

U.S. EPA Region 4 Regulatory Update

Southern Transportation and Air Quality Summit

Louisville, KY

August 20, 2019

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U.S. Environmental Protection Agency, Region 4

Atlanta, GA



Today's Topics

Administrative Updates

Air Program Update

- Air Quality Improvements
- Progress on NAAQS Implementation
- Clean Air Act Regulatory and Policy Activity
- Voluntary Activities

Questions



New Senior Management



Mary S. Walker
Regional Administrator
EPA Region 4



Beverly H. Banister
Acting Deputy Regional Administrator
EPA Region 4



Air and Radiation Division

Air and Radiation Division

Carol L. Kemker, Acting Director

Ken Mitchell, Deputy Director

Immediate Office Staff

Stuart Perry, Chief, Grants & Strategic Planning Office

404-562-9077

Air Planning & Implementation Branch

404-562-9057

Scott Davis

(Todd Rinck, Acting)

Air Analysis & Support Branch

404-562-9105

Gregg Worley

Air Permits Section

404-562-9185

Heather Ceron

(Kelly Fortin, Acting)

Air Data & Analysis Section

404-562-9062

Todd Rinck

(Rick Gillam, Acting)

Air Regulatory Management Section

404-562-9040

Lynorae Benjamin

Communities & Air Toxics Section

404-562-9014

Amber Davis

New Organization



Plans for FY18 and Beyond

The 2018-2022 Strategic Plan charts the course for advancing EPA's priorities and mission to protect human health and the environment



<https://www.epa.gov/planandbudget>



Leaning EPA

EPA is Implementing a Lean Management System (ELMS)

EPA Desires:

Continuous improvement through problem solving at the level closest to the work

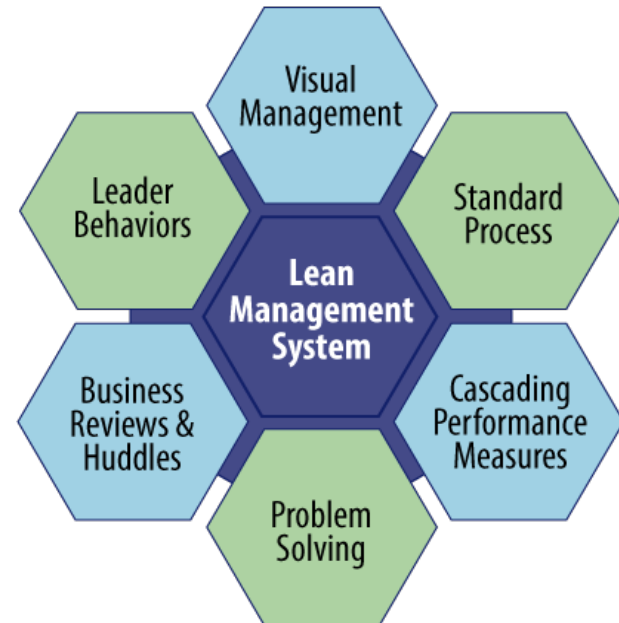
Continuous improvement based on respect for the people doing the work

