



Dakota Spirit AgEnergy TALKING POINTS

- Great River Energy and Inbicon A/S (the cellulosic biorefinery technology subsidiary of Danish utility DONG Energy) are working together to develop and build a cellulosic biorefinery to be located adjacent to Great River Energy's Spiritwood Station combined heat & power plant at Spiritwood, ND.
- While Great River Energy and Inbicon A/S are leading the development of this technology in North Dakota, they are approaching the operation of this biorefinery through a "cooperative" approach that worked well for first generation ethanol development. **Dakota Spirit AgEnergy LLC** has been formed to take this project forward.
- Great River Energy is leading the biorefinery development in order to secure the second major steam partner for Spiritwood Station combined heat & power plant to regain its original design efficiency and economics.
- Blue Flint Ethanol/Headwaters, North Dakota Department of Commerce (NDDOC) and Jamestown/Stutsman Development Corporation (JSDC) are among the first key stakeholders to commit time and resources to the biorefinery project team. Other key stakeholders that will join the project team will likely include feedstock suppliers, EPC Contractor and commercial lenders.
- A cellulosic biorefinery converts biomass into a variety of higher value energy products including cellulosic ethanol, C5 molasses and purified lignin pellets (solid fuel).
- North Dakota has an abundance of biomass in the form of crop residues. Preliminary feedstock assessments show adequate availability within a reasonable distance from the proposed site. Raw biomass is difficult to burn directly as a fuel source. Through thermal and enzymatic processing, higher form value product streams are created that are easier to handle, store and transport.
- Inbicon is currently operating this technology on a demonstration scale (1.4 MGPY) in Kalundborg, Denmark. Dakota Spirit AgEnergy could be one of the first commercial scale plants in North America.
- This project development timeline will depend on federal, state and local grants and loan guarantees in order to secure necessary project financing. The initial 12 month phase in 2010 will be devoted to creating the consortium of stakeholders, securing essential grants and project financing.
- When fully operational, the biorefinery will employ production approximately 57 workers directly at the plant. The feedstock supply chain will create additional jobs and business opportunities required to harvest, collect, store and transport biomass. Significant construction and trade jobs will be created for the construction phase of the project.



- The total estimated cost of the cellulosic biorefinery will depend on the final sizing and design. Because it is new technology, the cost to build the plant is significant. Financing will depend on obtaining federal and state grants and loan guarantees.
- Developing domestic sources of renewable energy reduces our dependence on foreign oil and increases national security. Renewable energy provides local jobs and environmental benefits by reducing emissions associated with energy production.

About the Dakota Spirit AgEnergy Biorefinery partners

Great River Energy is a wholesale generation and transmission cooperative with generation assets in North Dakota and Minnesota to serve its 28 member distribution cooperatives in Minnesota and Western Wisconsin. Great River Energy’s newest power plant is Spiritwood Station, a combined heat & power plant in Spiritwood, ND. Great River Energy can improve the efficiency and economics of the power plant by selling steam to nearby processing companies. A Cellulosic Biorefinery uses steam and can supply solid fuel by-products that can further improve the carbon footprint through biomass co-firing.

Inbicon A/S is a Cellulosic Biorefinery technology subsidiary of DONG Energy, a Danish utility company. Inbicon has patented technology to pre-treat and process wheat straw and other crop residues to make a superior feedstock for biofuels including cellulosic ethanol and purified lignin. Because Denmark has a strong national commitment to using indigenous, renewable resources for energy, Inbicon set out to improve the processing and handling of crop residues for energy production.

Blue Flint Ethanol/Headwaters, Jamestown Stutsman Development Corporation and the North Dakota Department of Commerce are among the first key stakeholders to commit time and resources to the biorefinery project team.

Dakota Spirit AgEnergy project contacts:

Great River Energy	Inbicon A/S	JSDC	Department of Commerce
Sandra Broekema Business Development (763) 445-5304 sbroekema@GREnergy.com www.greatriverenergy.com Al Christianson North Dakota Business Development (701) 442-7664 achristianson@greenergy.com www.greatriverenergy.com	Michael Persson VP Finance & Corp Affairs +45 99 55 11 11 miper@inbicon.com www.inbicon.com	Connie Ova CEO (701) 252-6861 connie@growingjamestown.com www.growingjamestown.com	John Mittleider Manager, Ag & Energy Dev (701) 328-5386 jmittleider@nd.gov www.nd.gov