

December 4, 2018

The ABC's of Air Quality Regulation

Presented at the 2018 ACEEE Conference on Health, Environment & Energy Conference

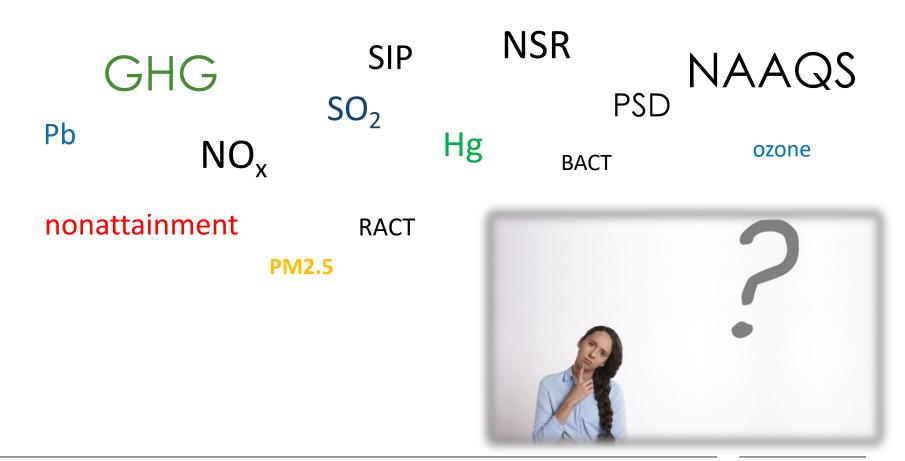
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Air quality regulation acronymania...



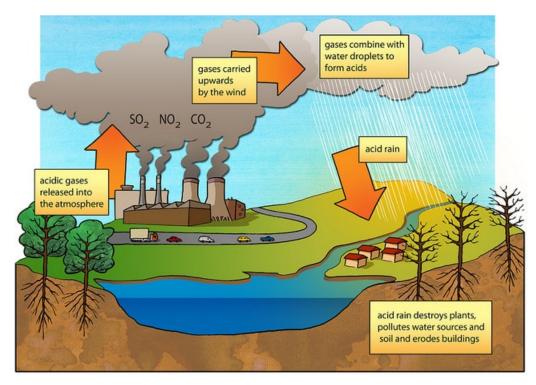
Overview

- What are all those acronyms?
- Which pollutants matter?
- How does the regulation process work?
- What's the role of state and local agencies, and US EPA?
- Where can you make a difference?

Which pollutants matter?



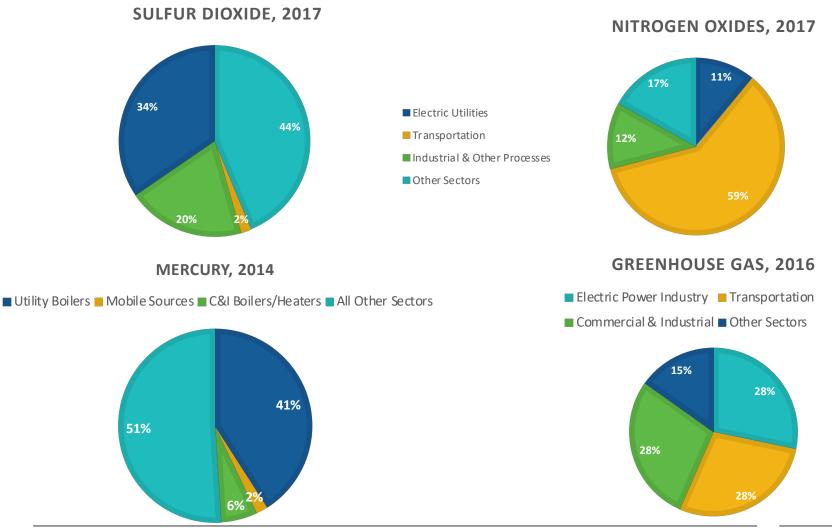
Nitrogen Oxide impacts



Source: flickr.com

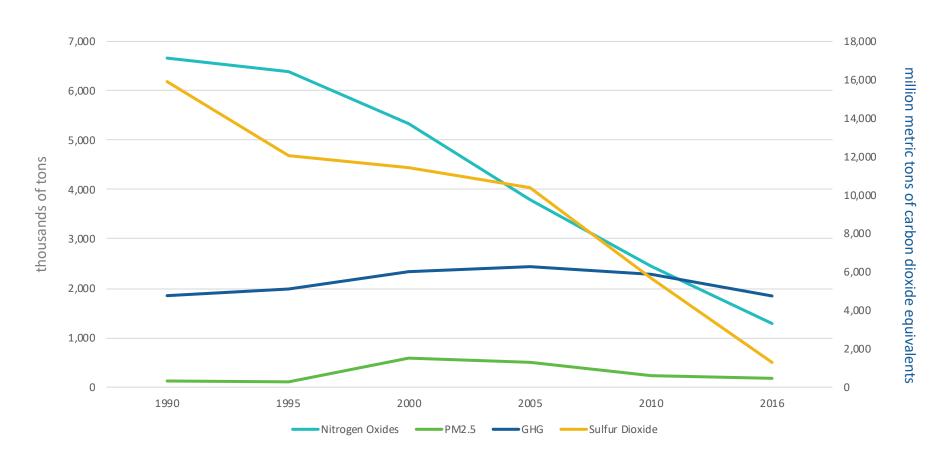
- Acid Rain and Transported Pollution
- Visibility Impairment
- Water Body
 Eutrophication
- Ground-level Ozone (Smog)
- Fine Particle Health Impacts