Accountability to the process without blaming people

Sustainment of gains from its improvement efforts

Development and adherence to standard processes

LEAN MANAGEMENT SYSTEM

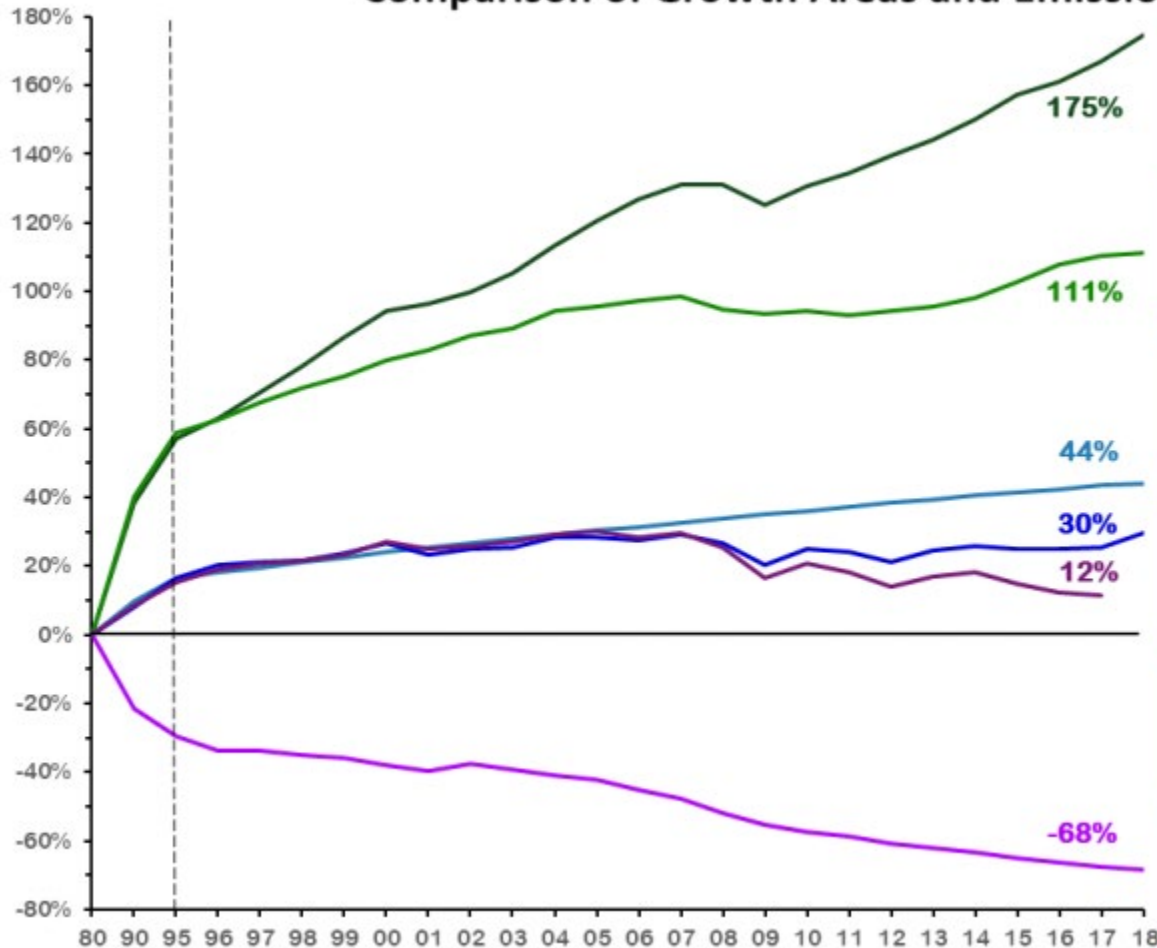


<http://intranet.epa.gov/lean/lms/index.html>



Comparison of Growth vs Emissions

Comparison of Growth Areas and Emissions, 1980-2018



Gross Domestic Product



Vehicles Miles Traveled



Population



Energy Consumption



CO₂ Emissions



Aggregate Emissions
(Six Common Pollutants)



Progress on Ozone and PM_{2.5} Attainment in Region 4

OZONE	1997 NAAQS (2004 Designations)	2008 NAAQS (2012 Designations)	2015 NAAQS (2018 Designations)
Initial Nonattainment Areas	14	5	3
Areas Redesignated to Attainment	14	5	0
Current Nonattainment Areas	0	0	3

PM _{2.5}	1997 PM _{2.5} NAAQS (2005 Designations)	2006 PM _{2.5} NAAQS (2009 Designations)	2012 PM _{2.5} NAAQS (2015 Designations)
Initial Nonattainment Areas	11	2	0
Areas Redesignated to Attainment	11	2	0
Current Nonattainment Areas	0	0	0



EPA Focus Areas – National and Region 4

Region 4 is working with its stakeholders to implement the regulatory requirements of the Clean Air Act and to look for risk reduction opportunities through voluntary efforts

National Program Focus Areas

- NAAQS
- Affordable Clean Energy Rule
- MATS
- Methane Rule - oil/gas (40 CFR 60, 0000)
- NSR
- CAFE Standards



Updating the NAAQS Review Process

- **May 9, 2018:** EPA Administrator outlines five principles for EPA to follow in future NAAQS reviews
 - Meet statutory deadlines;
 - Address all CAA provisions for NAAQS reviews;
 - Streamline and standardize the process for development and review of key policy-relevant information;
 - Differentiate science and policy judgments in the NAAQS review process; and
 - Issue timely implementation regulations and guidance



