



FutureGen
Frequently Asked Questions—General
June 8, 2011

G1: Why is the project moving so quickly?

A1: In addition to private sector funds, the project is receiving federal funding as part of the American Recovery and Reinvestment Act. This Act requires projects to move quickly to stimulate job creation and economic growth. FutureGen has been uncompromising in adhering to high safety and technical standards. With a power generation station and a site selected, more detailed design work can be completed and this will help the Alliance answer more of the community's questions. The Department of Energy's 18-month environmental review process and the Environmental Protection Agency's permitting process will provide further opportunities for public involvement.

G2: Will Ameren be capturing carbon dioxide at a coal-fueled boiler at the Meredosia power plant or the oil-fueled boiler? Are current coal boilers being retrofitted?

A2: Ameren will replace an existing oil-fueled boiler with an oxy-combustion coal-fueled boiler. This type of upgrade is referred to as a repowering. The new boiler will send steam to an existing steam turbine generator that will produce electricity. The new oxy-combustion coal-fueled boiler will allow for carbon dioxide capture.

G3: What is the composition of the CO₂ from the power plant in Meredosia that would be stored?

A3: The CO₂ stream will be at least 97 percent (by weight) pure CO₂. The other 3 percent (by weight) are safe inerts, such as argon and oxygen. Trace contaminants will be cleaned up to levels below safe drinking water standards.

G4: Will CO₂ from sources other than the Meredosia power plant be stored at the site?

A4: The project's primary focus is on Meredosia's CO₂. The legal agreement between the FutureGen Alliance and the U.S. Department of Energy is to store at least 1.3 million metric tons of CO₂ per year for 30 years. Any future expansion would be contingent upon landowner agreement and additional, extensive permitting.

G5: Will the roads be improved?

A5: The storage site operations will not generate substantial traffic. The visitor, research, and training facilities will generate more vehicle traffic just like any new business does. The Alliance will work with local authorities to determine what, if any, road improvements need to be made to support construction and operation of the storage facility and other support facilities. This will be a specific topic addressed as part of environmental studies and there will be an opportunity for public comment.

G6: Is visitor center located on the site, in a local town, or elsewhere?

A6: The visitor center, research, and training facilities will be located in the same county as the storage site operations. The Alliance will work with county and local officials on how to best design these facilities for maximum benefit.

G7: How can we be assured that the Alliance won't change the rules as you go and "run over the little guy"?

A7: There is a saying that "past performance is the best predictor of future behavior". The Alliance has been working on FutureGen and in Illinois for many years. We've always kept our agreements with the local community, state, and contractors. We all live in a changing world. In the past when something changed—



sometimes beyond our control--we've been honest about the reasons for the change. We have also been extremely sensitive to community and landowner concerns. We cannot address every concern immediately, but over time we work to address all we can. We suggest that you talk to community leaders in Mattoon (the prior host site) or government staff from the state of Illinois. They will tell you that the Alliance has always acted with integrity. This is not to say that we are perfect. If we make a mistake, we'll admit it and correct it. As added assurance, the Environmental Protection Agency recently issued major new regulations governing CO₂ storage that protect the community. Our goal is to advance clean coal technology, and we can't accomplish that goal without being a good partner with the community.

G8: What is new about the FutureGen project?

A8: Each component of the FutureGen project (i.e., the power plant, the pipeline, and the storage site) has been demonstrated individually at various scales. What is new is the integration of these component pieces in a single project and learning how to efficiently operate the system, keeping clean power prices as low as possible.