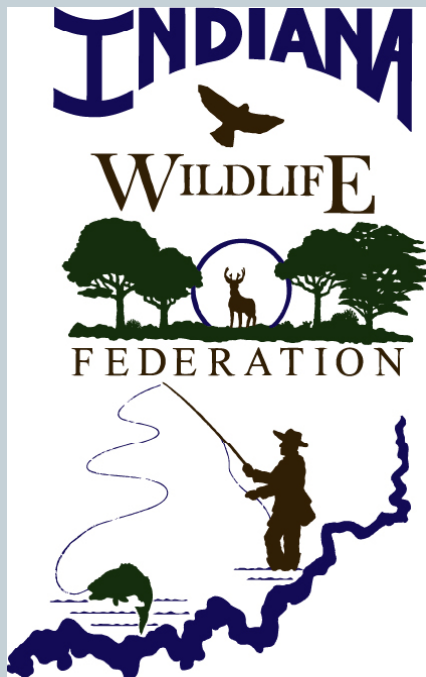


Support for Edwardsport IGCC/CCS



Indiana Wildlife Federation Mission



To promote the conservation, sound management, and sustainable use of Indiana's wildlife and wildlife habitat through education, advocacy, and action.

Cleaner Coal



- 95% of Indiana's electric power is coal
- 10% Renewable Energy Standard proposed + 10% Efficiency and Conservation resulting in a 20% reduction in CO₂ by 2020
- Is the fossil fuel era ending?
- Not for at least 30 years in Indiana
- Cleaner coal with carbon capture and storage is the short term answer as we transition to renewable energy sources.

Major Concerns of Wildlife Groups



- **Rapid climate change impacts and strategies for wildlife adaptation**
- **50 states have federally approved Wildlife Action Plans to increase fish and wildlife survival and adaptation**
- **750 sporting groups endorsed the climate change bill in 2008 and still support a cap on carbon**
- **Support Cap and Trade with dedicated funding for wildlife adaptation**
- **NWF goal is 2% reduction in carbon emissions per year until 2050**

Effects on Wildlife



- Fish advisories and mercury from Indiana power plants
- CO₂ forcing fish and wildlife adaptation to rapid climate change
- Fish and wildlife habitat loss of cold water fish, mussels, native species



Support for Edwardsport



- **Indiana Utility Regulatory Commission intervention by IWF and CATF**
 - *Make Indiana the leading state for IGCC*
 - Model full-scale IGCC/CCS demonstration
 - Transition for low emission coal for next 20 years
 - Energy technology investment—very clean coal processes and new alternative energy sources
 - Deep geologic CO₂ sequestration makes coal viable

Carbon Capture and Storage at Edwardsport



- Abundant Illinois basin coal and coal fired infrastructure in place
- CCS geology looks favorable, although not at Edwardsport site



MGA Recommendations



- **Geologic Carbon Storage Utility**
- **Tax credits for EOR and ECBM with geologic carbon storage**
- **Tax abatements for new or expanded CCS project development**
- **Develop comprehensive state and provincial regulatory programs environmental regulations for GCS projects**
- **Authority for CO₂ pipeline siting**
- **Property rights issues**
- **Financial responsibility and long-term care**

Costs and Challenges



- **Cost complications for Edwardsport CCS**
- **Department of Energy grants for CCS demonstration needed**
- **Draft comprehensive CCS legislation and Indiana Utility support**
- **Denbury CO₂ pipeline and Enhanced Oil Recovery help ratepayers**

Advanced Coal with CCS



- **By 2012:** A multi-jurisdiction CO₂ pipeline sited and permitted
- **By 2015:** Commercial IGCC with CO₂ capture using both eastern and western coals by 2015 (MGA states have 25% of U.S. recoverable reserves)
- **By 2020:** All new coal plants have CCS
- **By 2050:** Entire coal fleet is transitioned to CCS
- *Regional commitments rival those of the European Union*