NAAQS Reviews

(August 2019)

	Ozone	Lead	Primary NO ₂	Primary SO ₂	Secondary (Ecological) NO ₂ , SO ₂ , PM ¹	PM ²	CO
Last Review Completed (final rule signed)	Oct. 2015	Sept 2016	April 2018	Feb 2019	Mar 2012	Dec 2012	Aug 2011
Recent or Upcoming Major Milestone(s)	<u>Fall 2019</u> Draft ISA and Draft PA ³ <u>Early 2020</u> Proposal <u>Late 2020</u> Final	TBD ⁴	TBD	TBD	<u>Timing of next steps is TBD</u> Final ISA; draft REA/PA	<u>Summer/Fall 2019</u> Draft PA <u>Early 2020</u> Proposal <u>Late 2020</u> Final	TBD

Additional information regarding current and previous NAAQS reviews is available at: <http://www.epa.gov/ttn/naaqs/>

¹ Combined secondary (ecological effects only) review of NO₂, SO₂, and PM

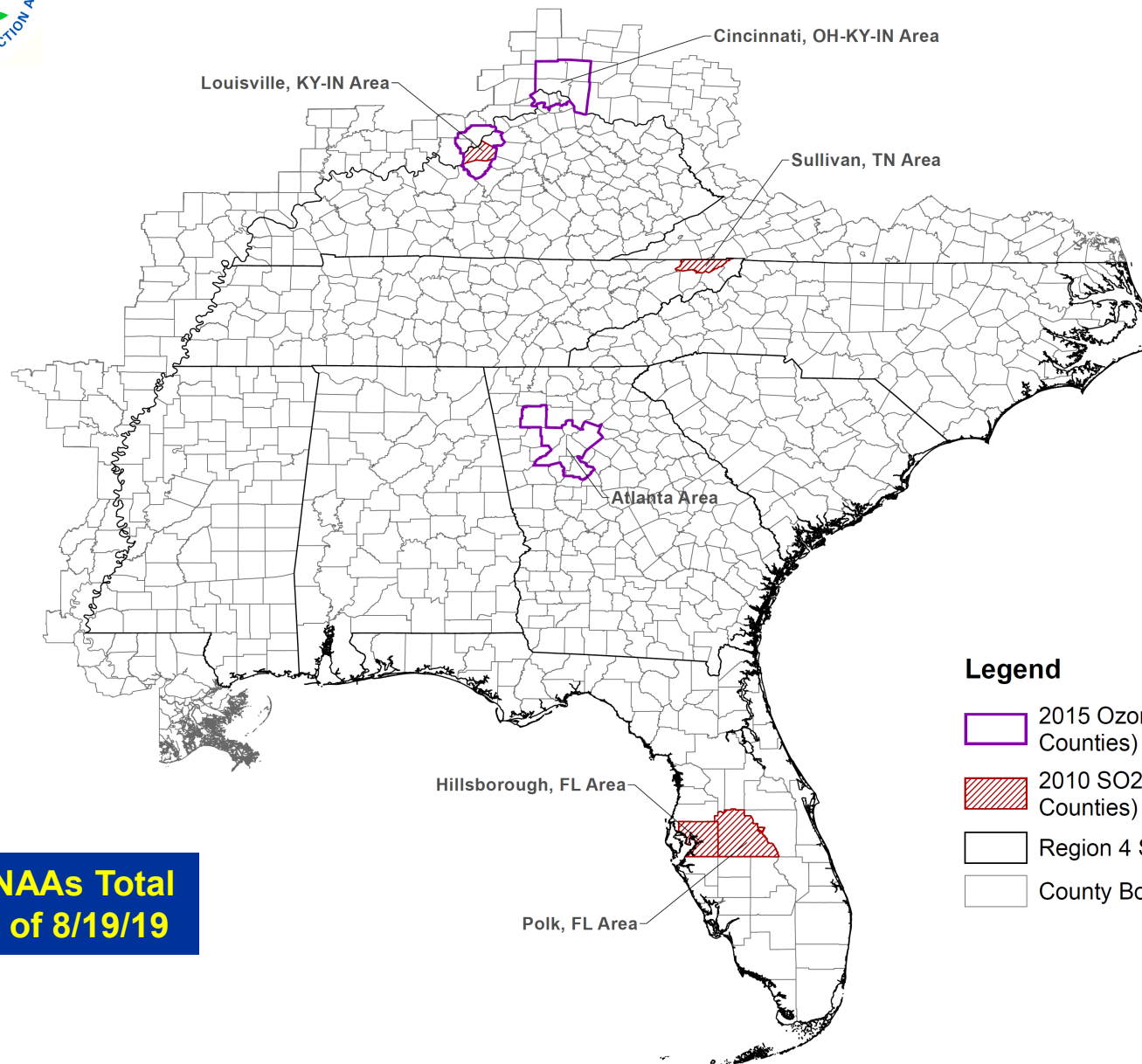
² Combined primary and secondary (non-ecological effects) review of PM

