

Scoping Plan Measures Implementation Timeline

Row #	Scoping Plan Measure	Measure #	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.)
1	Pavley (AB 1493)	T-1	C-57	ARB	Sep-04	2009-2016	27.7	Regulation
2	Ship Electrification at Ports (Discrete Early Action)	T-5	C-66	ARB	Dec-07	2010	0.2	Regulation
3	Port Drayage Trucks	T-6	C-68	ARB	Dec-07	Beginning 2010	3.5*	Regulation
4	Limit High GWP Use in Consumer Products (Discrete Early Action): Pressurized Gas Duster GWP Limit of 150	H-4	C-179	ARB	Jun-08	2010	0.23	Regulation
5	Heavy-Duty Vehicle GHG Emission Reduction (Aerodynamic Efficiency) (Discrete Early Action)	T-7	C-73	ARB	Dec-08	Phased-In Schedule for large fleets: Beginning 2010; Final compliance 2013	0.93	Regulation
6	Motor Vehicle Air Conditioning Systems: Reduction of Refrigerant Emissions from Non-Professional Servicing (Discrete Early Action)	H-1	C-175	ARB	Jan-09	2010	0.26	Regulation
7	SF ₆ Limits in Non-Utility and Non-Semiconductor Applications (Discrete Early Action)	H-2	C-176	ARB	Feb-09	2010	0.1	Regulation
8	Reduction of Perfluorocarbons in Semiconductor Manufacturing (Discrete Early Action)	H-3	C-177	ARB	Feb-09	2012	0.18	Regulation
9	Tire Pressure Program	T-4	C-63	ARB	Mar-09	2010	0.55	Regulation
10	Low Carbon Fuel Standard (Discrete Early Action)	T-2	C-64	ARB	Apr-09	2010	15	Regulation
11	Landfill Methane Control Measure (Discrete Early Action)	RW-1	C-160	ARB	Apr-09	2012	1	Regulation
12	Water Use Efficiency	W-1	C-132	DWR, SWRCB, CEC, CPUC, ARB	Spring 2009	2020	1.4**	Regulation
13	Solar Reflective Auto Paints and Window Glazing	T-4	C-63	ARB	May-09	2012	0.89	Regulation
14	Stationary Equipment Refrigerant Management Program- Refrigerant Tracking/Reporting/Repair/Deposit Program	H-6	C-182	ARB	May-09	2010	11	Regulation
15	Energy Efficiency and Co-Benefits Audits for Large Stationary Sources	I-1	C-150	ARB	Oct-09	2010	TBD	Regulation
16	Sulfur Hexafluoride (SF ₆) Emission Reductions from the Electricity Sector and Particle Accelerators SF ₆	H-6	C-186	ARB	Dec-09	2012	0.1	Regulation
17	Mitigation Fee on High GWP Gases	H-7	C-189	ARB	Dec-09	2010	20.2	Regulation

