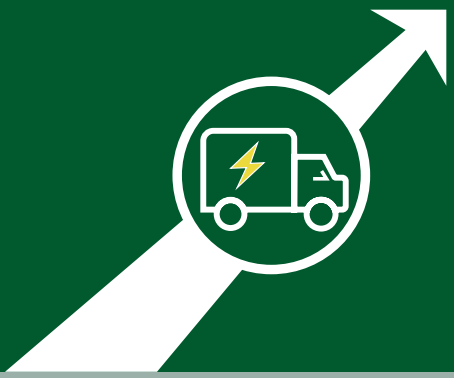
Community Energy Association

Fleet Forward Resource Guide

Tools, learning, connections and funding sources to help transition your fleet vehicles to zero-emissions.



Medium- and heavy-duty fleet vehicles

Medium- and heavy-duty vehicles include larger trucks and delivery vans—class 4 up to class 8—as well as speciality-use vehicles like school buses, garbage trucks, fire engines, ice resurfacers, and tractors.

Zero-emission vehicles

Zero-emission vehicles include electric vehicles and hydrogen fuel cell vehicles. These use electric motors instead of internal combustion engines and do not produce tailpipe emissions (or have the potential not to, in the case of plug-in hybrid electric vehicles).

Community Energy Association is a nonprofit organization enabling local governments and Indigenous communities take bold action on energy and climate—including taking part in the global transition to zero-emission vehicles.

We have over a decade's experience planning EV charging deployments at regional scales in BC, Alberta and Ontario; providing local governments with resources and policy to support EV readiness; and delivering analysis and plans for municipal fleet transitions.

Fleet Forward events are providing an unbiased forum for discussion, connection and learning about medium- and heavy-duty zero-emission vehicles.

Fleet Forward resources are highlighting industry and government leaders who are testing and deploying ZEV solutions for fleets in a range of contexts, from urban and rural, rec centre to warehouse.

TOOLS Manage your fleet's transition

Canoe Procurement

A Canadian not-for-profit organization giving the public sector access to preferential pricing on products and services.

Cleantech Forward Podcast

This podcast brings you in-depth discussions with the leaders, innovators, and experts shaping Canada's clean technology landscape.

Clean Energy Canada - EV Fleets Pro

A list of every available EV in Canada to assist adoption and decision making.

Geotab

Provides fleet and asset management tools.

Edmonton Global - Total Cost of Ownership

Compare the total cost of ownership of heavy-duty trucks across five different vehicle technologies using recommended values or custom inputs.

Moving to Electric

Pembina Institute guide to electric trucks and vans.

PlugIn BC - Fleet Analysis Procurement Tool

Equips users with decision-relevant information on the financial viability and environmental impact of zero-emission vehicle fleet procurement.

Take Charge!

A calculator for finding the best MHD ZEV for a given fleet.

Compiled and published by the
Community Energy Association
With funding and support from:

Canada cleanBC GO ELECTRIC BC Hydro Power smart

LEARNING RESOURCES Get a deeper understanding of ZEV fleets

BC Trucking Association

Access training courses, workshops and seminars to keep your business informed on relevant regulations.

Buyers for Climate Action (BCA) MHD ZEV Catalogue

First-hand accounts and lessons learned from BCA's early adopters, and an up-to-date listing of MHD ZEVs available on the Canadian market.

Canadian Association of Fire Chiefs MHD ZEV Assessment of Information and Training

Overview of research and resources that inform emergency response to electric vehicle or lithium-ion fires, with a focus on MHD ZEVs.

Dunsky - MHD ZEV Adoption Costs and Bottlenecks

Gain a better understanding of the real costs and bottlenecks to MHD ZEV infrastructure deployment.

EcoCanada Zero Emission Vehicle Awareness Initiative

Insight into current and future advancements in MHD ZEV technologies, including charging infrastructure and lithium ion batteries.

