

Scoping Plan Measures Implementation Timeline October 28, 2010

| Row # | Scoping Plan Measure | Measure # | Page # | Responsible Agency (ies) (Lead in Bold) | Date of Board Hearing ¹ | Implementation Date | MMT CO ₂ E Reductions in 2020 [‡] | Type of Action (Regulation, Voluntary, etc.) | Staff Contact |
|-------|---|-----------|-----------------------|---|------------------------------------|--|---|--|------------------------------------|
| 1 | Pavley (AB 1493) | T-1 | C-57 | ARB | Sep-2004 (Approved) | 2009-2016 | 27.7 | Regulation | Paul Hughes |
| 2 | Ship Electrification at Ports (Discrete Early Action) | T-5 | C-66 | ARB | Dec-2007 (Approved) | 2010 | 0.2 | Regulation | Grant Chin |
| 3 | Port Dravage Trucks | T-6 | C-68 | ARB | Dec-2007 (Approved) | Beginning 2010 | 3.5 [§] | Regulation | Michael Tollstrup |
| 4 | Limit High GWP Use in Consumer Products (Discrete Early Action); Pressurized Gas Duster GWP Limit of 150 | H-4 | C-179 | ARB | Jun-2008 (Approved) | 2010 | 0.23 | Regulation | David Mallory |
| 5 | Heavy-Duty Vehicle GHG Emission Reduction (Aerodynamic Efficiency) (Discrete Early Action) | T-7 | C-73 | ARB | Dec-2008 (Approved) | Phased-In Schedule for large fleets: Beginning 2010; Final compliance 2013 | 0.93 | Regulation | David Chen |
| 6 | Motor Vehicle Air Conditioning Systems: Reduction of Refrigerant Emissions from Non-Professional Servicing (Discrete Early Action) | H-1 | C-175 | ARB | Jan-2009 (Approved) | 2010 | 0.26 | Regulation | Tao Huai |
| 7 | SF₆ Limits in Non-Utility and Non-Semiconductor Applications (Discrete Early Action) | H-2 | C-176 | ARB | Feb-2009 (Approved) | 2010 | 0.10 | Regulation | Elizabeth Scheehle |
| 8 | Reduction of Perfluorocarbons in Semiconductor Manufacturing (Discrete Early Action) | H-3 | C-177 | ARB , Local Air Districts | Feb-2009 (Approved) | 2012 | 0.18 | Regulation | Lynn Yeung |
| 9 | Tire Pressure Program (Discrete Early Action) | T-4 | C-63 | ARB | Mar-2009 (Approved) | 2010 | 0.74 | Regulation | Michael Tollstrup |
| 10 | Low Carbon Fuel Standard (Discrete Early Action) | T-2 | C-64 | ARB | Apr-2009 (Approved) | 2010 | 16 | Regulation | John Courtis |

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| 11 | Landfill Methane Control Measure (Discrete Early Action) | RW-1 | C-160 | ARB | Jun-2009 (Approved) | 2010 | 1.5 | Regulation | Richard Boyd |
| 12 | High-GWP Refrigerant Management Program for Stationary Sources - Stationary Equipment Refrigerant Management Program | H-6 | C-183 | ARB | Dec-2009 (Approved) | 2010 | 8 | Regulation | Pamela Gupta |
| 13 | Sulfur Hexafluoride (SF₆) Emission Reductions from the Electricity Sector | H-6 | C-186 | ARB | Feb-2010 (Approved) | 2011 | 0.02 | Regulation | Michelle Garcia |
| 14 | Energy Efficiency and Co-Benefits Audits for Large Industrial Sources | I-1 | C-150 | ARB | Jul-2010 (Approved) | 2010 | N/A | Regulation | Lisa Williams |
| 15 | Renewable Electricity Standard † | E-3 | C-126 | ARB, CEC, CPUC | Sep-2010 (Approved) | 2020 | 13.4* | Regulation | Dave Mehl |
| | Renewables Portfolio Standards (20% by 2010) | E-3 | C-126 | | Ongoing | 2010 | 7.9* | Various | Paul Douglas |
| 16 | Cap-and-Trade | | C-11 | ARB | Dec-2010 | 2012 | 34.4 | Regulation | Steven Cliff |
| 17 | Advanced Clean Cars | T-1 | C-56 | ARB | Jan-2011 | 2017 | 5.1 | Regulation | Paul Hughes |
| 18 | Commercial Recycling | RW-3 | C-161 | ARB, CalRecycle | TBD | TBD | 5** | Regulation | Tracey Harper |
| 19 | Alternative Suppressants in Fire Protection Systems | H-6 | C-187 | ARB , CalFire | TBD | TBD | 0.1 | Regulation | Elizabeth Scheehle |
| 20 | Foam Recovery and Destruction Program | H-6 | C-185 | ARB | TBD | TBD | 0.3 | Regulation | Glenn Gallagher |
| 21 | Mitigation Fee on High GWP Gases | H-7 | C-189 | ARB | TBD | TBD | 5 | Regulation | Elizabeth Scheehle |

