



Ontario's Green Bonds

LETTER FROM THE CEO

The year 2023 represents the start of a new chapter for Ontario's Green Bond program as it approaches its 10-year anniversary in 2024. The issuance of our fourteenth Green Bond has propelled us to \$16.5 billion in cumulative issuance. I take pride in Ontario's pioneering role in the development of a Canadian dollar Green Bond market, and we are committed to maintaining our leadership in this dynamic space.

As a frontrunner in the Green Bond market since the inception of the program in 2014, and in anticipation of the evolving Green Bond market and to better respond to investor needs, Ontario is excited to announce its new *Sustainable Bond Framework* to be released in early 2024. This update will involve aligning the Framework with the four core components of the International Capital Market Association (ICMA) Green Bond Principles (GBP), the ICMA Social Bond Principles (SBP) and the ICMA Sustainability Bond Guidelines, which will allow for a broader range of potential bond offerings in the future.

Ontario's Green Bonds have successfully funded 28 projects across three key categories outlined in our current Green Bond Framework. These bonds continue to garner strong interest from major institutional investors in Canada and globally. Our most recent Green Bond, and the Province's fourteenth, was priced on December 4, 2023 for \$1.5 billion and provided funding for five major projects spanning Clean Transportation as well as Energy Efficiency and Conservation.

Ontario remains steadfast in its commitment to the Canadian dollar Green Bond market, with Green Bonds expected to play a significant role in our borrowing program moving forward. While Green Bonds have traditionally accounted for approximately four percent of the Province's annual borrowing program, future prospects suggest the potential for an increase in annual issuance.

The *2023 Ontario Economic Outlook and Fiscal Review* outlined planned infrastructure investments totaling \$185 billion over the next decade. Approximately 48 per cent will be allocated towards transportation, 27 per cent towards health and 13 per cent towards all levels of education which opens the opportunity for more of these projects to be eligible for funds under Ontario's new and broader *Sustainable Bond Framework*.

In our pursuit of transparency and impactful reporting, Ontario strives to lead by example with the publication of our annual newsletter. We are committed to providing timely and tangible information on projects funded by Ontario's bonds issued under the new *Sustainable Bond Framework* in the future, and we are prepared to embrace any future impact reporting recommendations and changes put forth by ICMA.

Green Bonds stand as a vital tool for financing initiatives such as public transit projects, resilient infrastructure against extreme weather, as well as energy efficiency and conservation efforts in Ontario. I extend my sincere gratitude to investors for their unwavering support of our borrowing program.

Here's to another year of sustainable progress.



Gadi Mayman
Chief Executive Officer, Ontario Financing Authority

Ontario's Green Bond Features

Ontario's Green Bonds

- Carry the full faith and credit of the Province of Ontario.
- Rank *pari passu* with Ontario's other bonds and are payable without any preference or priority.
- Payments of principal of and interest on the bonds will be a charge on and payable out of the Consolidated Revenue Fund of Ontario.
- An amount equal to the net proceeds of each Green Bond issue is recorded in a designated account in the Province of Ontario's financial records. These designated accounts are used to track the use and allocation of funds to eligible projects.

Ontario's Green Bond Framework

"Eligible projects" means projects (mainly infrastructure) funded by the Province that have environmental benefits. Eligible projects are located throughout Ontario communities.

Without limitation, projects in the following categories have generally been considered eligible:

- Clean Transportation;
- Energy Efficiency and Conservation;
- Clean Energy and Technology;
- Forestry, Agriculture and Land Management; *and*
- Climate Adaptation and Resilience.

Alignment with Green Bond Principles

Ontario's Green Bond program aligns with the GBP. Since March 2016, Ontario has been a member of the GBP group, maintained by the International Capital Market Association. In 2021, Ontario became a member of the GBP Impact Reporting Working Group.

As recommended by the GBP, the Province of Ontario reports annually on the use of proceeds and impact statistics for the projects that received Green Bond funding until full allocation. Ontario uses widely recognized core indicators for its projects and expects to adopt any future impact reporting recommendations of the GBP.