Electric Mobility Canada Electrifying Progress Report

Quantifies the impact of the electrification transition on Canada's economy, including key economic outcomes, jobs, and gross domestic product (GDP).

FP Innovations - Monitoring and testing of heavy duty battery electric trucks

12-month study from operating five battery electric trucks over 200,000 km in the Montreal region. Analyses performance, reliability, cost, driver experience, safety, and shares operational best practices.

MCCAC Municipal Climate Action Landscape

Helps Alberta municipalities locate relevant climate change mitigation and adaptation resources.

McMaster University - Knowledge Hub

Interactive website will inform and de-risk the adoption of MHD ZEVs in Canada by providing informative, evidence-based, educational tools, thorough technology assessment models, and best practices.

McMaster University - E-Transit Orchestrator

This free online tool enables public transit agencies to simulate, test, and optimize electric bus fleet operations based on their specific requirements.

Pembina Institute - BC's MHD ZEV Consultation Paper

The report outlines the key design features of proposed MHD ZEV legislation, with emphasis on ZEV sales and fleet purchase requirements.

Pembina Institute - Electrifying Fleet Trucks

Study of EV trucks in Hamilton, ON to understand driving patterns, trip duration, and dwell time and assess the region's readiness for MHD ZEV transition.

Pembina Institute - Helping Fleets Charge: Barriers and solutions to charging electric medium- and heavy-duty vehicles in Ontario

Identifies barriers preventing widespread MHD ZEV adoption in Ontario, and recommends solutions.

Province of BC - 2024 ZEV Annual Report

Compares progress on ZEV adoption in BC against provincial climate action targets.

Natural Resources Canada - Zero-emission vehicle technician training opportunities

Listing for aspiring or current automotive technicians to learn how to service, repair, and maintain ZEVs.

OEMs (vehicles and services) Supply options and partners

BlueForce Energy

Manufactures EV conversion kits for vehicles from light to heavy duty.

Canoe Procurement

A Canadian not-for-profit organization giving the public sector access to preferential pricing on products and services.

Edison Motors

Manufactures electric-diesel hybrid trucks and EV conversion kits for trucks.

Geotab

Provides fleet and asset management tools.

HTEC

Manufactures hydrogen powered vehicles and operates refuelling infrastructure in BC.

Mack Trucks

Manufactures electric semi trucks for the freight industry.

New Flyer Buses

Canadian bus manufacturer, with battery electric and hydrogen fuel cell products in market.

Rizon Trucks

Daimler Truck brand for manufacturing class 4 and 5 commercial EV trucks.

Velocity Truck Centre

Sells and services all MHDs, including ZEVs.

Wright Speed

California-based manufacturer of bespoke electrification packages for diesel fleets. Combines an e-axle, battery pack, diagnostics, and telematics.

Support Organizations

BC Trucking Association (BCTA)

Province-wide, member-driven, non-partisan, and non-profit organization dedicated to advancing the interests of BC's motor carriers.

Charged EVs

Charged EVs is a journal and event series covering a range of topics including charging, EV engineering, and battery manufacturing.

CleanBC

The provincial plan to lower carbon emissions across BC by 2030. The organization offers resources, tools, and funding for transition to low-carbon transport.

Clean Energy Canada

Working to accelerate Canada's clean energy transition by sharing the story of the global shift to renewable energy, clean technology, and sustainable industries.

Community Energy Association

Non-profit, member-based organization accelerating climate action by local governments and Indigenous communities.

Electric Autonomy Canada

An independent media and events company reporting on Canada's transition to zero-emissions transport.

Electric Mobility Canada

National industry association advancing the transition to electric transportation through advocacy and collaboration.

Pembina Institute

Clean energy think tank that researches and reports on the clean energy transition in Canada.

PlugIn BC

Operated by Fraser Basin Council, provides information and support about EVs in BC.

North American Council for Freight Efficiency (NACFE)

Advocates for the adoption of environmentally friendly technologies and solutions in the freight industry.