*All of the T-6 measures together add up to 3.5 MMTCO₂e

**Not counted toward the 2020 total of 174 MMTCO₂e

Scoping Plan Measures Implementation Timeline

Row #	Scoping Plan Measure	Measure #	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.)
18	Tire Tread Program	T-4	C-63	CEC	2009	2010	0.3	Regulation
19	Oil and Gas Extraction GHG Emission Reduction	I-2	C-153	ARB	2009	2015	0.2	Regulation
20	Transport Refrigeration Units Cold Storage Prohibition and Energy Efficiency	T-6	C-69	ARB	March-10	TBD	3.5*	Regulation (cold storage) and Guidelines (energy efficiency)
21	Foam Recovery and Destruction Program	H-6	C-185	ARB	Jul-10	2010	0.3	Regulation
22	Cap-and-Trade		C-11	ARB	Nov-10	2012	34.4	Regulation
23	Pavley II	T-1	C-57	ARB	2010	2017	4.1	Regulation
24	High GWP Reductions from Mobile Sources Low GWP Refrigerants for New Motor Vehicle Air Conditioning Systems	H-5	C-179	ARB	2010	2015	2.5	Regulation
25	Refinery Flare Recovery System Improvement	I-4	C-155	ARB	2010	2012	0.33	Regulation
26	Removal of Methane Exemption from Existing Refinery Regulations	I-5	C-156	ARB	2010	2012	0.01	Regulation
27	GHG Leak Reduction from Oil and Gas Transmission	I-3	C-154	ARB	2010	2015	0.9	Regulation
28	Alternative Suppressants in Fire Protection Systems	H-6	C-187	ARB , Cal Fire	Dec-11	2011	0.1	Regulation
29	Stationary Equipment Refrigerant Management Program- Specifications for Commercial and Industrial Refrigeration	H-6	C-183	ARB and CEC	2011 (CEC)	2012	4	Regulation
30	Low Friction Engine Oil	T-4	C-63	ARB	TBD	TBD	2.8	Regulation
31	Medium- and Heavy-Duty Vehicle Hybridization	T-8	C-73	ARB	TBD	TBD	0.5	Regulation
32	Reuse Urban Runoff	W-4	C-134	SWRCB	TBD	2020	0.2**	Regulation
33	Public Goods Charge for Water	W-6	C-136	DWR , ARB, CPUC, SWRCB	TBD	2012	TBD	Regulation
34	Water Recycling	W-2	C-133	SWRCB, DWR	TBD	2030	0.3**	Regulation
35	Feebates (in lieu of Pavley regs)	T-1	C-61	ARB	TBD	TBD	31.7	Regulation (if needed)
36	Refrigerant Recovery from Decommissioned Refrigerated Shipping Containers	H-5	C-181	ARB	2010	2012	0.2	Regulation/ Program
37	Solar Water Heating: AB 1470	CR-2	C-118	CPUC	2010	2020	0.1	Incentive

*All of the T-6 measures together add up to 3.5 MMTCO₂e

**Not counted toward the 2020 total of 174 MMTCO₂e

Scoping Plan Measures Implementation Timeline

Row #	Scoping Plan Measure	Measure #	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.)
38	Million Solar Roofs: 3,000 MW by 2017	E-4	C-120	CPUC, CEC , ARB	Current Program	Through 2016	2.1	Incentive
39	Residential Refrigeration Early Retirement Program	H-6	C-188	ARB	Dec-10	2011	0.1	Incentive Partnership w/ Utilities
40	Commercial Recycling	RW-3	C-161	CIWMB	2010	2020	5**	Mandate
41	High Speed Rail	T-9	C-85	HSRA	NA	2020	1	NA
42	Green Buildings	GB-1	C-142	DGS , ARB, CEC, CPUC, HCD	Ongoing	TBD	26**	NA
43	Enforcement of Federal Ban on Refrigerant Release during Servicing or Dismantling of Motor Vehicle Air Conditioning Systems	H-5	C-182	ARB	2009	2010	0.1	Partnership
44	Air Conditioner Refrigerant Leak Test During Vehicle Smog Check	H-5	C-180	ARB, BAR	2010	2012	0.5	Partnership
45	Renewables Portfolio Standards (33% by 2020 for IOUs & POUs)	E-3	C-126	CPUC, CEC , ARB	2009	2020	21.3	Various
46	Increasing Combined Heat and Power Use by 30,000 GWh	E-2	C-122	CPUC, CEC , ARB	2009	2020	6.7	Various
47	Regional Transportation-Related Greenhouse Gas Targets	T-3	C-74	ARB, Local Governments, Regional Planning Agencies	Sep-10	Set targets by 2010. Local actions have begun already in some areas	5	Various
48	Energy Efficiency Measures (Electricity)	E-1	C-99	CEC, CPUC , ARB	Ongoing	Through 2020	15.2	Various
49	Energy Efficiency (Natural Gas)	CR-1	C-99	CPUC, CEC , ARB	Ongoing	Through 2020	4.3	Various
50	Local Government Assistance	NA	C-49	ARB , CalTrans, CEC, CTC, HCD, OPR	Ongoing	NA	NA	Various
51	Sustainable Forest Target	F-1	C-166	Board of Forestry and Fire Protection	TBD	TBD	5	Various
52	State Government	NA	C-25	Cal/EPA , ARB, DGS	TBD	Ongoing	1-2**	Various
53	N ₂ O collaborative research	NA	67	ARB	Feb-09	NA	NA	Voluntary
54	Local Government Toolkit	NA	27	ARB	Apr-09	Ongoing	NA	Voluntary
55	Business Toolkit	NA	86	ARB	Apr-09	Ongoing	NA	Voluntary
56	Cargo Handling Equipment- Anti-Idling, Hybrid, Electrification	T-6	C-69	ARB	Nov-09	TBD	3.5*	Voluntary