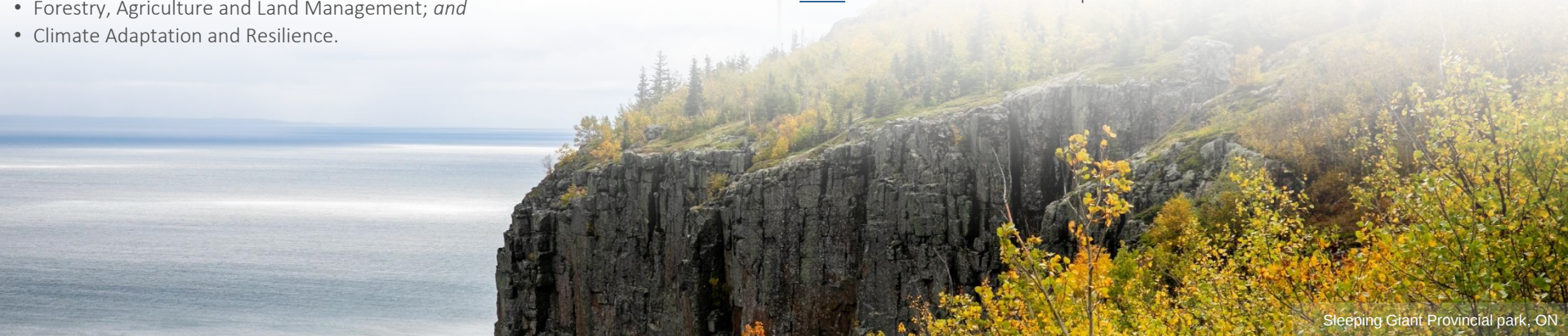
Alignment with United Nations Sustainable Development Goals

Ontario's Green Bond proceeds fund project categories which support many of the United Nations Sustainable Development Goals (UNSDGs).

Assurances

The Center for International Climate and Environmental Research — Oslo (CICERO) provided a second opinion on [Ontario's Green Bond Framework](#).

Each fiscal year, the office of the Auditor General of Ontario provides an [assurance audit](#) on the use of Green Bond proceeds.



Sleeping Giant Provincial park, ON

Ontario's Green Bond Issues

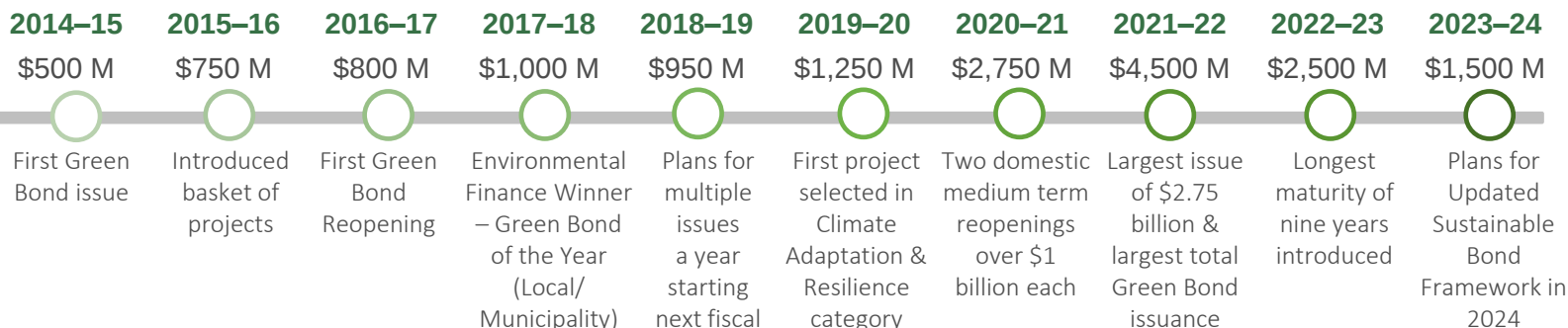
\$16.5

Total Issuance
(\$Billions)

