



# *Integrated Gasification Combined Cycle Technology*

## **State Incentives**

Kate Burke

National Conference of State Legislatures

November 9, 2006



## *States With Incentives*

- Colorado, Illinois, Indiana, Kansas, Minnesota, Ohio, Pennsylvania, Texas, Wyoming
- Emerging action: Kentucky, Mississippi, New Mexico, Virginia, West Virginia



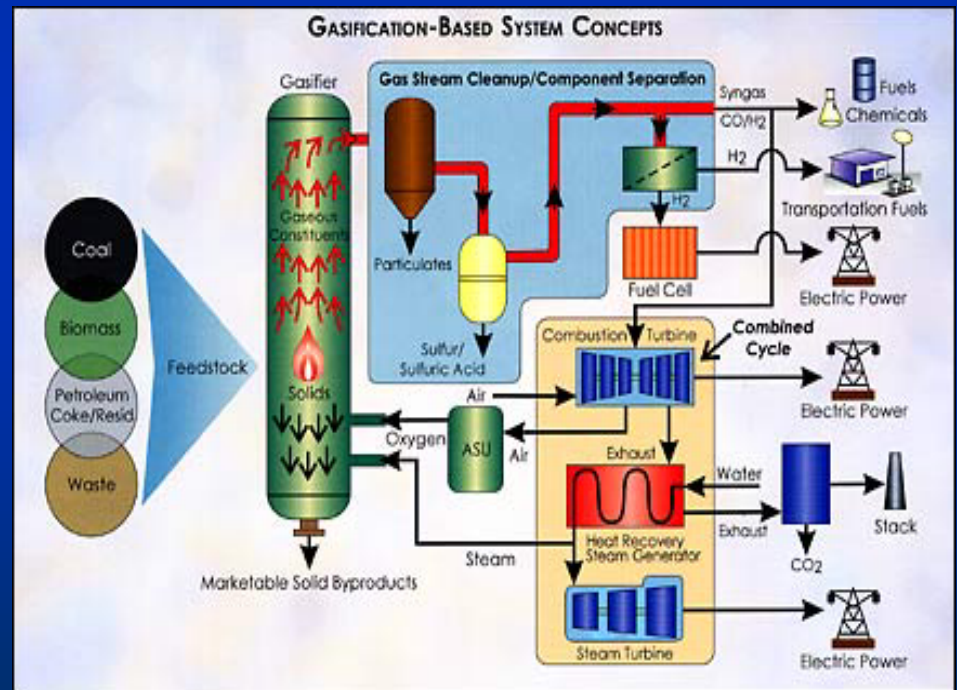
# *Colorado*

- Colo. Rev. Stat. § 40-2-123 (2006)
- Approves the development of IGCC facilities upon a showing of feasibility, environmental benefits, and cost-effectiveness.



# Kansas

- SB 303: Approved May 2006
- Tax credits for the development of new coal gasification facilities





# *Kentucky*

- KRS Chapter 278
- Requires the Public Service Commission to approve certain long-term contracts by utilities for synthetic gas from coal



# *Illinois*

- Governor Blagojevich's "Opportunity Returns" program
- Up to \$300 million in bond funds for new gasification facilities (20 ILCS 605/605-332)
- Jan. 9, 2006: \$5 million public-private support for \$1.1 billion IGCC Taylorville Energy Center



## *Illinois Coal - More Agency Grants*

- *Competitiveness Program: \$50k-\$1.5 mil*
- *Demonstration Program: \$1 mil-\$30 mil*
- *Research Program: \$3.5 mil given in 2005*
- *Development Program: Industry match*
- *Revival Program: Based on retail occupation sales tax*



# *Illinois*

- "High Impact Business" program (20 ILCS 655/5.5)
- Tax incentives for new large businesses or for power plants, including gasification
- Credits on or exemptions to Illinois sales and use tax, income tax, retailers' occupation tax, and electricity excise tax



# *Indiana: 2002 Legislation, Part 1*

- Utility Generation and Clean Coal Technology (IC 8-1-8.8)
  - (1) Financial incentives for “clean coal and energy projects” using Illinois Basin coal or gas:
    - Clean coal technology at new or existing facilities
    - Advanced technologies that reduce regulated air emissions from existing generating facilities



## *Indiana: '02 Legislation, More on Part 1*

- These financial incentives for “clean coal and energy projects” include:
  - Cost recovery
  - Return on equity
  - Other financial incentives the IURC considers appropriate



# *Indiana: 2002 Legislation, Part 2*

- 2002
  - (2) Financial incentives for “new energy generating facilities” criteria:
    - New or expanded energy generating facilities using coal or gases from the Illinois Basin
    - Use of clean coal technologies not necessary

## **Incentives:**

- Cost recovery for construction, repowering, expansion, operation or maintenance
- Pollution control equipment added to utility's rate base



# *Indiana: 2005 Legislation, Part 1*

- Coal Gasification Investment Tax Credit
  - P.L. 191-2005 (IC 6-3.1-29)
    - Allows a state tax liability credit for a qualified investment in an IGCC power plant





## *Indiana: 2005 Legislation, Part 2*

- P.L. 174-2005 (IC 4-4-30-5 and 8-1-8.8-2)
  - Requires that the Center for Coal Technology research investigate the use of coal bed methane as a renewable energy source and in the production of renewable or alternative fuels
  - Allows financial incentives available for “clean coal and energy projects” to include projects that use coal bed methane



## *Indiana: Technology Research*

- The Energy Center – Purdue University
  - Will develop technology to convert coal into combustible gases and liquids



# *Minnesota*

- 2003 statute (216B.1694) provided incentives for proposed Mesaba Energy gasification plant
- Entitles developer Excelsior Energy to sign 450 MW power purchase agreement with Xcel
- CPCN exemption for generation and transmission
- Grant of \$2,000,000/year for 5 years- development, engineering



# *Ohio*

- Ohio Air Quality Development Agency and Ohio Coal Development Office offer:
  - Conduit financing
  - Loan, loan guarantees, grants
  - Tax incentives
  - Funding for demonstration projects



# *Pennsylvania*

- Alternative Energy Portfolio Standards Act (73 P.S. s 1647.2, SB 1030 of 2004)
- Load-serving entities must provide 18% of their electricity using alternative sources by the year 2020-- including IGCC



# *Pennsylvania*

## **Energy Deployment for a Growing Economy ("EDGE")**

- Low interest loans for IGCC
- Permits long-term power purchase contracts to assist with financing
- Current repowering negotiations with EPA



# *Texas*

- 2005: Legislature funded site screening process for potential FutureGen plant
- Approved \$22 million in grants and incentives for low-emission projects
- Expedited permitting for FutureGen-type projects



# *Wyoming*

- Wyo. Stat. § 39-15-105 (2006)
- Creates a sales and use tax exemption for equipment purchased to make new coal gasification or coal liquefaction facilities operational.



## *States With Emerging Action*

- *Mississippi*: Bond issuance for gasification
- *New Mexico*: Tax credit for IGCC, fuel cells, renewables
- *Virginia, West Virginia*: Promote gasification research in state energy plan



# *Contact Information*

Kate Burke

National Conference of State Legislatures

7700 East First Place

Denver, Colorado 80230

Email: [kate.burke@ncsl.org](mailto:kate.burke@ncsl.org)

Phone: 303-856-1404