

# Canada



Canada has kept transport emissions at relatively constant levels since 2010, despite strong increases in freight activity. The country has one of the world's highest car ownership rates, with nearly all passenger trips completed using private vehicles (passenger cars and light trucks).

The country envisions an end to the sale of diesel and gasoline vehicles by 2040. Several national and subnational strategies support this vision (for example, charging infrastructure along highways). Urban transport improvements are underway, but progress needs to accelerate to support transport decarbonisation.

Income group: High-income

Human Development Index: 0.93

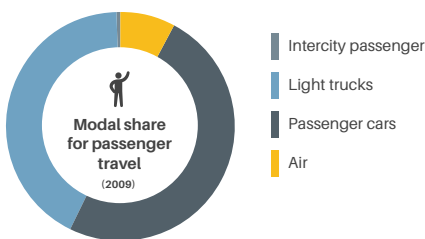
	Population size (2020)	Urban population share (2020)	GDP per capita (2019)
<b>Total</b>	37.7 million	81.3%	51 834.5
<b>Growth</b> (2010 to 2020)	10.5%	10.9%	20.2%

## Mobility Demand Trends

### Passenger travel activity

538 800

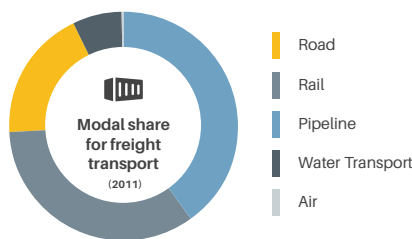
million passenger-km in 2009  
+6.5% (2000 to 2009)



### Freight transport activity

727 900

million ton-km in 2011  
+19% (2000 to 2011)



### Fuel consumption (2018)

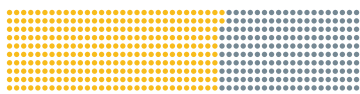
68 194

thousand tonnes of oil equivalent  
+12% (2010 to 2018)

Average light duty fuel economy consumption (2017)  
8.9 Lge/100 km (WLTP)



**Car ownership growth (2005 to 2015)**  
645.7 vehicles per 1,000 people



+3.9%

### Vehicle sales (2019)

**Passenger** (Growth 2010 to 2019)  
496 603 **-14%**  
**Commercial**  
1 479 252 **5.1%**

**Diesel**  
US cents per litre (2018)

100

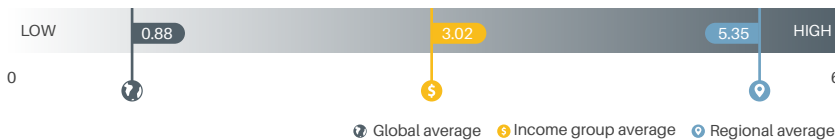
**Super gasoline**  
US cents per litre (2018)

100

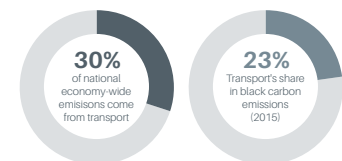
## Transport Emission Trends

**Transport CO<sub>2</sub> emissions (2019)**  
173.8 million tonnes

**Per capita transport CO<sub>2</sub> emissions (2019)**  
4.7 tonnes

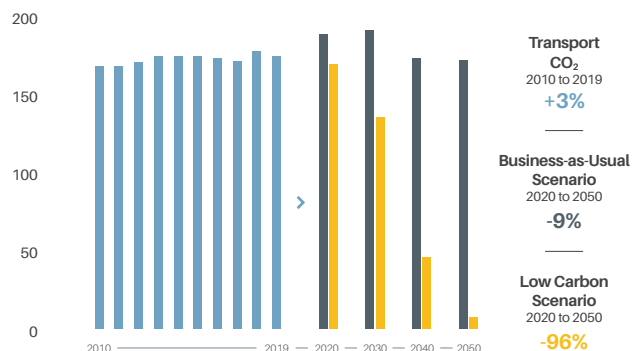


### Second-largest CO<sub>2</sub> producing sector in the country



## Low Carbon Transport Pathways

Transport strategy identifies climate change	✓
Long-term strategy submitted to UNFCCC	✓
NDC submitted	1st NDC
NDC highlights transport for GHG mitigation	✓
Transport mitigation targets in NDC	✗
Other non-emission related transport targets in NDC	Not available
Voluntary National Review highlights transport	✓
2018 VNR with transport linkages to SDG 7 and SDG 8	



