Figure 5.8

From Solomon and coworkers (1985)

Reacting Coal Molecule

US Coal Use (2005)
(from IEA pages)

Note: About 50% of "Industry" use on this chart is for combined heat and power plants.
Advanced Systems

What is Oxy-fuel Combustion?

Net Coal to Power: 30 + 22 – 9 = 43%

Other Uses for Coal

Steelmaking

Additional Processes

- Coal → gasifier → CO & H₂ → liquid fuels
- Coal → gasifier → CO & H₂ → chemicals