14

Green Bond
Issues

Ontario is the
largest and most
frequent issuer of
Canadian dollar
Green Bonds



FORMAT

Domestic Medium Term Note

• • • • •

Global Canadian Dollar

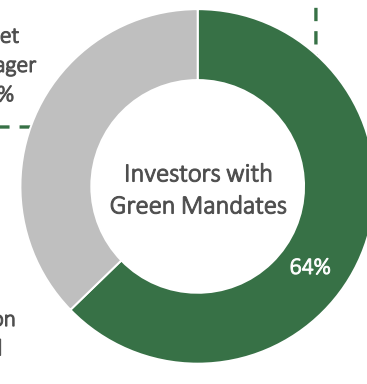
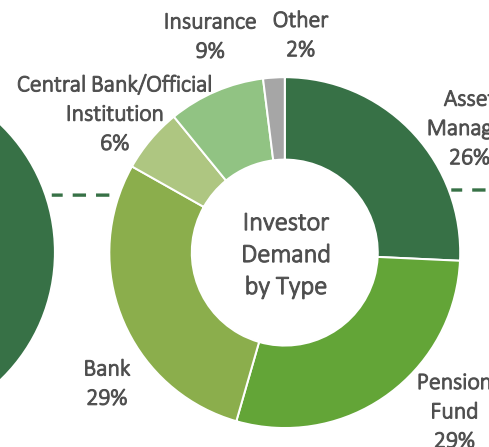
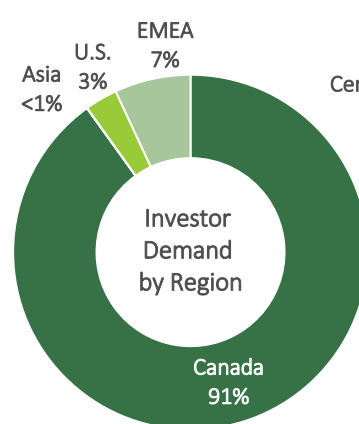
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LISTINGS

Luxembourg Stock Exchange

Euro MTF

Luxembourg Green Exchange



Note: Numbers may not add due to rounding.

Inclusion in Green Bond Indices

Bloomberg MSCI Global Green Bond Index

ICE BofA Green Bond Index

S&P Green Bond Index

Solactive Green Bond USD CAD DM hedged Index

All Green Bond issues were available through Ontario's current dealer group for placement with Canadian and international institutional investors.

All issues were also made available to retail investors through Canadian financial institutions.

