



Item 4

Gold Book

State and Local Clean Air Measures

Presentation to: Air and Climate Public Advisory Committee
December 9, 2013



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The Gold Book

- Compendium of state and local actions that improve air quality
(but are not easily quantifiable or are not being credited in the SIP)
- First Version: 2004, Revised 2009 & 2013
- For each measure:
 - Description
 - Progress/status
 - Benefits



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2009 vs. 2013

2009 Gold Book

- Existing Programs
- Existing but Available for Expansion
- Potential Future Initiatives



2013 Gold Book

- Climate, Energy & Sustainability Plans
- Renewable Energy & Green Power
- Energy Efficiency Programs
- Stakeholder Initiatives & Partnerships
- Land Use & Transportation Coordination
- Transportation Options
- Transportation Demand Reduction
- Vehicle Emission Reduction
- Other Initiatives

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Climate, Energy & Sustainability Plans

- State plans:

Maryland



Virginia



- Regional plans:

MWCOG GHG Reduction Targets

Jurisdictions' Climate Action Plans

- Energy Security & Assurance Plans



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Renewable Energy & Green Power

- Renewable Portfolio Standards
- Government Renewable Energy Purchasing
 - DC Renewable Energy Goals (Wind & Solar Procurement)
- Private Sector Renewable Purchasing
 - Cooperative Solar Procurement
 - Community Energy Plans; Solarize Programs
- Federal Partnerships
 - Rooftop Solar Challenge
 - Green Power Partners & Communities



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Energy Efficiency Programs

- High Performance Buildings
 - Government Building Requirements
 - Commercial, Residential, Educational Facilities
 - IECC Building Codes
 - Benchmarking
- Energy Efficiency Financing
 - Energy Performance Contracting
 - High-performance buildings
 - Energy efficient purchases
- EERE Community Outreach
- Smart Grid & Advanced Metering



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Stakeholder Initiatives & Partnerships

- Public-Private Partnerships
 - Airports
 - Transit Agencies
 - Colleges & Universities
 - Electric & Water Utilities
- Clean Air Partners Program
- DC Sustainable Energy Utility
- MD Game Changers Program
- Federal Partnerships



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Land Use & Transportation Coordination

- Smart Growth Development
 - Regional Activity Centers
 - Strategic Investment Plan
- Transit-Oriented Development
 - Regional Transportation Priorities Plan
 - Transportation-Land Use Connections Program
 - Bonus Densities



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Transportation Options

- Public Transit
- Bus Rapid Transit & Bus Priority Enhancements
- Commuter Rail
- Bicycle & Pedestrian Programs
 - Capital Bike Share
 - Safety & Infrastructure Improvements
- Vehicle Share Programs
 - Car2Go, Enterprise
- Value Pricing (HOT Lanes)
 - I495 Express lanes, I95 Express Lanes, ICC



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Transportation Demand Reduction

- Commuter Connections
- Incident Management and Communication
MATOC
- Telecommuting
- Parking Management
- Safe Routes to Schools



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Vehicle Emission Reduction

- Low Emission Vehicles

- Plug-In Hybrids

- Electric Vehicles

- Compressed Natural Gas Vehicles



- Virginia Remote Sensing Program

- Voluntary Diesel Retrofit Program



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Community Initiatives

- Green Leasing
- Green Purchasing
- Workforce Development & Training
- Urban Heat Island Mitigation
- Regional Tree Canopy Plan



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Other Emission Reduction Measures

- VOC measures
 - Low-VOC Paint
 - Gas Can Replacement Program
 - Pesticides
 - Refueling After Dusk
 - Striping & Pesticide Application Deferred
- Episodic Measures
 - Lawn Mowing Deferred
 - High Electricity Demand Day Initiative



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Voluntary Bundle Measures

- Wind Energy Purchases
- Clean Energy Rewards Programs
- LED Traffic Signal Retrofits
- Renewable Portfolio Standards
- Building Efficiency/Green Buildings
- High Electricity Demand Day (HEDD) Initiative



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Additional Ideas

- Upgrade power plants
- Combined Heat & Power
- Waste-to-gas & Cogeneration
- Improve information access for energy efficiency & renewables financing
- Microgrids
- Green roofs & walls
- Hoteling



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Additional Ideas

- Update traffic and/or parking laws
- Eco Driving Programs
- Enhanced Idling Enforcement
- Traffic Signal Optimization
- Pay-as-you-drive insurance
- Parking impact fees
- Net Zero Emission Pledges
- Alternative fuel fleets: buses, taxis, delivery vehicles



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Discussion:

What measures should local governments implement to improve air quality?

What can be done to help local governments make traction on air quality measures?



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For more information

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