US pollutants of concern



Sources: Sulfur Dioxide, Nitrogen Oxides - U.S. EPA National Emissions Inventory, 2017; Mercury - U.S. EPA 2014; GHG - U.S. EPA 2018

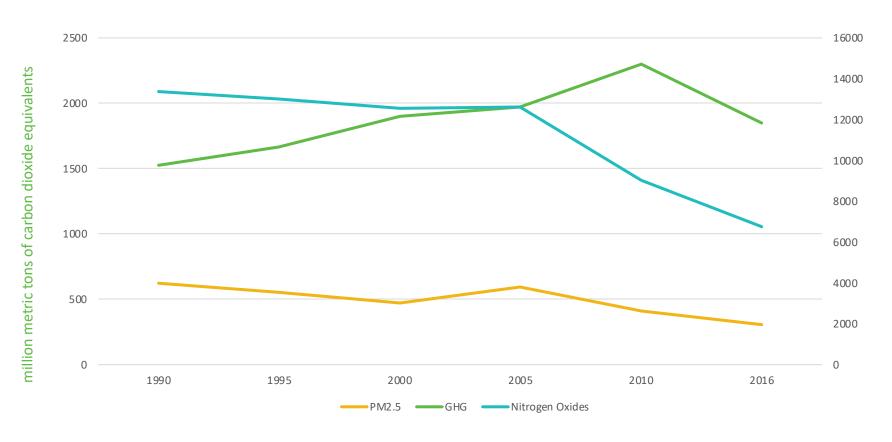
Electric sector emissions



Sources: U.S. EPA National Emissions Inventory, 2017, https://www.epa.gov/sites/production/files/2018-01/documents/2018_executive_summary.pdf

thousands of tons

Transportation sector emissions



 $Sources: \hbox{U.S. EPA National Emissions Inventory, 2017, https://www.epa.gov/sites/production/files/2018-01/documents/2018_executive_summary.pdf}$

The Regulatory Process



Roles and responsibilities

- EPA
- State and local agencies
- National ambient air quality standards (NAAQS)
- Nonattainment
- State Implementation Plan (SIP)
- Plan, monitor, enforce, revise

Steps in the regulatory process

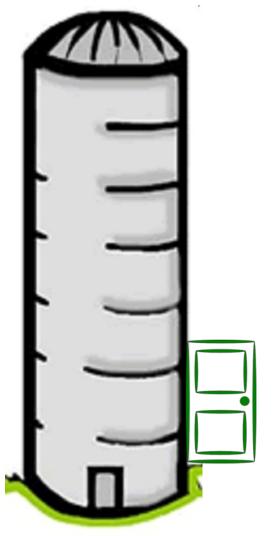
- Stakeholder group(s)
- Proposal
- Comment period
- Final regulation
- Implementation
- Review and revision

What can you do?

- Learn more about air pollution in your area
 - E.g., 4cleanair.org, Airnow.gov
- Participate in regulatory processes & comment periods
- Collaborate with others

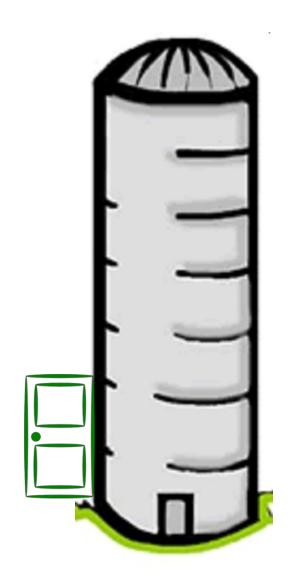
4cleanair.org - National Assoc. of Clean Air Agencies





The power of collaboration





Resources from RAP

- Beneficial Electrification: Ensuring Electrification in the Public Interest
- ☐ Quantifying the Air Quality Impacts of Energy Efficiency Policies and Programs
- → Purple Haze or Purple Moutain Majesties? How Energy Efficiency Can Reduce Regional Haze (blog post)
- Recognizing the Full Value of Energy Efficiency
- Using Energy Efficiency to Advance Air Quality Compliance



About RAP

The Regulatory Assistance Project (RAP)[®] is an independent, non-partisan, non-governmental organization dedicated to accelerating the transition to a clean, reliable, and efficient energy future.

Learn more about our work at raponline.org



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EPA's AirNow website

