The Impact of Federal Air Quality Standards on Domestic Natural Gas Development

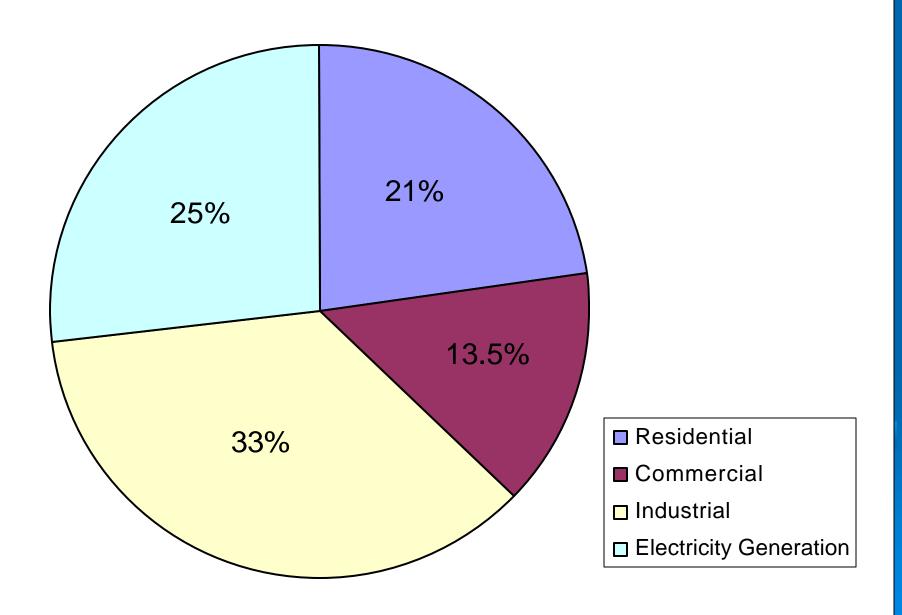


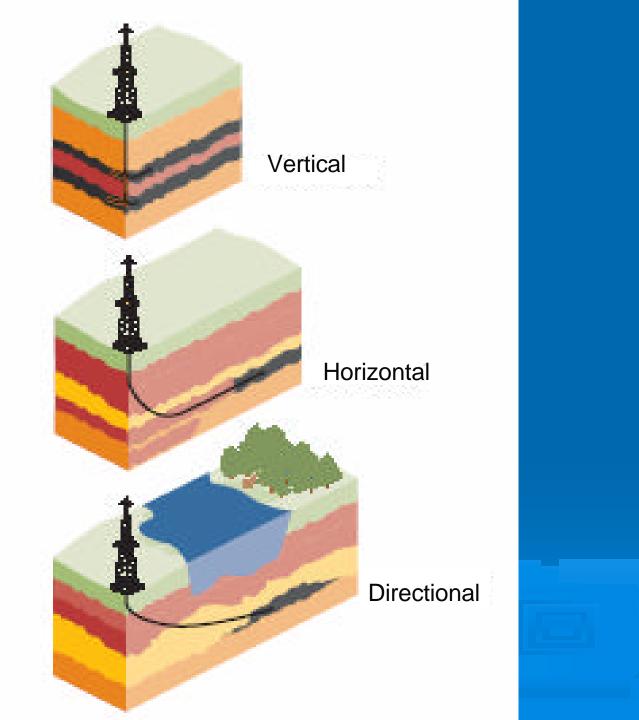
Courtney Falconer August 11, 2004

Introduction

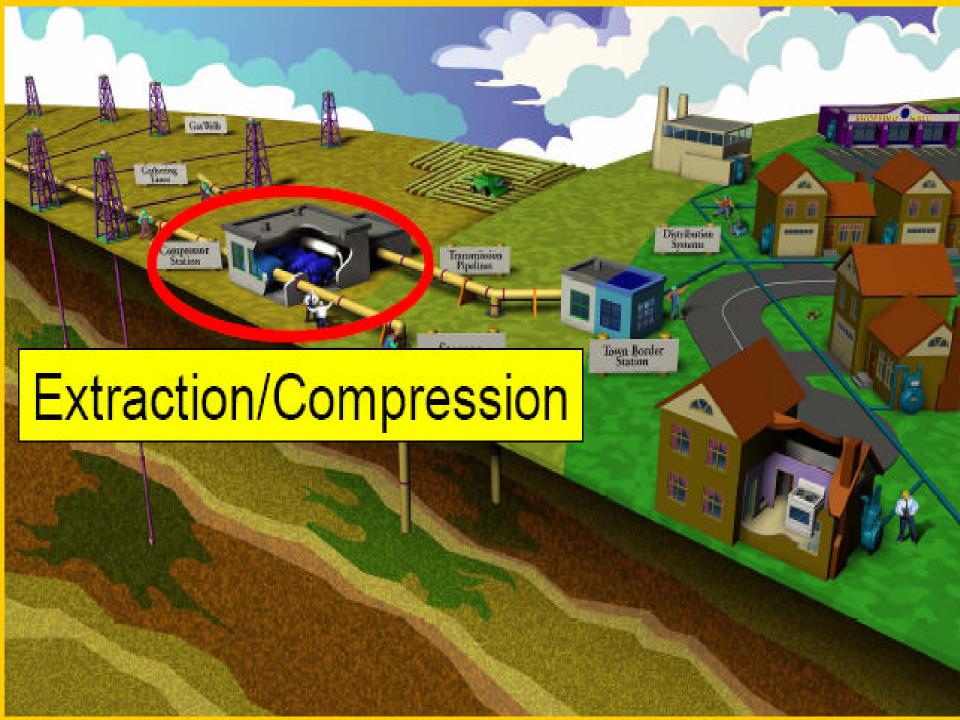
Natural gas is a cleaner more efficient fossil fuel than coal or oil, therefore it is projected that the demand for natural gas will increase by the year 2025 from 22 to 34 trillion cubic feet. Natural gas is important for our energy security and for a clean environment.