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| 22 | Natural Gas Transmission and Distribution GHG Emission Reduction | I-3 | C-154 | ARB , Local Air Districts | TBD | TBD | 0.9 | Regulation | Win Setiawan |
| 23 | Oil and Gas Extraction GHG Emission Reduction | I-2 | C-153 | ARB , Local Air Districts | TBD | TBD | 0.2 | Regulation | Joe Fischer |
| 24 | Refinery Flare Recovery System Improvement | I-4 | C-155 | ARB , Local Air Districts | TBD | TBD | 0.33 | Regulation | Ron Oineza |
| 25 | Removal of Methane Exemption from Existing Refinery Regulations | I-5 | C-156 | ARB , Local Air Districts | TBD | TBD | 0.01 | Regulation | Reza Lorestany |
| 26 | Transport Refrigeration Units Cold Storage Prohibition and Energy Efficiency | T-6 | C-69 | ARB | TBD | TBD | 3.5 [§] | Regulation (cold storage) and Guidelines (energy efficiency) | Rod Hill |
| 27 | Stationary Equipment Refrigerant Management Program- Specifications for Commercial and Industrial Refrigeration | H-6 | C-182 | ARB, CEC | 2011 (CEC) | 2012 | 4 | Regulation | Pamela Gupta |
| 28 | Small Business Toolkit | NA | 86 | ARB | Apr-2009 (Approved) | Ongoing | NA | Voluntary | Kyra Naumoff |
| 29 | Local Government Toolkit | NA | C-54 | ARB | May-2009 (Approved) | Ongoing | NA | Voluntary | Dana Papke Waters |
| 30 | Goods Movement System-Wide Efficiency Improvements | T-6 | C-67 | ARB | TBD | TBD | 3.5 [§] | Voluntary | Peggy Taricco |
| 31 | Methane Capture at Large Dairies | A-1 | C-194 | ARB | TBD | TBD | 1** | Voluntary | Kitty Howard |
| 32 | Vessel Speed Reduction | T-6 | C-68 | ARB | TBD | TBD | 3.5 [§] | Voluntary /Regulation | Michelle Komlenic |

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| 33 | Cargo Handling Equipment-Anti-Idling, Hybrid, Electrification | T-6 | C-69 | ARB | TBD | TBD | 3.5 [§] | Voluntary | Cherie Rainforth |
| 34 | Commercial Harbor Craft-Maintenance and Design Efficiency | T-6 | C-69 | ARB | TBD | TBD | 3.5 [§] | Voluntary | Kirk Rosen-Kranz |
| 35 | Clean Ships | T-6 | C-68 | ARB | TBD | TBD | 3.5 [§] | Voluntary /Regulation | Peggy Taricco |
| 36 | Residential Refrigeration Early Retirement Program | H-6 | C-188 | ARB | TBD | TBD | 0.1 | Voluntary Incentive Partnership w/ Utilities | Pamela Gupta |
| 37 | Refrigerant Recovery from Decommissioned Refrigerated Shipping Containers | H-5 | C-181 | ARB | TBD | TBD | 0.2 | Regulation /Program | Tao Huai |
| 38 | Enforcement of Federal Ban on Refrigerant Release during Servicing or Dismantling of Motor Vehicle Air Conditioning Systems | H-5 | C-182 | ARB | TBD | TBD | 0.1 | Regulation Partnership | Tao Huai |
| 39 | Regional Transportation-Related Greenhouse Gas Targets | T-3 | C-74 | ARB, Local Governments, Regional Planning Agencies | Sep-2010 (Approved) | Set targets by 2010. Local actions have begun already in some areas | 5 | Various | Doug Ito |
| 40 | Medium- and Heavy-Duty Vehicle Hybridization | T-8 | C-73 | ARB | TBD | TBD | 0.5 | Various | Johanna Levine |
| 41 | Air Conditioner Refrigerant Leak Test During Vehicle Smog Check | H-5 | C-180 | ARB, BAR | TBD | TBD | 0.5 | Partnership | Tao Huai |
| 42 | Local Government Assistance | NA | C-49 | ARB , CalTrans, CEC, CTC, HCD, OPR | Ongoing | NA | NA | Various | Webster Tasat |
| 43 | N₂O collaborative research | NA | C-195 | ARB, CEC, CDFA | Ongoing | Sept. 2012 | NA | Voluntary | Shelby Livingston |

