

Global Commercial Vehicle Drive to Zero Program



The Global Commercial Vehicle Drive to Zero Program (Drive to Zero) is a strategic international initiative designed to catalyze the growth of the zero-emission and near-zero emission medium- and heavy-duty vehicle (MHDV) sector. It seeks to unite key regions of change worldwide, along with leading manufacturers and fleet users, to collaboratively speed change by setting in place requirements, policies, incentives, investments and infrastructure that supports early market success.

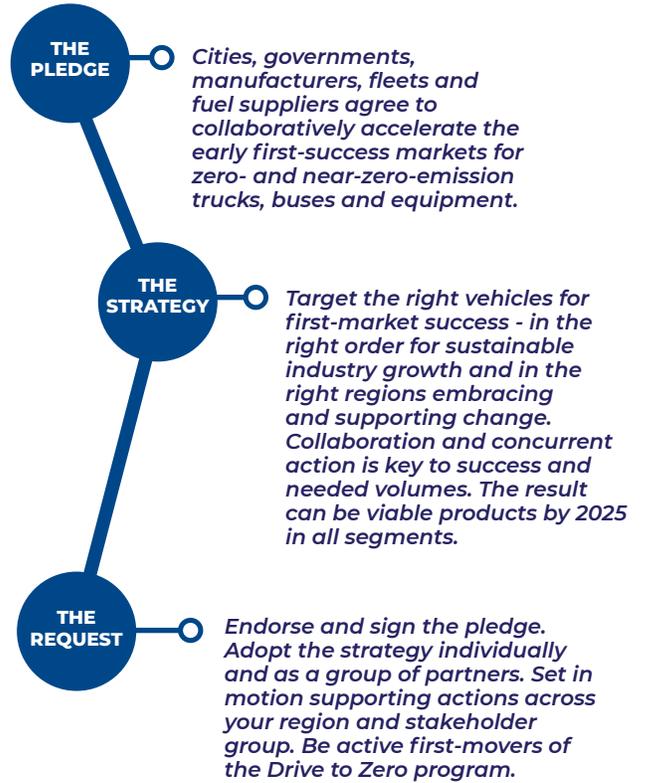
Tackling Emissions & Air Quality

By focusing its efforts on a critical, but complex, vehicle space – heavy-duty goods movement, people movement and equipment – Drive to Zero will help nations achieve the greenhouse gas emissions targets established under the Paris Accord and improve urban air quality.

