

CLIMATE ACTION TEAM
Air Resources Board Working Group

Near-Term Implementation Plan
Scoping Plan Measure T-1: Passenger Vehicle Programs

CAT Working Group Overview: The Passenger Vehicle Programs will reduce GHG emissions in California in the near term by reducing fleet-wide emission reductions and ensuring a specific suite of vehicle technologies are commercialized and used in the transportation sector.

Working Group Agencies: Air Resources Board

Measure / Strategy

- A) Description: Beginning with the 2017 model year, the Advanced Clean Car regulation will significantly reduce vehicle tailpipe emission standards. This control measure will reduce annual emissions by 4.1 MMTCO₂e in 2020 and together with other vehicle programs will result in cumulative emission reductions of 158 MMTCO₂e between 2009 and 2020. The ZEV requirements will become part of the Advanced Clean Car regulation, and will be enhanced beginning in the 2018 model year. The goal of the ZEV requirements will be to ensure a suite of very low GHG-emitting vehicle technologies are commercialized so they can be relied on to further reduce GHG emissions beyond 2025.

The Advanced Clean Car program will continue to require reductions in criteria pollutants in order to meet new, more stringent ambient air quality standards, address emissions from a growing population, and address the increase in ozone formation and unhealthy air resulting from climate related, longer and more extreme heat events.

- B) Agencies Involved: Air Resources Board
- C) Scoping Plan References: Measure T-1
- D) Metrics: The metric for this action is greenhouse gas emissions from light-duty vehicles. This metric will be tracked through on-going enforcement of light-duty vehicle emission regulations and ARB's emission inventory for light-duty vehicles.

The compliance metric for the ZEV Regulation is the number of ZEV "credits" reported where credits are based on various factors, including technology type, driving range, etc. By the 2018 MY, the number of technology categories will be reduced (simplified), eliminating the historical PZEV and AT PZEV categories.

- E) Crosscutting Issues: The ultimate emission reductions from alternative vehicle technologies and fuels depend on the carbon intensity of the fuel production and delivery. Specifically, in the case of hydrogen, electricity and biofuels, evaluating the upstream fuel production

compared to traditional gasoline and diesel is essential. The Advanced Clean Car regulation includes a “well to tank (WTT)” factor for ZEVs to address this. The ZEV Regulation credit factors being developed may consider (a) the relative GHG performance of different vehicles, and (b) the availability of alternative fueling and charging infrastructure. These measures are closely aligned with the LCFS, AB 118 incentives, and the Clean Fuels Outlet regulation.

F) Tasks and Deliverables:

Task 1: ADVANCED CLEAN CAR PROGRAM

1. Description: ARB shall develop a regulatory proposal to further reduce GHG emissions from light-duty vehicles.
2. Deliverables: Regulatory proposal to reduce light-duty vehicle GHG emissions from 2017-2025.
3. Agency Roles: The Air Resources Board is solely responsible for this measure.
4. Timeline: Board hearing on regulatory proposal second half of 2010.

Task 2: ZEV PROGRAM

1. Description: ARB shall develop a regulatory proposal to further increase the requirements for zero emission vehicle technology from light-duty vehicles through 2025.
2. Deliverables: Building from the public material and informational update to the Board December 10, 2009, the ZEV Regulation is currently being substantially revised. Board hearing on proposed regulatory revisions to the ZEV mandate in the second half of 2010.
3. Agency Roles: The Air Resources Board is solely responsible for this measure.
4. Timeline: In support of the ISOR development and Board hearing in late 2010, ARB staff will be convening at least two public workshops for the ZEV Regulation. The first was scheduled for May 3 and the second will be held sometime in July of this year.

G) SUMMARY TABLE:

Deliverable	Agencies	Deadline
Advanced Clean Car. Proposal to reduce light-duty GHG emissions from 2017-2025	ARB	November or December 2010
ZEV. Proposal to increase requirements of zero emission vehicle technologies through 2025.	ARB	November or December 2010