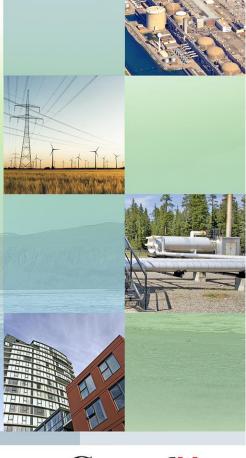


## TRANSPORTATION & ALTERNATIVE FUELS

Aaron Hoskin
Low Emission Transportation Workshop
Clean Air Partnership
November 21, 2018





## **Outline**

Natural Resources Canada

Transportation and Alternative Fuels

Infrastructure

**Greening Government Fleets** 

International





# Transportation and Alternative Fuels

<u>Mandate:</u> 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
  © Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2017





## EV and Alternative Fuel Infrastructure

#### \$182.5M over 6 years, to support 3 areas:

- Deployment of EV and Alternative Fuel Infrastructure (\$96.4M):
  - Coast to coast network of EV fast chargers
  - natural gas stations along key freight corridors
  - and hydrogen fuelling stations in key urban centres
- Demonstration of Next Generation EV charger (\$46.1M)
  - support the demonstration of next-generation electric vehicle charging infrastructure
- Enabling Codes and Standards (\$10M)
  - Low carbon vehicles, infrastructure.





# NRCan's Green Freight Programming



SmartDriver for Highway Trucking



SmartWay Canada



Green Freight Assessment Program





# **Greening Government Strategy (Dec. 2017)**

Reduce GHG emissions from ALL Government operations by 80% by 2050 Mobility and Fleets Target

- Starting FY 2019 to 2020, 75% of new light-duty administrative fleet vehicle purchases will be zero-emission vehicles (ZEVs) or hybrid, with the objective that the administrative fleet comprises at least 80% ZEVs by 2030.
- Starting FY 2018 to 2019, all new executive vehicle purchases will be ZEVs or hybrids.
- Fleet management will be optimized by applying telematics.
- Alternative energy options and their use in fleets related to national safety and security will be examined.

This is no small task... 43,082 (LD 30,581 - HD 12,501) road vehicles in the Fleet, located across the entire country.





# **Greening Government Fleets**



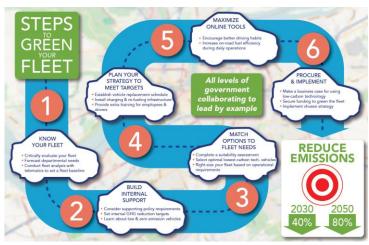
- Real time data collection for distance traveled & fuel consumed via telematics
- Data driven suitability reports to identifying lowest emitting technology available to meet operational needs
- Providing analysis to inform fleet right-sizing decisions
- Recommendations for optimal infrastructure type (e.g. charger, hydrogen station)
  and location
- Accurate data for reporting purposes (e.g. vehicle use data for GHG inventory)
- Support for the development of employee charging directive and modernized procurement policy
- Assistance for the procurement of non-traditional green vehicles (e.g. EVs, hydrogen fuel cell, natural gas)
- Online Eco-Driving training
- Individualized suitability assessments for executive vehicles





### **Best Practices Guide**







#### **GREENING GOVERNMENT FLEETS**

Developed in partnership with Provinces and Territories Assisting Municipal Governments as

https://www.nrcan.gc.ca/energy/transportation/alternative-fuels/resources/21314

#### LIGHTS ON THE PATH

A Compendium of Best and Promising Practices for Reducing GHGs and Building Resilience in Government Operations.

## International Perspective





Canada co-chairs the Electric Vehicle Initiative (EVI), under the Clean Energy Ministerial.

- Government Fleet Declaration (Nov. 2016): 8 countries Canada, China, France, Japan, Norway, Sweden, the United Kingdom and the United States of America -pledged to increase the share of electric vehicles in their government fleets
- Canada has made strongest commitments thus far, through the Greening Government Strategy
- Canada shared "Best Practice Guide to Green Government Fleets" with EVI members.
- Chile and New Zealand leveraging Canadian expertise to develop strategies based on ours but tailored to the specific needs of their jurisdiction





# International Perspective





#### Electric Vehicle Initiative - Global Pilot Cities Program

- Launched at CEM 9, in May 2018
- Goal of bringing 100 EV friendly Cities together to share knowledge, experience and best practices on facilitating greater electrification in municipalities
- 8 Canadian cities (Surrey and Richmond BC, Calgary AB, Winnipeg MB, York ON, Montreal QC, Halifax NS and Stratford PEI) formalized participation.
- Establishing domestic "community of practice" to support this international work

## **THANK YOU!**

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