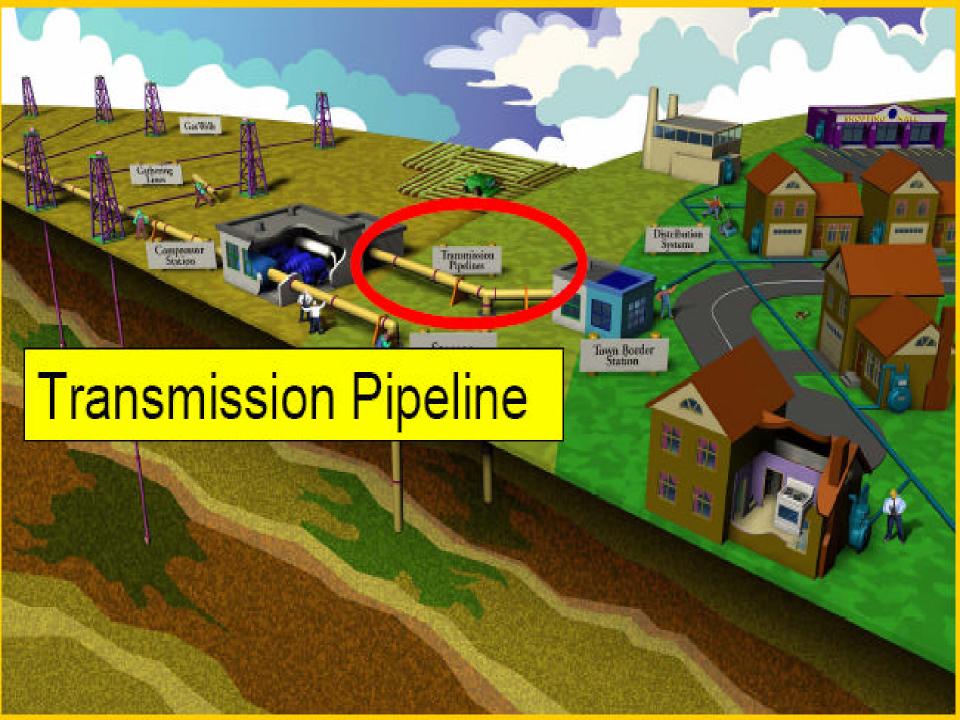
Natural Gas Usage in the United States in 2003

