



CleanBC Heavy-duty Vehicle Efficiency Program

Two Part Program

Part I - Heavy-duty Vehicle Efficiency Course

- Show how industry can improve fuel efficiency by:
 - Implementing a company fuel management program
 - Changing driver behavior
 - Effective recruitment and retention
 - Adopting energy-efficient technology

Part II - Heavy-duty Vehicle Efficiency Incentive Program

- Support industry in adopting eligible energy-efficient technology
- Must complete Part I to participate in Part II

Why?

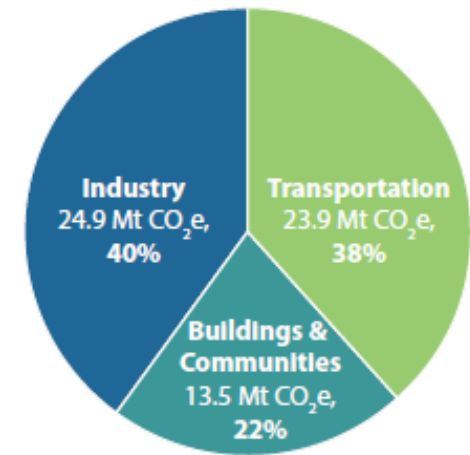
Heavy-duty Vehicles account for:

- ~31% of BC's transportation emissions

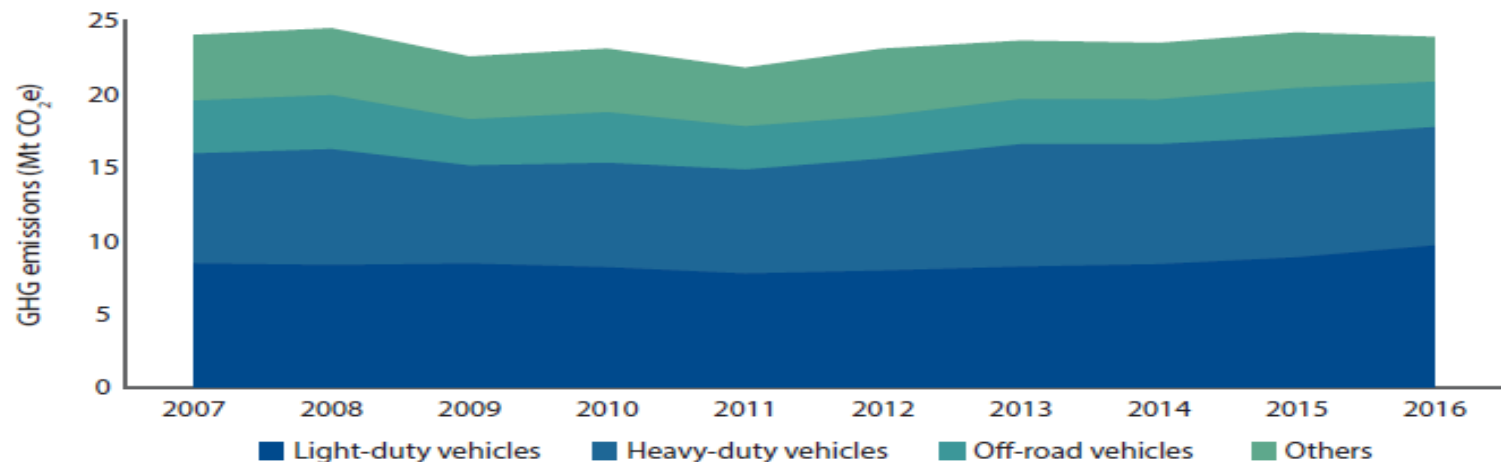
or

- 14% of BC's total emissions

B.C.'s Gross GHG Emissions by Sector in 2016



B.C. Transportation Emissions (2007-2016)



Climate Change & Legislation

- BC's *Climate Change Accountability Act* has legislated emissions targets to reduce GHG emissions by
 - 40% below 2007 emission levels by 2030
 - 60% below 2007 emissions by 2040; and
 - 80% below 2007 emissions by 2050.

Incentives

Eligible companies can apply for funding up to a max of:

- \$10,000 per vehicle
- \$100,000 total per company

First offering February 2020

To be eligible apply:

- Must pass this course – quiz at the end
- Must be a heavy-duty vehicle transportation company with
 - at least 1 heavy-duty vehicle (>11,794 kg) operating in BC
 - a terminal located in BC and conduct business in BC
 - a “satisfactory” NSC rating
- Must purchase and install the equipment in BC
- New vehicles/devices only

Administered by BCTA

Incentives – Eligible Equipment

Wide-based tires
~3.2% fuel savings

- 445 – 30% of the cost of the device and its installation, up to a cap of \$300 per tire
- 455 – 50% of the cost of the device and its installation, up to a cap of \$600 per tire

Incentives – Eligible Equipment

Aerodynamic devices

~3% fuel savings

- Side Skirts – 30% Rebate 30-50% of the cost of the device and installation, up to a cap of \$2,000 per device
- Boat Tails – 30% of the cost of the device and its installation, up to a cap of \$2,000 per device
- Full Fairings Wheel to Wheel – 50% of the cost of the device and its installation, up to a cap of \$2,000
- Plastic Flow Below Aero Kit – 50% of the cost of the device and its installation, up to a cap of \$1,000

Incentives – Eligible Equipment

| Engine/Fuel Modifications | Funding Eligibility | Approximate Fuel Savings (not linearly additive) |
|---|---|---|
| Automatic Transmission | Up to 50% of the cost of the device and its installation, up to a cap of \$1,000 per device | 4.5 % |
| Predictive Cruise Control | Up to 50% of the cost of the device and its installation, up to a cap of \$1,000 per device | 2.8 % |
| Engine Idle Shut Down Timer or Automatic Start/Stop Systems | Up to 50% of the cost of the device and its installation, up to a cap of \$1,250 per device | Potential to reduce idle time by up to 60-70% |
| Driver Performance Assistance | Up to 50% of the cost of the device and its installation, up to a cap of \$1,000 per device | Up to 15 % |
| Hydrogen Fuel Enhancement System | Up to 50% of the cost of the device and its installation, up to a cap of \$4,000 per device | 10 to 25 % |