

News Release

Hitachi Rail to deliver new Ontario Line trains, systems, maintenance and operations in \$9B CAD deal

- *Infrastructure Ontario and Metrolinx reach agreement with Hitachi Rail's Connect 6ix consortium to transform Toronto's mass transit network via the 15.6-km Ontario Line subway project*
- *A new fleet of driverless subway trains will run up to every 90 seconds through heart of the city*
- *Hitachi Rail will maintain and operate trains and the line for 30 years, creating a new control centre and maintenance and storage facility*
- *Second major program Hitachi Rail is delivering in Canada, continuing global rail firm's rapid expansion into North America*



Ontario Line train concept

17 November 2022- Hitachi Rail has been awarded a contract to deliver the new Ontario Line rolling stock (trains), systems, operations and maintenance (RSSOM) package by Infrastructure Ontario and Metrolinx, as the leader of the Connect 6ix consortium. The \$9bn CAD contract is the second major infrastructure project the global rail leader is delivering in Canada and will secure its presence in Toronto for the next 30 years.

The Ontario Line is a brand new 15.6-kilometre subway line that will create a high-frequency rapid transit service – with trains running as frequently as every 90 seconds – through the heart of Toronto. The new line will have the ability to move up to 30,000 people per hour in each direction and will be a major enhancement in public transit capacity and connectivity. The route will have 15 stations, eight of which will be underground and will extend from Exhibition/Ontario Place in the west to the Ontario Science Centre in the east. In addition to creating new capacity, the program will also better connect the existing transit system, creating more 40 connections to other transit options, including GO Transit rail lines, existing TTC subway service on Line 1 and Line 2, and the future Line 5 (Eglinton Crosstown LRT).

As part of the agreement, the consortium Hitachi Rail and its partners will design and build the trains and install and integrate tracks and systems along the line, as well as maintain and operate the service for 30 years. The consortium will draw on Hitachi Rail's extensive international experience delivering subway vehicles across the world to deliver a state-of-the-art fleet of autonomous trains. The trains will be packed with the latest technology and feature:

- onboard Wi-Fi;
- digital passenger information screens;
- charging points;
- dedicated spaces for bicycles;
- double wheelchair areas;
- continuous, connected carriages;
- heating and cooling throughout;

- doors that will open in sync with platform edge doors;
- regenerative braking.

Wi-Fi access, passenger information screens, and platform edge doors in all Ontario Line stations will also be delivered under this contract.

The trains will travel at speeds upwards of 80 kilometres per hour and will be powered entirely by electricity, offering passengers a greener way to travel across Toronto. The new line will reduce congestion and help protect the environment by removing up to 28,000 cars from the city's roads each day.

The new subway will be able to achieve such a step-change in service levels because it will be fully autonomous and capable of offering higher levels of safety, reliability and capacity. Hitachi Rail's world-leading digital train control systems will allow the fleet to run at high frequency – up to every 90 seconds – meaning passengers will never have to wait long for a train.

The line will be fitted with the latest communication-based train control (CBTC) technology that seamlessly connects tracks, trains and the control centre together – providing a perfect picture of every part of the subway system. Full automation and integration means that trains can safely run more closely together, as well as accelerating and braking more efficiently. To deliver the driverless system, Hitachi Rail will draw from its extensive international experience, which includes Denmark, Taiwan, Italy, Britain, China, Greece, India and the United States.

To make sure the trains run to a very high standard, Hitachi Rail and Transdev will establish a new purpose-built digital control centre and maintenance and storage facility, which will create hundreds of permanent jobs. The Connect 6ix project team are also going to recruit people to deliver the program, with recruitment beginning immediately, ahead of construction starting in 2023. In total, 800 jobs are expected to be created.

Andrew Barr, Group CEO, Hitachi Rail said: *“As a world leader in autonomous metro systems, we're hugely excited to help transform Toronto's transit network by delivering the new Ontario Line.*

“This will be the second major program that we'll be bring our digital expertise and engineering excellence to deliver in Canada, after the Hurontario the light rail transit project. Our role delivering maintenance and operations for the next 30 years will see us having a lasting presence in Toronto for a generation to come.”

The Connect 6ix consortium includes:

- Applicant Lead: Plenary Americas, Hitachi Rail, Webuild Group, Transdev Canada Inc.
- Design Team: Hitachi Rail, IBI Group Professional Services (Canada) Inc.
- Construction Team: Hitachi Rail, Webuild Group, NGE Contracting Inc.
- Operations, Maintenance and Rehabilitation Team: Hitachi Rail, Transdev Canada Inc.
- Financial Advisor: National Bank Financial Inc., Sumitomo Mitsui Banking Corporation

The Ontario Line RSSOM contract as part of the Connect 6ix consortium is the second major program that Hitachi Rail is delivering in Canada, and follows the Hurontario Light Rail Transit program. When combined with around 1,000 employees as part of the acquisition of Thales Ground Transportation Systems, these programs will give Hitachi Rail a strong presence in the Canadian transit market. The expansion reflects Hitachi Rail's growth in the North American market, with over 1,200 existing employees and around 100 projects across the region. As a leader of rolling stock, signalling, maintenance and digital solutions, Hitachi Rail is ideally placed to deliver new or improved transit systems across North America.

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Notes to the editors

The contract is to design, build, finance, operate and maintain the Ontario Line Rolling Stock, Systems, Operations and Maintenance (RSSOM) package for a 30-year term.

The CBTC system will be at the highest grade of automation (GOA4), meaning it will be a fully automated driverless system.

Hitachi Rail is also recruiting for numerous roles for projects across North America. To see these opportunities, visit ([Jobs and Careers | Rail | Global - Hitachi Rail | Hitachi Rail](#)).

Vendors and suppliers inquiring about opportunities to work with Hitachi Rail should contact RSProcurement@us.hitachirail.com.

To find out more about **Hitachi Rail in North America**, please visit this [link](#)

About Hitachi Rail

Hitachi Rail is a fully integrated, global provider of rail solutions across rolling stock, signalling, service & maintenance, digital technology and turnkey solutions. With a presence in 38 countries across six continents and over 12,000 employees, our mission is to contribute to society through the continuous development of superior rail transport solutions. We are proud of our global achievements, from our world-famous 'bullet trains', to our signalling solutions and turnkey projects, state-of-the-art traffic management and digital solutions. Drawing on the wider Hitachi Group's market-leading technology and research-and-development capabilities, we strive for industry leading innovations and solutions that can deliver value for customers and sustainable railway systems that benefit wider society. For information about Hitachi Rail, visit www.hitachirail.com.

Information contained in this news release is current as of the date of the press announcement, but may be subject to change without prior notice.
