MAJOR POINT SOURCES OF CO₂ EMISSIONS AND CONCEPTUAL GEOLOGICAL SEQUESTRATION STRATEGIES IN INDIANA

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Major coal emission sources in Indiana: Steel Dynamics, Inc., Grain Processing Corporation, GE, Mirant Sugar Creek, C.C. Perry K Steam Plant, Bunge North America (Eas...)

Emission sources for major oil fields: City of Richmond, City of Logansport, City of Jasper, U.S. Geological Survey, New Energy Corp., C.C. Perry K Steam Plant, Bunge North America (Eas...

CO₂ storage potential in major coal sources in Indiana: coal seams that are too deep or too inferior in quality to mine; isolation in mature or depleting oil and natural gas reservoirs; storage in deep saline water-filled formations; enhanced oil recovery in geological formations.

Further evaluation to determine ability of these four conceptual geological sequestration strategies is ongoing.

1) CO₂ storage potential for major coals in Indiana: storage potential for major coals in Indiana.

2) CO₂ storage potential in oil fields in Indiana: storage potential for oil fields in Indiana.

3) CO₂ storage potential in the Mt. Simon sandstones in Indiana: storage potential in the Mt. Simon sandstones in Indiana.

4) CO₂ storage potential in New Albany Shales in Indiana: storage potential in New Albany Shales in Indiana.

Table showing coal and geological units of CO₂ storage capacities (metric tons):

- Low estimate
- Most probable estimate
- High estimate

- Major coal beds
- Mt. Simon Sandstone
- New Albany Shales

References:


Seal of the Eau Claire Shale has proven its ability to trap CO₂, making it an excellent storage unit and the cap-rock forming the seal of the Eau Claire Shale has proven its ability as a storage unit.