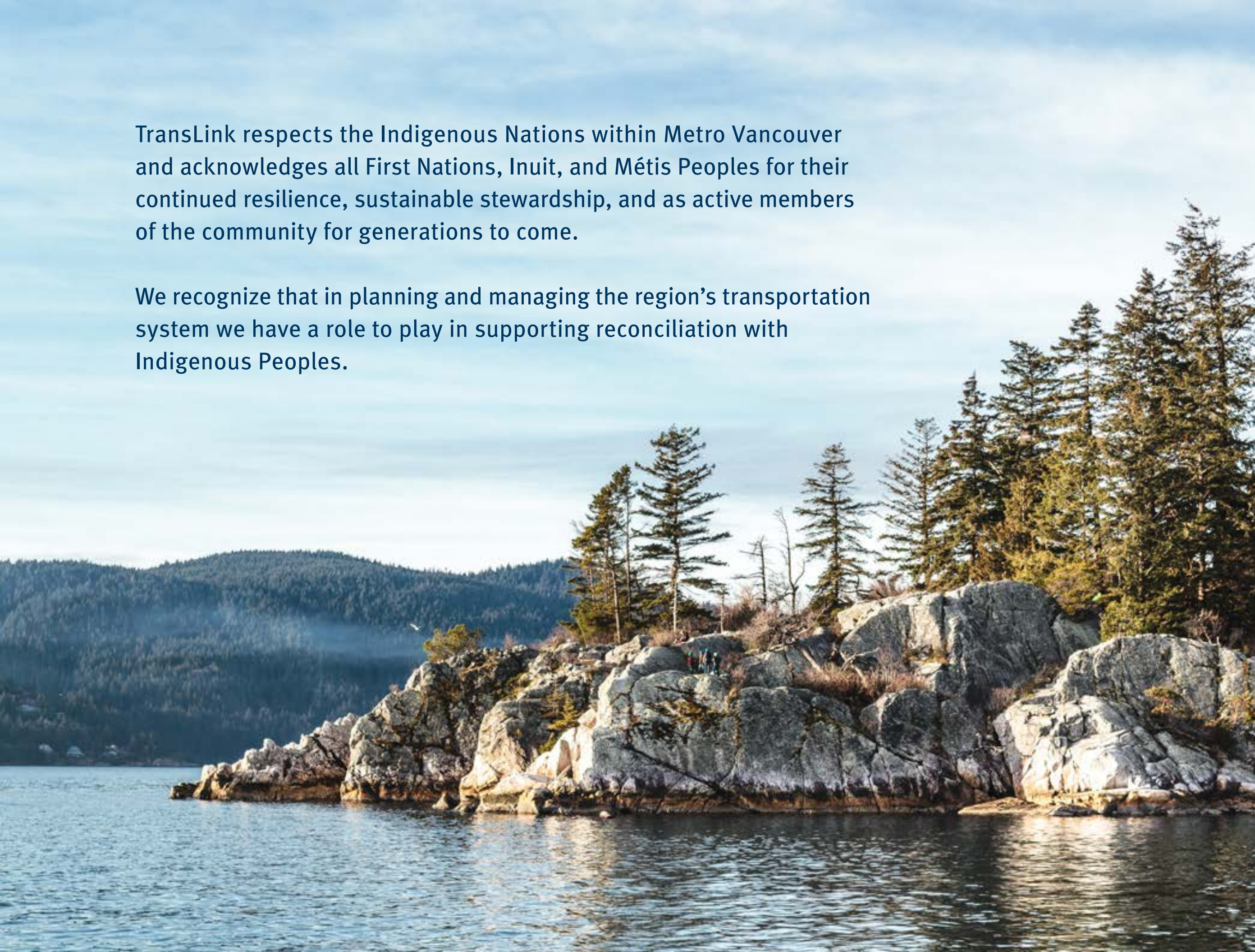


# 2022 Green Bond Impact Report

TransLink respects the Indigenous Nations within Metro Vancouver and acknowledges all First Nations, Inuit, and Métis Peoples for their continued resilience, sustainable stewardship, and as active members of the community for generations to come.

We recognize that in planning and managing the region's transportation system we have a role to play in supporting reconciliation with Indigenous Peoples.



# A Message from our CFO



Since the COVID-19 pandemic spread across the world a few years ago, impacting how people live, work and play, TransLink has focused on continuing to provide the important service it always has – ensuring that people in the region are able to get to where they need to go. Although ridership fell significantly in 2020 and 2021, it came back strong in 2022.