*All of the T-6 measures together add up to 3.5 MMTCO₂e

**Not counted toward the 2020 total of 174 MMTCO₂e

Scoping Plan Measures Implementation Timeline

Row #	Scoping Plan Measure	Measure #	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.)
57	Goods Movement System-Wide Efficiency Improvements	T-6	C-67	ARB	2010	2010-2015	3.5*	Voluntary
58	Methane Capture at Large Dairies	A-1	C-194	ARB	NA	2020	1**	Voluntary
59	Increase Production and Markets for Compost (studies underway for data development)	RW-3	C-161	CIWMB	Ongoing	2020	2**	Voluntary
60	Greening New and Existing State Buildings	GB-1	C-142	DGS	Ongoing	TBD	TBD	Voluntary
61	Greening Public Schools	GB-1	C-143	DGS	Ongoing	TBD	TBD	Voluntary
62	Forest Conservation, Forest Management, Afforestation/Reforestation, Urban Forestry, and Fuels Management	NA	C-167	Cal Fire	Ongoing	2020	Potentially 2**	Voluntary
63	Extended Producer Responsibility	RW-3	C-162	CIWMB	Pending Legislation	2020	TBD**	Voluntary
64	Commercial Harbor Craft	T-6	C-69	ARB	TBD	TBD	3.5*	Voluntary
65	Commercial Harbor Craft-Maintenance and Design Efficiency	T-6	C-69	ARB	TBD	TBD	3.5*	Voluntary
66	Increasing the Efficiency of Landfill Methane Capture	RW-2	C-160	CIWMB	TBD	2020	TBD**	Voluntary
67	Anaerobic Digestion	RW-3	C-162	CIWMB	TBD	2020	2**	Voluntary
68	Environmentally Preferable Purchasing	RW-3	C-162	CIWMB, DGS	TBD	TBD	TBD**	Voluntary
69	Water System Energy Efficiency	W-3	C-133	CEC, CPUC, DWR, SWRCB	TBD	2020	2**	Voluntary
70	Increase Renewable Energy Production (from Water sector)	W-5	C-135	CEC, CPUC	TBD	2020	0.9**	Voluntary
71	Clean Ships	T-6	C-68	ARB	TBD	TBD	3.5*	Voluntary/ Regulation
72	Vessel Speed Reduction	T-6	C-68	ARB	TBD	TBD	3.5*	Voluntary/ Regulation
73	Greening New Residential and Commercial Construction	GB-1	C-145	CEC, CPUC, Building Standards Commission	Ongoing	TBD	TBD	Voluntary/ Incentive
74	Greening Existing Homes and Commercial Buildings	GB-1	C-146	CEC, CPUC	Ongoing	TBD	TBD	Voluntary/ Incentive

*All of the T-6 measures together add up to 3.5 MMTCO₂e

**Not counted toward the 2020 total of 174 MMTCO₂e