ConocoPhillips Gasification Outlook

Gasification Technology and IGCC – Programs & Progress

McIlvaine Company Hot Topic Hour August 19, 2010

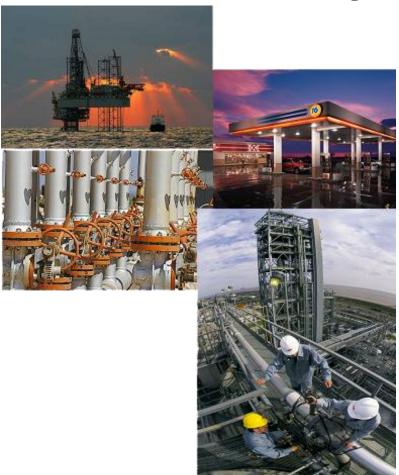
Phil Amick
Commercialization Manager
ConocoPhillips

6 on Fortune 500 List (2010)

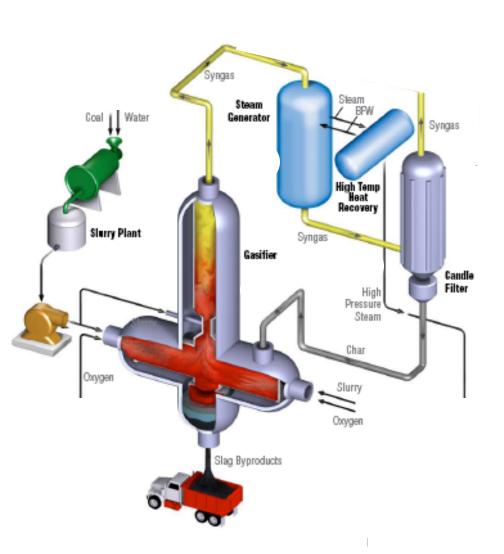
3rd Largest U.S. Integrated Energy Company
4th Largest Refiner in World
7th Largest Reserve Holder (Non-Govt)
Approximately 29,900 Employees
Operations in nearly 40 Countries

Oil Coal Oil Sands **Natural Gas Petroleum Coke Transportation Fuels Coal Bed Methane** Gasification **Electricity BioFuels LNG**









ADVANTAGES

Two stage for carbon conversion and heat recovery efficiency

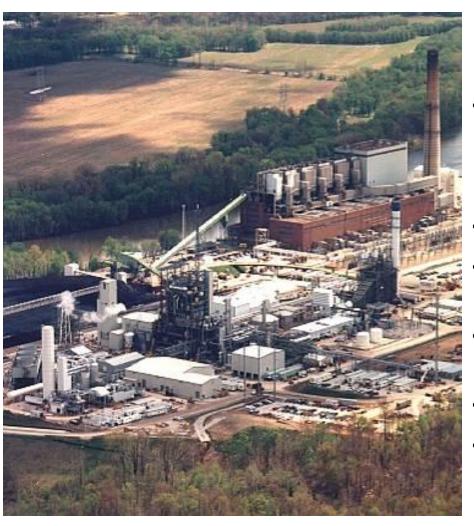
Separate Fire-tube Syngas Cooler generating HP steam

