
U.S. Sequestration Program Activity Update

**April 2006
CSLF Meeting
New Delhi, India**



GOAL

Develop Technology Options for GHG Management That...

- **Are safe and environmentally acceptable**
- **Provide Cost-Effective Separation and Capture**
- **Sequestration/Storage R&D Goals**
 - Be able to predict CO₂ storage capacity with +/- 30% accuracy
 - Develop best practice reservoir management strategies that maximize CO₂ trapping
- **Monitoring, Mitigation & Verification – CO₂ storage permanence**



2006 Programmatic Highlights

- **National Research Council/National Academy of Sciences Review of Program (Sept - Dec 2005)**
- **U.S. Peer Review of Projects in the Sequestration Program (Sept-Oct 2005)**
- **EPA Engagement On Regulations for Sequestration**
 - Short-Term Underground Injection Class (UIC): Class V Experimental for projects
 - Long-Term UIC: New Well Class
- **Programmatic Environmental Impact Statement (PEIS)**
 - Draft and public meetings in 2006
 - Final PEIS 2Q07
 -
- **National Sequestration Conference**
 - Release of Annual Programmatic Roadmap
 - Release of Annual Portfolio Update

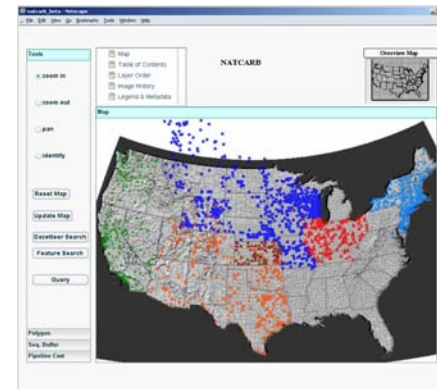


Regional Partnership Update

“Developing the Infrastructure for Wide Scale Deployment”

Phase I (Characterization)

- 7 Partnerships (40 states)
- 24 months (2003-2005)



Phase II (Field Validation)

- 4 years (2005 - 2009)
- All seven Phase I partnerships continued
- \$100 million federal funds
- \$45 million in cost share

Phase III (Deployment)

- 4 years (2009-2013)
- Large Scale Injection Tests



Phase I Highlights

- **Thousands of Years of Storage Capacity Identified during Characterization Phase**
 - Coal Seams and Shales- ~ 18 GT
 - Oil and Gas Reservoirs - ~27 GT
 - Saline Formations - >5,000 GT
- **Value Added Products in Potential Sinks**
 - Oil – 16 billion barrels of oil during sequestration in favorable fields
 - Coal Seams – 126 TCF CBM during sequestration in unmineable coal seams
- **NATCARB and Regional Atlases Available Online**



Phase II Field Tests

