

# MARAMA 2015

## 2015 ANNUAL REPORT



*Wind and solar power capacity is growing in our region.*

### Helping Members Improve Air Quality

A voluntary association of ten state and local air pollution control agencies, MARAMA strengthens the skills and capabilities of member agencies and helps them work together to prevent and reduce air pollution impacts in the Mid-Atlantic Region.

This report highlights our accomplishments from October 2014 through September 2015.

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## CSX Train Derailment in West Virginia

On February 16, 2015 twenty-seven rail cars derailed from a 109-car CSX train carrying more than three million gallons of crude oil near Mt. Carbon, WV. The derailment impacted air quality with the subsequent explosion and fires. The EPA worked closely with the West Virginia Department of Environmental Protection to ensure that proper cleanup by CSX minimized any immediate or lasting environmental impacts of the derailment.



## Significant Air Quality Improvements

The MARAMA region has achieved significant improvements in air quality. Having met air quality standards the following nonattainment areas were redesignated from nonattainment to maintenance in FY 2015:

- One area met the 2008 ozone standard (0.075 ppb): Charlotte-Rock Hill NC
- Four areas met both the 1997 annual  $PM_{2.5}$  standard of  $15 \mu g/m^3$  and the 2006 24-hour  $PM_{2.5}$  standard of  $35 \mu g/m^3$ : Philadelphia PA-Wilmington DE, Harrisburg-Lebanon-Carlisle PA, Johnstown PA, and Lancaster PA.
- Six areas met the 1997 annual  $PM_{2.5}$  standard of  $15 \mu g/m^3$ : Metro Washington, DC/MD/VA, Baltimore MD, Martinsburg WV-Hagerstown MD, Reading PA, York PA, and Allentown PA.

Although Baltimore continued to be designated nonattainment for ozone, on June 1, 2015 EPA published a determination that the Baltimore area had met the 2008 ozone standard (a clean data determination). In addition, EPA determined the Lyons area in PA had data meeting the lead standard but retained its nonattainment status. EPA relieved both areas from the responsibility to submit attainment demonstrations.

Early in FY 2015 (in December 2014) EPA proposed revisions to the National Ambient Air Quality Standard for Ozone. When finalized in October 2015, just after the end of this fiscal year, this action would lower the NAAQS from the standard set in 2008 (0.075 ppm) to 0.070 ppm.

## Diesel Projects Active in FY 2015

### Early Replacement (Trucks replaced with model year 2008 or newer.)

Owners replaced eight dray trucks in DE, PA, and VA ports under MARAMA DERA 2014 grant.

Under the MARAMA DERA truck replacement program in DE, PA, and VA, owner operators contributed an additional \$158,541 above the required match dollar amount of \$240,000.

### Diesel Engine Retrofits

MARAMA helped owners retrofit six dray trucks with diesel oxidation catalysts for the Virginia Port under VA DERA.

Four construction cranes were retrofitted in Pittsburgh under MARAMA's grant from the Allegheny County Health Department.



MARAMA hosted 3 Mid-Atlantic Diesel Collaborative webinars:

- DERA Projects Update. Representative from each MARAMA state gave updates of their projects. Rosalva Tapia from EPA spoke on Future DERA opportunities. (February 2015)
- Health Effects of Diesel Exhaust. Speaker was Rashid Shaikh, Director of Science from the Health Effects Institute. (May 2015)
- Clean Air Strategy for NY and NJ. Speaker was Bill Nurthen, General Manager, Port Authority of NY and NJ. (September 2015)

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## MARAMA Support for State Implementation Plans

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MARAMA continued to improve regional emissions inventories for use in State Implementation Plans (SIPs). FY 2015 saw considerable activity with respect to ozone and regional haze. MARAMA completed a 2011 regional emissions inventory and projected emissions key future years for ozone (2018) and regional haze (2028). In response to a national determination that ozone SIPs should focus on 2017 rather than 2018, MARAMA initiated final changes to the 2011 inventory and prepared to project it to 2017.

MARAMA worked closely with states and EPA to use the best available data. Work on these projects was facilitated by MARAMA's Emissions Modeling Framework (EMF). Based on EPA's EMF, MARAMA's EMF is a great tool for managing the very large emissions inventory files needed to model ozone and PM<sub>2.5</sub> for the region. MARAMA utilized EMF to apply state-approved growth and control factors to the 2011 inventory for non-EGU stationary sources to create projections for future years. EMF was also useful in helping states prepare PM<sub>2.5</sub> emissions inventories needed to support requests to redesignate nonattainment areas.

In collaboration with experts from EPA, various states, and other regional associations MARAMA also improved forecasts of future emissions from electricity generating units (EGUs), mobile sources, and oil and gas operations. MARAMA's Senior Engineer, Julie McDill helped present a training session at EPA's national emissions inventory conference on the ERTAC-EGU emissions forecasting tool and helped organize and coordinate that national effort.

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### Expanding Training Opportunities

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*"The speakers were all very good and experts in their fields, as well as good communicators and presenters. It was a pleasure to learn from their concise explanations."*

Renu  
Chakrabarty (WV  
DEP)

MARAMA's  
Workshop on Air  
Quality and Health

In FY 2015, MARAMA organized numerous training events to help member agency staff understand pollution control requirements and monitoring methods.

