company has gone back to its roots and is 100% focused on its transport activities and is the only pure transport player on the market that develops and markets the widest range of solutions for the railway sector, from systems, to equipment and services.



KEY FIGURES

225+ employees

4 sites: Montreal and Sorel-Tracy, Que. and Ottawa and Toronto, Ont.

2 industrial sites



CITADIS SPIRIT LIGHT RAIL VEHICLE

- 34 Citadis Spirit light rail vehicles and 30 years of maintenance services for the O-Train Confederation Line.



SIGNALLING SYSTEMS

- New control centres for the Société de transport de Montréal (STM) and for GO Transit's rail network.
- New signalling system for Union Station Rail Corridor in Toronto, Ont.
- Urbalis Communications Based Train Control system for Toronto Transit Commission's Line 1 Yonge-University and a greenfield extension area.
- Complete signalling solution, including wayside vital electronics and train-to-wayside communications for Waterloo light rail transit.



METRO CARS

- Supply of 468 new Azur metro cars to the STM¹; Alstom's scope includes: bogies, traction, train control, communication, passenger information and video surveillance systems.



SERVICES: MAINTENANCE & MODERNISATION

- Rebuild and modernization of 6 passenger coaches for Rocky Mountaineer.
- 30-year maintenance of Citadis Spirit vehicles and O-Train Confederation Line.



REGIONAL TRAINS

- Six Coradia Lint for the O-Train Trillium Line in Ottawa.

¹ in consortium with Bombardier Transportation

MAIN REFERENCES

- Alstom will provide its Urbalis 400 Communications Based Train Control (CBTC) system for Toronto Transit Commission's Line 1 Yonge-University, as well as a green field extension area, called TYSSE. Alstom is the sole supplier of automatic train control and will provide a complete CBTC solution to TTC, involving the replacement of the current interlocking with a computer-based interlocking, replacement of the current track circuit system with an axle counter-based detection system, and the installation of CBTC equipment on more than 80 subway cars. The solution will also consist of both a control centre and a back up control centre. The project is expected to be completed by 2019.
- Freight and mining: The acquisition of GE Signalling in November 2015 brought to Alstom Canada recurring business in the form of multi-year long-term agreements in place with Canadian National and Canadian Pacific. The business also recently completed major projects with mining railways and short line railroads in Eastern Canada (AMIC, Waterloo, Goderich Exeter), and is providing reliable, safe transit operations in the cities Edmonton and Calgary, Alberta.



PROJECTS ONGOING

- Alstom is providing 34 **Citadis Spirit** light rail vehicles and 30 years of maintenance services to the Rideau Transit Group consortium that was selected to design, build, finance, and maintain the first line of the **Ottawa Light Rapid Transit (OLRT)**, called the **O-Train Confederation Line**.
- Designed in a high capacity version, the Citadis Spirit will be able to operate in extreme winter conditions and will benefit from a top speed of 100 km/hour, reducing travel time between suburban areas and the city centre. The vehicle is 100% low-floor and will have on board bicycle storage.
- Alstom is currently assembling the vehicles at Belfast Yard in Ottawa. Once all vehicles have been delivered, the assembly area at Belfast Yard will be converted into a maintenance centre, where Alstom will maintain the vehicles for a period of 30 years.
- Alstom has also been retained to maintain the entire line, which involves the maintenance of the tracks, the operating control system, the power substation, as well as the signalling and communications systems, for a period of 30 years.



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