

The Mesaba Energy Project

Energy, Innovation and Economic
Development for Minnesota

By
Excelsior Energy, INC.

MARCH 10, 2006

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Project Goals

- Adding Needed Energy Infrastructure in the State of Minnesota
- Job Creation and Economic Stimulus to NE Minnesota
- Making a Major Contribution to Environmental Protection

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Project Team

- Excelsior Energy, Inc.
 - Principal- Tom Micheletti
 - Principal- Julie Jorgenson
 - VP Development-William Ruzynski
- Strategic Finance Resources, Inc.
 - Principal- Renee Sass
- Sherner Power Consulting LLC
 - Principal- Steve Sherner
- Browsers Consulting LLC
 - Principal- Bruce Browsers

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Advisory Team

- | | |
|---|---------------------------------------|
| ■ Plant Engineering | Bechtel Corporation |
| ■ Site Engineering and Assessment: | HDR Engineering and
SEH Consulting |
| ■ Transmission Planning and Engineering: | Acres Management
Consulting |
| ■ Economic Forecasting/Project Feasibility | KCF Consulting Inc |
| ■ Legal Counsel | Latham & Watkins |
| ■ Legal Counsel and Government Relations
(Federal and Minnesota) | Lockridge Grondal Nason |
| ■ Government Relations (Minnesota): | Cook Hill Girard |
| ■ Project Support: | Iron Range Resources |

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Description

- Integrated gasification combined cycle (IGCC)
 - Initial phase 550-850MW in-service Spring 2010
- Site on Iron Range in NE Minnesota
 - Capable of hosting 2000 MW
- Major new 345 KV, 500 KV, or HVDC development will be necessary to deliver output to growing regional markets

March 11, 2004

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Why IGCC Technology

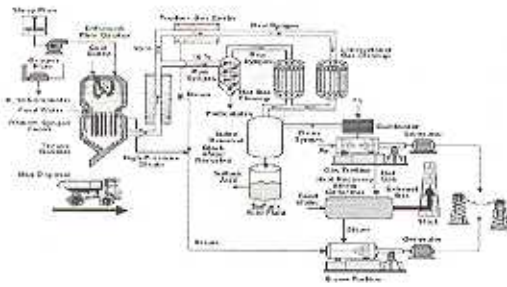
IGCC is a clean, competitive and stable cost option:

- Provides long-term fuel hedge
- Minimizes use of natural gas for power generation, reducing pressure on natural gas supply and prices
- Environmental profile is substantially better than conventional coal plants, minimizing opposition from environmental groups and risk of retrofit requirements as emission limits tighten
- Cost-effective mercury removal capability is critical under tightening Federal emission limits and measures under current consideration by many states
- Higher efficiency than conventional coal plants
- Competitive capital costs compared to a supercritical coal plant
- Positioned to be BACT for coal fired generation
- Furthers the goals of the National Energy Policy, including Hydrogen Vision and FutureGen initiatives
- Uses abundant, domestic coal resources, reducing reliance on imported fuels
- Enjoys strong bi-partisan support from Minnesota policy-makers

March 23, 2004

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IGCC Process

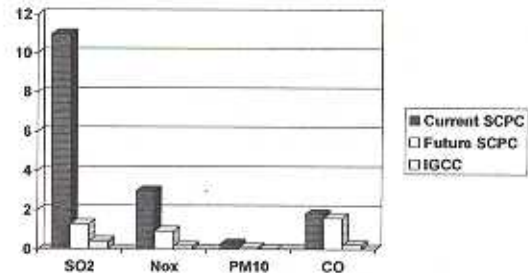


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Emissions

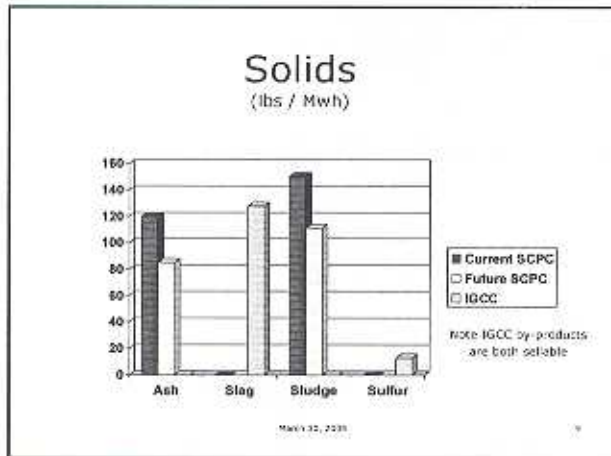
(lbs / Mwh)