Transport Canada

Responsible for Canada's transportation policies and programs.

BC Hydro - Incentives For Electric Fleet Planning And Infrastructure

BC Hydro

333 Dunsmuir St., Vancouver, BC V6B 5R3

evfleet@bchydro.com

EV Ready Fleet Plan Rebate

- Funded by BC Hydro on a rolling intake.
- Our EV fleet program can help your organization determine how to convert some or all of your gas-powered light-, medium- and heavy-duty fleet vehicles to electric.
- A rebate of 50% of planning costs (excluding GST) up to a maximum of $15,000.

EV Ready Pilot Project Incentive

Provide funding for short-term trials of commercial battery EVs. Funding amounts are based on an evaluation of the scope of work, the projected benefits and value proposition, in addition to the associated costs for the testing. This can include:

  - Short-term, temporary operational testing of a light-, medium- or heavy-duty battery EV.
  - Short-term, temporary deployment of EV charging infrastructure or mobile power solutions to support demonstration projects.
  - Research and testing of charging strategies and/or vehicle performance.

Electrical Infrastructure Incentive

- Pre-approved customers can get funding for the cost of installing the electrical infrastructure in accordance with an approved EV Ready fleet plan. Funding availability subject to change.
- This funding is available for customers who have an approved BC Hydro Fleet Plan.
  - Program funding is determined based on a review of costs, electrification opportunities, emission savings, and the overall business case. There is no per project maximum.
  - Additional funding is determined based on the number and power of charge ports supported by and installed at the same time as the charging infrastructure, with a per project maximum of $100,000.
  - Funding is automatically applied whilst funds last.
- Eligible costs include:
  - Electrical design
  - Civil and electrical work for service connection
  - New connection service from BC Hydro if required
  - Electrical hardware associated with the fleet charging electrical system

CleanBC - Go Electric Medium- and Heavy-Duty Public Charger Program

Clean BC

PO Box 9314 Stn. Prov. Govt., 4th floor, 1810 Blanshard St., Victoria, BC V8W 9N1

MHDPublicCharger@pluginbc.ca

- Funded by the Province of BC, CleanBC and operating from April 2024-June 2026.
- The CleanBC Go Electric Medium- and Heavy-Duty Public Charger Program is a sub-program of the CleanBC Go Electric Program and is intended to increase the number of public Direct Current Fast Charger (DCFC) stations throughout B.C. to support the growing need for public charging for medium- and heavy-duty (MHD) electric vehicles.
- The Program aims to fund DCFCs in locations with high MHD vehicle utilization to support the transition of the MHD industry to ZEVS.
- Applications close 1st June 2026.
- Chargers must be:
  - Located within B.C. and accessible to MHD fleet vehicles 24 hours per day, 365 days per year;
  - Designed to accommodate class 6 vehicles or larger;
  - Able to charge a minimum of two MHD EVs simultaneously; and
  - Applicants who do not own the site they plan to install a DCFC on will need to include a written agreement with their application demonstrating the right to use the site for a ten-year period.

CleanBC - Go Electric Commercial Vehicle Pilots Program

Clean BC

PO Box 9314 Stn. Prov. Govt., 4th floor, 1810 Blanshard St., Victoria, BC V8W 9N1

admin@cvpbc.ca

- Funded by the Province of BC, Clean BC and operating from April 2024- March 2028.
- The CleanBC Go Electric Commercial Vehicle Pilots (CVP) Program intends to encourage and accelerate the adoption of commercial zero-emission vehicles (ZEVs). It is for B.C.-based businesses, non-profits, local governments, Indigenous communities and eligible public entities looking to deploy ZEV technology in commercial applications along with supporting infrastructure. The CVP Program is one of a suite of programs offered under

the Province's CleanBC Go Electric Program, designed to reduce barriers to the adoption of ZEVs to realize both their environmental and economic benefits.