³ IRP – Integrated Review Plan; ISA – Integrated Science Assessment; REA – Risk and Exposure Assessment; PA – Policy Assessment

⁴ TBD = To be determined



Current R4 Nonattainment Areas (all NAAQS Pollutants)



Legend

- 2015 Ozone NAAQS Current NAA (Partial Counties)
- 2010 SO₂ NAAQS Current NAA (Partial Counties)
- Region 4 State Boundary
- County Boundary

**7 NAAs Total
as of 8/19/19**



Updates to the CAFE Standards

8/14/18 – In conjunction with the National Highway Traffic Safety Administration, EPA proposed the Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule for the Model Years 2021-2026 Passenger Cars and Light Trucks

- Rule proposes to amend certain existing CAFE and GHG standards for passenger cars and light trucks for model years 2021 – 2026]
 - The preferred alternative would retain the MY 2020 standards
 - Reflects a balance of safety, economics, technology, fuel conservation, and pollution reduction
- The comment period ended October 26, 2018.

<https://www.epa.gov/regulations-emissions-vehicles-and-engines/safer-affordable-fuel-efficient-safe-vehicles-proposed>



Renewable Fuel Standards

11/30/18 – Renewable Fuel Standards (RFS) Updates

- EPA finalized volume requirements under the RFS program for 2019 for cellulosic biofuel, biomass-based diesel, advanced biofuel, and total renewable fuel, and biomass-based diesel for 2020
- Proposed volume standards for 2020 and the Biomass-Based Diesel Volume for 2021

<https://www.epa.gov/renewable-fuel-standard-program/regulations-and-volume-standards-renewable-fuel-standards>



MOVES2014b

- **8/2018 – Minor Release Update**

- most recent version of EPA's motor vehicle emissions model for state and local agencies
- updated to improve estimates of emissions from nonroad mobile sources.
- does not significantly change the onroad criteria pollutant emissions results of MOVES2014 and not considered a new model for the SIP and transportation conformity purposes

- **Updates:**

- nonroad growth estimates for every sector
- nonroad diesel Tier 4 emission rates
- nonroad diesel fuel sulfur levels
- adds chemical mechanisms
- Adds quality of life updates to user interface and documentation



Diesel Emission Reduction Act (DERA) Grants

- **2019 Grants Cycle**

- Application Deadline was 3/26/2019
- Selections made in late Spring 2019
- Funding of Awards Summer-Fall 2019

