

Multi-State ZEV Action Plan

Kathy M. Kinsey
Maryland Department of the Environment
July 17, 2014

California's ZEV Mandate

- ▶ Requires manufacturers to meet an increasing share of total sales in the state with battery electric vehicles (BEVs), Plug-In Hybrid Electric Vehicles (PHEVs), or Fuel Cell Vehicles (FCVs)
 - Beginning with MY2018 there is a significant increase in vehicle requirements
 - Requirement for 3.3 million ZEVs in ZEV Mandate states by 2025
- ▶ Maryland and eight other states (NJ, NY, CT, RI, MA, MN, VT, OR) have adopted California's ZEV program
- ▶ Identical to California's Program
- ▶ Manufacturers are free to develop their own preferred compliance strategy through different technologies and compliance flexibility mechanisms
- ▶ State ZEV programs key driver in the development of ZEVs
- ▶ Will be critical to ensure continued momentum
- ▶ ZEV Mandate driver for Governor's MOU



2

ZEV MOU

- ▶ California, Connecticut, Maryland, Massachusetts, New York, Oregon, Rhode Island, Vermont
- ▶ Eight of ZEV Mandate states
- ▶ Executed October 24, 2013
- ▶ Established Multi-State Task Force
- ▶ Key commitment – Development of ZEV Action Plan
 - Facilitate expansion of ZEV markets
 - Ensure auto manufacturers fulfill ZEV Mandate obligations



3

Multi-State Action Plan

- ▶ Finalized May 2014
- ▶ Informed by robust stakeholder process
 - Two day meeting with automakers
 - Establishment of state/automaker workgroups
 - Workshop with Northeast and Mid-Atlantic utilities, environmental advocates, EPRI representatives
- ▶ 11 specific recommendations to:
 - Facilitate interstate/regional coordination
 - Advise state-specific action



4

Action Plan Recommendations

- ▶ Work with automobile manufacturers and dealers to ensure that all models are available and aggressively marketed in our states
- ▶ Provide consumer financial and other incentives
- ▶ State lead-by-example through increasing EVs in government fleets
- ▶ Encourage private fleets to purchase, lease, or rent EVs
- ▶ Promote workplace charging
- ▶ Promote EV infrastructure planning and investment by public and private entities



5

Action Plan Recommendations

- ▶ Provide clear, accurate, and where possible, uniform signage for fueling and parking
- ▶ Develop model zoning, land use, building codes governing charging station infrastructure
- ▶ Promote access, compatibility and interoperability of charging network
- ▶ Remove barriers to retail sale of electricity and hydrogen as transportation fuels and promote competitive EV charging rates
- ▶ Track and report progress toward meeting goal of 3.3 million ZEVs on our roadways by 2025



6

What is Maryland Doing?

- ▶ Consumer Incentives:
 - Excise tax credit of up to \$3,000 based on battery size
 - HOV lane access
 - Residential rebate program (50% up to \$900) of costs for charging station equipment and installation at consumer residences
 - Commercial rebate Program for installation of EVSE
 - covers 50% of equipment and installation costs
 - up to \$5,000 for businesses and government entities
 - \$7,500 for retail service stations
- ▶ Consumer marketplace study (Maryland and several other states)



What is Maryland Doing?

- ▶ Infrastructure:
 - \$1 million for investment in Level 2 chargers at MARC and METRO stations
 - \$1 million for investment in Level 3 DC Fast Charger network across the State
 - EVSE is exempt from classification as electric service provider
 - **561** Level 2 chargers and **9** Level 3 DC Fast Chargers open to the public in Maryland as of June 2014



What is Maryland Doing?

- ▶ Green Fleets
 - 3 Plug-ins added to eligible fleet purchase list (Leaf, Volt, Prius Plug-in)
 - Maryland's EV fleet recommended goal: 25% of new fleet vehicles purchases by 2025
- ▶ PSC Charging Pilot Programs



What is Maryland Doing?

- ▶ Interstate Coordination:
 - Harmonize standards for signage across states
 - Coordinate fast charging network planning for interstate travel
 - Create consistent electricity regulatory framework
 - Share best practices for codes and standards, outreach, and data sharing