- Nine in-person courses covered topics including NO<sub>x</sub> Emissions, NSR/PSD, Ambient Monitoring, Air Pollution Control Devices, Asbestos, Regional Haze SIP Training, and Permitting,
- The topics for our three workshops were: Air Quality and Health, Advancements in the Science of Air Quality Modeling, and Air Quality Monitoring.
- MARAMA hosted eighteen on-line webinars with over a thousand participants attending. The webinars covered topics including: AERMOD for Non-Modelers, On-line Tools for Monitoring Network Assessment, Introduction to Air Pollution Emission Inventory Preparation, Predicting Air & Health Impacts of Construction, Mobile Emissions True-Up, Clean Air Strategy for NY and NJ, SQL Basics for EMF Users, and EMF Growth and Control.
- MARAMA also provided travel support for forty-eight members to attend thirteen national and regional conferences or meetings.

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#### Number of Participants per Agency for FY 2015

Allegheny County	65
Delaware	66
District of Columbia	55
Maryland	159
New Jersey	143
North Carolina	99
Pennsylvania	199
Philadelphia	67
Virginia	159
West Virginia	72
<b>TOTAL</b>	<b>1,084</b>

## 2015 MARAMA Awards



*Tony Sadar*

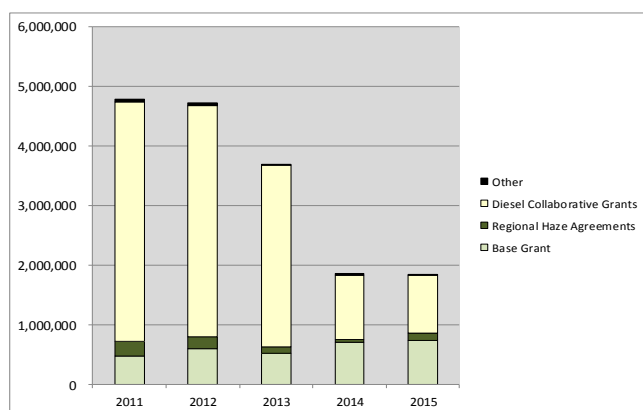
MARAMA's success depends on collaborative efforts by staff from member agencies. Each year MARAMA Air Directors present an award to recognize those individuals whose contributions have been outstanding. The **2015 MARAMA Outstanding Service Award** went to:

- **Tony Sadar** of Allegheny County in recognition of the improvements he has made to regional emissions inventories and his very popular MARAMA webinar course on AERMOD for Non-Modelers that attracted more than 750 participants.

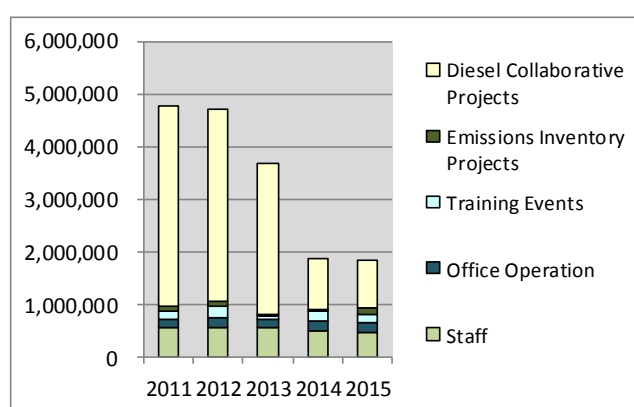
## Base Funding Increased, Diesel Funding Declined

Funds for projects funded by Diesel Collaborative Grants declined steeply in 2014. Major funding from the Recovery Act had been available in 2011 and 2012, and MARAMA's major SmartWay dray truck replacement project was completed in 2013 and 2014. Diesel Collaborative projects in 2015 included the Allegheny County Pennsylvania Construction Equipment Project and continuing DERA grants from FY 2012 and 2014. Revenues from MANE-VU increased as a 4-year grant was closed out and projects completed, including work on the 2018 and 2028 emissions projections. Expenses for staffing and office operations remained consistent with past years.

### Revenue



### Expenses



## MARAMA Staff and Directors

Jackie Burkhardt joined MARAMA in February 2015 to share the job of Training Coordinator with Sue Dilli. Sue and Jackie both work part-time and do a great job coordinating MARAMA's training program with the help from Administrative Assistant Sharon Ray. They help create a service oriented team outlook at MARAMA.

### Board of Directors, 2015

**Ali Mirzakhali**, Delaware, Chair  
**William F. Durham**, West Virginia, Vice-Chair  
**Michael G. Dowd**, Virginia, Treasurer  
**George S. "Tad" Aburn, Jr.**, Maryland  
**Cecily M. Beall**, District of Columbia  
**Joyce E. Epps**, Pennsylvania  
**Jayne Graham**, Allegheny County  
**Sheila Holman**, North Carolina  
**Thomas Huynh**, Philadelphia  
**William O'Sullivan**, New Jersey

### MARAMA Staff, 2015

**Susan S.G. Wierman**, Executive Director  
**Julie R. McDill, P.E.**, Sr. Environmental Engineer  
**Jackie Burkhardt**, Co-Training Coordinator  
**Sue A. Dilli**, Co-Training Coordinator  
**Deborah L. Thomas**, Diesel Program Manager  
**Susan A. McCusker**, Environmental Scientist  
**Sheri Buttarazzi**, Office Manager  
**Sharon C. Ray**, Administrative Assistant