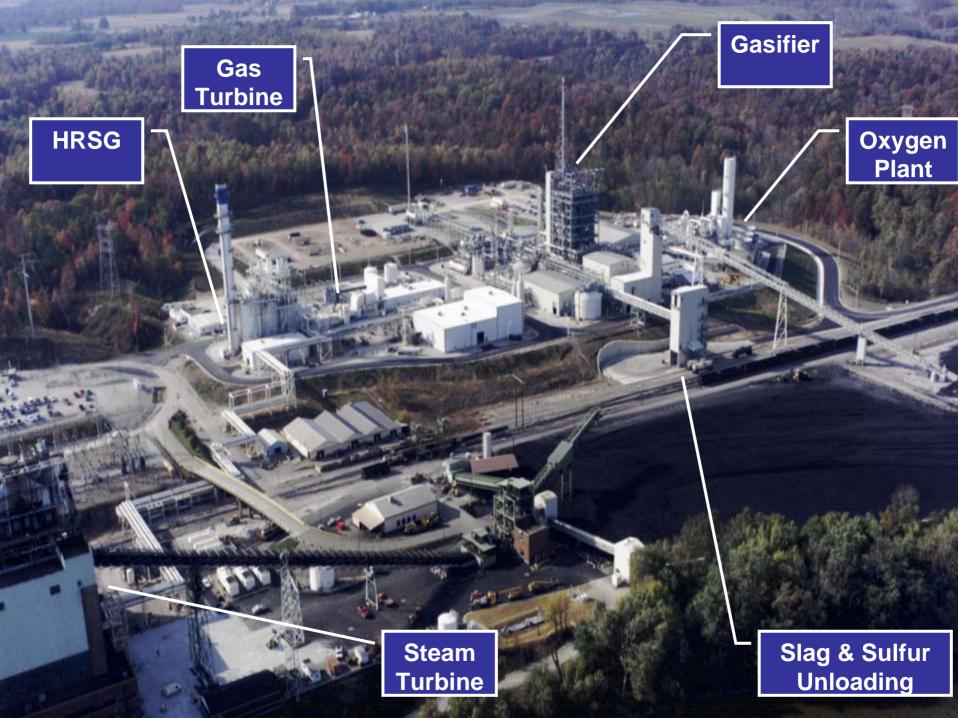
## Workshop on Future Large CO2 Compression Systems

Gaithersburg, Maryland March 30, 2009

### **Gasification Project Outlook**

Phil Amick Commercialization Director, Gasification Phil.Amick@ConocoPhillips.com





### Kentucky NewGas Project

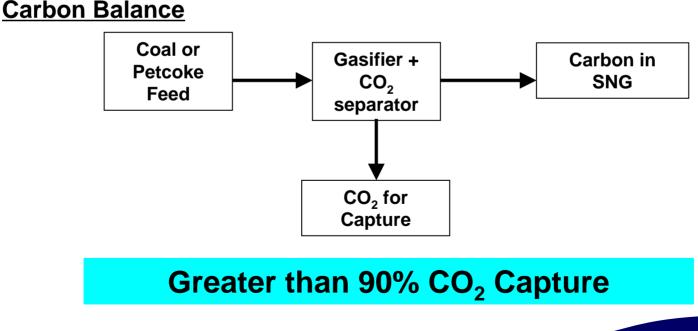
Peabody Energy and ConocoPhillips are developing a state-of-the-art energy center that will transform Kentucky coal into clean natural gas.



