

Capital Projects Group Update: Regional Express Rail Rapid Transit High Speed Rail

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OVERVIEW

The Capital Projects Group (CPG) continues to advance the Rapid Transit (RT) and Regional Express Rail (RER) programs through:

- Partnerships and collaboration with municipalities to achieve shared program goals
 - First RER Municipal Network session successfully held June 26, 2017 in Toronto
- Ongoing construction on the Eglinton Crosstown LRT
- The decision of Hamilton City Council to move forward with the Hamilton LRT project
- The engagement of Alstom as an alternative light rail vehicle provider
- Selection of the 3 proponents to receive the RFP for the Hurontario LRT project which will be released this summer
- Initiation of early construction of several projects in the RER program
- Progress on a number environmental assessments and procurements that advance the RER program

RAPID TRANSIT PROGRAM AT A GLANCE

Eglinton LRT

Tunnel boring machines extracted in April 2017

Excavation at many of the 15 underground stations

Well into the construction phase

Crosslinx continues to target in service date of September 2021

Finch West LRT

Procurement resumed with Alstom as the LRV supplier

In service date of 2021

Hurontario LRT

RFP to be released summer 2017

In the procurement Phase, in service date of 2021

Hamilton LRT

Environmental Project Report scheduled approval August 2017

In the procurement and planning phase, in service date of 2024

vivaNext BRT

With York Region Rapid Transit Corporation, progressing work on the remaining 3 segments within the fixed budget.

In various stages of progress along the route, with various in service dates



REGIONAL EXPRESS RAIL PROGRAM UPDATES /1

All corridors below are in various stages with in service dates of 2025.

Barrie Corridor

- Barrie South Station parking expansion design complete March 2017
- Public Design Workshop for the Davenport Diamond project held April 2017

Kitchener Corridor

- Guelph Station grand opening in April 2017

Richmond Hill & Stouffville Corridors

- Tender for the design of the Oriole Station temporary relocation released April 2017
- On June 7, 2017 the Minister announced all-day 15 minute service coming to Stouffville Corridor.



REGIONAL EXPRESS RAIL PROGRAM UPDATES /2

All corridors below are in various stages with in service dates of 2025.

Lakeshore East Corridor

- Notice of Commencement of the Environmental Assessment for corridor expansion between Union Station Rail Corridor and Scarborough Junction issued May 2017, with public meetings held in June 2017
- Union Station East Track Environmental Assessment to be released summer 2017



Lakeshore West Corridor

- Lewis Road Layover Facility opened April 2017
 - Allows overnight train storage in the Hamilton area

Milton Corridor

- Cooksville GO Station:
 - RFP released in January 2017; In-market period closed May 2017. Project includes 1,900 new parking spaces

RER - EXTENSIONS AND OTHER MAJOR WORKS UPDATES

Kitchener CN Freight Bypass

- Working with CN rail on a master agreement, in planning stage with in service date of 2024

Niagara Extension

- Metrolinx staff presented to Niagara Regional Council in May 2017
- In the procurement and planning phase
- Expansion with in service dates to Casablanca by 2021, and Niagara Falls by 2023

Bowmanville Extension

- Mobility hub workshops held in June 2017 in Courtice and Bowmanville
- In the procurement and planning phase with in service date of 2024

Network Infrastructure

- Major network infrastructure works include a new control centre in Oakville by 2018 and Union Station Rail Corridor signaling system improvements by 2020

ELECTRIFICATION OPTIONS

Transit Project Assessment Process (TPAP)

- Electrification TPAP Notice published June 2017
- Public meetings held June 26 in Mississauga, and being held June 28 in Ajax, June 29 in Toronto, and July 5 in Newmarket

Studying Alternative Technologies

- Government announced:
 - The release of the TPAP EA for electrification using traditional overhead wires
 - A feasibility study on the use of hydrogen fuel cells as an alternative means for electrification
- Metrolinx is studying the readiness of fuel cell technology enabled vehicles in parallel with traditional electric vehicles - last review of Hydrogen technology was completed in 2010
- Metrolinx will co-host a symposium in fall 2017 with UofT Engineering
- Regardless of technology choice, the approach is reflective of a commitment to decarbonize the transit system and electrify the GO network

ONTARIO HIGH SPEED RAIL

- On May 19 2017, the Premier announced \$15 million in funding for MTO to lead the preliminary design and environmental assessment (EA) of a new High Speed Rail (HSR) corridor between Toronto and Windsor. The EA is expected to commence in 2017
- HSR is meant to connect Ontario with the global economy through international gateway hubs, such as Pearson International Airport, and the Gordie Howe international crossing in Windsor
- During 2016 and 2017, Metrolinx staff met with MTO staff and the Special Advisor, the Hon. David Collenette, to understand work related to the report and business case. Current analysis related to RER was also shared.
- Timeline of work to date by MTO:
 - 2013 - Initial pre-feasibility study
 - 2014/16 - Minister of Transportation Mandate letters
“...advancing environmental assessments for HSR...”
 - 2015 - Special Advisor appointed
 - 2017 - Special Advisor Report, initial business case and announcement of EA

HSR AND RER

- HSR and RER services are expected to share rail corridors between Toronto and Kitchener:
 - RER providing all-stop “regional” service
 - HSR providing limited stop “intercity” service (to Guelph and Pearson/Malton)
 - HSR will likely operate at lower speed limits on some RER corridor segments between Kitchener and Toronto
- MTO and Metrolinx will be working closely together on the proposed scope of both HSR and RER, to ensure that scope, costs, and service impacts are fully understood.