Alongside the pandemic, the climate emergency has stressed the importance of an equitable, net-zero emissions, and climate resilient future. Using transit is one of the easiest, quickest ways to reduce our impact on climate change, especially when the transit system is based on use of renewable energy. TransLink continues to plan and prepare for the future, ensuring that its public transportation system continues to expand to meet the needs of the growing region.

Our \$400 million (2018) and \$200 million (2019) Green Bond issuances have been used solely to finance clean transportation and energy efficiency projects. I am pleased to report that all funds from these two issuances have been dispersed.

Our 2022 Investment Plan looks forward – to expanding our service, to investing in infrastructure that will enable us to adapt to the changing climate, and to meeting the growing demand for transit in our region. By investing in Green Bonds, TransLink will continue to deliver tangible outcomes – financially and environmentally – that will enable us to be more sustainable and resilient. We're proud to be a leader in this area, and excited about our ability to make a real change.

Sincerely,

A handwritten signature in black ink that reads "Christine Dacre". The signature is fluid and cursive.

Christine Dacre  
Chief Financial Officer, TransLink

# About TransLink

TransLink is the first multi-modal transportation authority in North America to oversee a broad range of transportation modes, including bus, passenger rail (SkyTrain and commuter), cycling, walking, roads, and more.



Bus



SeaBus



SkyTrain



Commuter Rail



Walking



Cycling



Roads



Bridges

2000+ fleet vehicles

239 facilities

421 support vehicles

383 SkyTrain cars

50 West Coast Express cars and locomotives

4 SeaBus vessels

**1,800km<sup>2</sup>**

Service area across 23 jurisdictions in Metro Vancouver.

**352.9M boardings**

## Key investment attributes include:

- More than \$5.5 billion in assets
- Strong fiscal management and investment-grade ratings (Aa2/AA)
- Diversified and dedicated revenue sources
- Government-legislated entity
- Only issuing transportation authority in Canada

## Sustainability Commitment

Our vision is to create a better place to live, built on transportation excellence. Guided by our regional transportation strategy, we work to connect the region and enhance its livability by providing a sustainable transportation system network.

Our [Sustainability Policy](#) articulates TransLink's commitment to integrating sustainability into all our strategies, plans, business practices, decisions, and operations. In addition, our Climate Action Strategy and Plan have two significant climate targets:



Achieve net-zero greenhouse gas emissions by 2050, with an interim reduction of 45% from 2010 levels by 2030; and



Ensure our infrastructure and operations are resilient to the impacts of climate change.

We have set ambitious goals, and we are well on our way to reduce emissions, utilize renewable energy, and design and operate resilient buildings.

American Public Transportation Association (APTA) Sustainability Commitment Recognition:



**2012** TransLink becomes the first transportation agency in North America to achieve **Gold level**.

**2016** TransLink is awarded **Platinum level**, the first transportation agency in Canada and one of six in North America to receive this award.

**2022** TransLink is named one of Canada's Greenest Employers.



# Green Bond Program

## Use of Proceeds

The use and management of the proceeds of Green Bonds can be found in the [Investor Relations](#) section of our website under TransLink's [Green Bond Framework](#).

## Project Evaluation and Selection

The selection of Eligible Projects is the responsibility of the Corporate Finance Department where the Enterprise Sustainability, Treasury and Capital Asset Management functions reside. The decision as to the selection of Eligible Projects is documented. TransLink will select the Eligible Projects that meet the criteria for use of proceeds described above. Projects must also comply with all applicable laws and regulations, and TransLink's policies and guidelines.

## Impact Reporting

TransLink is committed to promoting integrity in the market through transparency, disclosure, and reporting. TransLink uses the best available methodologies to select and report on project and program indicators demonstrating a positive environmental impact.

In 2018, TransLink developed a Green Bond Program to help finance projects that provide environmental benefits to customers and the communities we serve in the region.

TransLink's Green Bond Framework aligns with the International Capital Market Association (ICMA) Green Bond Principles and has received a [Second-Party Opinion](#) from Sustainalytics.



<b>Evaluation date</b>	October 1, 2018
<b>Issuer Location</b>	New Westminster, Canada



Sustainalytics is of the opinion that the TransLink Green Bond Framework is credible and impactful and aligns with the four components of the Green Bond Principles 2018.

