



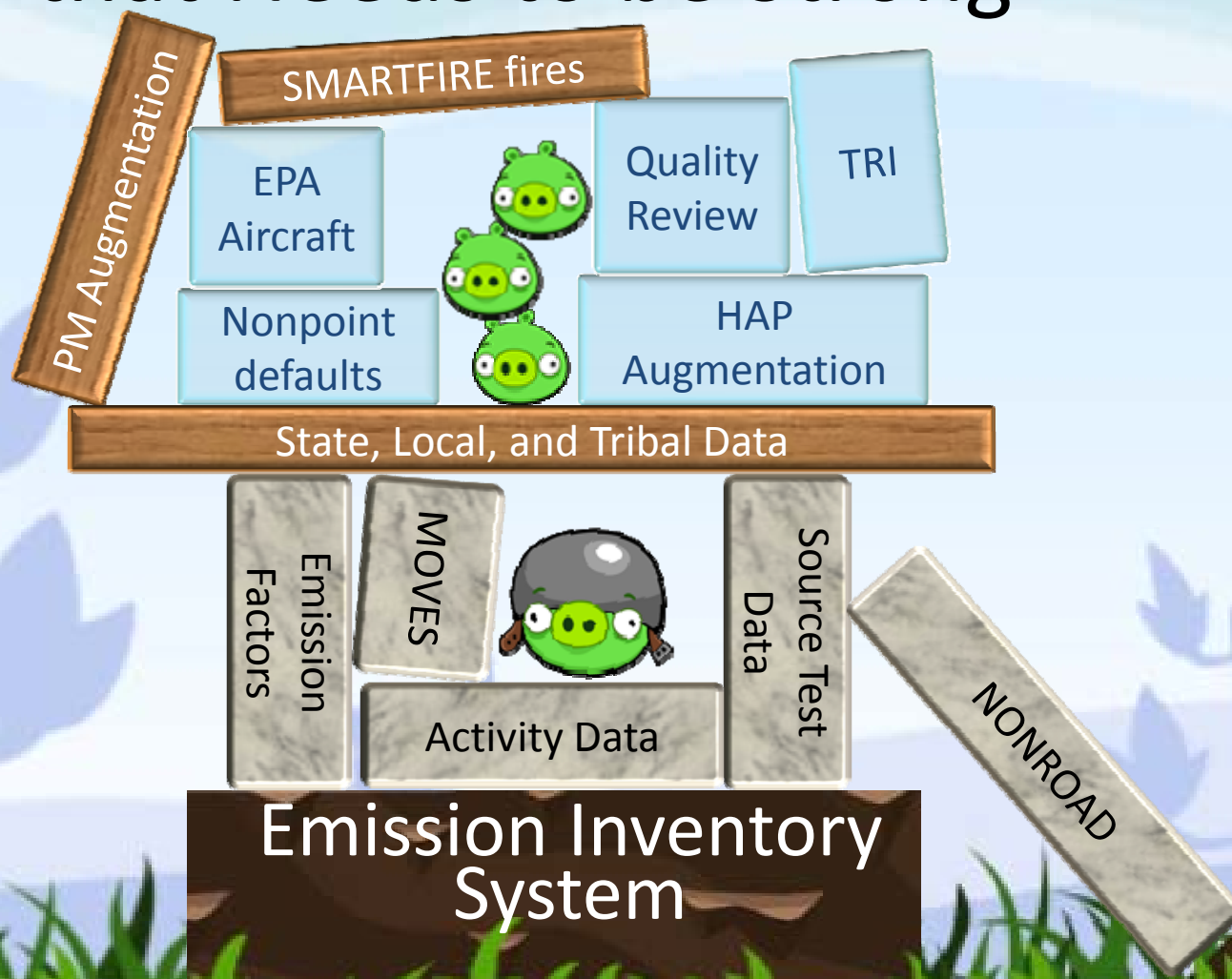
National Emissions Inventory: why it matters, current status, and where we're going

Marc Houyoux
Office of Air Quality Planning and Standards, US EPA
20th International Emission Inventory Conference
August 14, 2012

Meeting the Challenges Posed by Emerging Global, National, Regional, and Local Air Quality Issues



The NEI is Like a Composite Structure that Needs to be Strong



A Strong Inventory Means...