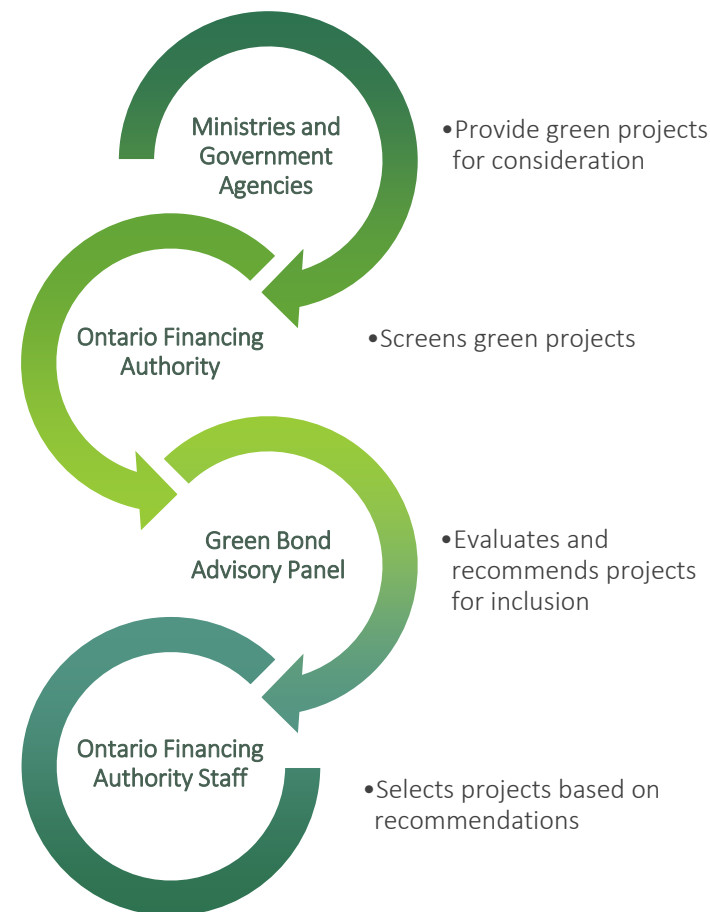
Future Issuance Plans

Ontario remains committed to the Green Bond market. Subject to market conditions, Ontario plans to continue to issue multiple Green Bonds each fiscal year, including in 2023–24.

Project Evaluation and Selection

The selection of eligible green projects is done on behalf of the Province by the Ontario Financing Authority (OFA) with advice from the Province's Green Bond Advisory Panel (GBAP). The GBAP, which includes staff from various ministries and agencies including the Ministry of Environment, Conservation and Parks, evaluates and recommends projects for inclusion in Ontario's Green Bond program.

Since inception of Ontario's Green Bond program, the Province has worked on refining its project evaluation and selection process. Ontario is excited to announce its new *Sustainable Bond Framework* to be released in early 2024. This update will involve aligning the Framework with the four core components of the GBP, SBP and the ICMA Sustainability Bond Guidelines.



Ontario Framework Category	Project Examples
Clean Transportation	Funding of public transit projects
Energy Efficiency and Conservation	Public sector building efficiency improvements
Climate Adaptation and Resilience	Flood protection and storm water management

United Nations Sustainable Development Goals

Ontario funds eligible Green Bond projects within Framework Categories which primarily support the following UNSDGs:



EU Taxonomy

Ontario funds Green Bond projects that contribute to environmental objectives set out in the EU Taxonomy, primarily in Climate Change Mitigation and Climate Change Adaptation.

Use and Management of Proceeds Overview

Clean Transportation Projects	Green Bond Allocation													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Eglinton Crosstown Light Rail Transit (LRT)	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓			
GO Expansion (formerly Regional Express Rail)		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
York Viva Bus Rapid Transit		✓	✓	✓										
Finch West LRT			✓	✓			✓	✓	✓	✓	✓	✓		
Hazel McCallion LRT (formerly Hurontario LRT)			✓	✓					✓	✓	✓	✓	✓	✓
Ontario Line Subway									✓	✓	✓	✓	✓	✓
Scarborough Subway Extension											✓	✓	✓	✓
Hamilton LRT ¹			✓											
Energy Efficiency and Conservation Projects	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Macdonald Block Reconstruction									✓	✓			✓	✓
Michael Garron Hospital									✓					
West Park Healthcare Centre									✓		✓			
Centre for Addiction and Mental Health — Phase 1C Redevelopment					✓		✓							
Cortellucci Vaughan Hospital (formerly Mackenzie Vaughan Hospital)					✓		✓	✓						
New Toronto Courthouse							✓			✓				
Brockville General Hospital							✓							
Groves Memorial Community Hospital							✓							
William Osler Health System — Etobicoke General Hospital Phase 1 Patient Tower Project					✓									
Whitby Rail Maintenance Facility				✓										
Seneca College King Campus Expansion				✓										
Joseph Brant Hospital — Redevelopment Project Phase 1				✓										
St. Joseph's Healthcare Hamilton — West 5 th Campus		✓	✓											
St. Joseph's Healthcare London (Parkwood) and St. Thomas		✓	✓											
Waypoint Centre for Mental Health		✓	✓											
Centre for Addiction and Mental Health — Phase 1B		✓	✓											
ErinoakKids Centre for Treatment and Development			✓											
Woodstock General Hospital			✓											
Sheridan College Hazel McCallion Campus Expansion		✓												
Climate Adaptation and Resilience Project	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Port Lands Flood Protection							✓	✓	✓	✓	✓			

1: Province announced the cancellation of the procurement for the Hamilton LRT project as of December 16, 2019.