# Program, Projects and Indicators



 **CLEAN TRANSPORTATION**

 **ENERGY EFFICIENCY AND CONSERVATION**






 **RENEWABLE ENERGY**

## SUSTAINABLE DEVELOPMENT GOALS

### 2018 and 2019 Green Bonds

The net proceeds from these issuances were used to finance or refinance, in whole or in part, existing and ongoing capital projects. These projects provide environmental benefits to the region and TransLink, and help make progress towards our sustainability and climate goals. The capital raised were directed to projects in the Green Bond Project Categories of **Clean Transportation, Energy Efficiency and Conservation, and Renewable Energy.**

These projects also support the United Nations Sustainable Development Goals (UN SDGs).

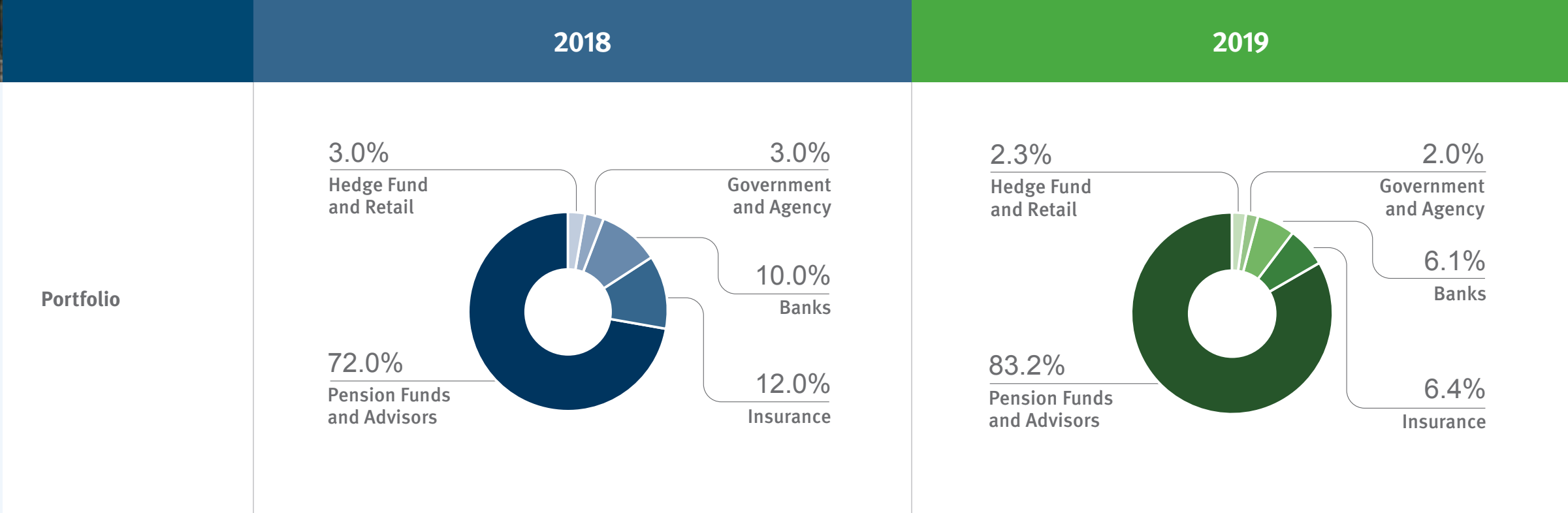
Public Transit Programs & Projects	Key Performance Indicators	TRANSLINK GREEN BOND PROJECT CATEGORY	UNITED NATIONS SDGS
<p><b>SkyTrain Station Upgrades</b></p> <p>.....</p> <p><b>SkyTrain Operations and Maintenance Program</b></p> <p>.....</p> <p><b>Refurbishment and Purchases of New Rapid Transit Vehicles (Train Cars)</b></p> <p>.....</p> <p><b>Electric Bus Program</b></p> <p>.....</p> <p><b>Rapid Transit Projects – SkyTrain Extension</b></p> <p>.....</p> <p><b>Cycling and Pedestrian Walking Infrastructure</b></p>	<ul style="list-style-type: none"> <li>Ridership (# boardings)</li> <li>GHG emissions (tCO<sub>2</sub>e)</li> <li>Reduced/avoided emissions (tCO<sub>2</sub>e)</li> <li>Renewable energy consumed (kWh/yr; GJ/yr)</li> </ul>		  
<p><b>Building Energy Efficiency Improvements</b></p> <p>.....</p> <p><b>SkyTrain Station Upgrades</b></p> <p>.....</p> <p><b>Transit Centre Energy Upgrades</b></p>	<ul style="list-style-type: none"> <li>Renewable energy consumed (kWh/yr; GJ/yr)</li> <li>GHG emissions (tCO<sub>2</sub>e)</li> </ul>		

