



Gold Book

State and Local Clean Air Measures

Presentation to: MWAQC Technical Advisory Committee
December 10, 2013



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



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

Climate, Energy & Sustainability Plans

- State plans:

Maryland



Virginia

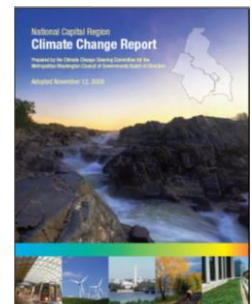


- Regional plans:

MWCOG GHG Reduction Targets

Jurisdictions' Climate Action Plans

- Energy Security & Assurance Plans



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



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



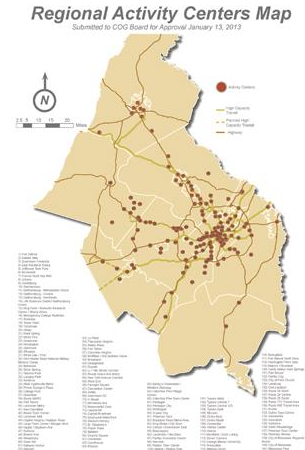
Stakeholder Initiatives & Partnerships

- 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



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 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



Transportation Demand Reduction

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



Vehicle Emission Reduction

- Low Emission Vehicles

 - Plug-In Hybrids

 - Electric Vehicles

 - Compressed Natural Gas Vehicles



- Virginia Remote Sensing Program

- Voluntary Diesel Retrofit Program



Community Initiatives

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



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



Voluntary Bundle Measures

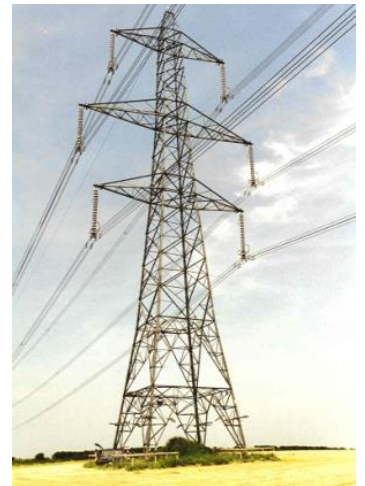


- Wind Energy Purchases
- Clean Energy Rewards Programs
- LED Traffic Signal Retrofits
- Renewable Portfolio Standards
- Building Efficiency/Green Buildings
- High Electricity Demand Day (HEDD) Initiative



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



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



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?



For more information

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