

Grant Round Application for LRC LXXII (72)-A

TECHNICAL ADVISOR'S SUMMARY and RECOMMENDATION
LRC-LXXII (72) – A

“Evaluation of CO₂ Capture from Existing Coal Fired Plants by Hybrid Sorption Using Solid Sorbents (CACHYS™)”

Submitted by: University of North Dakota (UND) Institute for Energy Studies;

Request for: \$350,000; Total Project Costs: \$3,690,000;

Principal Investigators:

Steven A. Benson, Ph.D. (UND Institute for Energy Studies and Srivats Srinivasachar, Ph.D. (Envergex LLC);

Project Duration: Three Years.

Description of the Project:

The project team proposes to develop and demonstrate a hybrid solid sorbent-based process to capture CO₂ from flue gas using novel process chemistry and contactor conditions. The goal is cost-effective CO₂ capture and separation technology applicable to lignite-based power plants.

Technical Advisor's Recommendation: Fund

Fund subject to the following:

- Matching Funding received from all the parties.
- Inclusion of go/no go milestones that demonstrate the potential for this technology to be at least competitive with other options for CO₂ capture currently demonstrated.

Conflict of Interest:

Minnesota Power, SaskPower, BNI Coal, Ltd.