# 2018 and 2019 Green Bond Summaries



	2018	2019
<b>Issuance</b>	On November 15, 2018, TransLink (Aa2/AA) successfully priced its inaugural Green Bond of <b>\$400 million</b> , making it the first transit authority in Canada to issue a Green Bond (ISIN:CA83740TAG28).	On October 22, 2019, TransLink (Aa2/AA) successfully priced and issued a <b>\$200 million</b> Green Bond (ISIN:CA83740TAH01).*
<b>Term</b>	The \$400 million <b>10-year bullet maturity bond</b> was priced with a coupon interest rate of 3.25 per cent, payable semi-annually until maturity on November 23, 2028.	The <b>31-year bullet maturity</b> bond was priced with a coupon interest rate of 2.65 per cent, payable until maturity on October 29, 2050.
<b>Investor</b>	The transaction was oversubscribed with <b>41 investors, including 9 new investors</b> . Seventy-three (73) per cent of allocation was to “Green” Investors (i.e., having specific Green funds or a Green mandate).	The transaction was oversubscribed with <b>34 investors</b> . Seventy-five (75) per cent of allocation was to “Green” Investors (i.e., having specific Green funds or a Green mandate).
<b>Demand</b>	Demand was primarily concentrated in Canada, with <b>92 per cent placed domestically</b>	Demand was primarily concentrated in Canada, with <b>86 per cent placed domestically</b> .
<b>Net Proceeds</b>	The net proceeds after issuance costs amounted to <b>\$397,824,000</b> .	The net proceeds after issuance costs amounted to <b>\$198,580,000</b> .
<b>Release</b>	From December 2018 to June 2019, <b>100% of the proceeds of this bond issuance have been released</b> from the restricted account, representing funds invested in eligible projects.	From October 2019 to May 31, 2021, <b>100% of the proceeds of this bond issuance have been released</b> from the restricted account, representing funds invested in eligible projects.

# Green Bond Investor Profiles



TransLink issued its third Green Bond (\$300 million) on December 5, 2022. Impacts from this issuance will be reported in our 2023 Green Bond Impact Report.



# Funding Allocation and Disbursement



Program	2018 GREEN BOND (100% DISBURSED) (\$000S)	2019 GREEN BOND (100% DISBURSED) (\$000S)	TOTAL GREEN BOND FUNDS DISPERSED (\$000S)
SkyTrain Station Upgrades	103,147	45,194	148,341
SkyTrain Operations and Maintenance Program	44,371	52,962	97,333
Refurbishment and Purchase of Vehicles	12,092	23,505	35,597
Rapid Transit Projects — SkyTrain Extensions	225,000	25,469	250,469
Battery-Electric Bus/Electric Trolley bus Program	8,200	7,717	15,917
Cycling and Pedestrian Infrastructure	1,656	29,566	31,222
Transit Centre Energy Upgrades	3,358	14,167	17,525
<b>Total</b>	<b>397,824</b>	<b>198,580</b>	<b>596,404</b>

# Impact Reporting



Investing in transit enables us to continue to reduce our impact on climate change and provide a public transportation system that is a solution to the climate emergency.

