



Briefing Invitation

OXY-COAL COMBUSTION TECHNOLOGY & THE STATUS OF FUTUREGEN

Wednesday, February 8, 2012

2:00 – 3:30 PM

USEA Executive Conference Room

[1300 Pennsylvania Avenue, NW, Suite 550](#)

[Washington, DC 20004-3022](#)

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For more than a decade, Babcock & Wilcox Power Generation Group and Air Liquide have been developing the oxy-combustion technology. Oxy-combustion involves the use of oxygen mixed with recycled flue gas to combust coal and produce a highly concentrated CO₂ stream at the outlet of the boiler. Flue gas from the oxy-combustion boiler is treated in a conventional air quality control system to remove the majority of the contaminants followed by a direct contact cooler to remove water vapor produced in the combustion process. The flue gas is further treated in the Compression and Purification unit to remove the final traces of moisture, NO_x, SO_x and mercury. Pilot testing has shown that greater than 90% capture of the CO₂ produced in the combustion process should be possible.

This technology was selected by DOE in the fall of 2010 for a large scale field test as part of the FutureGen 2.0 project in Illinois that will be the largest integrated CO₂ capture and permanent geologic storage project in the world.

Join us as Steve Moorman with Babcock & Wilcox provides an overview of oxy-coal combustion technology and the status of the FutureGen project.

Among the topics to be covered:

- Oxy-combustion development path and combustion principles.
- FutureGen 2 Project Objectives
- Oxy-Combustion Advantages & Challenges

RSVP to Matt Gebert at mgeberty@usea.org.