

**CARB Scoping Plan Transportation Measures Implementation Timeline - February 2 2009**

Scoping Plan Measure	Mode	Page #	Responsible Agency (ies) (Lead in bold)	Projected Date Measure to be Adopted by Lead Agency	Implementation Date	Million Tons of GHG Reductions by 2020	Type of Action (Regulation, Voluntary etc.)
Ship Electrification at Ports (Discrete Early Action)	goods movement	C-66	ARB	Dec-07	2010	0.2	Regulation
Transport Refrigeration Units Cold Storage Prohibition and Energy Efficiency	goods movement	C-69	ARB	March-10	TBD	3.5*	Regulation (cold storage) and Guidelines (energy efficiency)
Refrigerant Recovery from Decommissioned Refrigerated Shipping Containers	goods movement	C-181	ARB	2010	2012	0.2	Regulation/ Program
Cargo Handling Equipment- Anti-Idling, Hybrid, Electrification	goods movement	C-69	ARB	Nov-09	TBD	3.5*	Voluntary
Goods Movement System-Wide Efficiency Improvements	goods movement	C-67	ARB	2010	2010-2015	3.5*	Voluntary
Port Drayage Trucks	HDV	C-68	ARB	Dec-07	Beginning 2010	3.5*	Regulation
Heavy-Duty Vehicle GHG Emission Reduction (Aerodynamic Efficiency) (Discrete Early Action)	HDV	C-73	ARB	Dec-08	Phased-In Schedule for large fleets: Beginning 2010; Final compliance 2013	0.93	Regulation
Commercial Harbor Craft	marine	C-69	ARB	TBD	TBD	3.5*	Voluntary
Commercial Harbor Craft-Maintenance and Design Efficiency	marine	C-69	ARB	TBD	TBD	3.5*	Voluntary
Clean Ships	marine	C-68	ARB	TBD	TBD	3.5*	Voluntary/ Regulation
Vessel Speed Reduction	marine	C-68	ARB	TBD	TBD	3.5*	Voluntary/ Regulation
High GWP Reductions from Mobile Sources Low GWP Refrigerants for New Motor Vehicle Air Conditioning	MDV, HDV	C-179	ARB	2010	2015	2.5	Regulation
Medium- and Heavy-Duty Vehicle Hybridization	MDV, HDV	C-73	ARB	TBD	TBD	0.5	Regulation
Pavley (AB 1493)	passenger vehicles	C-57	ARB	Sep-04	2009-2016	27.7	Regulation
Motor Vehicle Air Conditioning Systems: Reduction of Refrigerant Emissions from Non-Professional Servicing (Discrete Early Action)	passenger vehicles	C-175	ARB	Jan-09	2010	0.26	Regulation
Tire Pressure Program	passenger vehicles	C-63	ARB	Mar-09	2010	0.55	Regulation
Low Carbon Fuel Standard (Discrete Early Action)	passenger vehicles	C-64	ARB	Apr-09	2010	15	Regulation

\*All of these goods movement measures together add up to 3.5 MMTCO<sub>2e</sub>

Note: Page numbers refer to "Measures Documentation Supplement"  
[http://www.arb.ca.gov/cc/scopingplan/document/measure\\_documentation.pdf](http://www.arb.ca.gov/cc/scopingplan/document/measure_documentation.pdf)

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Solar Reflective Auto Paints and Window Glazing	passenger vehicles	C-63	ARB	May-09	2012	0.89	Regulation
Tire Tread Program	passenger vehicles	C-63	CEC	2009	2010	0.3	Regulation
Pavley II	passenger vehicles	C-57	ARB	2010	2017	4.1	Regulation
Low Friction Engine Oil	passenger vehicles	C-63	ARB	TBD	TBD	2.8	Regulation
Enforcement of Federal Ban on Refrigerant Release during Servicing or Dismantling of Motor Vehicle Air Conditioning Systems	passenger vehicles	C-182	ARB	2009	2010	0.1	Partnership
Air Conditioner Refrigerant Leak Test During Vehicle Smog Check	passenger vehicles	C-180	ARB, BAR	2010	2012	0.5	Partnership
Regional Transportation-Related Greenhouse Gas Targets	passenger vehicles	C-74	ARB, Local Governments, Regional Planning Agencies	Sep-10	Set targets by 2010. Local actions have begun already in some areas	5	Various
Feebates (in lieu of Pavley regs)	passenger vehicles (MDV, HDV)	C-61	ARB	TBD	TBD	31.7	Regulation (if needed)
Mitigation Fee on High GWP Gases	passenger vehicles, MDV, HDV	C-189	ARB	Dec-09	2010	5	Regulation
High Speed Rail	rail	C-85	HSRA	NA	2020	1	NA

**TRANSPORTATION FUELS MEASURES**

Low Carbon Fuel Standard (Discrete Early Action)	fuels	C-64	ARB	Apr-09	2010	15	Regulation
Oil and Gas Extraction GHG Emission Reduction	fuels	C-153	ARB	2009	2015	0.2	Regulation
Cap-and-Trade	fuels	C-11	ARB	Nov-10	2012	34.4	Regulation
Refinery Flare Recovery System Improvement	fuels	C-155	ARB	2010	2012	0.33	Regulation
Removal of Methane Exemption from Existing Refinery Regulations	fuels	C-156	ARB	2010	2012	0.01	Regulation
GHG Leak Reduction from Oil and Gas Transmission	fuels	C-154	ARB	2010	2015	0.9	Regulation

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