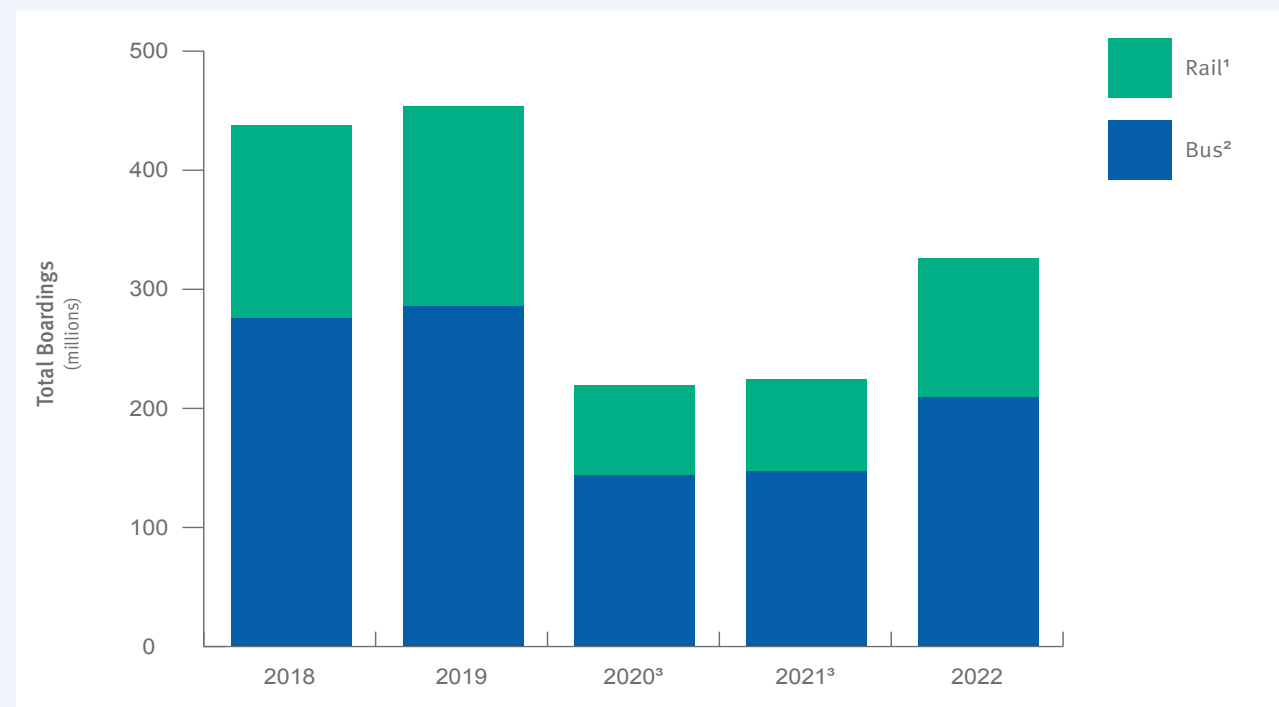
We are pleased to disclose key performance indicators at the organizational level since our first Green Bond issuance in 2018. We will be improving this over time to keep us accountable to our investors.

Taking transit is already one of the most powerful ways to cut greenhouse gas (GHG) emissions, and these projects support this, keeping TransLink on its path to a net-zero future.

Please see [TransLink's 2022 Accountability Report](#) for further information. Impact reporting for the programs and projects supported by Green Bonds are provided in the next section.

TransLink continues to lead its peers in post-COVID ridership growth. We had a 45% increase in ridership over 2021, with a peak of 380,000 people per day using our services.

## Ridership



<sup>1</sup> Includes SkyTrain, Canada Line and West Coast Express.

<sup>2</sup> Includes all bus and paratransit.

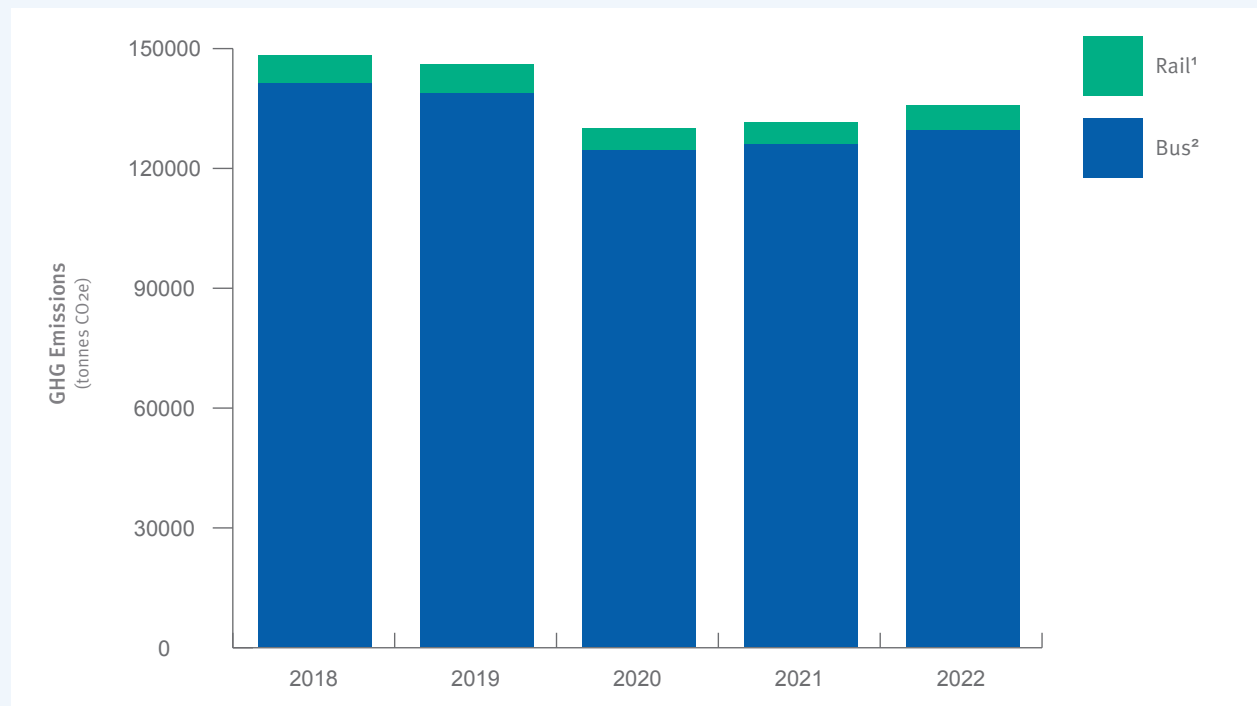
<sup>3</sup> Decreased ridership due to impacts of COVID-19 followed by strong recovery in 2022.