- Complete – no holes
- Defensible when used
 - “The data were the best available information at the time”
- Timely
- Representative
 - For the inventory year
 - Results of using it in modeling match well to ambient air measurements
- Transparent – we know and can explain to others where the data comes from

EIS Has Been a Successful Foundation for the 2008 NEI

- Successfully created 3 versions of the 2008 NEI to date
- Successfully collected 2009, 2010 NEI data
- NEI staff spend more time on data analysis and QA than prior to EIS
- EIS provides a platform on which to further improve the NEI process and data

Decision Makers Rely on a Strong National Emissions Inventory

International Treaties and Reporting

Cross State Air
Pollution Rule

Mercury and
Air Toxics
Standard

NATA

Regulatory Impact Assessments

NAAQS
Designations



Monitor
Locations

Emissions Trends

NEI



"EPA Cross-State Emissions Rule Put on Hold by Court" - Business Week – Jan 4, 2012



"EPA's new rule to affect coal-, oil-fired plants" - Washington Post – Dec 21, 2011



"EPA Defends Cross-State Air Pollution Rule to U.S. Court" - Bloomberg – Mar 1, 2012

"Power industry braces for court air pollution ruling" - Chicago Tribune: July 9, 2012



"Tuscaloosa, Jefferson among top 20 at-risk counties." Press-Register (Mobile, AL) 25 Jun, 2009, 02, A: 04.

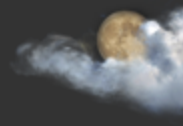
"Crematorium plans met with protests." Arizona Daily Star - 15 Feb, 2007



NEI

"Prescribed burns beneficial to land and animals." Ocala Star-Banner (FL) 9 Nov. 2008





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ENVIRONMENT

Tonawanda Coke agrees to reduce benzene emissions

BY JANICE L.
HABUDA

NEWS STAFF REPORTER

Published:
July 21, 2011, 12:00
AM

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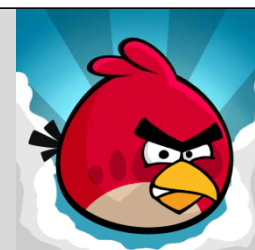
Updated: July 21, 2011, 9:22 AM

Benzene emissions from Tonawanda Coke Corp. will continue to fall under agreements signed this week between the company and regulatory agencies, officials announced Wednesday.

Regional leaders from the federal Environmental Protection Agency and the state Department of Environmental Conservation discussed the agreements at a news conference outside the Kenmore-Town of Tonawanda Municipal Building, where they also announced that grants totaling \$230,000 have been awarded to two groups involved in local environmental efforts.