Visit www.globaldrivetozero.org

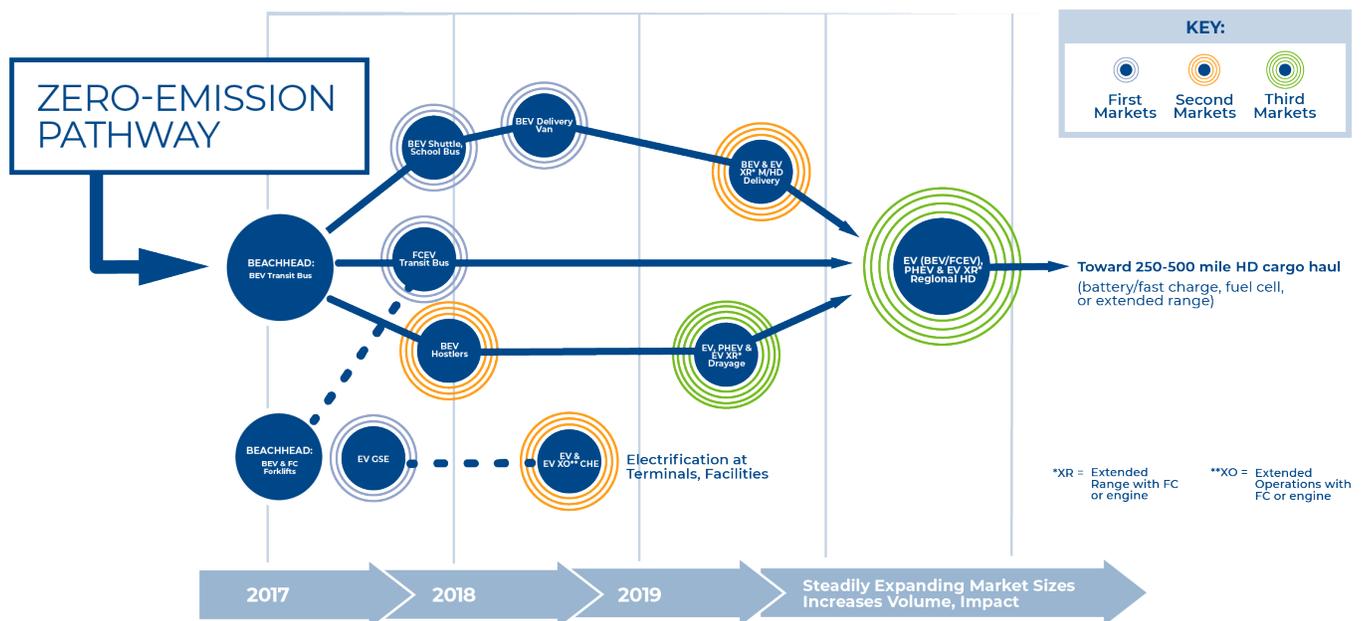
Mission & Goals

- Coordinate activities and accelerate growth of global beachhead markets
- Share lessons so countries, provinces, and cities can learn from and be inspired by each other
- Near- and zero-emission MHDV beachhead applications commercially viable in target global markets by 2025
- Zero-emission MHDVs achieve full market penetration by 2040



The Beachhead Pathways

In collaboration with the California Air Resources Board (CARB), CALSTART – a clean transportation consortium of more than 210 members – developed a “beachhead” or first success analysis, identifying the segments of the commercial vehicle market where zero-emission and near-zero technology is most likely to succeed first. Key identifying factors include: technology readiness, duty cycle and use, industrial activity and capacity, and user economics. For zero-emissions, the early beachhead markets are: transit buses, shuttle vans, package and delivery vans and trucks, terminal tractors, port equipment, and regional distribution (freight) trucks.



Full Market Penetration by 2040

This powerful strategy matches vehicle makers' timelines and production capacity. By coordinating deployments of similar vehicle applications in multiple markets at once, common component volumes increase and reduce cost, speeding investments. Successful collaboration can drive the beachhead markets being commercially viable by 2025 in leading cities/regions of Asia, North and South America and Europe. The size of these beachheads can create a sustainable ecosystem enabling fully zero-emission technology to expand to other commercial vehicle segments in the 2025-2035 timeframe with full market penetration occurring by 2040.



On-Going Work

Drive to Zero works to support and coordinate partner action. It is now expanding its partner base, developing vehicle availability data and assembling a menu of implementation tools designed to drive market success.

Tools CALSTART is developing:

- **Policies and Actions Toolkit** - A living, regularly updated portfolio of the key policies, actions and investments governments and industry can take to spur faster near- and zero-emission commercial vehicle deployment.
- **Vehicle Availability Guide** - Track in real time where, what type and when new vehicles will be available and manufacturer information.
- **Total Cost of Ownership Calculator** - Pinpoint the best vehicles for the job. Explore and compare the costs associated with different vehicles.

Pledge Partners

Vehicle manufacturers, elected officials, and city and government agencies have signed the Drive to Zero pledge. They are advancing beachhead markets while accessing global information sharing and tools.

The pledge framework:

- Agree to work together, take actions locally and regionally to support growth of zero-emission commercial vehicle markets
- Information share with peer regions
- Access to best tools, research, assistance, data

There is no cost to take part in the Drive to Zero program, just your commitment!

Visit us at:
www.globaldrivetozero.org

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Drive to Zero Partners (as of June 2019)

Governments

Canada
British Columbia
California Energy Commission
California Air Resources Board
LADOT
New York State Energy Research & Development Authority
Chile Sustainable Energy Agency
East Bay Clean Cities Coalition
Foothill Transit
SCAQMD
BAAQMD

Cities

The Honorable Eric Garcetti, Mayor of Los Angeles
New York City Department of Citywide Administrative Services
Vancouver
Helmond
The Honorable Michael D. Tubbs, Mayor of Stockton
The Honorable Darrell Steinberg, Mayor of Sacramento
Oslo Governing Mayor Raymond Johansen



The first Drive to Zero pledge signing ceremony at the Global Climate Action Summit Workshop in San Francisco, Sept. 11, 2018.

Representatives from Canada, British Columbia and Vancouver endorse the Drive to Zero program at CEM10/MI-4 in Vancouver on May 28, 2019.



Companies & Organizations

Auto Research Institute
AxleTech
BAE Systems
Ballard Power Systems
Black & Veatch
Blue Mountain Resorts
BYD
BYD Canada
Chanje Energy
Dunksy Energy Consulting
Effenco
Geotab
Ingka Group
International Commuter Challenge
Lightning Systems
Mayor USA
Mitsubishi Fuso Truck
Motiv Power Systems
New Flyer Industries
Orange EV
Prospect Silicon Valley
Proterra
Ryder
Siemens
Southern California Edison
Tewa
The Lion Electric Co.
TransPower
Unique Electrical Solutions LLC
USGRDCO
US Hybrid
Viatic
West Valley Construction Company
Windfall Ecology Centre
Workhorse
XL
XOS
Coast to Coast Smart e-Mobility
Zenith Motors

New Pledge Partners are signing up to Drive to Zero regularly. For the latest list, please visit www.globaldrivetozero.org.

Visit us at www.globaldrivetozero.org
or contact us at info@globaldrivetozero.org