



Gold Book

State and Local Clean Air Measures

Presentation to: TPB Technical Committee
June 6, 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.”

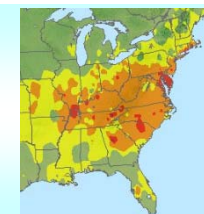
Remarks on signing the Clean Air Act, President Lyndon Johnson, December 1963



No Code Red Days 2005



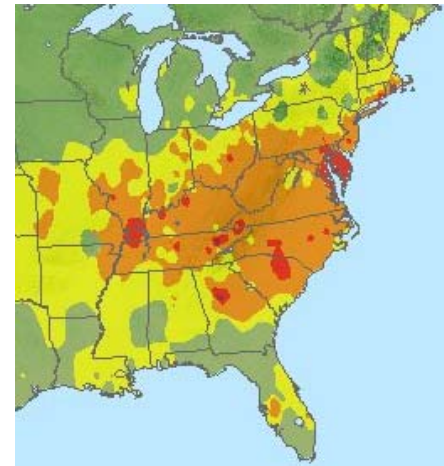
Air Quality Standards (NAAQS) Challenges and Opportunities



	NAAQS Date	Effective Designation Date/Classification	SIP Status	Attainment Status
1-Hour Ozone Standard (125 ppb)	1979	January 6, 1992/Serious, March 25, 2003/Severe	Submitted 2004	Attained in 2005
8-hour Ozone Standard (84 ppb)	1997	June 15, 2004/Moderate	Submitted 2007	Attained in 2009
PM2.5 Standard (15 ug/m3)	1997	April 5, 2005/not applicable	Submitted 2008	Redesignation Request Submitted in 2013
8-hour Ozone Standard (75 ppb)	2008	July 20, 2012/Marginal	No SIP required	Attainment Deadline of 2015
Possible New 8-hour Ozone Standard Under Consideration by EPA	2014?	Pending?	Pending?	Anticipated Attainment Deadline of 2020?

State Implementation Plans (SIPs)

- EPA/Clean Air Act Requirement for Non-Attainment Areas
- SIP = Air Quality Plan for the Region
- SIPs typically include:
 - Emission Inventories
 - Adopted Control Measures
 - Attainment Demonstration
 - Contingency Plan



SIP Control Measures: Regulatory Mandates & Local Voluntary Initiatives

State Implementation Plans:

- Federal & State Control Measures
- Permanent, and Federally Enforceable



COG Clean Air Rally - 1963

Local Measures:
Voluntary & Important

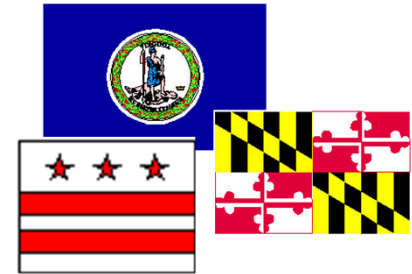


*Wet Scrubber Installed at the
Morgantown Coal Plant - 2009*

Federal and State Mandatory 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
- Non-road Vehicle Standards
- Product Formulations
- Building Codes and Appliance Standards
- Motor Vehicle Emission Budgets (MVEBs)



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

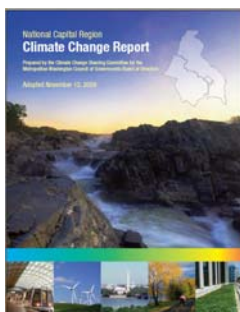
2000 ENDZONE Partners becomes Clean Air Partners

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 – Included in the SIP

- Wind Energy Purchases
- Clean Energy Rewards Programs
- LED Traffic Signal Retrofits
- Renewable Portfolio Standards
- Building Efficiency/Green Buildings
- Urban Heat Island/Tree Planting
- 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 every 5 years: 2009 & 2014

For each measure:

- Description
- Progress and status
- Opportunities for Expansion
- Benefits to Air Quality



Process and Schedule:

MWAQC Requests Update to Gold Book in Fall 2013
COG Staff Update Fall/Winter

MWAQC-TAC:

Approve Framework & List of Measures – **January 7**
Review and Comment – **February/March 11**

ACPAC:

Review – **December - March**

MWAQC:

Briefing, Review, Comment – **February 26**
Approve for Release – **July**

We Welcome TPB Tech Input



2009 vs. 2014



2009 Gold Book

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



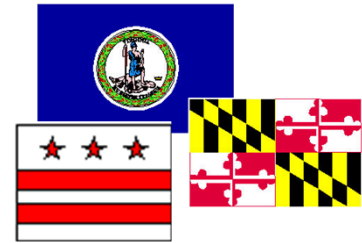
2014 Gold Book

- 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
- Regional Plans
- Local Climate Plans
- Local Government Air Quality Programs
- Energy Security & Assurance Plans



Climate, Energy & Sustainability Plans: Local Government Air Quality Programs



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

Low-VOC Paints & Pesticides

Gas Can Replacement

Deferred Refueling, Striping & Pesticide Application

- Episodic Measures

Lawn Mowing Deferred

High Electricity Demand Day Initiative

- Tree Canopy & Green Space



Regional Partnerships

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



Green Power & Grid Modernization

- Renewable Energy Portfolio Standards
- Local Government Green Power Purchases
- Community Renewable Energy Purchasing
- Maryland Game Changers Program
- Rooftop Solar Challenge



Energy Efficiency

- Energy Efficiency Financing
 - PACE, On-bill-repayment, Green Banks
- Energy Performance Contracting
- Sustainable Energy Utility
- High Performance Building Codes
- Green Leasing
- Smart Grid & Advanced Metering



Transportation Demand Reduction

- **Transit-Oriented Development**

 - Regional Transportation Priorities Plan

 - Transportation-Land Use Connections Program

 - Bonus Densities

- **Smart Growth Development**

 - Regional Activity Centers

 - Strategic Investment Plan



Transportation Demand Reduction

- Commuter Connections
- Telecommute Initiatives
- Safe Routes to Schools
- Incident Management & Communication



SafeRoutes
National Center for Safe Routes to School



Transportation Options

- Public Transit
- Commuter Rail
- Bus Priority Enhancements
- Value Pricing (HOT Lanes)
- Vehicle Share Programs
- Bicycle & Pedestrian programs



Vehicle Emission Reduction

- Alternative Fuel Vehicles
- Traffic Signal Optimization
- Idling & Emissions Enforcement
- Voluntary Diesel Retrofit program



New & Additional Ideas

- Microgrids
- Combined Heat & Power
- Biogas & Cogeneration
- Eco Driving
- Usage-Based Insurance
- Parking Management
- Hoteling



Next Steps

- **MWAQC's Air and Climate Public Advisory Committee (ACPAC) has asked:**

How can we make this a useful tool for local governments?

- Identify Cost Effective Strategies
- Identify Priority Measures
- Assist Local Governments Implement Measures



For more information

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Draft: <http://www.mwkog.org/uploads/committee-documents/al1YXlpa20140530124636.pdf>

