



Item #6
Rev.

Gold Book

State and Local Clean Air Measures

Presentation to: MWAQC TAC
March 11, 2014



Long History of Delivering Clean Air



Air Pollution Control Act 1968

“They truly can be proud of the efforts they have made and the achievements that have resulted.”

Remarks on signing the Clean Air Act, President Lyndon Johnson, December 1963



No Code Red Days 2005



Regulatory Mandates & Local Voluntary Initiatives



State Implementation Plans:
Federal and State Control Measures
Permanent and Federally Enforceable



*Wet Scrubber Installed at the
Morgantown Coal Plant - 2009*



COG Clean Air Rally - 1963

Local Measures: Voluntary
& Important



State and Federal Measures

Federal and State Measures Provide Significant Air Quality Benefits to the Region

- Power Plant Emission Limits
- Vehicle Emission Standards
- Fuel Sulfur Standards
- Fuel Efficiency Standards – Light Duty, Heavy Duty Trucks
- Non-road Locomotive Standards
- Product Formulations



Delivering Clean Air – A Legacy of Local Leadership

1970 COG begins issuing daily air quality readings

1974 COG's Commuter Club Formed

1985 Commuter Club Becomes RideFinders Network

1990 COG Adopts Million Tree Planting Resolution

1991 MWAQC Founded

1996 RideFinders Becomes Commuter Connections

1996 Ozone Action Days Program Begins

1997 ENDZONE Partners Founded

1997 Guaranteed Ride Home Launched

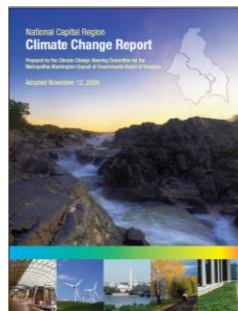
2000 ENDZONE Partners becomes Clean Air Partners

2000 20% Telework Goal Established with Board of Trade

2001 Bike To Work Day Program Launched

2008 Car Free Day Program Launched

2008 COG Climate Report Adopted



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



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 & 2014
- For each measure:
 - Description
 - Progress/status
 - Benefits
 - Opportunity for Expansion



2009 vs. 2014



2009 Gold Book

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

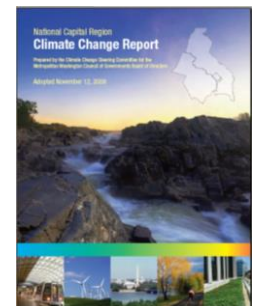
2014 Gold Book

- Climate, Energy & Sustainability Plans
- Regional Partnerships
- Green Power & Grid Modernization
- Energy Efficiency
- Transportation Demand Reduction
- Transportation Options
- Vehicle Emission Reduction
- New & Additional Ideas



Climate, Energy & Sustainability Plans

- State plans:
DC, Maryland &
Virginia
- MWCOG Regional Climate plan
- Local Jurisdictions' Climate Action Plans
- Local Jurisdictions' Air Quality Programs
- Energy Security & Assurance Plans



Regional Partnerships

- Clean Air Partners Program
- Cooperative Green Purchasing
- Urban Heat Island Mitigation
- Public-Private Partnerships

Airports

Colleges & Universities



Local Jurisdictions' Air Quality Programs



- Transportation Options, Reducing Congestion
- Alternative fueled vehicles
- VOC measures

