The transportation sector accounts for approximately 25% of Canada’s emissions, mostly from passenger vehicles and freight trucks.
Canada’s Commitments

- Canada has made international commitments aimed at reducing emissions from on-road transportation:
  - Climate & Clean Air Coalition Global Green Freight Action Plan
  - G20 2014 Energy Efficiency Action Plan
  - Commission for Environmental Cooperation
  - Clean Energy Ministerial Electric Vehicles Initiative
  - North American Leaders' Summit

- Domestic actions are outlined in the Pan-Canadian Framework on Clean Growth and Climate Change and the Canadian Energy Strategy.
Pan-Canadian Framework on Clean Growth and Climate Change

The Framework is the Government of Canada’s plan – developed with the provinces and territories and in consultation with Indigenous peoples – to meet Canada's emissions reduction target and grow the economy.

The Framework includes a transportation strategy organized in 4 themes:

1. Setting and updating vehicle emissions standards and improving the efficiency of vehicles and transportation systems
2. Expanding the number of zero-emission vehicles on Canadian roads
3. Supporting the shift from higher to lower-emitting types of transportation, including through investing in infrastructure
4. Using cleaner fuels through the development of a clean fuel standard
Federal Jurisdiction for Greening Freight

Transport Canada
  • Safety
  • Technology and Innovation

Environment & Climate Change Canada
  • Regulations and Standards
    • Reporting

National Research Council Testing
  • Aerodynamic Testing Facility
  • Technology Development and Demonstration
  • Product Innovation and Manufacturing
Natural Resources Canada

- Natural Resources Canada (NRCan) is a department within the Federal Government mandated to promote the sustainable development and responsible use of Canada's mineral, energy, and forestry resources

- NRCan helps Canadians improve efficiency and promotes lower carbon technologies in the transportation sector. It supports government and industry activities across the innovation spectrum:
Transportation and Alternative Fuels

**Key Activities:**

- Encouraging consumer behavioral change through **social innovation** (purchasing decisions and driving behaviors)
- Enhancing **green freight** programming (SmartWay, Driver Training, Green Freight Assessment Program, HDV Pathways Report)
- Deploying **EV and Alternative Fuel Infrastructure** on key infrastructure corridors and mapping tools
- **Greening Government Fleet Operations** (logging, right sizing, alternative fuels/technology choices, driver training)
- Supporting key policy development **National Zero-Emission Vehicles Strategy** and development of the new **Clean Fuel Standard**
Low Carbon Pathways for On-Road Freight

- **Gather latest research** on energy efficiency measures and GHG reductions for on-road freight
- **Engage stakeholders** in discussion and collaboration on solutions for moving goods more sustainably
- **Build a business case** for further investment and innovation in the sector
- **Inform policy** on proposed actions to accelerate transition to lower carbon transportation
- **Disseminate proposed actions and best practices** on energy efficiency measures for road freight to key stakeholders here
SmartWay Canada

- There are 430 Canadian partners accounting for over 44,000 trucks are registered in SmartWay Canada.
- This represents about 28% of Canada’s for-hire on-road freight movement.
- In 2017/18 Canadian SmartWay Truck carriers saved:
  - 160 million litres of fuel
  - 4,000 litres per class 8 truck
  - $4,400 in fuel saved per class 8 truck
Canadian partners who implemented lower carbon transportation options in 2017
Moving forward – SmartWay Canada

- Establishing partnerships with Provincial Governments and Associations to further the reach of SmartWay and increase number of partners

- Modernization of Tools:
  - Launching the Small Carrier App, a simplified version of the truck tool to ease entry for small/medium enterprises
  - Researching the next generation of data collection and how it can be used to help partners
SmartDriver for Highway Trucking

- For 20 years NRCan has been educating fleets on the benefits of energy-efficient commercial equipment purchases, alternative fuel choices and business best practices.

- The free driver training program, helps truckers and trucking companies reduce fuel use, cut costs, increase profits and improve competitiveness.

- Fuel-efficient driving techniques reduce fuel consumption and help Canada meet its climate change goals.
Green Freight Assessment Program

- Launched Spring 2018
- Provides up to $10,000 for Canadian fleets to
  - Take a deep dive into the of their fleet and operations
  - Make informed decisions to reduce fuel costs and greenhouse gas emissions
- The assessment will determine the company’s performance baseline and build scenarios to test strategies to identify solutions to improve efficiency of their fleet and operations
Pilot Implementation Program

- Provide funding for companies to test solutions identified during their green freight assessment
- Real-world demonstration will provide accurate data for on-road applicability of equipment and technologies
- Resulting case studies will report on findings
Supply Chain Modernization

- Launching Spring 2019
- Provides up to $100,000 to support opportunities for research and modernizing green freight
- New and innovative projects to help streamline the supply chain
International Efforts

- Energy conscious governments and associations are driving the need for additional global green freight programs
- SmartWay expansion
- The master curriculum developed by NRCan provides a harmonized curriculum for a variety of delivery models
- NRCan works with international governments to adapt the curriculum to suit the needs of their industry