

**UNCTAD Multiyear Expert Meeting on Transport,  
Trade Logistics and Trade Facilitation**

21-23 November 2018, Geneva

**“Sustainable freight transport in support  
of the 2030 Agenda for Sustainable  
Development”**

**Natural Resources Canada:  
Enabling sustainable freight transportation**

by

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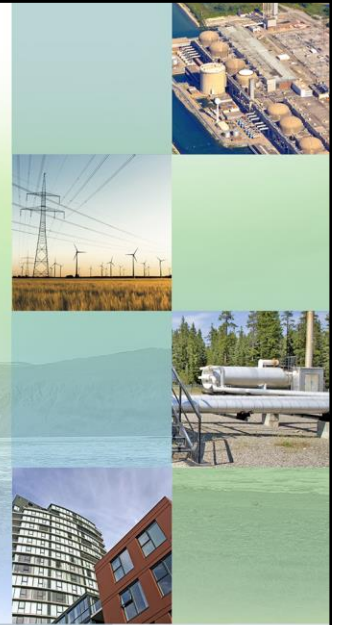


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# Natural Resources Canada: Enabling sustainable freight transportation

Multiyear Expert Meeting on Transport,  
Trade Logistics and Trade Facilitation  
November 22, 2018



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2

## Outline

Transportation in Canada

Pan-Canadian Framework on Clean Growth and Climate Change

Natural Resources Canada

Greening On-Road Freight

Moving Forward

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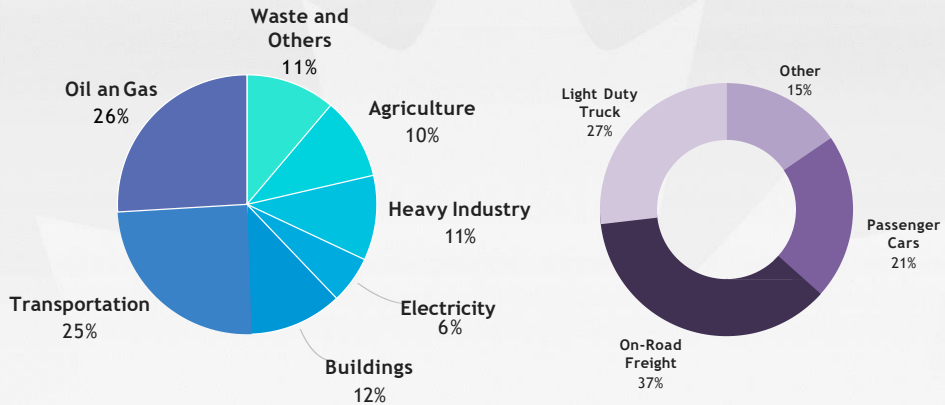
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# Transportation in Canada

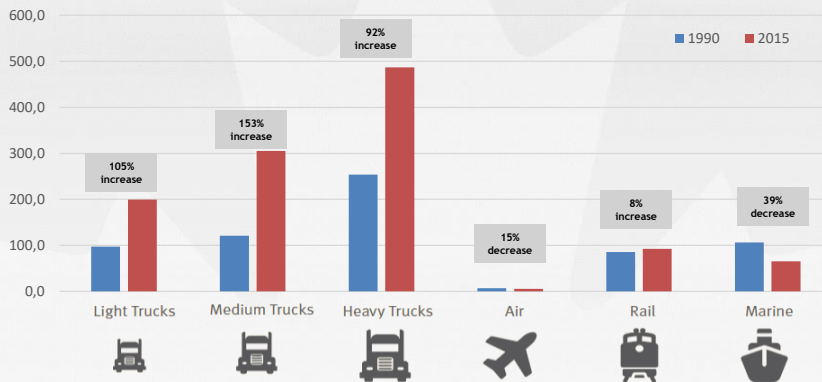
The transportation sector accounts for approximately 25% of Canada's emissions, mostly from passenger vehicles and freight trucks



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# On-Road Transportation in Canada

Freight transportation energy use by mode - 1990 and 2015



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## Transportation in Canada



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- Canada has made **international efforts** to reduce 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**.



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## 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 four 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**

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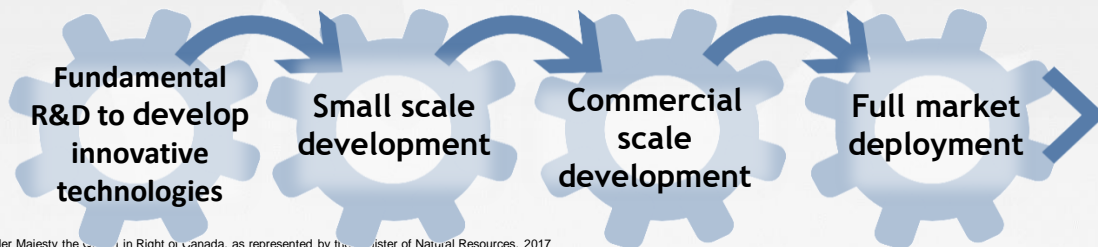