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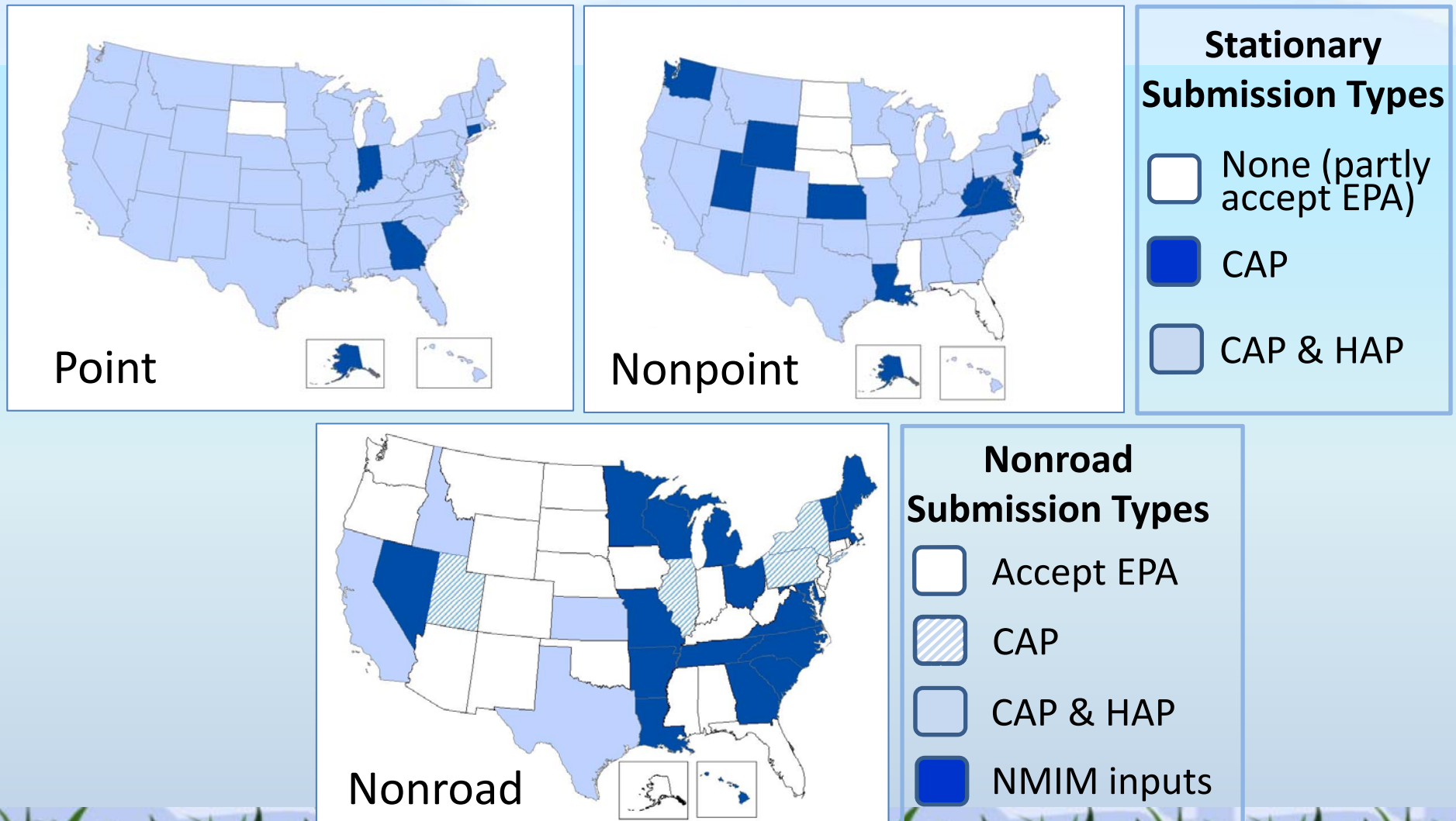


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The NEI Relies on Participation for its Strength

- The Air Emissions Reporting Rule
 - Requires annual total criteria pollutant emissions from all sources and seasonal emissions in some areas
 - “Potential to emit” thresholds for point sources
 - Legal basis is partly the “periodic inventory” requirements in the Clean Air Act for State implementation of the NAAQS
- Hazardous Air Pollutants are collected through voluntary participation
 - EPA’s uses of HAPs from the NEI are not voluntary
- EPA augments both CAP and HAP emissions to help strengthen the data

2008 NEI Participation Was Extensive



Tools for an Even Stronger 2011 NEI

- Communication
 - EPA Plans (<http://www.epa.gov/ttn/chief/net/2011inventory.html>)
 - What do you need from EPA?
 - Let us know your plans
 - NEI staff are reviewing 2011 data as it comes in
- Enhanced EIS QA
- New emissions approaches
 - MOVES, SMARTFIRE2
 - Updated nonpoint methods
 - Priority point source list
- New post-submission QA approaches and review plans

The Four Most Important Goals for the NEI

- Complete
- Represents the year of the inventory
- Uses best available information
- Transparent - includes the emissions origin

What You can Do Next

- Participate in the process as much as possible and with the goal of providing good data on time. Use the four goals as a guide.
- Communicate your intentions to EPA and follow through.
- Embrace continued improvement in methods and approaches.
- Tell your decision makers and collaborators why the NEI is important and help influence resource decisions.