Low-VOC Paint & Pesticides

Gas Can Replacement Program

Deferred Refueling, Striping & Pesticide Application

- Episodic Measures

Lawn Mowing Deferred

High Electricity Demand Day Initiative

- Tree Canopy & Green Space



Green Power & Grid Modernization

- Renewable Portfolio Standards
- Government Renewable Energy Purchasing

Green Power Partners & Communities

DC Renewable Energy Goals, MCDGS Solar RFP



- Private Sector Renewable Purchasing

Cooperative Solar Procurement, Community



- MD Game Changers Program

- Rooftop Solar Challenge



Energy Efficiency

- Energy Efficiency Financing

PACE, On-bill-repayment, Green Banks

Energy Performance Contracting

- High Performance Buildings

Government & Private Building Requirements

Building Codes, Green Leasing

- DC Sustainable Energy Utility



Land Use & Transportation Coordination

- Smart Growth Development

Regional Activity Centers

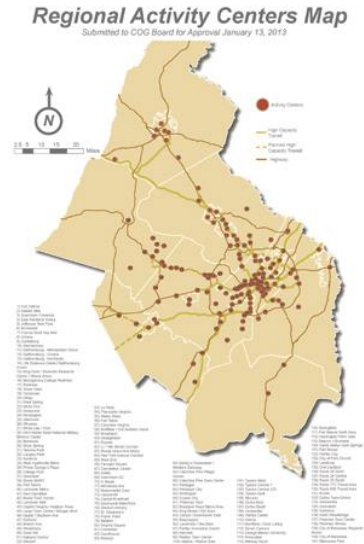
Strategic Investment Plan

- Transit-Oriented Development

Regional Transportation Priorities Plan

Transportation-Land Use Connections Program

Bonus Densities



Transportation Demand Reduction

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



SafeRoutes
National Center for Safe Routes to School



Transportation Options

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



Vehicle Emission Reduction

- Low Emission Vehicles & Fleets

 - Plug-In Hybrids

 - Electric Vehicles

 - Compressed Natural Gas Vehicles



- Enhanced Idling Enforcement

- Virginia Remote Sensing Program

- Diesel Retrofits

- Traffic Signal Optimization



Additional Ideas

- Microgrids
- Combined Heat & Power
- Waste-to-gas & Cogeneration
- Regulate Diesel Generators



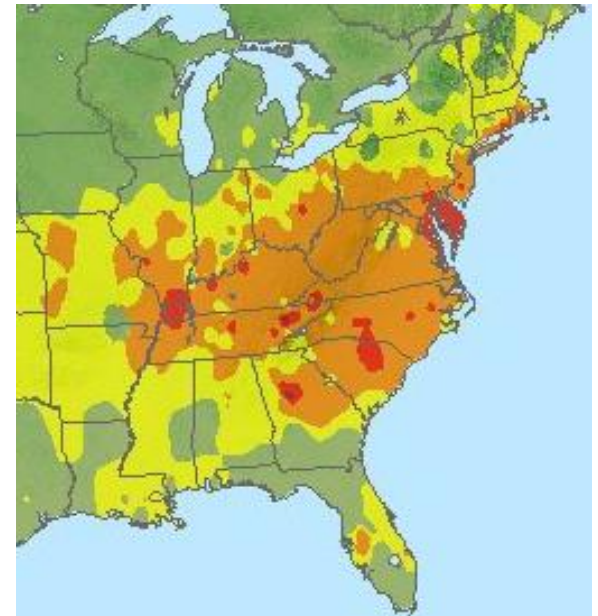
Additional Ideas

- Usage-based insurance
- Eco-driving Programs
- Parking management / impact fees
- Hoteling



New Challenges and Opportunities for MWAQC, State, and Local Leadership

- New Lower NAAQS? 75 → 60-70 by 2015-2020
- Use of Generators on High Electric Demand Days
- Use of Controls on Power Plants
- Low-Level NO_x +
Transported Pollution
- Addressing Mobile, Area,
and Non-road Emissions



What's Next?

- Comments on [draft](#) due **by March 31**
Framework, Content, Format
- **How can we make this a useful tool for local governments?**
 - Awareness
 - Implementation



What's Next?

- Areas of Possible Focus
 - EV & CNG fleets, Fueling Infrastructure
 - Smart Growth & Green Infrastructure
 - Clean Distributed Generation/Intelligent Grid
 - Transport Behaviors: telework, bicycling, eco-driving, usage-based insurance



Schedule:

MWAQC TAC:

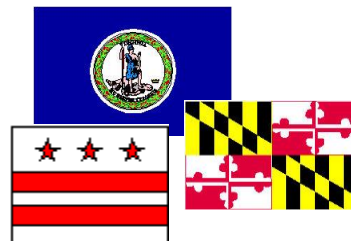
Approve Framework & List of Measures - **January 7**

Review and Comment - **February/March 11**

MWAQC

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

Approve for Release – **May 28**



For more information

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Draft: <http://www.mwkog.org/uploads/committee-documents/ZV1ZW1tW20140225162014.pdf>