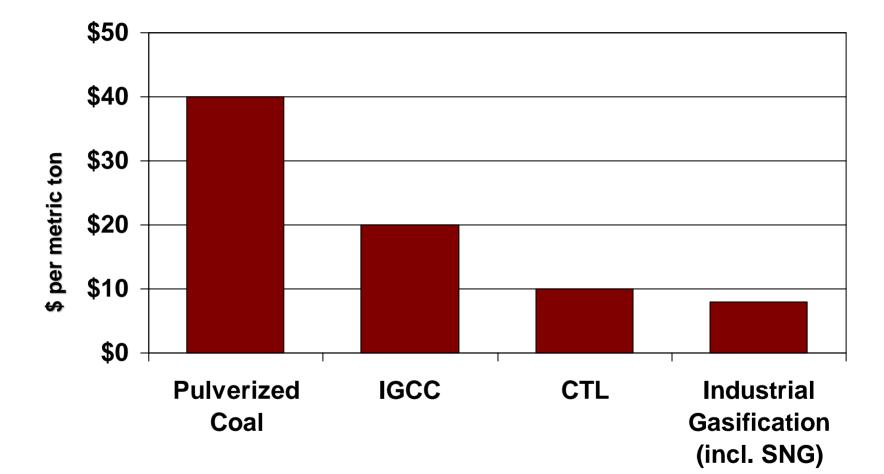


#### **SNG Process Scrubs Carbon from Coal**

- Honest "storage ready" CO<sub>2</sub> and Substitute Natural Gas
- $\succ$  Scrubs carbon from the coal and petcoke as CO<sub>2</sub>
- More than 90% of CO2 generated in the process is captured
- > Sequestration places coal on a similar  $CO_2$  footing as natural gas



## **Carbon Capture & Compression Costs**

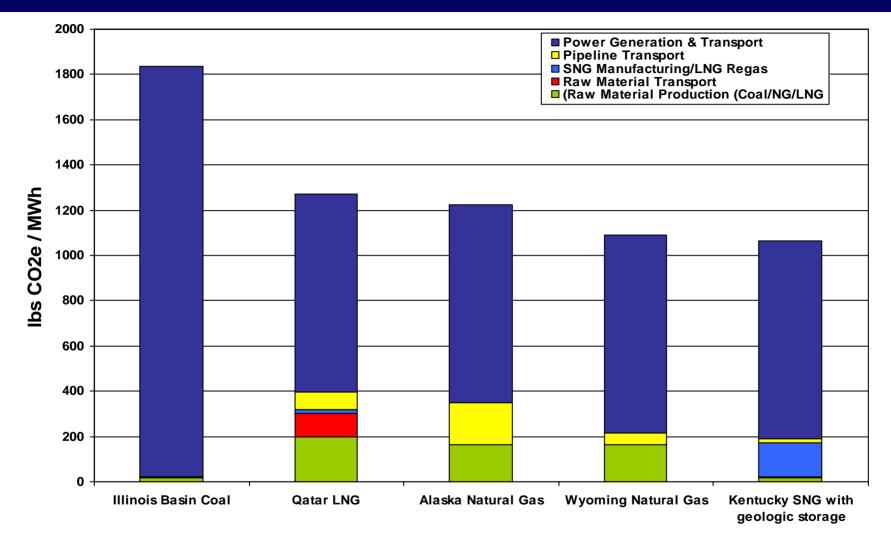


Reference: Jim Childress, Gasification Technology Council, Electric Power 2008 http://www.gasification.org