Dry Char Recycle – No Wastewater Generation, No Carbon Lost

Continuous Slag RemovalNo Lock-hoppers

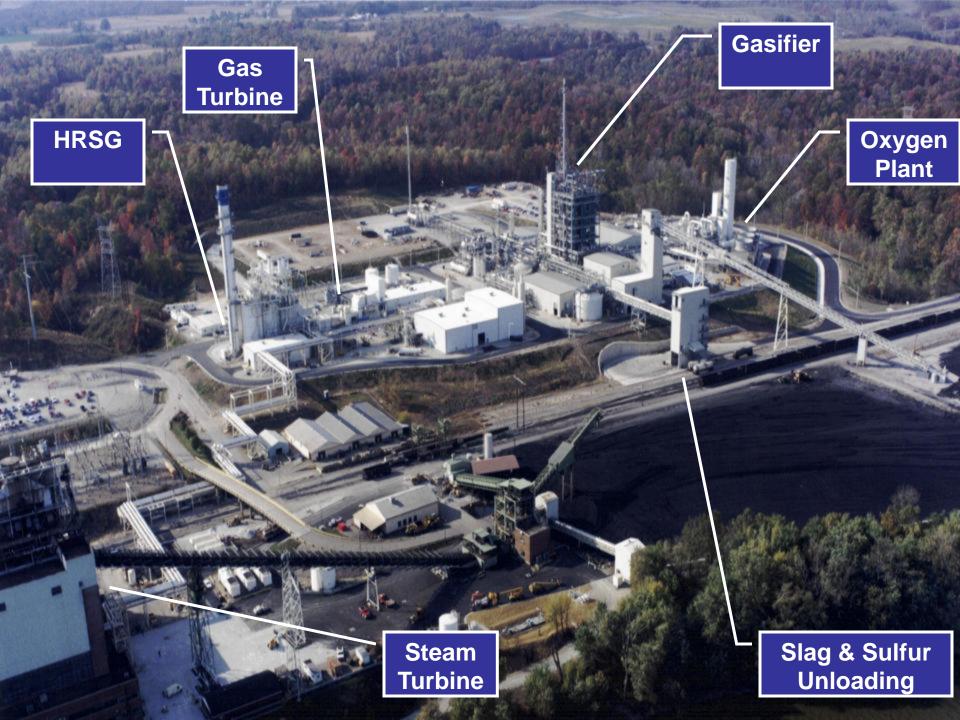
Single Train Capacity to 3000 mTPD on bit Coal and Petcoke 4000 mTPD on Sub-Bituminous

WABASH RIVER IGCC PLANT



One of the Cleanest Solid Fuel Power Plants in the World

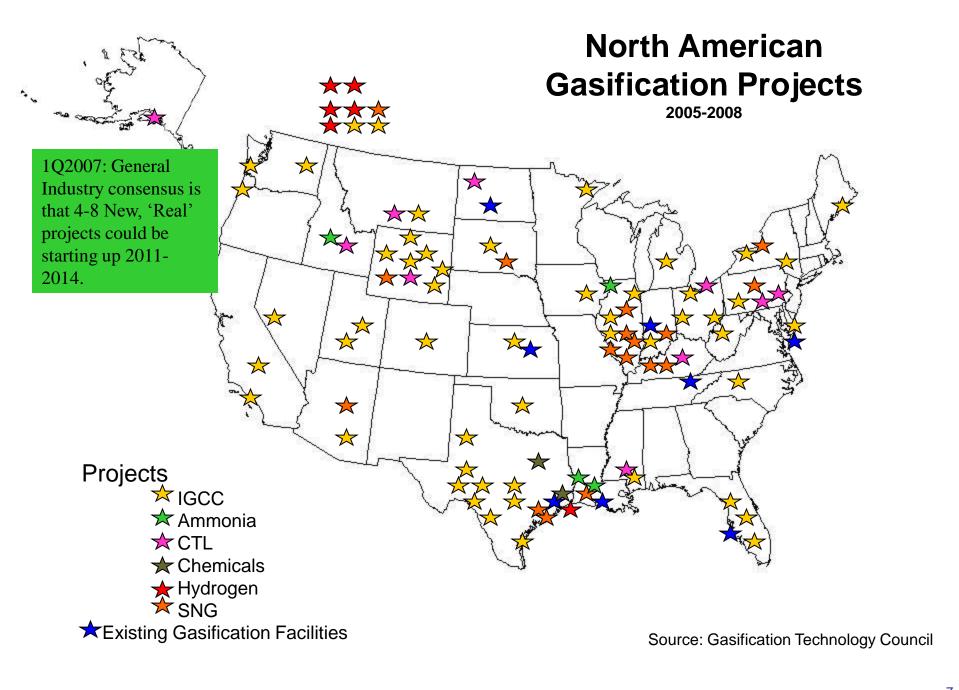
- Fuel flexibility
 - 1.7 million tons bituminous coal
 - Over 3.5 million tons of petcoke
- 2500 ton/day bituminous coal feed
- Operational since 1995 at Duke Energy's Wabash River Station
- 262 MWe net output by repowering 1953-vintage PC 100MW STG (+ GTG)
- sgSolutions LLC owns Syngas Plant
- ConocoPhillips provides technical and professional services on site



Project Development in 1991

- Unknown & Unproven Technology
- Mild Natural Gas Price Volatility
- Relatively Immature DOE Program
- Strong Community Support
- 50% Cost Share