** Cost of mercury removal for IGCC is estimated at 10-15% of conventional coal plant and can achieve 90-95% removal

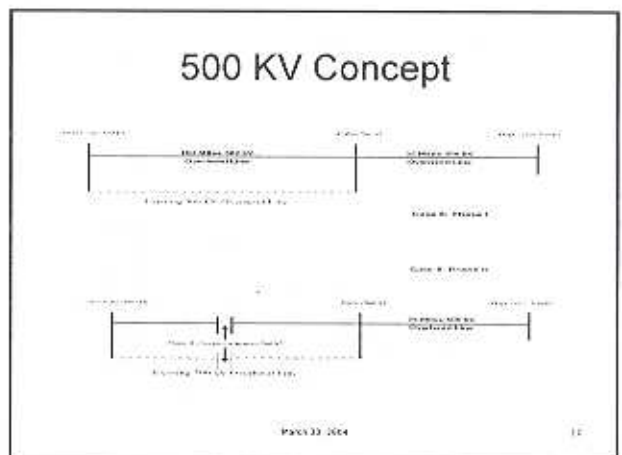
March 23, 2004

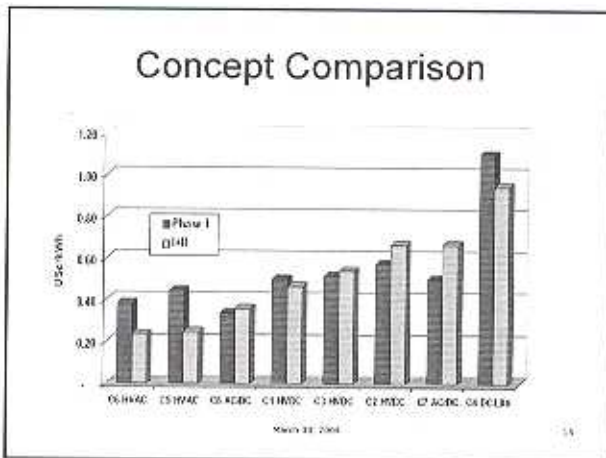
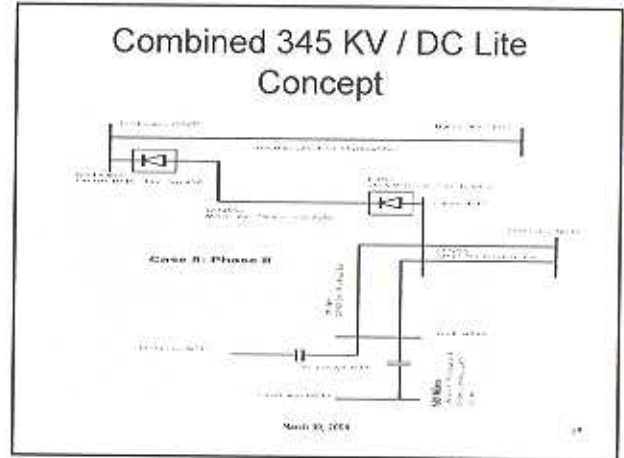
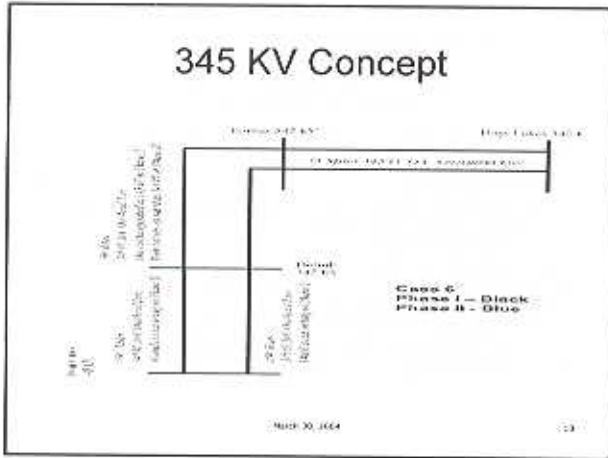
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- ### Transmission Concepts Screening Study
- Performed by Acres Management Consulting
 - Technical Support from Sherner Power Consulting
 - Technical & Economic Screening
 - No system studies performed
 - Completed in first half of 2003
- MAY 22, 2004

- ### Key Study Parameters
- Delivery of 750 MW in Phase I and an additional 750 MW in Phase II
 - Technologies evaluated
 - HVAC, HVDC, and HVDC Lite
 - Markets
 - Twin Cities 750-1500 MW
 - Eastern Wisconsin 750-1500 MW
 - NW Ontario 250-500 MW
 - NW Wisconsin 200-300 MW
 - Concepts evaluated with and without Duluth - Wausau Project
- MAY 22, 2004





Current Status

- What we know
 - Major new transmission development will be necessary to deliver plant output
 - Strong political support for transmission line from Northeastern Minnesota to Twin Cities market due to economic development benefits of in-state power generation facilities
 - Both the generation and any related transmission are exempt from the certificate of need requirement
 - Excelsior Energy was given eminent domain rights
 - Planning and development falls under the MISO processes for Large Generator Interconnection and Transmission Service

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Current Status

- What we believe
 - Multiple, feasible transmission concepts are possible
 - These concepts should be able to integrate effectively with the existing regional development plans reviewed
 - Proposed transmission development should help improve regional reliability and system performance
 - Single largest contingency in MAPP region should be mitigated
 - Operating reserves can be reduced
 - Extensive use of existing ROWs should help minimize environmental impacts and public opposition

MARCH 20, 2006

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Current Status

- What we don't know
 - Local transmission improvements necessary to deliver to the ultimate loads
 - How we work with MISO, MAPP and local utilities
 - Who pays and how much for transmission service

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Questions and Feedback

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