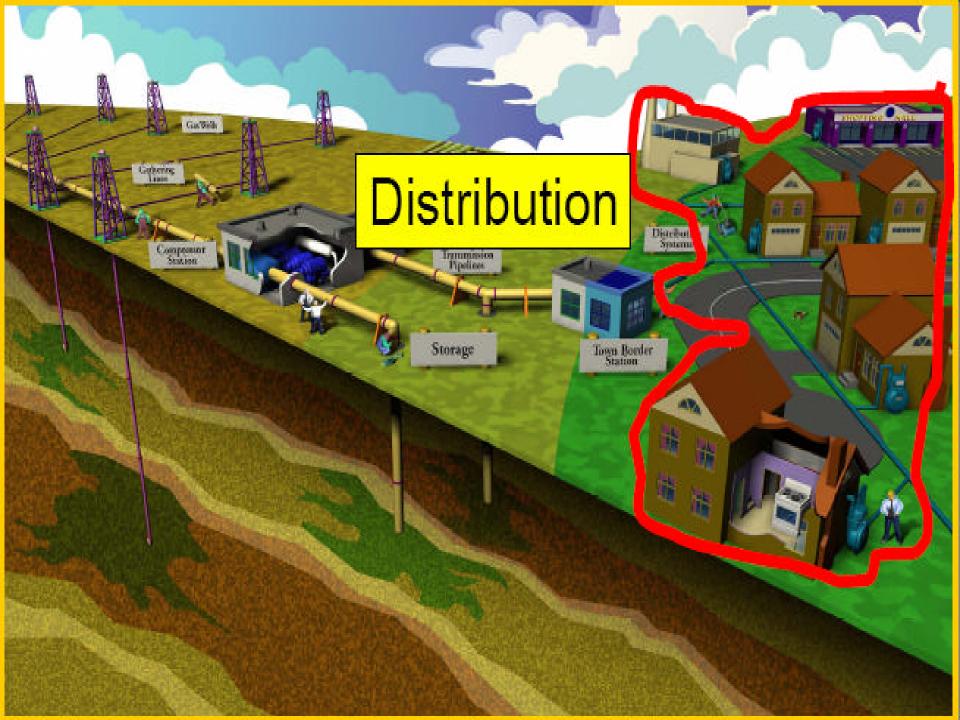


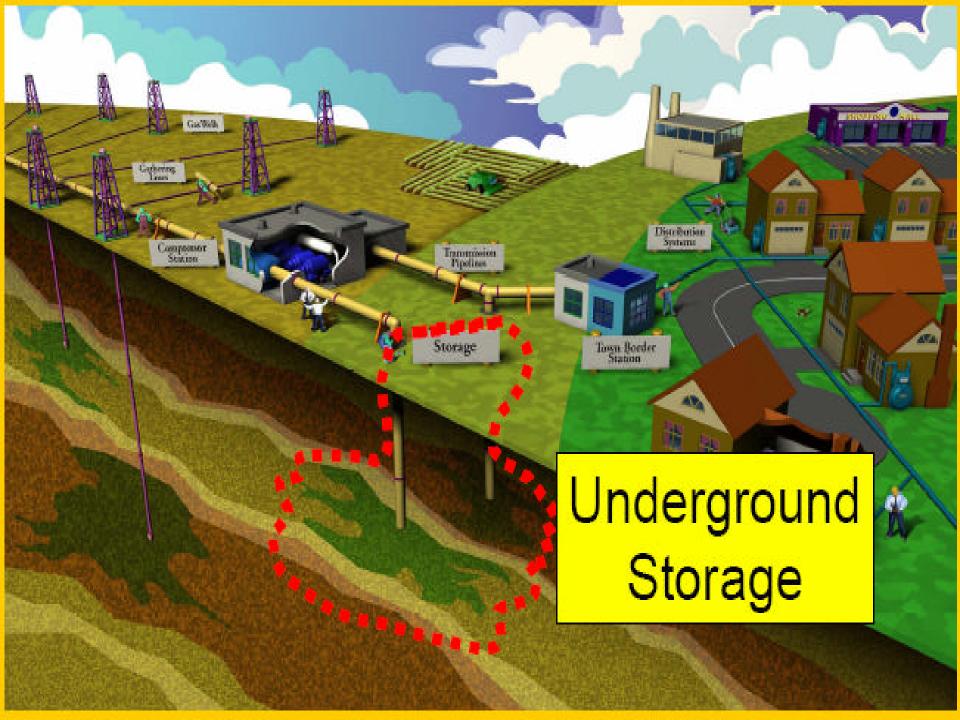




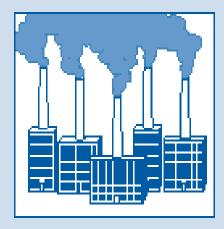




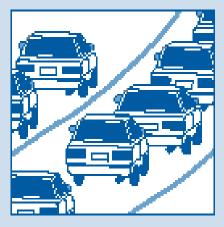




Sources of Air Toxics



Routine Emissions From Stationary Sources

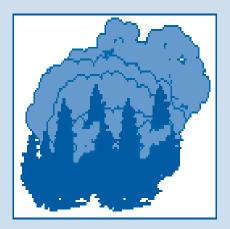


Mobile Sources

Each year, millions of tons of toxic pollutants are released into the air from both natural and manmade sources.



Accidental Releases



Forest Fires

Criteria Air Pollutants

- \triangleright Ozone (O₃)
- ➤ Nitrogen Dioxide (NO₂)
- Carbon Monoxide (CO)
- > Sulfur Dioxide (SO₂)
- Particulate Matter (PM)
- ▶ Lead (Pb)
- Volatile Organic Compounds (VOC's)

Permitting and Air Regulations

Title V - CAA

Handed out by the states if states fail, then EPA has right to take over

All information is available to the public

Tells which and how much pollutants are being released

Designed to simplify permits and easier for EPA to penalize

Early Action Compact

Used instead of Title V to reduce ozone 2 years earlier than CAA Community and EPA develops plan and sets milestone dates

Area must already currently meet 1 hr. ozone standard

If area doesn't meet dates, forfeits right under EAC

Effects of Air Regulations on Gas and Oil Industry

- In order to comply with regulations, producers have to install expensive equipment
- May cause smaller, independent producers to close in well, resulting in less domestic production