# Impact Reporting

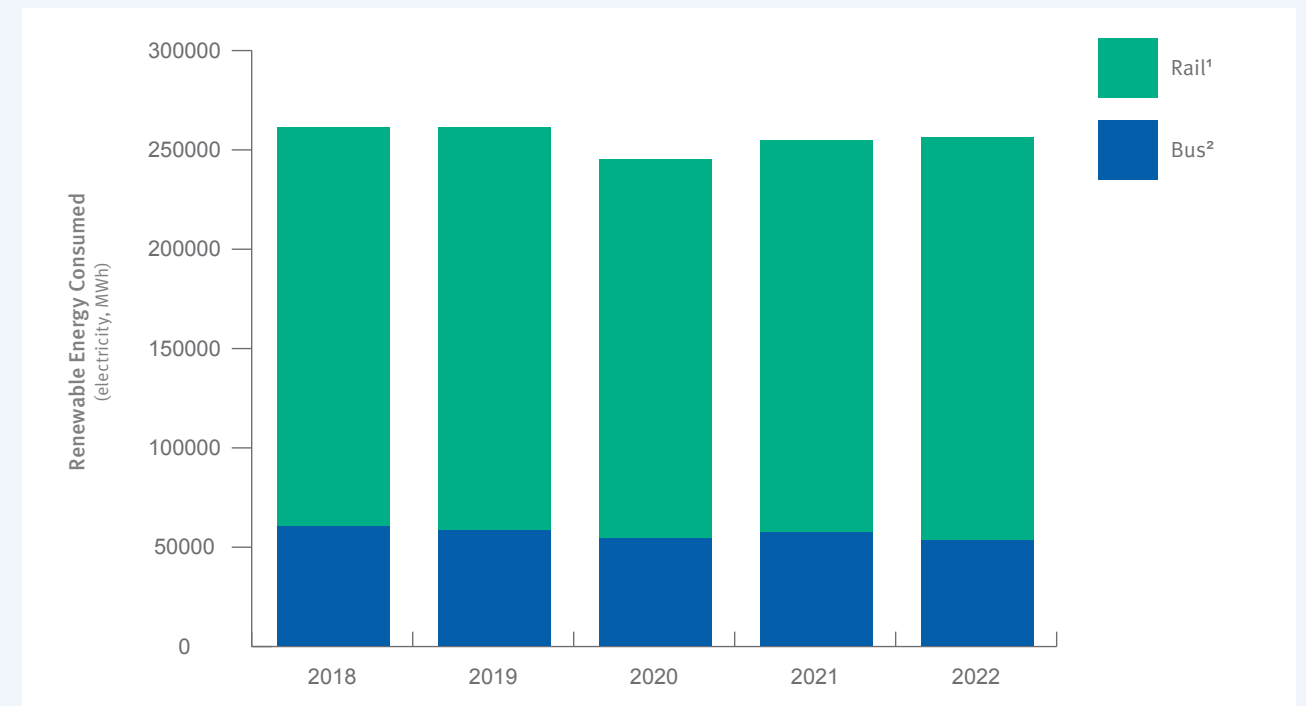


Shifting operations to respond to customer demand, and maintaining service levels throughout COVID-19, resulted in only modest increases in GHG emissions by three percent and less than one percent in renewable energy consumption between 2021 and 2022.

## GHG Emissions



## Renewable Energy Consumed



<sup>1</sup> Includes SkyTrain, Canada Line and West Coast Express fleet and stations.

<sup>2</sup> Includes all bus and paratransit fleet and facilities.