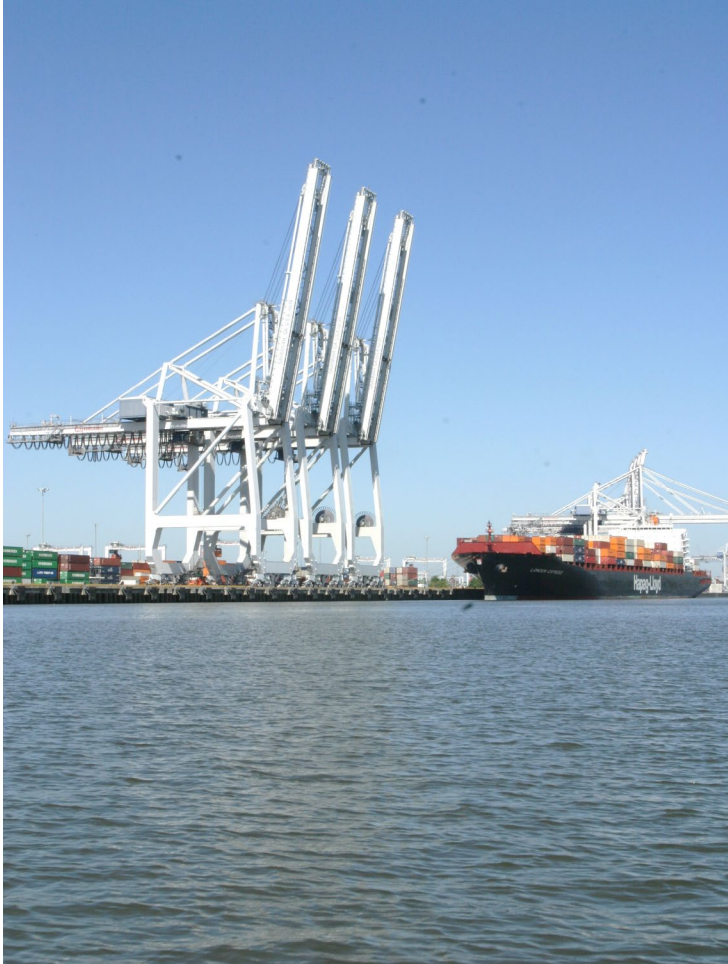
- **2020 Grants Cycle**

- Status of RFP

<https://www.epa.gov/cleandiesel/clean-diesel-national-grants>



Ports Initiative



- **EPA's Ports Initiative works in collaboration with the port industry, communities, and all levels of government to:**
 - improve environmental performance
 - increase economic prosperity
 - help people living and working near ports breathe cleaner air
- **DERA Funded Projects 2008 – 2018**
 - Port of Miami-Cranes
 - Port Everglades-Retrofits/Cranes
 - JAXPORT-Retrofits (state DERA)
 - Port of Charleston-RTGs, Dray, Biofuel, Locomotive
 - Port of Savannah-RTGs, Locomotive Idle, Dray fleets
 - Port of Mobile-Locomotives
 - Port of Louisville-Tug Repowers

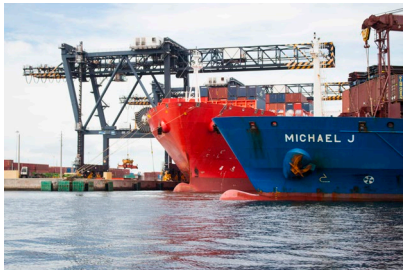


Ports Initiative



Savannah Pilot Project:

- Tested tools and techniques to build port/community relationship
www.epa.gov/ports-initiative/pilot-projects-port-and-near-port-community-collaboration



EPA-Port Everglades Partnership:

- Completed Emission Inventory with the Port enabling cost effective strategy for emission reductions
- Serves as a model and provides tools for other ports

<https://www.epa.gov/ports-initiative/epa-and-port-everglades-partnership-emission-inventories-and-reduction-strategies>



Atlanta Rail and Port Sensor (RAPS) Project:

- Evaluating low cost sensors for deployment in area community wide networks
- Developing standard operating procedures to enhance data collection and quality



Voluntary Programs and Successes

- Advance Program
- Southeast Diesel Collaborative (SEDC)





Advance Program

The Advance Program promotes local actions in attainment areas to reduce ozone and/or fine particle pollution ($PM_{2.5}$) to help these areas continue to maintain the National Ambient Air Quality Standards (NAAQS).

Program Goals:

- Help attainment areas ensure continued health protection
- Better position areas to remain in attainment
- Efficiently direct available resources toward actions to address ozone and $PM_{2.5}$ problems quickly

**Upcoming 5th Annual Forum:
November 5-7, 2019 in Atlanta, GA**

Participants in Region 4

SC – entire state
Catawba Tribe, SC
Middle GA (including Robins Air Force Base)
Louisville, KY
Cumberland County, NC
(including Fort Bragg)
Charlotte, NC
NC – Entire State