Funding Allocation and Disbursements

Each fiscal year, an assurance audit by the Office of Auditor General (AG) of Ontario verifies the amounts allocated for selected projects and the balance of proceeds remaining.

Post-March 31, 2023 amounts will be included in the AG's assurance audit of the use of Green Bond proceeds next fiscal year.

28

Projects
across three
project categories¹

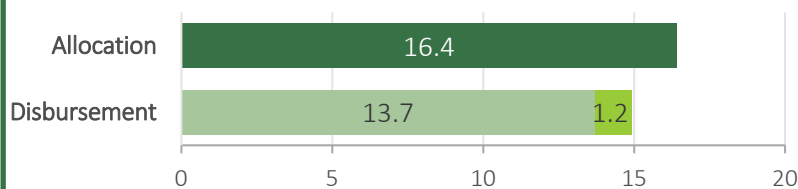
14.9

Total Funds
Disbursed ²
(\$ Billions)

91

Total Funds
Disbursed ²
(Per Cent)

ALLOCATIONS & DISBURSEMENTS (\$ Billions)



- Allocated Funding since inception of the Green Bond Program
- Funds Disbursed from Inception to March 31, 2023
- Funds Disbursed from April 1, 2023 - December 6, 2023



Energy Efficiency & Conservation

19 Projects

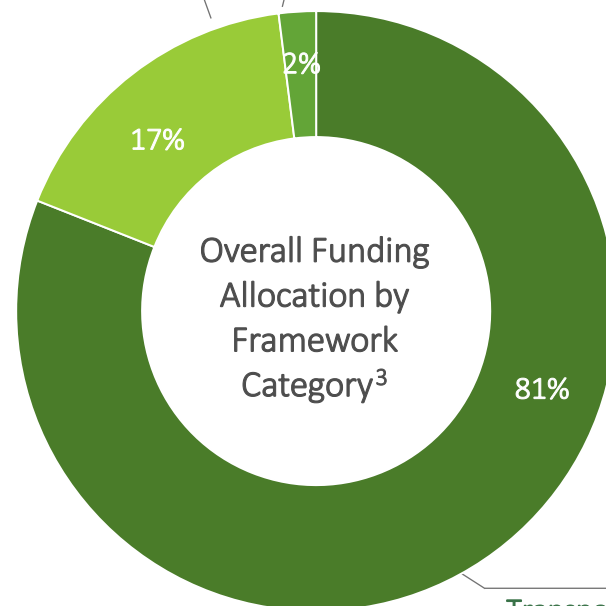
\$2.8 Billion



Climate Adaptation & Resilience

1 Project

\$0.4 Billion



Clean Transportation

8 Projects

\$13.2 Billion



1: Figures include the Hamilton LRT project. The Province announced the cancellation of the procurement for the Hamilton LRT project as of December 16, 2019.

2: As of December 6, 2023.

3: Numbers may not add due to rounding.

Funding Allocation and Disbursements

During fiscal 2023–24, the Province allocated and disbursed Green Bond proceeds to 10 projects:

Project Name	Total Project Cost ¹ (\$ millions)	Allocated Funding from Green Bond Program (\$ millions)	Funds Disbursed since Inception of the Green Bond Program as of March 31, 2023 (\$ millions)
Clean Transportation			
GO Expansion	13,500 (2014\$)	4,782.8	3,158.2
Finch West LRT	2,230 (2019\$)	872.7	872.7
Hazel McCallion LRT	2,966 (2019\$)	1,236.0	1,044.5
Ontario Line Subway	10,900 (2020\$)	1,909.2	1,359.2
Scarborough Subway Extension	5,500 (2020\$)	432.3	314.1
Energy Efficiency and Conservation			
Macdonald Block Reconstruction	1,536.0	670.0	485.3
New Toronto Courthouse	956.4	172.1	172.1
Michael Garron Hospital	411.0	150.0	150.0
West Park Healthcare Centre	1,200.0	225.0	225.0
Climate Adaptation and Resilience			
Port Lands Flood Protection	1,250.0	400.4	375.4

Note: As recommended by the GBP, the Province of Ontario reports annually on the use of proceeds and impact reporting statistics, for the projects that received Green Bond funding until full allocation.