# Benefits Reporting



Program	Project Description	Benefits
<p>SkyTrain Station Upgrades</p>	<ul style="list-style-type: none"> <li>• Installation of 37 energy-efficient escalators</li> <li>• Signage and station fixture replacement</li> <li>• Capstan SkyTrain Station design</li> <li>• Commercial–Broadway SkyTrain Station upgrade (completed Feb 2019)</li> <li>• Surrey Central SkyTrain Station upgrade (completed Feb 2019)</li> <li>• Joyce–Collingwood SkyTrain Station (completed June 2019)</li> <li>• New Westminster SkyTrain Station (completed Nov 2016)</li> <li>• Metrotown SkyTrain Station (completed Mar 2018)</li> </ul>	<ul style="list-style-type: none"> <li>• Increase overall station accessibility and capacity, supporting growth in ridership and access to clean transportation</li> <li>• Support more frequent train service and longer trains</li> <li>• Reduce maintenance costs</li> <li>• Improve customer experience</li> <li>• Reduce energy consumption and associated GHG emissions</li> </ul>
<p>SkyTrain Operations and Maintenance Program</p>	<ul style="list-style-type: none"> <li>• Automatic train control system upgrades</li> <li>• Power system upgrades</li> <li>• Traction and propulsion power upgrades</li> <li>• Running rail and rail pad replacement</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure a reliable, clean transit network</li> <li>• Use of BC Hydro’s renewable electricity grid gives customers a near-zero emissions transportation option</li> <li>• Improve power redundancy</li> <li>• State of good repair through replacement of approximately 5,000 meters of running rail and 7,800 rail pads every year</li> </ul>

# Benefits Reporting



Program	Project Description	Benefits
<p>Rapid Transit Projects — SkyTrain Extensions</p>	<ul style="list-style-type: none"> <li>• Millennium Line (ML) Evergreen Extension added 11 km of guideway and six new stations (completed 2016)</li> <li>• Surrey Langley SkyTrain (SLS) will add 16 km of guideway (expected completion 2028)</li> </ul>	<ul style="list-style-type: none"> <li>• Annual ridership increased 50% from 2021<sup>4</sup></li> <li>• Stations support bus, cycling, and pedestrian travel modes</li> <li>• Zero operating emissions and reduced travel times in Burnaby, Port Moody, and Coquitlam</li> <li>• Supports healthy, transit-oriented communities, increased access to opportunities and housing, and continued economic development</li> <li>• Estimate of 62,000 daily boardings and 5,000 tonnes CO<sub>2</sub>e avoided annually by 2035 due to 10% mode shift equivalent to taking 1,100 cars off the road</li> <li>• Estimate of 71,200 daily ridership and 5,800 tonnes CO<sub>2</sub>e avoided annually by 2050 due to 10% mode shift equivalent to taking 1,250 cars off the road</li> <li>• Increases transit capacity by moving 6,800 passengers per hour per direction (10x the capacity of bus service today)</li> <li>• Zero operating emissions and reduced travel times for residents and businesses in Surrey and Langley</li> <li>• Supports healthy, transit-oriented communities, increased access to opportunities and housing, and continued economic development</li> </ul>

<sup>4</sup> Ridership levels are still recovering from COVID-19, and are expected to continue increasing in 2023. Future reports will include KPIs using a revised GHG and mode shift methodology.

# Benefits Reporting



Program	Project Description	Benefits
<p>Refurbishment and Purchase of Vehicles</p>	<ul style="list-style-type: none"> <li>• Refurbishment of 37 SkyTrain train cars</li> <li>• Procurement of 80 new SkyTrain train cars</li> </ul>	<ul style="list-style-type: none"> <li>• 10% increase capacity on Expo Line</li> <li>• 23% increase capacity on Millennium Line</li> <li>• 30% increase capacity on Canada Line</li> <li>• 8,200 additional spaces per peak hour in both directions on all three lines</li> <li>• Increase energy efficiency of the linear induction motor (LIM) propulsion system from the use of lightweight aluminum train car material and regenerative braking</li> <li>• 500 tonnes CO2e avoided annually through mode shift<sup>5</sup></li> <li>• Improve customer service through redesigned new train car layout and larger windows</li> </ul>

<sup>5</sup> Approximate - estimating 180,000 km per new rail car, 10 per cent mode shift factor and 10.3L/100 km fuel efficiency.

