



Encouraging Zero-Emission Adoption via the Off-Road Diesel Regulation and the California Clean Construction Program

Topics

- Off-Road Diesel Regulation Flexibilities
 - Vehicle-to-vehicle provision
 - Zero-Emission Technology Application (ZETA)
- California Clean Construction
 - Goals
 - Current Status
 - Current Concept of Program

Off-Road Diesel-Fueled Fleets (ORD) Regulation

ORD Regulation

- **Applicability:**
 - Vehicles with diesel engines 25 horsepower and up¹
 - Construction, mining, industrial equipment, and others
 - Some two-engine on-road vehicles and workover rigs



¹Dedicated snow removal, part-time agricultural, and emergency vehicles are exempt from most requirements, but must still report and label.

ORD Regulation Requirements

- Report and label all vehicles
- Idling limits
- Renewable Diesel
- Contractor Requirements
- • Fleet average emissions targets
- Ban on adding vehicles with older engines
 - Tier 0 o Tier 4 Interim bans, based on fleet size
- • Phase out of vehicles with older engines
 - Tier 0 to Tier 2, based on fleet size



Vehicle Label

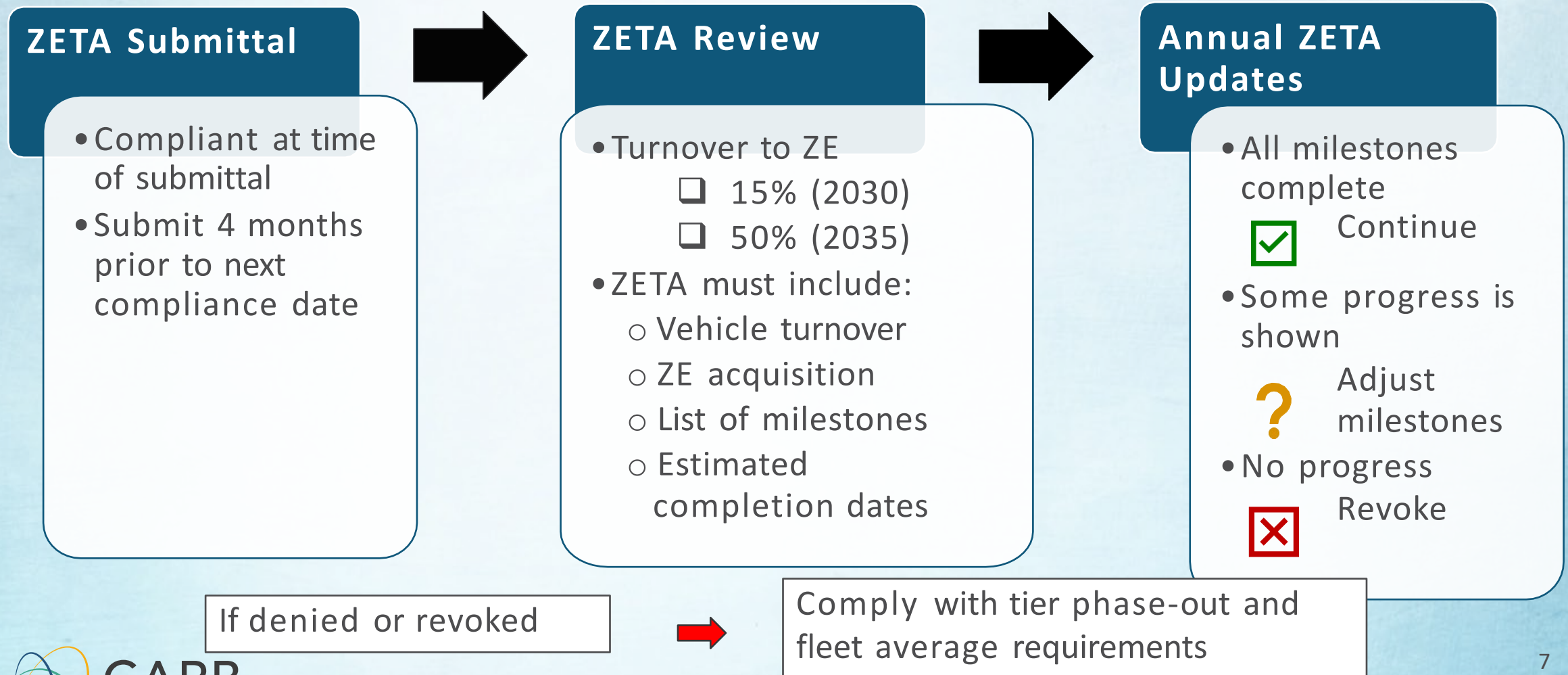
Voluntary Zero-Emission Flexibility: Vehicle to Vehicle



For each Zero-Emission (ZE) vehicle adopted, the fleet may continue to operate a Tier 1 or Tier 2 vehicle for two additional years beyond the phase-out years

- Must perform work of a diesel equivalent
- Must be of similar max power rating to the internal combustion engine vehicle
- Must report vehicle information to the California Air Resources Board (CARB)

Alternate Compliance Pathway: ZETA



California Clean Construction

Program Purpose and Framework

- Reduce emissions from Off-Road equipment
- Promote ZE mobile off-road construction equipment
- Voluntary, non-monetary incentive program
- Recognize entities that go above and beyond regulatory requirements



Current Status

- Currently developing program parameters
 - Contracting entities, policymakers, and state and local governments could incorporate the program in contract award considerations
 - Local air districts or other lead agencies could potentially incorporate the program as a California Environmental Quality Act mitigation strategy
- CARB encourages feedback and engagement from the public

Current Program Concepts



- At least 35% of available off-road equipment are ZE for project to participate
- Tier 4 Final with DPF for remaining equipment, if available with DPF from original equipment manufacturer
- Potential to include hybrid equipment.

Contact, Information, and Assistance

- Off-Road Regulation Homepage:
<https://arb.ca.gov/ordiesel>
- California Clean Construction
<https://ww2.arb.ca.gov/es/node/42861>
- DOORS Hotline and E-mail
(877) 593-6677
doors@arb.ca.gov
- Program Feedback
ccc@arb.ca.gov