 DOE Selection to Start-Up, including NEPA ~ 4 years

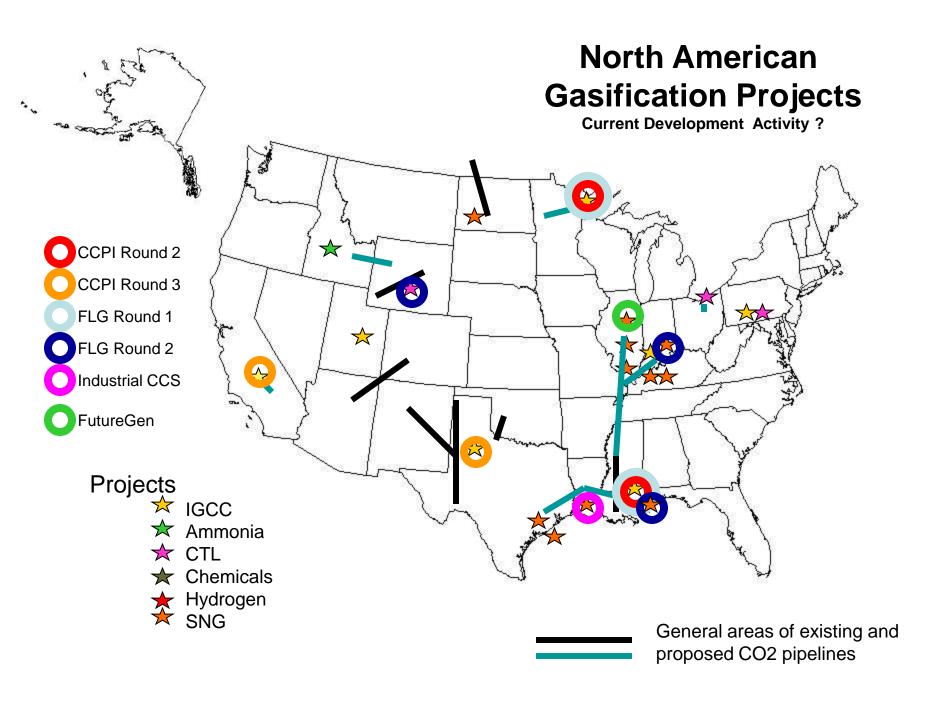


U.S. Coal Projects

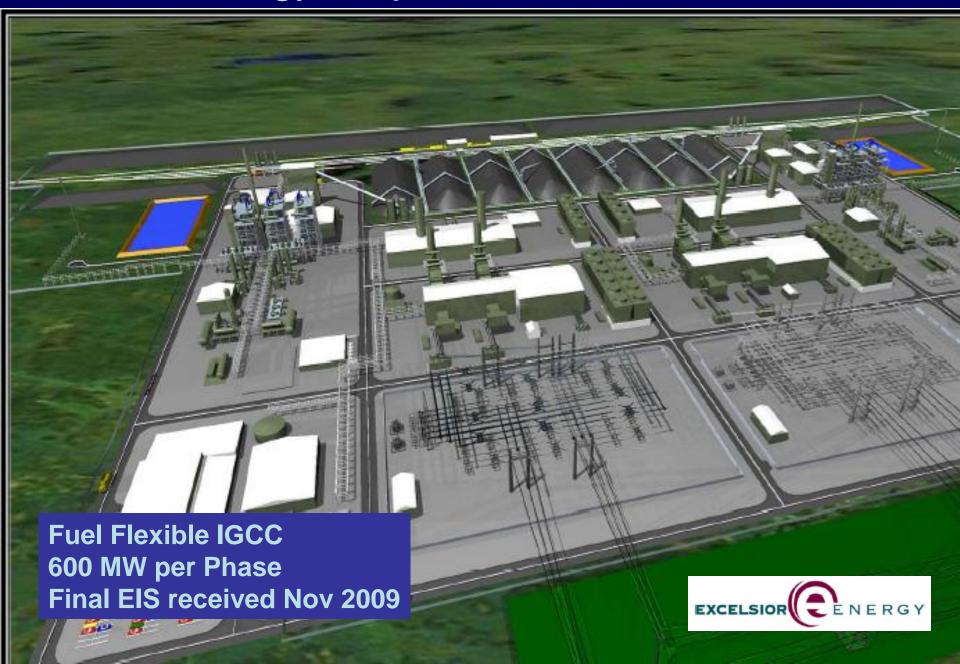
Low Cost Shale Gas
Anti-Coal Movement
Climate Change Regs
Capital Costs
Lack of Load Growth

