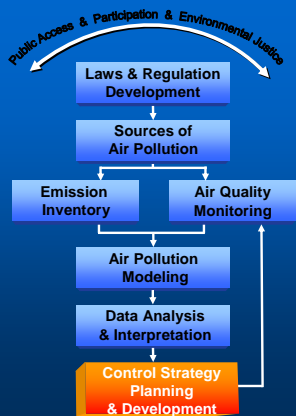


Chapter 9: Control Strategy Planning and Development

Chapter Overview

- Role of Control Strategies in the AQM System
- Developing Control Strategies
- Compliance and Enforcement
- Case Study/Discussion

Role of Control
Strategy
Planning and
Development in
an Air Quality
Management
Program.



Control Strategies

- Measures identified and implemented to achieve reductions in air pollution.
- Vary by source type, such as stationary or mobile.
- Vary the pollutant that is being targeted.
- Usually more than one measure needed

Potential Control Strategies

- Policy
- Economic
- Technical
- Institutional

Potential Control Strategies - Policy

- Monitoring
- Industrial and residential zoning
- Compliance
- Traffic management
- Public transport
- Non-motorized transport
- Land-use



Potential Control Strategies - Economic

- Taxes
- Subsidies
- Pricing
- Charges
- Fines
- Tradable permits

Potential Control Strategies - Technical

- Fuel improvements
- Cleaner technologies
- End-of-pipe control devices
- Cleaner production

Potential Control Strategies - Institutional

- Emission standards
- Energy efficiency
- Fuel standards
- Operational restrictions
- Inspection and maintenance
- Industrial compliance
- Capacity building
- Awareness

Steps to Develop Control Strategy

- Involve the public
- Determine priority pollutants
- Identify control measures
- Incorporate the control measures into a plan
- Involve the public

Control Strategies – Roles and Responsibilities

- Different control measures may be mandated at the local/municipal, provincial, and national level.
- Control strategies adopted by local government may include locally appropriate as well as nationally mandated control measures.

Controls on Mobile, Stationary, and Area Sources of Pollution

- Important part of successful control strategy
- Utilize reasonably available control technology

Control Technology Considerations

- Environmental
- Engineering
- Economic

Compliance and Enforcement



Compliance v. Enforcement

- Compliance involves actions and programs designed to ensure the environmental laws are followed.
- Enforcement is focused on those situations when the law is not followed to ensure a rapid return to compliance with these laws.

Compliance and Enforcement

- Compliance and Enforcement activities include:
 - Compliance Assistance
 - Compliance Monitoring
 - Compliance Inspections
 - Civil and Criminal Enforcement
- Public participation is also a part of the compliance and enforcement process.

Goals of Enforcement

- Correct the violation as quickly as possible
- Deter future violations
- Level the playing field
- Punish serious violations through criminal sanctions
- Get the biggest bang for the buck

CASE STUDY: Reducing VOC Emissions

- Scenario
- Goals
- Results
- Lessons Learned



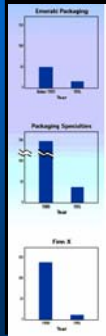
CASE STUDY: Reducing VOC Emissions

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CASE STUDY: Reducing VOC Emissions

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Chapter Summary

- Control Strategy Definition and Options
- Steps in Control Strategy Development
- Compliance and Enforcement concepts

AQM Planning Tool Activity