# Benefits Reporting



Program	Project Description	Other Benefits
<p>Battery Electric Buses (BEB) and Electric Trolley Buses</p>	<ul style="list-style-type: none"> <li>• Purchase and test operation of four BEBs along Route 100 and on-route chargers as part of participation in Canadian Urban Transit Research &amp; Innovation Consortium’s (CUTRIC) Pan-Canadian Battery Electric Bus Demonstration and Integration Trial between March 2020 and August 2022 (completed)</li> </ul>	<ul style="list-style-type: none"> <li>• 629 tonnes of CO2e reduced as compared to diesel and 172,164 litres of diesel saved (over test period)<sup>6</sup></li> <li>• 373,789 km travelled and 459,250 kWh electricity consumed over the test period</li> <li>• Zero operating emissions and reduced noise pollution</li> <li>• Zero critical air contaminant emissions (i.e., particulate matter, nitrogen oxides, non-methane hydrocarbons)</li> </ul>
<p>Electric Trolley Buses</p>	<ul style="list-style-type: none"> <li>• Trolley equipment upgrades and replacement, overhead pole installation, power rectifier upgrades, roof replacements, wire replacement and fleet maintenance</li> </ul>	<ul style="list-style-type: none"> <li>• 10.2 million km travelled, 28,094 MWh electricity consumed, and 36.4 million boardings</li> <li>• Zero operating emissions and reduced noise pollution</li> <li>• Zero critical air contaminant emissions (i.e., particulate matter, nitrogen oxides, non-methane hydrocarbons)</li> <li>• Improves energy efficiency</li> <li>• Maintains system in a state of good repair</li> </ul>

<sup>6</sup> Total tonnes of CO2e and litres of diesel fuel saved during test were less than estimates disclosed in past Green Bond Impact Reports. This was primarily due to reliable interoperability of the chargers, and scheduling of the BEBs to the test route.

# Benefits Reporting



Program	Project Description	Other Benefits
<p>Transit Centre Upgrades</p>	<ul style="list-style-type: none"> <li>• PowerSmart LED lighting upgrades at Richmond, Vancouver, Surrey, Port Coquitlam and West Vancouver Transit Centres</li> <li>• Door replacements at Surrey and Port Coquitlam Transit Centres</li> <li>• Building envelope rehabilitation and construction at SeaBus terminals</li> </ul>	<ul style="list-style-type: none"> <li>• For electricity and GHG savings see TransLink’s past <a href="#">Green Bond Impact Reports</a></li> <li>• Improves employee work environment</li> </ul>
<p>Cycling and Pedestrian Infrastructure</p>	<ul style="list-style-type: none"> <li>• Maintenance of cycling infrastructure on the 26 km long BC Parkway</li> <li>• Preliminary design for upgrades to ten intersections of the BC Parkway with roadways</li> <li>• Creation of six new Bike Parkades/Stations at SkyTrain Stations to increase capacity to 300 bike stations</li> <li>• Installation of electrical infrastructure to support e-bikes</li> <li>• Installation of “smart” self-serve bike lockers (71 in 2021, 17 in 2022)</li> <li>• Design work for bike counters</li> </ul>	<ul style="list-style-type: none"> <li>• Supports active transportation in and between the communities of Surrey, New Westminister, South Burnaby, and Vancouver</li> <li>• Reduces GHG and criteria air contaminant emissions by customers using walking or cycling instead of cars</li> </ul>



# Outlook

We have big plans for 2023 and beyond. A range of priority capital projects will help us achieve our sustainability and climate goals, including:

- Continued land acquisition, design and construction of new SkyTrain Operations and Maintenance centres
- Continued energy efficiency and PowerSmart projects throughout our facilities
- Continued refurbishment and replacement of SkyTrain cars to improve quality of service and comfort
- Continued SkyTrain Station upgrades to improve service, energy efficiency and reduce greenhouse gases
- Continued SkyTrain O&M Program to improve service, energy efficiency and reduce greenhouse gases

In addition to these capital projects, our sustainability and climate priorities for 2023 and beyond include:

- Development of Zero Emission Fleet Transition Plan (ZEFTP), which will supersede the Low Carbon Fleet Strategy
- Implement our [Climate Action Plan](#)
- Review and update of our Sustainability Policy
- Work with suppliers to expand the supply and use of renewable fuels
- Implement our Sustainable Procurement Strategy
- Work with industry and government to build regional capacity for zero emission and low carbon technologies
- Identify key elements of a future energy and emissions management framework to improve transparency, accountability, and reporting

We value strong and productive relationships with our investors.

Questions? Feedback? Suggestions?

## Please Contact Us:

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