

MIDWEST BIOENERGY LTD
WASTE TO PROFIT



***RENEWABLE AMMONIA
DEVELOPMENT OPPORTUNITY
EXECUTIVE SUMMARY***

July 1, 2014



EXECUTIVE SUMMARY

- Midwest BioEnergy intends to construct a renewable fertilizer plant in Monmouth Illinois. The objective of the project consists in capturing the waste Bio-Gas produced in a digester owned by the City of Monmouth, and converting this waste into low carbon, Industrial, Anhydrous Ammonia (“AA”)
- The new plant will be operated and developed by Midwest Ammonia Inc. Agrebon Inc. is to provide the patented process.
- The project will be utilizing Haber-Bosch proven fertilizer technology, which converts methane into low carbon, anhydrous ammonia. This technology allows waste facilities to capture their waste gas and produce renewable ammonia at a cost effective scale, and takes advantage of transportation savings by being close to the end users.

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- The plant will produce 7,500 tons of AA per year. The plant has secured off-take contracts for all of its production with an industrial user, a fertilizer wholesaler, and Holesinger Farms Inc. The mandatory use of renewable ammonia will be demanded by processing companies and retailers in the immediate area.
- The digester providing the Methane Gas is owned and operated by the City of Monmouth and is located at the city's water treatment facility. An agreement has been negotiated for the supply of the Biogas to the plant. Natural Gas will be used as a backup in the event that the digester is not able to produce enough biogas. The City of Monmouth is fully supporting the project and will use DOE grant funds (\$ 500,000) to build the first stage of the gas cleanup system. That stage of the project is under construction and will be completed on September 28, 2014.

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- Benchmark Design LLC of Clearwater Florida will provide the detail engineering for the plant. Brasfield & Gorrie has been selected as the EPC contractor. They will construct the plant with a Not-to-Exceed bonded contract, and will start up the plant.



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- Golder Associates is the EPA contractor to apply for all the required operating permits. As the plant will be built on property owned by the city, the EPA will require the city permits and the plant permits to be combined. It is not anticipated that there will be any issues, as the resulting air emissions after the plant is built, will be equal to or less than current air emissions. The plant will use waste water for the process and cooling as needed.
- Midwest BioEnergy requested a third party engineering review to be performed on Agrebon's process by Audobon Engineering Company of Baton Rouge, Louisiana. The review resulted in a satisfactory opinion.
- The required equipment for the project has been located, and remains available with the different suppliers. Once Midwest Ammonia completes the detail engineering, secures all required permits, and takes the project to Notice to Proceed (NTP) status, the plant will be completed and in production in less than 12 months. Current time line is for construction to begin in the 4 quarter of 2014.

CONTACT INFORMATION

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