



## Gold Book

### State and Local Clean Air Measures

Presentation to: MWAQC Technical Advisory Committee  
January 7, 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)
  - 1495 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 & Fleets

- 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 & Pesticides
  - Gas Can Replacement Program
  - 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

- Regulate emergency, peak-shaving, and demand-response generators
- Eco Driving Programs
- Enhanced Idling Enforcement
- Traffic Signal Optimization
- Update traffic and/or parking laws
- Parking impact fees
- Pay-as-you-drive insurance
- Net Zero Emission Pledges



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## Schedule:

### MWAQC TAC:

Approve Framework & List of Measures - **January 7**

Review and Comment on Draft - **February 11**

Approve Final Draft - **March 11**

### MWAQC

Briefing, Review, Comment - **February 26**

Adopt - **April 23**



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## For more information

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