# Overview of the Clean Air Act

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### Outline

- Goals of the Act
- Legislative Timeline
- ▶ Air Pollution
- Organizational Structure
  - ▶ Cooperative Federalism
  - ▶ Direct Implementation
- Permitting
- ▶ Enforcement, Judicial Review, Role of Courts
- ▶ Pollution Trends

### General Goals of the Act

- To protect human health and welfare from air pollution
  - Through health-, welfare-, and/or risk-based standards (e.g., NAAQS, HAPs)
  - ► Through technology-based standards (e.g., NSPS, BACT, mobile-source standards)
- To provide federal oversight while giving states flexibility in implementing programs to achieve healthy air quality
- ▶ To continuously improve the scientific understanding of air pollution
- ▶ To promote through grants and other forms of assistance measures and programs to reduce air pollution and promote lower- an zeroemitting technologies

### Legislative Timeline

- ▶ Pre-1970
- 1970 Clean Air Act Basic structure of modern Act
- ▶ 1977 Amendments (PSD, mobile standards, regional haze)
- 1990 Amendments
  - Expanded Section 112 for hazardous air pollutants
  - Expanded nonattainment planning requirements
  - Acid Rain Program (Title IV) & other market-based programs
  - Operating Permits (Title V)
  - Stratospheric Ozone (Title VI) (AIM Act of 2020)
- 2005 and 2007 Renewable Fuel Standard (RFS)
- ▶ 2022 Inflation Reduction Act GHG programs

### What Is Air Pollution?

- Act contains a very broad definition of air pollutant (302(g))
- Criteria Air Pollutants (NAAQS) and their precursors (108-109)
- ► Hazardous Air Pollutants (HAPs) (112)
- Stratospheric Pollutants (CFCs, etc.) (Title VI)
- ▶ Other Pollutants (including GHGs) (111, 165, Title II)

# Organizational Structure – Cooperative Federalism

- ► EPA sets the NAAQS to protect public health and welfare
- ▶ NAAQS implementation: SIPs and FIPs under Section 110, etc.
  - States design state implementation plans (SIP) to attain and maintain healthy air quality and submit them to EPA
  - ► EPA approves or disapproves the plans. If a state does not submit a plan, EPA makes a "finding of failure to submit."
  - ▶ If approved, the requirements in the SIP become enforceable federal law under Sections 113 and 304.
  - ▶ If EPA disapproves a SIP, then EPA must promulgate a FIP.
- A similar framework applies for "regional haze" (visibility program for Class I areas), permitting programs, and section 111(d).
- Tribes can obtain "treatment as state" or EPA can directly regulate in areas of tribal jurisdiction

# Organizational Structure – Direct EPA Implementation

- New Source Performance Standards for new and modified stationary sources (111(b)) & Solid Waste Combustion (129)
  - Best System of Emissions Reduction (considering cost and other factors)
  - ▶ NAAQS and non-HAP pollutants (111(d) excludes HAPs and NAAQS)
- ► Air Toxics or NESHAPs (112)
  - Maximum Achievable Control Technology (MACT) w/ residual-risk review
  - New and existing sources; major sources and area sources
- Mobile Source Standards (Title II)
  - Technology-based standards for engines and vehicles
  - Standards for fuels and fuel additives & RFS programs
- Stratospheric Ozone (Title VI)

### Permitting Programs

- Construction Permits New Source Review (NSR) (Title I, Part D)
  - Nonattainment NSR Lowest Achievable Emissions Rate + Offsets
  - Prevention of Significant Deterioration (PSD) Best Available Control Technology
  - Permits must address all pollutants under the Act
- Title V Operating Permits
  - Compiles all applicable requirements into a single permit for each facility
  - Provides for compliance assurance, transparency, and practical enforceability
  - Public can petition EPA for review of permits
- States generally run these programs, following approval by EPA.

## Enforcement, Judicial Review, Role of Courts

- Virtually every duty in the Act is subject to a deadline
- ► EPA and states share enforcement responsibility (113)
- ▶ The public can enforce the Act through "citizen suits" (304)
  - Deadline or unreasonable delay suits against EPA
  - Other violations
- Federal appellate courts directly review EPA actions under the Act (307(b))
- Rulemaking procedures and legal standards for review (307(d))

#### Air Pollution Trends

#### Percent change in US emissions of air pollutants

- The Clean Air Act and its Amendments have been successful in reducing air pollutant emissions
- Significant reductions in:
  - Nitrogen oxides (NOx)
  - ► Sulfur dioxide (SO2)
  - ► Carbon monoxide (CO)
  - Particulate matter (PM)
  - Volatile Organic Compounds (VOCs)

Source: Dan Loughlin (EPA ORD)