1: For Clean Transportation projects, this is referring to the base capital construction costs. For Energy Efficiency & Conservation projects, the "Total Project Cost" represents contract value (the payment(s) to be made by the Sponsor for a P3 project, as defined in the Project Agreement and prior to taking into account inflation).

Clean Transportation – Electrification



ELECTRIFICATION
is a major focus in Ontario's mass transit system buildout



ONTARIO'S GENERATION MIX
Was approximately 90 per cent emissions-free in 2022

Through investments in Ontario's priority subway projects, the GO Rail Expansion Program, and light rail transit projects across the Province, Ontario is delivering an integrated transit network that will support the development of sustainable communities and travel patterns.

Electric rail technology will be used across all new subway and light rail projects currently in delivery. In addition, electrification of the GO rail network is a key component of the Province's commitment to transform the GO Transit rail network into a comprehensive, all-day rapid transit network.

Electric vehicles will provide faster journey times and support lower operating costs per kilometer, delivering safe, fast and reliable service while reducing localized emissions and noise impacts.

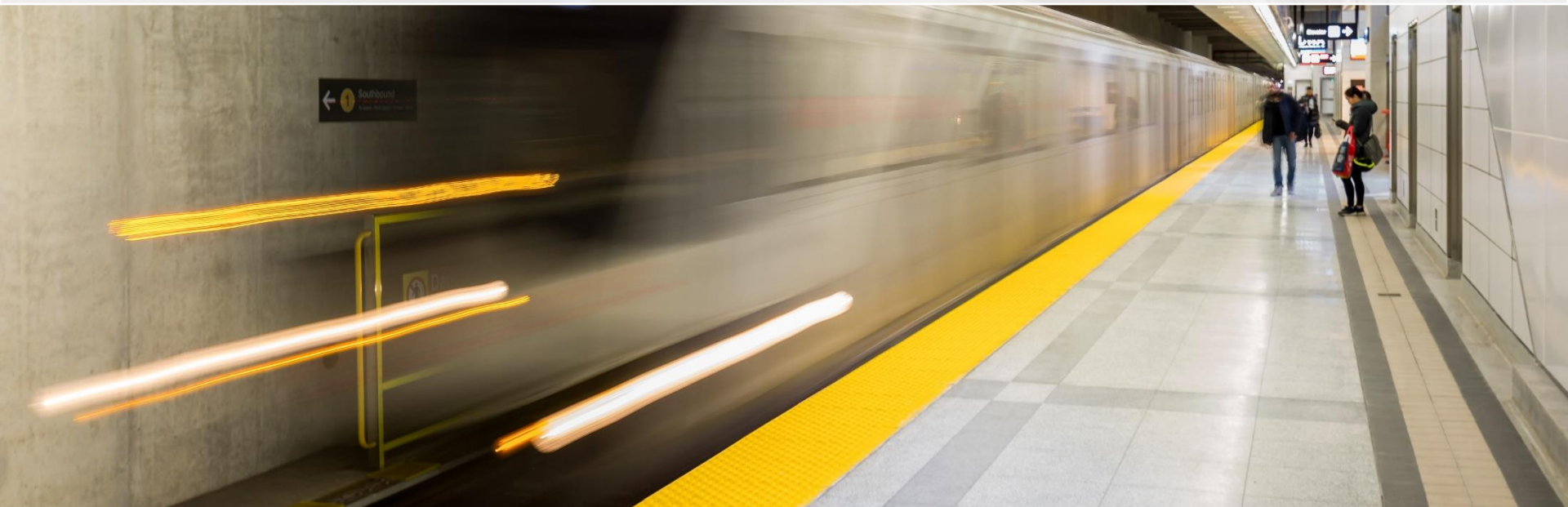
Impact Reporting – Clean Transportation

Project	Expected Completion	Project Description	Estimated Greenhouse Gas (GHG) Reductions (CO ₂ [or equivalent] tonnes / yr)	Equivalent Passenger Vehicles Off the Road (vehicles / yr)	Other Environmental Benefits
Ontario Line Subway	2030	A new 15.6-kilometre rapid transit line in Toronto that will connect Exhibition/ Ontario Place through downtown Toronto to the Ontario Science Centre. The project will include 15 stations.	14,000 (starting 2030)	3,256 (starting 2030)	Reductions in auto usage and the switch from diesel buses to electric rail vehicles contributes to decreasing greenhouse gas (GHG) emissions and Criteria Air Contaminants (CACs), manages traffic congestion, and encourages mode shift from auto trips to transit trips.
Finch West LRT	2023	The Finch West LRT will expand transit in Toronto through the building of an 11- kilometre LRT line with 18 stops along the Finch West Corridor.	17,000 (starting 2030)	3,953 (starting 2030)	- Reductions in auto usage and the switch from diesel buses to electric LRVs contributes to decreasing GHG emissions and CACs, manages traffic congestion, and encourages mode shift from auto trips to transit trips. - Maintenance and storage facility will meet LEED Silver certification.
