

# The Gold Book

Voluntary State and local government initiatives to clean the air

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**FINAL DRAFT – 2014 REVISION**

**PRESENTATION TO MWAQC  
JULY, 31, 2014**

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## Long History of Delivering Clean Air

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*"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*

*COG celebrates first year with  
No Code Red Days in 2005*



## Legacy of Local Leadership Delivering Clean Air

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- 1970: COG begins issuing daily air quality readings
- 1974: COG's Commuter Club formed
- 1990: COG adopts Million Tree Planting resolution
- 1991: MWAQC founded
- 1996: Ozone Action Day program begins
- 1997: ENDZONE Partners founded
- 2000: ENDZONE becomes Clean Air Partners
- 2000: 20% Telework Goal established with BOT
- 2001: Bike to Work Day launched
- 2008: Car Free Day launched
- 2008: COG Board Adopts NCR Climate Report
- 2014: Commuter Connections celebrates 40 years



## Air Quality Challenges and Opportunities

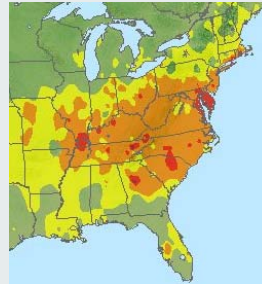
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Standard	NAAQS Date	Effective Designation Date/Classification	SIP Status	Attainment Status
1hr Ozone (125 ppb)	1979	January 6, 1992/Serious, March 25, 2003/Severe	Submitted 2004	Attained in 2005
8hr Ozone (84 ppb)	1997	June 15, 2004/Moderate	Submitted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

## State Implementation Plans (SIPs)

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- Air Quality Plan for the Region
- Permanent, Federally Enforceable
- EPA / Clean Air Act Requirement for Non-Attainment Areas
- SIPs typically include:
  - ✦ Emission Inventories
  - ✦ Adopted Control Measures
  - ✦ Attainment Demonstration
  - ✦ Contingency Plan



## Federal & State Mandatory Measures

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- Power Plant Emission Limits
- Vehicle Emission Standards
- Fuel Sulfur Standards
- Fuel Efficiency Standards
- Non-road Vehicle Standards
- Product Formulations
- Building Codes and Appliance Standards
- Transportation Control Measures (TCMs)



*Wet Scrubber Installed at Morgantown Coal Plant - 2009*

## Voluntary Bundle - Local Measures Included in SIP

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### Quantifiable & Enforceable

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



## The Gold Book

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- Compendium of voluntary state and local actions that improve air quality
  - Not in Voluntary Bundle - difficult to quantify or enforce
  - First version: 2004, revised in 2009 & 2014
- Goals:
  - Improve awareness of initiatives around the region
  - Identify opportunities for expansion
  - Learn and borrow from other local governments



## 2014 Revision Process and Schedule

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- **MWAQC:**
  - Requests Update to Gold Book – Sept 2013
  - First Draft Briefing, Review - February 26, 2014
  - *Approve Final Draft – July 2014*
- **MWAQC-TAC Review**
  - Approve Framework & List of Measures - January 7, 2014
  - First & Second Draft Briefing, Review - February-May 2014
- **ACPAC Review**
  - First & Second Draft Briefing, Review - December 2013-March 2014
  - Comments submitted - April 4, 2014
- **TBP-Tech Review**
  - Second Draft Briefing, Review - June 6, 2014
  - COG DTP comments submitted – June 19, 2014



## 2014 Revisions

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- **Structure**
  - Changed from implementation status to subject area
- **Content**
  - New initiatives added, past programs removed
  - Updated information on regional implementation with assistance from COG DEP and DTP staff
  - Modified in response to comments received from: MWAQC, MWAQC-TAC, ACPAC, TPB-Tech and COG staff

## Climate, Energy & Sustainability Plans

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- State Climate & Energy Plans
- Regional Climate Plan
- Local Climate & Energy Plans
- Energy Security & Assurance Plans
- Local Air Quality Plans

## Local Government Air Quality Plans

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- Transportation Options
  - Public transit
  - Bicycle & pedestrian initiatives
- Vehicle Emission Reduction
  - Reduce idling & congestion
  - Alternative fuel vehicles
- VOC-reducing measures
  - Low VOC-paints, defer refueling, striping & pesticide application
- Episodic Measures
  - High Electricity Demand Day Initiative
- Tree Canopy & Green Space



(Not a comprehensive list)

## Regional Partnerships

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- **Clean Air Partners**
  - Educational & public awareness programs
- **Green Cooperative Purchasing**
- **Urban Heat Island Mitigation**
  - Cool roofs & pavements
  - Green streets policy
  - Tree Canopy Management
- **Public-Private Partnerships**
  - Higher Education
  - Airports



## Green Power & Grid Modernization

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



## Energy Efficiency

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



## Transportation Demand Reduction

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- **Transit-Oriented Development**
  - Regional Activity Centers, Strategic Investment Plan
- **Commuter Connections**
  - Car & vanpool matching, "Pool Rewards," Bike to Work Day
- **Telecommute Initiatives**
- **Safe Routes to Schools**





## Transportation Options

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- Public Transit
- Commuter Rail
- Bus Priority Enhancements
- Variably Priced Lanes
- Vehicle Share Programs
- Bicycle & Pedestrian programs



## Vehicle Emission Reduction

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- Alternative Fuel Vehicles
- Traffic Signal Optimization
- Idling & Emissions Enforcement
- Voluntary Diesel Retrofit program
- Incident Management & Communication
  - MATOC & Safety Service Patrols



## New & Additional Ideas

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### Energy:

- Microgrids
- Combined Heat & Power
- Biogas & Cogeneration
- Hoteling



### Transportation:

- Eco-Driving
- Usage-Based Car Insurance
- Parking Management



## Next Steps

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In response to ACPAC and TPB-Tech comments:

- **Provide resources to make the Gold Book a more useful tool for regional local governments**
  - Identify priority measures
  - Identify cost-effective measures
  - Assist local governments in implementing or expanding initiatives to improve regional air quality

## For More Information

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### Draft available at:

[http://www.mwkog.org/environment/committee/committee/documents.asp?COMMITTEE\\_ID=14](http://www.mwkog.org/environment/committee/committee/documents.asp?COMMITTEE_ID=14)