



Air Resources Board



Linda S. Adams
Secretary for
Environmental Protection

Mary D. Nichols, Chairman
9480 Telstar Avenue, Suite 4
El Monte, California 91731 www.arb.ca.gov

Arnold Schwarzenegger
Governor

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Mail-Out # MSC 10-01

TO: ALL INTERESTED PARTIES

SUBJECT: PUBLIC WORKSHOP ON DEVELOPMENT OF NEW HYBRID REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY VEHICLES AND UPDATE TO THE INTERIM CERTIFICATION PROCEDURES FOR 2004 AND SUBSEQUENT MODEL HYBRID-ELECTRIC VEHICLES, IN THE URBAN BUS AND HEAVY-DUTY VEHICLE CLASSES. (REVISED)

The Air Resources Board (ARB or Board) invites you to participate in the first public workshop to discuss concepts for reducing greenhouse gases (GHG) from medium and heavy-duty vehicles through truck hybridization. In addition, the ARB will be discussing potential updates to the existing interim certification procedures for hybrid heavy-duty trucks and urban buses. The purpose of this workshop is to provide an overview of ARB activities to date and initiate a dialogue on effectively achieving GHG reductions that are technologically feasible, cost-effective, and quantifiable.

The workshop will be held at the following time and location:

Date: February 3, 2010
Time: 9:30 a.m. to 11:30 a.m.
Location: Cal/EPA Headquarters Building
Sierra Hearing Room, 2nd Floor
1001 I Street
Sacramento, California 95814

Webcast and Handout Information

This meeting will be webcast for those unable to attend in person. The broadcast can be accessed on the day of the workshop at <http://www.calepa.ca.gov/broadcast/>. Information on submitting questions or comments will be provided during the webcast for remote participants. Staff's presentation and any handouts will be posted in advance of the workshop on ARB's web site at: <http://www.arb.ca.gov/cc/hybridtruck/hybridtruck.htm>.

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our website: <http://www.arb.ca.gov>.

California Environmental Protection Agency

Background

Vehicle Hybridization Measure

In 2006, the legislature passed and Governor Schwarzenegger signed the California Global Warming Solutions Act of 2006 (AB 32; Stats. 2006, chapter 488). AB 32 creates a comprehensive, multi-year program to reduce GHG emissions in California, with the overall goal of restoring emissions to 1990 levels by the year 2020. To achieve this, the ARB was tasked with developing an AB 32 Scoping Plan (Scoping Plan) providing the outline for actions to reduce California's GHG emissions. The Scoping Plan, approved by the Board December 12, 2008, now requires the ARB and other state agencies to adopt regulations and other initiatives reducing GHGs.

The Scoping Plan recommended several actions for reducing GHG emissions from the transportation sector, including a measure for medium- and heavy-duty vehicle hybridization (Measure T-8). Hybridization of medium- and heavy-duty vehicles would reduce GHG emissions through increased fuel efficiency. Hybrid trucks would likely achieve the greatest benefits in urban, stop-and-go applications, such as parcel delivery, utility services, transit, and other vocational work trucks. The Scoping Plan estimates that the sale of these types of new hybrid trucks could achieve 0.5 million metric tons of carbon dioxide emission reductions. The Scoping Plan identified an approach to achieving these reductions through regulation and/or incentive programs.

In April 2008, the Board approved the Hybrid Truck and Bus Voucher Incentive Project (HVIP) which provides funds of up to \$20.4 million through the AB 118 Air Quality Improvement Program (AQIP). The HVIP provides vouchers of \$10,000 to \$45,000 on a first-come, first-served basis for the purchase of eligible new hybrid trucks or buses. ARB anticipates that up to 800 new hybrid trucks or buses will be funded through this project in Fiscal Year 2009-10 with continued AQIP funding in the upcoming years.

The HVIP is the first step in achieving the emission reductions needed from Scoping Plan Measure T-8, but it is not sufficient to meet the obligation. The second step is developing a regulation requiring new trucks in targeted vocations be hybrid vehicles. This is the first workshop, in a series of workshops, which the ARB will hold in development of the regulation.

Update of the ARB Interim Certification Procedures for Hybrid-Electric Heavy-Duty Vehicles and Urban Buses

In 2002, the ARB adopted interim test procedures for certifying hybrid-electric heavy-duty vehicles and urban buses. This interim procedure was adopted in conjunction with modifications to the Public Transit Bus Fleet Rule to reflect advances in technology that could not be captured in ARB's existing heavy-duty certification

procedures. The interim certification procedure is based on a modified version of the Society of Automotive Engineers (SAE) Recommended Practice SAE J2711. This protocol was developed to test the emissions of heavy-duty hybrid-electric buses using a chassis dynamometer. The certification value is determined through calculations using chassis dynamometer test results and engine certification values for both the hybrid-electric bus and a conventional drivetrain bus. The Board approved these interim procedures with the intention of revisiting the procedures if needed in future years. Due to the expanding commercialization of hybrid technology, advancement of the hybrid technology into more sectors of the heavy-duty vehicle market, and the need to quantify emission reductions in both the HVIP as well as existing and future ARB regulations, ARB believes that updates to the existing interim procedure are warranted. ARB will be conducting a series of workshops to obtain public comment on the update of these procedures.

Special Accommodations and Language Assistance

If you require a special accommodation or need this document in an alternate format or language, please contact Ms. Johanna Levine at (916) 324-6971 or jlevine@arb.ca.gov as soon as possible, but no later than 10 business days before the scheduled event/meeting. TTY/TDD/Speech to Speech users may dial 711 for the California Relay Service.

If you have questions regarding the workshop, please contact Ms. Johanna Levine, Air Resources Engineer, at (916) 324-6971 or jlevine@arb.ca.gov. We welcome and appreciate your participation in this workshop.

Sincerely,

/s/

Robert H. Cross, Chief
Mobile Source Control Division

cc: Ms. Johanna Levine
Air Pollution Specialist
Air Quality Improvement Program Section