Hazel McCallion LRT	2024	The Hurontario LRT will be a new 18-kilometre LRT line with 19 stops, connecting the cities of Mississauga and southern Brampton.	4,000 (starting 2030)	930 (starting 2030)	- Reductions in auto usage and the switch from diesel buses to electric LRVs contributes to decreasing GHG emissions and CACs, manages traffic congestion, and encourages mode shift from auto trips to transit trips. - Maintenance and storage facility will aim to meet LEED Silver certification.

Impact Reporting – Clean Transportation

Project	Expected Completion	Project Description	Estimated Greenhouse Gas (GHG) Reductions (CO2 [or equivalent] tonnes / yr)	Equivalent Passenger Vehicles Off the Road (vehicles / yr)	Other Environmental Benefits
Scarborough Subway Extension ¹	2029	The Scarborough Subway Extension will bring the TTC's Line 2 subway service 7.8-kilometres farther into Scarborough, extending from Kennedy Station to Sheppard Avenue and McCowan Road. The project includes three new stations, and up to six transit connections.	10,000 (starting 2030)	2,326 (starting 2030)	Reductions in auto usage and the switch from diesel buses to electric rail vehicles contributes to decreasing GHG emissions and CACs, manages traffic congestion, and encourages mode shift from auto trips to transit trips.

¹: Estimated timelines for completion and GHG projections will be confirmed following the conclusion of the procurement process.



Impact Reporting – GO Expansion

Go Expansion

will transform the existing GO Rail network into a comprehensive, all-day rapid transit network by providing two-way, all-day service every 15 minutes over core segments of the GO Transit rail network. Work is already underway across the network to help support the delivery of GO Rail Expansion and to prepare the network for future works. The Province is moving forward with critical procurements to support the delivery of enhanced GO rail services, including the On-Corridor Works project (currently in-market). Among other components, the scope of the On-Corridor Works project includes works, such as electrification infrastructure, signaling and new fleet. GO Expansion will provide several benefits, including providing new transportation choices that can accommodate significant population growth, as well as reducing congestion, GHG emissions, CACs and other pollutants that impact human health and contribute to climate change.



Expected Completion	Estimated Greenhouse Gas (GHG) Reductions (CO2 [or equivalent] tonnes / yr)	Equivalent Passenger Vehicles Off the Road (vehicles / yr)	Other Environmental Benefits
Enhancements incrementally introduced over the life of the program	480,000 (starting 2030)	111,628 (starting 2030)	- GO Expansion will shift the GO Rail network from a largely commuter system to a comprehensive regional rapid transit option, thereby contributing to mode shift and decreasing GHG emissions and CACs. - New facilities will be minimum LEED Silver and are targeting LEED Gold certification where possible.