Sources: MIT, Eastman Chemical

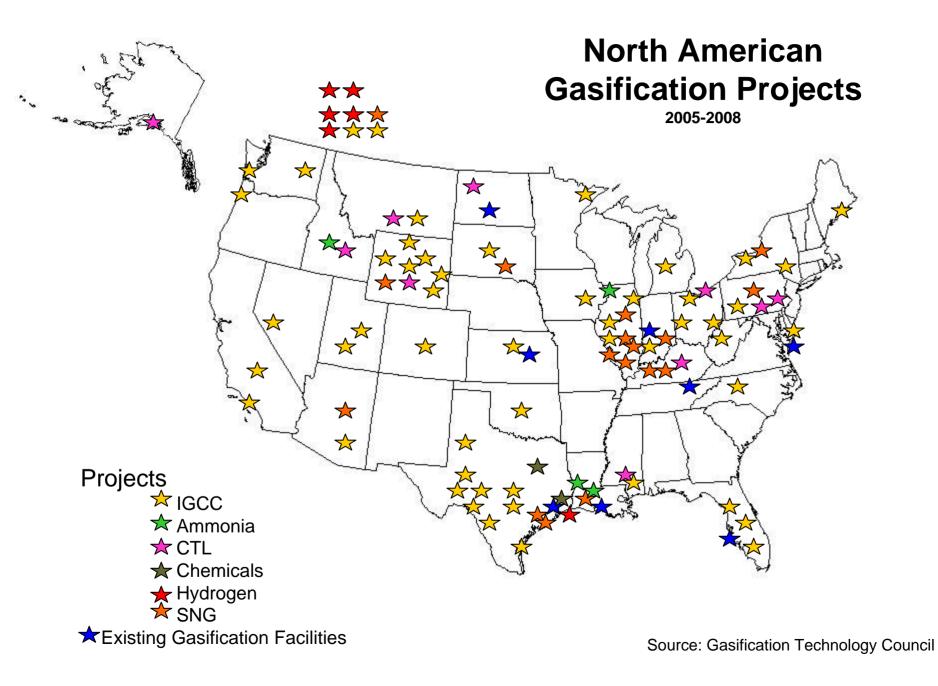
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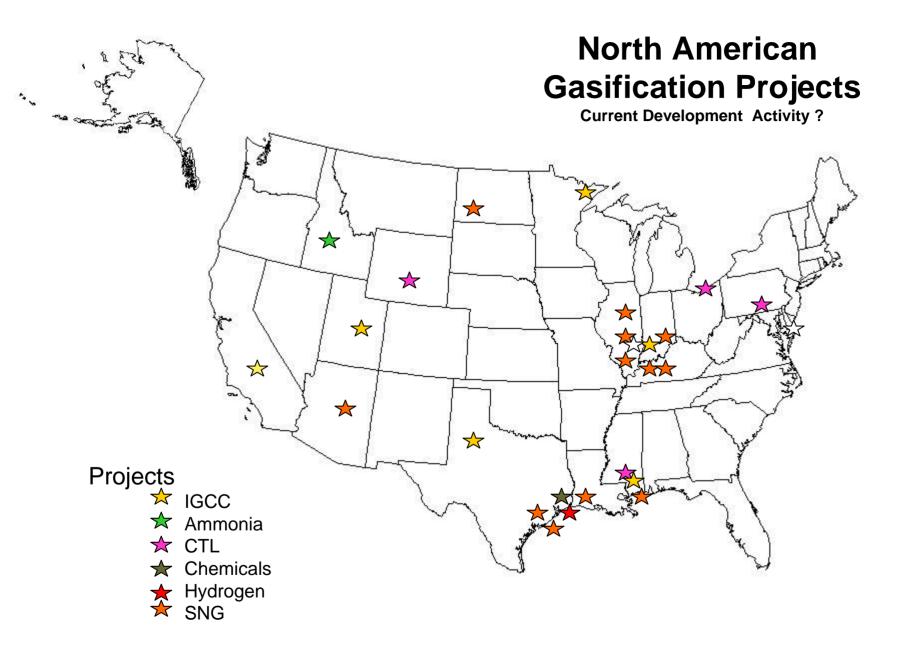
### CO<sub>2</sub> Emissions from Electricity

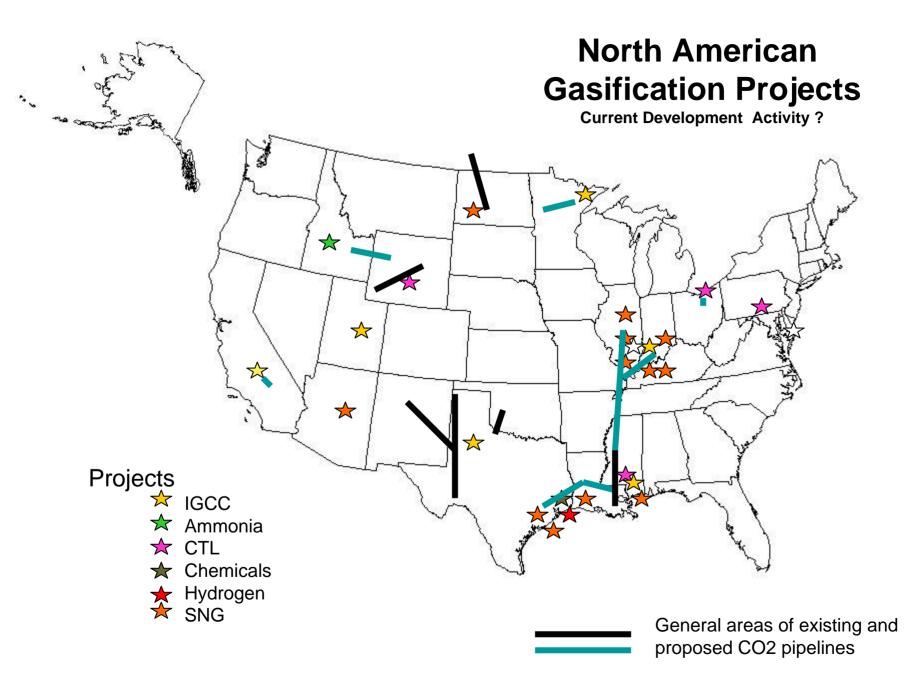


Electricity produced from the projects gas results in lower  $CO_2$  emissions compared to other fossil fuels.









# Gasification The Enabling Technology