ADVANCE
A U.S. Environmental Protection Agency Program

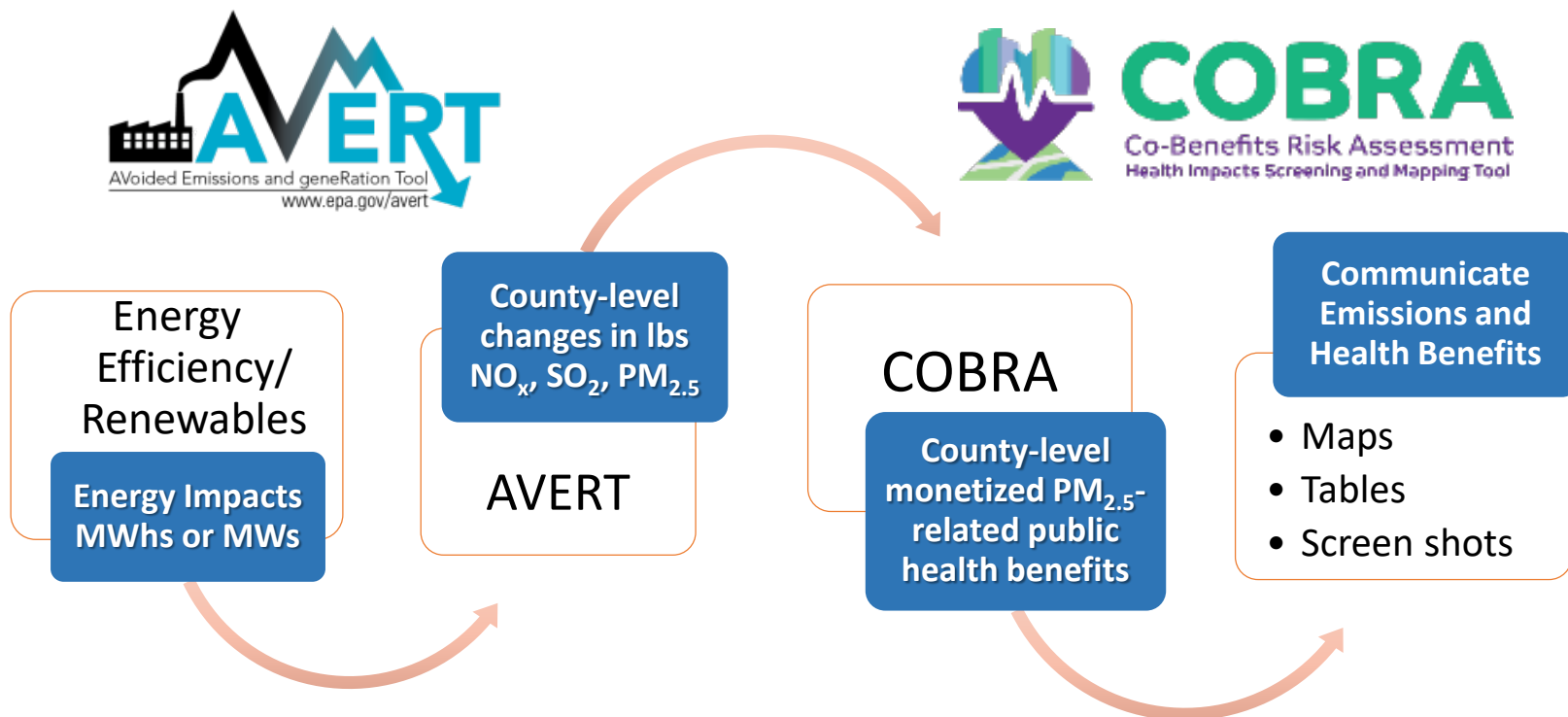
**EPA Region 4 contact: Kelly Sheckler 404-562-9222; sheckler.kelly@epa.gov
<https://www.epa.gov/advance>**



Air Quality and Health Benefits Quantification

EPA is uniquely positioned to provide public health related tools and resources:

- **Updated AVERT and COBRA** – now you can more easily estimate AQ and Health benefits of energy efficiency and renewable energy programs using both tools together.





Southeast Diesel Collaborative (SEDC)

- Voluntary public/private partnership formed in 2006 (part of the National Clean Diesel Campaign), focused on clean diesel opportunities that incorporate Energy, the Environment and Economics
- Diverse Partners from government, industry, state/local groups with the goal of improving air quality and public health by reducing emissions from existing diesel engines
- Annual funding under the Diesel Emissions Reduction Act (DERA)
- Upcoming 14th Annual Partners Meeting is scheduled for September 24 – 26, 2019 in Chattanooga, TN





Questions?

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