

Zero-Emission Vehicle (ZEV) 101



CARB managed website offering many helpful links and information on zero-emission truck basics, regulations, funding options, zero-emission market and more.

arb.ca.gov/zevtruckstop



ZEV Truck Incentive Resources

[Advanced Vehicle Technology and Infrastructure Funding Finder Tool ▶](#)

[Hybrid & Zero-Emission Truck & Bus Voucher Incentive Program \(HVIP\) ▶](#)

[Low Carbon Fuel Standard ▶](#)

[EnergIZE Commercial Vehicles ▶](#)

[Truck Loan Assistance Program ▶](#)

[Carl Moyer Program ▶](#)

[Volkswagen Environmental Mitigation Trust ▶](#)

[Voucher Incentive Program \(VIP\) ▶](#)

[Community Air Protection Incentives for On-Road Heavy-Duty Vehicles ▶](#)

[Heavy-Duty Demonstration and Pilot Projects ▶](#)



ZEV Truck Regulations

[Innovative Clean Transit Regulation ▶](#)

[Zero-Emission Airport Shuttle Regulation ▶](#)

[Zero-Emission Powertrain Certification Regulation ▶](#)

[Advanced Clean Trucks Regulation ▶](#)

[Proposed Zero-Emission Transport Refrigeration Unit \(TRU\) Regulation ▶](#)

[Proposed Advanced Clean Fleets Regulation ▶](#)

ZEV 101

Webpage within ZEV TruckStop where you will find resources available to help you learn terminology, understand zero-emission fueling, and the step you should take to plan for infrastructure.





Webpage within ZEV Truckstop where visitors can find training opportunities and watch recordings from past events.

[Next-Stop to Zero Training and Events](#)



The Road to Heavy-Duty Zero-Emission Vehicles

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Zero-Emission Goals

To meet California's health based air quality standards and greenhouse gas emission reduction goals, the trucks and buses operated in the state and the fuel they use must be transformed away from petroleum.

California is working to meet the Governor's goal of one hundred percent

 100% ZEV sales

Full transition to
ZEV drayage trucks

 Full transition to ZEV buses



Medium- and Heavy-Duty Zero-Emission Vehicle 101

New technology means new terminology and new ways of operating for many vehicle owners. The information provided here attempts to answer some of the very basic questions surrounding zero-emission vehicles.



Zero-Emission Terms To Know

Familiarize yourself with the acronyms and terminology surrounding zero-emission technology.

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Zero-Emissions Vehicles (ZEV)

Vehicles that produce zero tailpipe exhaust emissions of any criteria pollutant or greenhouse gas under all possible operational modes or conditions.

Battery Electric Vehicles (BEV)

Vehicles that run entirely on electricity and can be recharged from an outside energy source like the electricity grid. They use an electric motor instead of an engine and a battery pack instead of a fuel tank.

Hydrogen Fuel Cell Electric Vehicles (FCEV)

Vehicles that use a hydrogen powered fuel cell instead of an engine to generate electricity for the batteries and electric motor. These vehicles generally utilize the same components as a battery electric vehicle, but with the addition of a hydrogen fuel cell and hydrogen storage tank.