

Environmental Science

Chapter 10

10.1 Air Pollution and Health

- The Clean Air Act Regulates Major Pollutants 1970
- These six are referred to as **conventional or criteria pollutants**, and they include sulfur dioxide, nitrogen oxides, carbon monoxide, ozone (and its precursor volatile organic compounds), lead, and particulate matter.
- The EPA also monitors **unconventional pollutants**, compounds that are produced in less volume than conventional pollutants, but that are especially toxic or hazardous.
- A **point source** is a smokestack or some other concentrated pollution origin.
- **Primary pollutants** are released in a harmful form.
- **Secondary pollutants** become hazardous after reactions in the air.
- **Fugitive or nonpoint-source** emissions are those that do not go through a smokestack.
- **Sulfur dioxide (SO₂)** is a colorless, corrosive gas that damages both plants and animals.
- **Nitrogen oxides (NO_x)** are highly reactive gases formed when the heat of combustion initiates reactions between atmospheric nitrogen (N₂) and oxygen (O₂). The initial product, nitric oxide (NO), oxidizes further in the atmosphere to nitrogen dioxide (NO₂), a reddish-brown gas that gives photochemical smog its distinctive color.
- **Carbon monoxide (CO)** is a colorless, odorless, but highly toxic gas produced mainly by incomplete combustion of fuel (coal, oil, charcoal, wood, or gas). CO inhibits respiration in animals by binding irreversibly to hemoglobin in blood.
- **Ozone (O₃)** ground level ozone is highly reactive oxidizing agent that damages eyes, lungs, and plant tissues, as well as paint, rubber, and plastics. It is a secondary pollutant, created by chemical reactions that are initiated by solar energy.
- Interacting with ozone to produce smog are a variety of **volatile organic compounds (VOCs)** contribute to the formation of ozone and other photochemical oxidants.
- **Lead**, our most abundantly produced metal air pollutant, impairs nerve and brain functions.
- **Particulate material** includes dust, ash, soot, lint, smoke, pollen, spores, algal cells, and many other suspended materials like aerosols.
- A special category of toxins is monitored by the U.S. EPA because they are particularly dangerous. Called **hazardous air pollutants (HAPs)**, these chemicals cause cancer, nerve damage, disrupt hormone function, and fetal development. These persistent substances remain in ecosystems for long periods of time, and accumulate in animal and human tissues.
- In 1986, Congress established the **Toxic Release Inventory (TRI)** to help inform communities about toxic substances produced and handled in their area.
- Mercury is a Key Neurotoxin

10.2 Air Pollution and the Climate

- Chemical reactions of atmospheric gases and pollution produce the phenomenon known as the **ozone hole**. Chlorine-based aerosols, such as CFC's and HCFC's, are the principal agents of ozone depletion.

Environmental Science Chapter Review

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Environmental Science Chapter Review:

This book delves into Environmental Science Chapter Review. Environmental Science Chapter Review is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Environmental Science Chapter Review, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Environmental Science Chapter Review
 - Chapter 2: Essential Elements of Environmental Science Chapter Review
 - Chapter 3: Environmental Science Chapter Review in Everyday Life
 - Chapter 4: Environmental Science Chapter Review in Specific Contexts
 - Chapter 5: Conclusion
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 6. In chapter 5, this book will draw a conclusion about Environmental Science Chapter Review. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Environmental Science Chapter Review.

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Table of Contents Environmental Science Chapter Review

1. Understanding the eBook Environmental Science Chapter Review
 - The Rise of Digital Reading Environmental Science Chapter Review
 - Advantages of eBooks Over Traditional Books
2. Identifying Environmental Science Chapter Review
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Environmental Science Chapter Review
 - User-Friendly Interface
4. Exploring eBook Recommendations from Environmental Science Chapter Review
 - Personalized Recommendations
 - Environmental Science Chapter Review User Reviews and Ratings
 - Environmental Science Chapter Review and Bestseller Lists
5. Accessing Environmental Science Chapter Review Free and Paid eBooks
 - Environmental Science Chapter Review Public Domain eBooks
 - Environmental Science Chapter Review eBook Subscription Services
 - Environmental Science Chapter Review Budget-Friendly Options
6. Navigating Environmental Science Chapter Review eBook Formats
 - ePub, PDF, MOBI, and More
 - Environmental Science Chapter Review Compatibility with Devices
 - Environmental Science Chapter Review Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Environmental Science Chapter Review
 - Highlighting and Note-Taking Environmental Science Chapter Review
 - Interactive Elements Environmental Science Chapter Review

8. Staying Engaged with Environmental Science Chapter Review
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Environmental Science Chapter Review
9. Balancing eBooks and Physical Books Environmental Science Chapter Review
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Environmental Science Chapter Review
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Environmental Science Chapter Review
 - Setting Reading Goals Environmental Science Chapter Review
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Environmental Science Chapter Review
 - Fact-Checking eBook Content of Environmental Science Chapter Review
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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