- Successful applicants are eligible to receive funding support of up to one-third of total costs of their ZEV deployments and/or infrastructure projects. The funding call is expected to support on-road medium and heavy-duty applications, as well as marine, rail, air or off-road categories.
- Funding from other sources will be allowed as long as funding amounts do not exceed total project costs. Reporting of applications for other government funding for the use toward a project funded under the CleanBC Go Electric Commercial Vehicle Pilots Program is mandatory. For the iMHZEV Program, Transport Canada will provide the full, federal incentive amount at the point of sale for eligible vehicles. The CleanBC Go Electric Commercial Vehicle Pilots Program incentive amount will be adjusted so the stacked funding amount does not exceed 75% of a vehicle's manufacturer's suggested retail price (MSRP).
- Off-road vehicle types have no minimum vehicle deployment number.

CleanBC - Go Electric Fleet Charging Program

Clean BC

PO Box 9314 Stn. Prov. Govt., 4th floor, 1810 Blanshard St., Victoria, BC V8W 9N1

fleets@pluginbc.ca

- Rebates to support public and private fleets deploying ZEV infrastructure and support servicse for organizations seeking ZEV solutions for their fleets.
- Applicants may seek rebates to design, procure, and install EV chargers (level 2 and 3) for fleet use.
- In FortisBC territory only, applicants may seek support for fleet assessments, ZEV infrastructure assessments, and electrical infrastructure upgrades.
- Organizations must submit their applications for pre-approval by March 1, 2026.
- Final documentation must be submitted by Dec. 15, 2026 to accommodate approval and rebate disbursement before the end of the Program.

Government of Canada - Green Freight Program

Natural Resources Canada

05 Robson St., Vancouver, BC V6B 5J3

freightassessment-evaluationdeflotte@nrcan-rncan.gc.ca

- Funded by Natural Resources Canada on a rolling intake
- Providing grants towards Third-Party Fleet Energy Assessments and Truck/Trailer Equipment Retrofits.
- For Fleet Energy Assessments, the program will provide up to 50% per company, to a maximum of $40,000. For Truck/Trailer Equipment Retrofits, the program has established a list of eligible technologies and will provide up to 50% per device. The maximum amount payable for eligible activities under Stream 1 is $250,000 per applicant. Applicants will be reimbursed after submitting their invoices for eligible purchases. Stream 1 was launched December 12, 2022.

Government of Canada - Incentives for Medium- and Heavy-Duty Zero-Emission Vehicles

Government of Canada

Address: 800 Burrard St., #1100, Vancouver, BC V6Z 2J8

IMHZEVProgram-ProgrammeIVMLZE@tc.gc.ca

- Funded by the Government of Canada, operating from July 2022- March 2026.
- In order to encourage the adoption of medium- and heavy-duty ZEVs by Canadian businesses, the Government of Canada launched the Incentives for Medium- and Heavy-Duty Zero-Emission Vehicles (iMHZEV) Program in July 2022. The iMHZEV Program can provide incentives of up to $200,000.
- The iMHZEV Program offers point-of-sale incentives for Canadian organizations and businesses (subject to funding availability) who buy or lease an eligible MHZEV. Only Canadian businesses / organizations with an office registered in Canada are eligible under the iMHZEV Program. In addition, only the vehicles listed on our website are eligible for an incentive when they're purchased or leased for at least 12 months, on or after the eligibility date.
- Organization and business limits are applied at an organization level, rather than by department or division. Organizations and businesses that share common ownership, other than common ownership as a result of being a publicly traded company, are considered as one single organization eligible for a combined total of 10 incentives or a maximum of $1,000,000 per calendar year (whichever comes first).
- Limits for provincial, territorial and municipal governments with fleets are applied by level of government, rather than by organization. This means that each provincial, territorial or municipal fleet can use no more than 10 incentives or a maximum of $1,000,000 per calendar year (whichever comes first)