### Transport measures in NDC

<b>Mitigation</b>	• Vehicle efficiency standards	<b>Adaptation</b>	• Not available
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Sustainable Mobility Planning & Transport Demand Management	
National Urban Mobility Framework (2020)	Not available
Sustainable Urban Mobility Plans (2020)	Not available
Low Emission Zones (2020)	Not available

Walking and Cycling	
National walking and cycling strategies (2020)	Walking and cycling combined in Guidance Document for Active Mobility
<b>Targets</b>	<ul style="list-style-type: none"> <li>Support local projects (since 2015 CAD 130 million in 126 projects).</li> </ul>
Cycling infrastructure in capital (2020)	236 km of bikelanes

Urban Passenger and Freight Transport	
Bus rapid transit (2020)	246 km in 7 cities
Urban rail (LRT, metro, tram) (2020)	304 km in 6 cities
Bus rapid transit daily passenger volume (2020)	503407
Rapid Transit to Resident Ratio (2019)	20.2

Passenger and Freight Railways	
Rail network (2018)	47 687 km
High-speed rail (2018)	Not available
High-speed rail travel activity (2018)	Not available
National plans for passenger and freight rail expansion	✓
Rail travel activity (2018)	1 598 million passenger-km
Rail freight activity (2019)	433 139 million ton-km

Shared Mobility Services	
Bike-sharing systems (2020)	23 systems
Electric scooter services (2020)	2 operators in 5 cities
Carsharing services (2021)	67 services
National legal frameworks for shared mobility (2020)	Only on subnational level
Autonomous vehicles in operation or in preparation (2020)	9
Autonomous vehicles strategies (2020)	✓

Fuel Economy	
Emission standards for LDVs (2018)	Euro 6
CO <sub>2</sub> emissions performance for LDVs (2017)	206 gCO <sub>2</sub> /km
Emission standards for HDVs (2018)	Euro VI
Targeted CO <sub>2</sub> emissions performance	99 gCO <sub>2</sub> /km by 2025

Electric Mobility	
Electric vehicles (2019)	141 100
Market share of electric vehicles (2019)	3%
No. of cities with electric buses (2019)	9
ICE phase-out targets	2040

Renewable Energy	
Biofuel blend mandate (2019)	2% Biodiesel, 5% Ethanol
Renewable energy (biofuels and electricity) share in transport (2018)	4.2%
Targeted % of renewable energy	Not available

Aviation	
Air passengers carried (2019)	93.4 million people
Air freight activity (2019)	2 395.1 million ton-km
Carbon-accredited airports (2020)	17 airports
<i>of which carbon neutral</i>	✗

Shipping	
Liner shipping connectivity index (2019)	42.8
Container port traffic (2019)	7 004 090 TEU

COVID-19	
Traditional transport infrastructure investment	USD 1.76 billion
Clean transport infrastructure investment	USD 0.07 billion

<b>Examples</b>	<ul style="list-style-type: none"> <li>Public transport support</li> </ul>
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This fact sheet is part of the SLOCAT Transport and Climate Change Global Status Report - 2nd edition.

The information shown is based on desk research. Data has been collected to the best knowledge and availability. However, it might not be complete or reflect the most recent status. 'Not available' is indicated, when no information has been retrieved. The content does not represent the opinion of the SLOCAT Partnership. Find data sources and indicator glossary here.

#### List of acronyms

GDP	Gross-domestic product
HDV	Heavy-duty vehicle
ICE	Internal combustion engine
LDV	Light-duty vehicle
LRT	Light-rail transit
NDC	Nationally determined contribution
TEU	Twenty-foot Equivalent Unit
UNFCCC	United Nations Framework Convention on Climate Change
VNR	Voluntary national review of the Sustainable Development Goals
WLTP	Worldwide harmonised light vehicles test procedure