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## Natural Resources Canada

- 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 works to improve efficiency and promote lower carbon technologies in the transportation sector. It delivers policy development and programs in collaboration with private sector across the innovation spectrum:



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## Transportation and Alternative Fuels

**Mandate:** Increase awareness, availability, and use of lower carbon transportation options through policy and program-related activities

**Key Activities:**

- Encouraging **consumer behavioural change** through **social innovation** (purchasing decisions and driving behaviours)
- 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**
- **Fostering greater international leadership**

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# Growing Need for Freight Data

## LACK OF CARRIER/FLEET LEVEL ENERGY USE DATA AND INFORMATION

- Freight shippers are under more pressure to report on their carbon emissions
- More companies are implementing sustainability measures
- Growing consumer awareness results in a need for greener freight movement
- Data collection is a crucial element where companies can strategically invest



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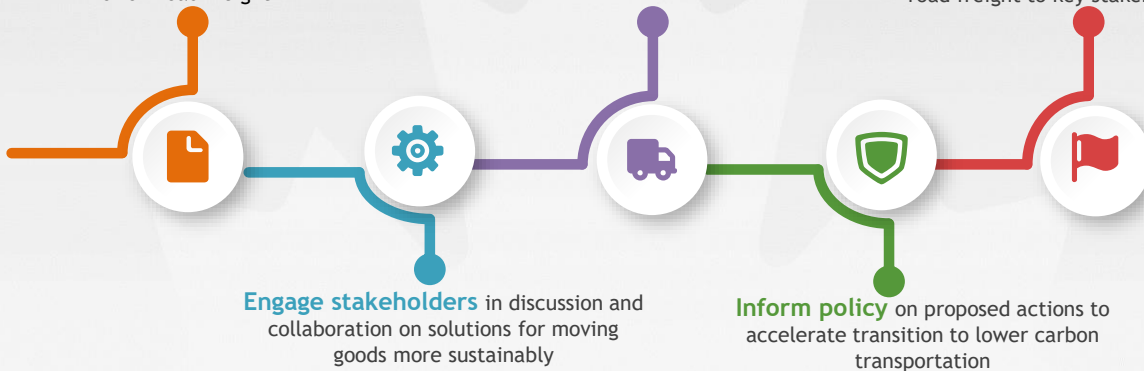
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# Low Carbon Pathway for On-Road Freight

**Gather latest research**  
on energy efficiency  
measures and GHG reductions  
for on-road freight

**Build a business case**  
for further investment and  
innovation in the sector

**Disseminate proposed actions  
and best practices**  
on energy efficiency measures for  
road freight to key stakeholders



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## NRCan's Green Freight Programming



Educate

SmartDriver for Highway Trucking



Benchmark

SmartWay Canada



Analyze

Green Freight Assessment Program

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## SmartDriver

- 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

Training combined with advanced equipment can improve efficiency up to 35%

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# TRAINING SUITES

## SMARTDRIVER

Driver training for industries, municipalities, school buses, delivery companies, transit and forestry



### FUEL MANAGEMENT 101

Training for fleet managers who want to investigate fuel and emission reductions

### PRO-TRUCKER

Driver training developed with and administered by provincial trucking associations and training schools

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# International Collaboration on Eco-Driving

The success of our domestic green freight actions, along with increased global concern over air quality and climate change, has resulted in requests from several international governments seeking to collaborate on the development of green freight programming, including fuel efficient driver training master curriculum, tailored to the specific needs of their individual freight sectors

## Brazil

Initial training held in October 2017. Driver training curriculum has now been fully adapted for Brazil with a goal of training 50,000 drivers

## Argentina

Ongoing collaboration with Argentina to share our green freight expertise to customize our fuel efficient driver training program and share best practices

## Jamaica

In partnership with the United Nations worked with the All Island Trucking Association to adapt the driver training curriculum for use in Jamaica (Oct 2018)

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## SmartWay Canada

Launched in Canada in 2012, the SmartWay Transport Partnership is a collaboration of private and public stakeholders designed to advance sustainability in the freight transportation sector

SmartWay helps carriers and shippers benchmark their operations, track fuel consumption and improve their overall performance

SmartWay's goal is to help Partners:

- Save money
- Lower fuel use
- Reduce emissions



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## SmartWay Canada

**441** SmartWay Canada Partners

**45,000** Trucks Registered

**170 Million** Litres of fuel saved in 17/18

**4,000** Litres per class 8 truck

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## SmartWay - A North American Partnership

Given the integrated nature of the North American economy, NRCan worked with the U.S. EPA and the Government of Mexico to expand the SmartWay Program into Mexico.

The first step is a one year pilot project in 2018 with lessons learned used to assess a wider roll-out of the program across Mexico, and globally.



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## Green Freight Assessment Program

- The Green Freight Assessment Program helps Canadian companies undergo a thorough review of their operations to identify opportunities for improvement
- These assessments will look at the fleet portrait as a whole to identify behavioural and operational opportunities that may be available to optimize business operations
- The resulting recommendations will help business owners and operators make informed decisions to ultimately reduce operating costs and increase profits while having a positive impact on the environment



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**Thank you!**

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