Coal

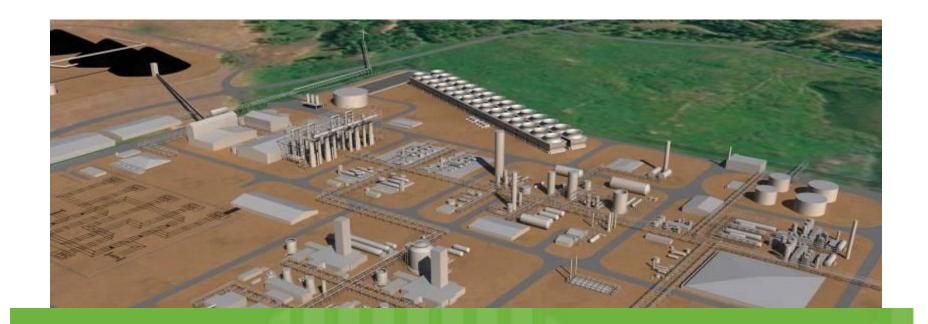
Jobs
Incentives to Demonstrate
Energy Security



Mesaba Energy Project



Kentucky NewGas

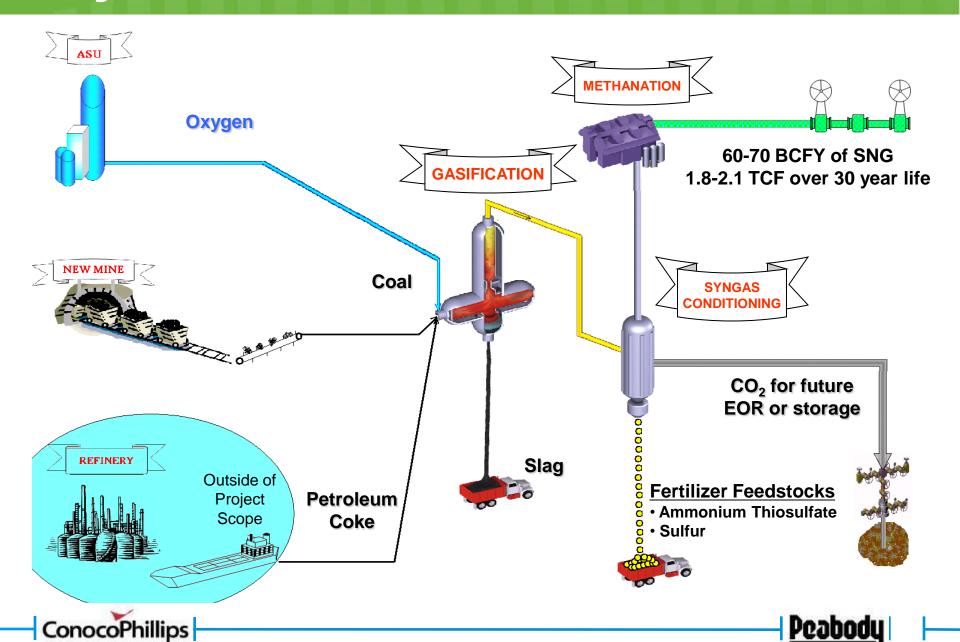


- ConocoPhillips and Peabody Energy are co-developers
- Domestic supply of clean natural gas increased by 60-70 BCF annually
- Emissions are 20 times less than a typical pulverized coal plant
- Greater than 90% carbon capture "storage ready"