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| 44 | Sustainable Forest Target | F-1 | C-166 | Board of Forestry and Fire Protection | TBD | Through 2020 | 5 | Various | Shelby Livingston |
| 45 | Forest Conservation, Forest Management, Afforestation/Reforestation, Urban Forestry, and Fuels Management | NA | C-167 | CalFire | Ongoing | 2020 | Potentially 2** | Voluntary | Shelby Livingston |
| 46 | State Government | NA | C-25 | Cal/EPA , ARB, DGS | TBD | Ongoing | 1-2** | Various | John Blue |
| 47 | Tire Tread Program | T-4 | C-63 | CEC | 2010 | 2010 | 0.3 | Regulation | Ray Tuvell |
| 48 | Increase Renewable Energy Production (from Water sector) | W-5 | C-135 | CEC, CPUC | TBD | 2020 | 0.9** | Voluntary | Robert DuVall |
| 49 | Greening Existing Homes and Commercial Buildings | GB-1 | C-146 | CEC, CPUC | Ongoing | Ongoing | TBD | Voluntary/ Incentive | Dana Papke Waters |
| 50 | Energy Efficiency Measures (Electricity) | E-1 | C-99 | CEC, CPUC , ARB | Ongoing | Through 2020 | 15.2 | Various | Bill Knox |
| 51 | Greening New Residential and Commercial Construction (Green Building Code) | GB-1 | C-145 | CEC, CPUC, Building Standards Commission | Ongoing | Ongoing | TBD | Voluntary/ Incentive | Dana Papke Waters |
| 52 | Water System Energy Efficiency | W-3 | C-133 | CEC, CPUC , DWR, SWRCB | TBD | 2020 | 2** | Voluntary | Robert DuVall |
| 53 | Increasing the Efficiency of Landfill Methane Capture | RW-2 | C-160 | CalRecycle | Jun-2009 | 2020 | TBD** | Voluntary | Scott Walker |
| 54 | Increase Production and Markets for Compost (studies underway for data development) | RW-3 | C-161 | CalRecycle | 2009 | Ongoing | 2** | Voluntary | Gerald Beruman |

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| 55 | Extended Producer Responsibility (EPR) | RW-3 | C-162 | CalRecycle | Pending Legislation | 2020 | TBD** | Voluntary | Kathy Frevert |
| 56 | Anaerobic Digestion | RW-3 | C-162 | CalRecycle | TBD | 2020 | 2** | Voluntary | Clark Williams |
| 57 | Environmentally Preferable Purchasing (EPP) | RW-3 | C-162 | CalRecycle, DGS | TBD | TBD | TBD** | Voluntary | Bob Tetz |
| 58 | Solar Water Heating: AB 1470 | CR-2 | C-118 | CPUC | 2010 | 2020 | 0.1 | Incentive | Nicolas Chaset |
| 59 | Million Solar Roofs: 3,000 MW by 2017 | E-4 | C-120 | CPUC, CEC, ARB | Current Program | Through 2016 | 2.1 | Incentive | Nicolas Chaset |
| 60 | Increasing Combined Heat and Power Use by 30,000 GWh | E-2 | C-122 | CPUC, CEC, ARB | TBD | TBD | 6.7 | Various | Gary Collord |
| 61 | Energy Efficiency (Natural Gas) | CR-1 | C-99 | CPUC, CEC, ARB | Ongoing | Through 2020 | 4.3 | Various | Bill Knox |
| 62 | Greening New and Existing State Buildings | GB-1 | C-142 | DGS | Ongoing | Ongoing | TBD | Voluntary | Dana Papke Waters |
| 63 | Greening Public Schools | GB-1 | C-143 | DGS | Ongoing | Ongoing | TBD | Voluntary | Dana Papke Waters |
| 64 | Green Buildings | GB-1 | C-142 | DGS, ARB, CEC, CPUC, HCD | Ongoing | Ongoing | 26** | NA | Dana Papke Waters |
| 65 | Public Goods Charge for Water | W-6 | C-136 | DWR, ARB, CPUC, SWRCB | TBD | 2012 | TBD | Regulation | Robert DuVall |
| 66 | Water Use Efficiency | W-1 | C-132 | DWR, SWRCB, CEC, CPUC, ARB | Spring 2009 | 2020 | 1.4** | Various | Robert DuVall |

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| 67 | High Speed Rail | T-9 | C-85 | HSRA | NA | 2020 | 1 | NA | Kris Deutschman |
| 68 | Reuse Urban Runoff | W-4 | C-134 | SWRCB | TBD | 2020 | 0.2** | Regulation | Robert DuVall |
| 69 | Water Recycling | W-2 | C-133 | SWRCB, DWR | TBD | 2030 | 0.3** | Regulation | Robert DuVall |

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