

**“Lignite Vision 21 Feasibility Project Phase IV
– Engineering Business Development and Design”**

Submitted by: Great Northern Power Development L.P.

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PARTICIPANTS

<u>Sponsor</u>	<u>Cost Share</u>
Great Northern Power Development L.P.	\$31,639,143
NDIC	\$7,328,807
Total Cost:	\$38,967,950

Project Schedule - 10 Years
Contract Date: 10/19/09
Start Date: 10/01/07
Completion Date: 9/30/12

Project Deliverables
Contract Signed: 10/19/09
Progress Reports: Progress report #1: 11/18/09
Progress report #2: 12/09/09
Progress report #3: 05/12/10
Final Report:

OBJECTIVE / STATEMENT OF WORK

The Lignite Vision 21 feasibility study submitted by Great Northern Project Development is focused on developing a coal gasification project based on the coal reserves of Great Northern properties in western North Dakota. The project will use gasification followed by a shift reactor to produce H₂ and CO₂ with the H₂ used to produce power and the CO₂ sold for enhanced oil recovery (EOR).

STATUS

Progress Report #1: 10/1/07-9/30/08

During this period the project completed gasifier pilot work, studies on plant engineering and optimization, deep well injection, coal beneficiation and water supply studies. No fatal flaws have been encountered to date. A mining permit was filed for a 300,000 ton/day lignite mine. Analysis of existing transmission and pipeline facilities were analyzed to determine their ability to support potential off take arrangements.

Progress report #2: 10/1/08- 9/30/09

The project strengths: Low-cost fuel and state-of-the art gasification technology have allowed the project to adapt its main product slate from SNG to electricity from hydrogen and CO₂ for EOR. During this period, studies were completed - conceptual design, plant engineering and optimization, fuel and byproducts, and water supply.

Progress report #3: 10/1/09-3/31/10

The project focused during this period on the EPC selection, initial process/FEED/geotech studies and cost & schedule updates. Also during this period, Great Northern Power Development has aggressively pursued potential off-takers for electricity, and CO2, equity partners and product marketing organizations