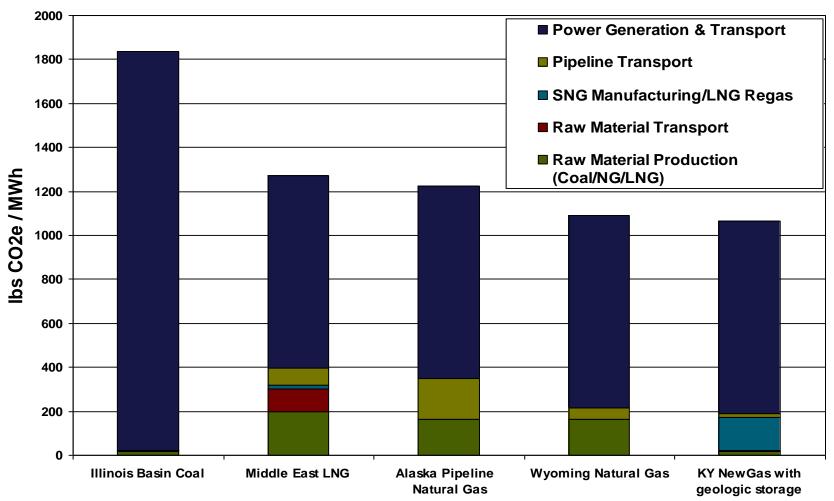




Project Overview



CO₂ Emissions from Electricity Generation



Electricity produced from Kentucky NewGas with geologic storage results in lower CO₂ emissions compared to other fossil fuels.

Aggressive Pursuit of Multiple Carbon Solutions



- Funded Western KY CO2 test well. Early testing indicates good storage potential.
- Negotiating EOR solution
- Collaborating to advance framework for permanent CO₂ storage





Sweeny IGCC/CCS Project Update

- 2+1 E-Gas[™] Technology gasifiers with 3CGT x 1ST
- 6,900 st/sd petcoke to 693 MW(net)
- 85% CO₂ capture store 5 million Te/yr
- Filing air permit with TCEQ 1Q 2010



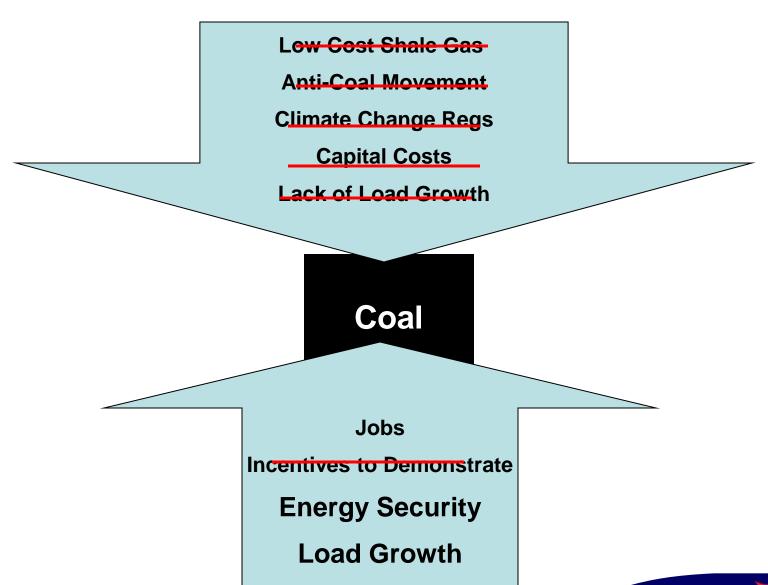
Mississippi Gasification Project





- Mississippi Gasification LLC, a Leucadia affiliate
- Petroleum Coke to SNG
- 2+1 E-Gas[™] Technology gasification trains
- 123 MM SCF/D SNG Production Capacity
- Carbon Capture to Denbury CO₂ Pipeline

Asia Coal Projects



China West-East Gas Pipelines



NEWSStream

ConocoPhillips E-GasTM Technology Selected for POSCO Gasification Project

HOUSTON, April 13, 2010 -- ConocoPhillips [NYSE:COP] today announced the completion of an agreement with POSCO, a Korean steel manufacturing company, to use ConocoPhillips' E-Gas™ Technology in POSCO's Gwangyang coal-to-substitute natural gas (SNG) project.

The project, located near POSCO's Gwangyang steel mill near Gwangyang, Korea, will allow POSCO to produce 500,000 metric tons of pipeline quality SNG annually from the gasification of approximately 1.8 million tons of coal. Preliminary design work began in 2008 and site preparation is now underway.

"We look forward to this opportunity to work with POSCO on the first SNG project in Korea," said Mike Swenson, Manager, Power Generation & Technology. "Our E-Gas™ Technology will help them provide clean SNG to fuel industry in their country."

Under the agreement, ConocoPhillips will provide process engineering design and technical support relating to the gasification technology process block of the SNG facility. This process design package will be developed in the company's Houston offices.

POSCO is one of the world's largest steel makers. Headquartered in Pohang, South Korea, the company has approximately 30,000 employees.

Thank you.

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Commercialization Manager, Gasification

