

# Facing the Environmental Impacts of Carbon Sequestration

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## Presentation Overview

- **Sources and Types of Impacts**
  - Oceanic and Terrestrial
  - Geologic
- **Mitigation of Environmental Impacts**

## Sources and Types of Impacts Oceanic and Terrestrial Sequestration

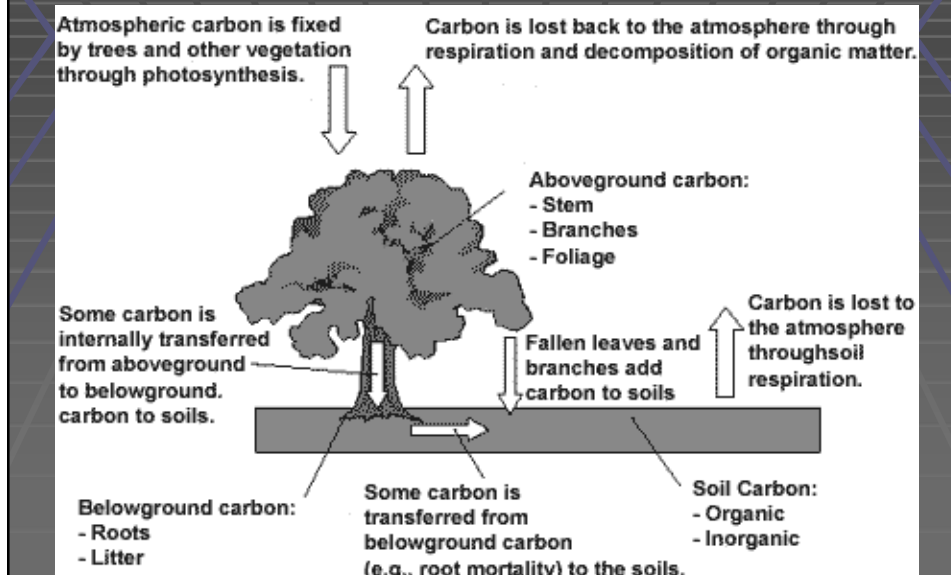
### ▪ Oceanic

- Acidification
- Suffocation
- Reduction in photosynthesis
- Equalization between ocean and atmosphere

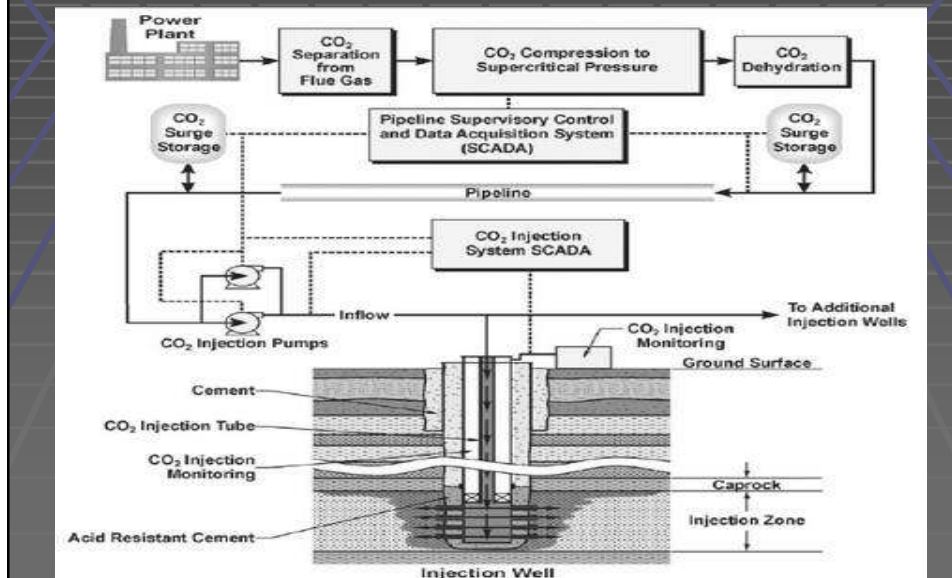
### ▪ Terrestrial

- Resource depletion
- Acidification
- Impacts to food resources and habitat

## Sources and Types of Impacts Terrestrial Sequestration Process



## Sources and Types of Impacts Geologic Sequestration Process



## Sources and Types of Impacts Geologic Sequestration

- **Sources**
  - Well Failure
  - Fracturing
- **Types**
  - Atmospheric Leakage
  - Water Poisoning
  - Changes in waterflow

## Limiting Environmental Impacts Geologic Sequestration

- Geologic Characterization
- Area of Review Study
- Injection Well Construction
- Well Operation
- Mechanical Integrity Testing
- Monitoring
- Well Plugging
- Financial Responsibility

## Questions?

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