Note: Estimated timelines for completion and GHG projections will be confirmed following the conclusion of the procurement process.

Impact Reporting – Energy Efficiency and Conservation

Project	Expected Completion	Project Description	Estimated Energy Savings (kWh / yr)	Estimated GHG Reductions (CO2 [or equivalent] tonnes / yr)	Equivalent Passenger Vehicles Off the Road (vehicles / yr)	Estimated Water Savings (litres / yr)	Equivalent Water Usage per Household (Ontario households / yr)	Other Environmental Benefits
West Park Healthcare Centre	Substantial Completion achieved in November 2023	West Park Healthcare Centre has built a new six-storey, 730,000 square foot hospital to replace the existing facility, located in Toronto. Programs and services provided include specialized rehabilitation, complex continuing care, and community health services on a park-like campus; featuring significantly expanded green spaces, including extensive landscaping for outdoor therapy, therapeutic gardens, walking paths and courtyards, plus terraces on every floor.	22,754,095	3,778	879	5,543,763	29	Targeting LEED Silver certification
New Toronto Courthouse	2024	A new 17-storey, 780,000 sq. ft. courthouse that will include 63 courtrooms, 10 conference settlement rooms, a barrier-free environment, video conferencing for witnesses and in-custodies to appear from remote locations, and closed-circuit television to enable vulnerable witnesses to appear before the court from a remote testimony suite.	4,615,567	475	111	3,968,717	21	Targeting LEED Silver certification
Michael Garron Hospital	2024	The project includes a new eight-storey patient care tower and three-storey connection, as well as renovation work to the existing hospital in Toronto. This involves new construction and renovations of approximately 550,000 sq. ft.	12,349,413	2,197	511	4,418,232	23	Targeting LEED Silver certification

Impact Reporting – Macdonald Block Reconstruction



Macdonald Block Reconstruction

is the administrative hub of Ontario government operations has a total gross building area of approximately 1.7 million sq.ft, including four office towers, podium, and underground parking. The reconstruction will lower operating costs in the complex, allow for significantly more workers to be accommodated, improve accessibility, and reduce the need for approximately 586,000 square feet of expensive third-party leased space while updating all core building systems, including electrical, water, cooling and heating.

Expected Completion	Estimated Energy Savings (kWh / yr)	Estimated GHG Reductions (CO2 [or equivalent] tonnes / yr)	Equivalent Passenger Vehicles Off the Road (vehicles / yr)	Estimated Water Savings (litres / yr)	Equivalent Water Usage per Household (Ontario households / yr)	Other Environmental Benefits
2024*	25,067,940	5,464	1,271	28,534,719	150	Targeting LEED Silver Certification

*Subject to change.

Impact Reporting – Port Lands Flood Protection



Port Lands Flood Protection

is the first project to receive Green Bond funding in the Climate Adaptation & Resilience category.

It is an approximate \$1.25 billion project for flood protecting southeastern portions of downtown Toronto that are at risk of flooding under a provincially defined Regulatory Storm event. There are four major components to the project: parks, roads and municipal infrastructure, bridges, and earthworks/flood protection.

The project involves excavating a new river valley that has the capacity to handle large volumes of flood water and creating a naturalized mouth for the Don River in the Port Lands. The project also includes structures to control water flow and manage sediment and debris, transit infrastructure to support future development, new parks, and aquatic habitat.

Expected Completion	Climate Adaptation and Resilience Benefits	Other Environmental Benefits	Economic Impacts
2024	290 hectares of land protected from flooding 14 hectares of new coastal wetland 3 hectares of terrestrial habitat to strengthen biodiversity and help clean water	30 hectares of naturalized greenspace 11 hectares of parkland - More than 1,000 metres of a new river channel 1,000,000 plants installed	\$5.1 billion in value to the Canadian economy 51,900 full-time years of employment \$1.9 billion in government revenues



2023 Ontario Green Bond Newsletter

The Ontario Financing Authority is an agency of the Province of Ontario and is responsible for provincial borrowing and debt management activities.

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