Illinois Carbon Capture & Storage Project

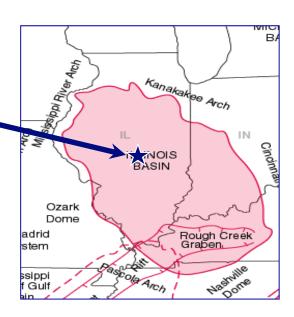




Project Site Attributes

Location

Center of Illinois Basin Covering 60,000 Mile² Site Characterization 40-100 billon tons





Available CO₂

1 Million Gallons Ethanol 3,000 tons of CO₂ 99.9% Purity



Technical Attributes

Technology

"Off the Shelf"
Modular Design
Low Risk/Low CAPEX

Site Integration





Operation

Minimal Conditioning
Advanced Automation
Low Surveillance
Low OPEX



Policy/Financial Drivers



Industrial CCS Program

\$141 Million DOE Grant \$66 Million Project Team Reducing Capital Risk

45Q Tax Credits

\$20 MT - Geologic Storage

\$31 MT - Revenue Basis

75 MMT Cap - first come first serve

34 MMT Claimed (June 2015)





Regulatory Framework/Drivers



UIC Class VI Program

Defined Rules and Guidance Built on Existing UIC Program MVA, PISC, & Site Closure No Long Term Liability Waiver

Clean Power Plan

30% reduction in CO₂ by 2030 Limits CO₂ per gross MWh New Coal Fired Unit Needs CCS



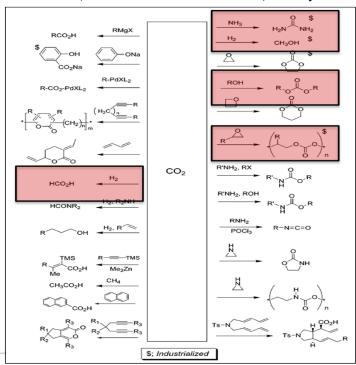


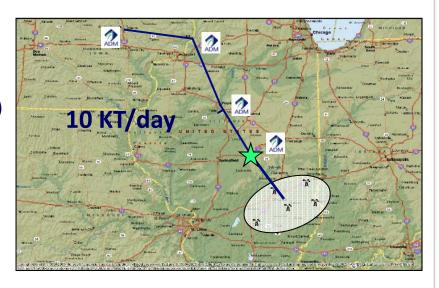
Future Business Potential

EOR

Recovery 700 MMbbls⁽¹⁾ CO₂ Usage 150 MMT

(1) BASIN ORIENTED STRATEGIES FOR CO2 ENHANCED OIL RECOVERY: ILLINOIS AND MICHIGAN BASIN OF ILLINOIS, INDIANA, KENTUCKY AND MICHIGAN; Advanced Resources International, February 2006





CO₂ Chemicals

Carbonates

Glycerol Carbonate

Propylene Carbonate

Dimethyl Carbonate

Fertilizers/Acids/Alcohols





Thank You!

Industrial Carbon Capture and Storage Project:

- U.S. Department of Energy Award No. DE-FE-0001547
- Administered by the DOE's Office of Fossil Energy
- Managed by the National Energy Technology Laboratory
- DOE cost share from American Recovery and Reinvestment Act of 2009

Cost Share Agreements:

- Archer Daniels Midland Company
- University of Illinois through the Illinois State Geological Survey
- Schlumberger Carbon Services
- Richland Community College

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