

Voluntary Local Government Initiatives



for MWAQC Work Session

June 28, 2006



EPA Voluntary Measure Guidance

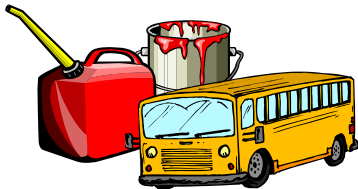
***Enables states to place non-regulatory
pollution control strategies in a SIP***

- States take credit for voluntary programs reducing future emissions.
- Local programs rely on the actions of individuals, businesses, governments, agencies
- States must backfill shortfalls in a timely manner (allows for program substitution)
- Measures are enforced against the states.



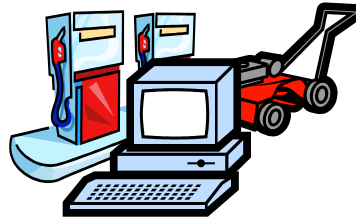
Examples of Voluntary Measures

Non-Episodic Measures



- Replace gas cans
- Buy low-VOC paint
- Retrofit diesel vehicles

Episodic Measures



- Lock Fuel Pumps
- Telework
- No lawn mowing



Maximum Voluntary SIP Credit

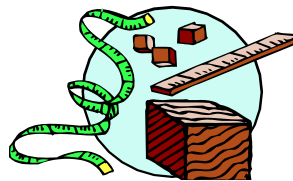
- Total SIP credit potential is 9%
 - Voluntary Mobile Source Emission Reduction (3%)
 - Voluntary Stationary Source Emission Reduction (3%)
 - Voluntary Emission Reduction from Electric-sector Energy Efficiency and Renewable Energy Measures (3%)
- Reduction Potential
 - 9% = 7.8 tpd VOC or 9.4 tpd NO_x
 - 6% = 5.2 tpd VOC or 6.3 tpd NO_x
 - 3% = 2.6 tpd VOC or 3.1 tpd NO_x

(estimates based on 2008 RFP)



Voluntary Reductions Must Be:

- Quantifiable
- Surplus (i.e., not otherwise used to meet air quality goals)
- Enforceable
- Permanent



1- Hour SIP Voluntary Bundle



Voluntary Measure	Commitment	Emission Reduction
<i>Reductions Credited</i>		
Low-VOC Consumer Products	Virginia	3 tpd VOC
Wind Power Purchase	Montgomery, Arlington	0.05 TPD NOx
Gas Can Replacement	Montgomery, M-NCPPC, Prince George's, Fairfax, Prince William, Arlington	0.01 tpd VOC
Use of Low-VOC Paint	MDOT, Fairfax, M-NCPPC, Prince George's	0.17 tpd VOC
Reduce Locomotive Idling	Virginia Railway Express (VRE)	0.01 tpd VOC/0.13 NOx
<i>Included, But No Credit Taken</i>		
Alternative Fueled Vehicle Purchase	Montgomery, M-NCPPC, Prince George's, Fairfax	NA
Remote Sensing Device	Virginia	NA
Diesel Retrofits (School and Transit Buses)	Fairfax	NA





Local Initiatives ("Bundle")

- Wind Energy Purchases
- Renewable Portfolio Standards
- LED Traffic Signal Retrofits
- Energy Performance Contracting
- Bus and Truck Retrofits
- Idling Reduction
- Enhanced Enforcement
- Episodic Programs



Mid-Atlantic
Diesel Collaborative
on the route to cleaner air

EPA Guidance Energy Efficiency and Renewables

- EPA Guidance:
 - promotes energy efficiency and renewables as control measures in SIPs
 - sets procedure to quantify and validate emission reductions
- Qualifying projects:
 - reduce energy usage
 - generate energy with fewer emissions



EERE Considerations for Allowance Allocations

- The NOx Budget Trading Program/SIP Call establishes a regional NOx emission cap and allowance trading program.
- Under a cap and trade framework, in order for the emission reduction from measures to be “Surplus”, the State must establish a mechanism to retire allowances or create a set-aside.



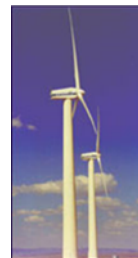
Procedure for Quantifying EERE SIP Credits

- Step 1: Estimate the energy savings or change in energy generation
- Step 2: Convert the energy changes into an estimated emission reduction
- Step 3: Determine the impact from the estimated reduction on air quality in the nonattainment area (modeling)
- Step 4: Provide a mechanism to validate the effectiveness of the project (monitoring, recordkeeping, and reporting)



Potential EERE Credits in Washington Region

- Wind Energy Purchase Program
- Renewable Portfolio Standards
- LED Traffic Signal Retrofits
- Green Building Codes
- Solar Photovoltaics for Schools



EPA Guidance Diesel Retrofits

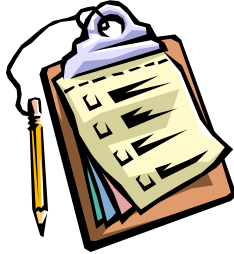
- EPA Guidance:
 - Promotes retrofit of on- and off-road diesel equipment.
 - Credits can be used in the SIP or for Conformity.
 - Can establish trading mechanism in SIP to facilitate non-road retrofit projects.



Commitment Requirements



Signed Letter



**Program Details
Estimate of Benefits**



**Program
Effectiveness
Report**

Agree to monitor program and provide annual reports on program participation/effectiveness



Next Steps

- Develop emission reduction estimates.
- Consider implementation requirements, including monitoring and verification.
- Secure commitments from jurisdictions.

