

**AN OVERVIEW OF UNCONVENTIONAL NATURAL GAS DEVELOPMENT
IN THE FAYETTEVILLE SHALE PLAY**

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The Department of Energy created a program known as the Low Impact Natural Gas and Oil program, or LINGO in 2005. DOE's intent was to establish programs with the joint goals of enhancing environmental protection and streamlining on-shore natural resource extraction. The University of Arkansas and Argonne National Laboratory have teamed together to develop tools designed to meet these goals using the Fayetteville Shale natural gas play as the test bed. This presentation will give an overview of activities in the Fayetteville Shale Play and an overview of the UA / Argonne project.

The LINGO project has been developed with strong the stakeholder support from both industry and government. Two major components have been developed: an educational web site designed for general public access, and a geospatial decision support system designed primarily for governmental and industrial use. The educational site provides a detailed description of an unconventional natural gas play life cycle with links to both environmental issues and regulatory requirements. The decision support site provides analytical tools intended to enable decision makers to quickly identify potential impacts associated with infrastructure development.

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