

INSIGHTS ABOUT GASTECHNO®

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GAS TECHNOLOGIES APPOINTS ZETON INC. AS ITS PREFERRED ENGINEERING AND DESIGN-BUILD FIRM

PETOSKEY, MI -- (March 31, 2010). Gas Technologies LLC (GTL) is pleased to announce the agreement reached with Zeton Inc. to provide engineering and design-build services for the GasTechno® methane-to-methanol process demonstration plant.

Gas Technologies evaluated several proposals from third-party companies to provide these services during the past four weeks, and Zeton Inc. was one of those companies. The final decision was based upon two main criteria; 1) that all improvements and patentable inventions and know-how would remain the intellectual property of Gas Technologies, and 2) that the engineers actually had the capability and experience to build these plants using their own facilities. The ability to introduce new add-on technologies, such as our Methanol-to-Gasoline process and our Integrated Biorefinery using Algae production, was of most importance in our final selection.

“Our decision to select Zeton came after realizing their business model was a perfect fit for our own strategy. Gas Technologies is a technology design firm, and our IP is most important to protect. We built our own pilot plant here in Michigan, and went through a lot of difficult IP issues trying to outsource equipment manufacturing,” said Walter Breidenstein, CEO of Gas Technologies LLC. “When Zeton showed us how they would assign to us any improvements or patentable inventions related to the GasTechno® methane-to-methanol process made in the engineering and design-build phase of the demonstration plant, it eliminated a lot of other companies immediately. Direct methane conversion is the future of GTL and clean-green chemicals and I don’t want to take any more risks with manufacturers that don’t have the track record of a company like Zeton.”

The GasTechno® Process is a single step gas-to-chemicals technology which produces oxygenates from natural gas. Because syngas production is not necessary, the process is considerably less complex, requiring significantly smaller capital investment compared to traditional fuel and chemical conversion technologies. Utilization of Total Process Integration puts heat and product streams to work, further improving process efficiency.

When applied to wet gas, the GasTechno® Process can be integrated with a unique, proprietary NGL plant, referred to as GasTechno® NGL. GasTechno® NGL maximizes economic returns by operating a GasTechno® plant side-by-side with a NGL-LPG plant based on common use of OSBL equipment, Total Process Integration, and optimal operating conditions. GasTechno® NGL together with the GasTechno® process can produce an attractive product slate which includes: propane, butane, natural gas condensate, methanol, ethanol, formaldehyde, and even electricity. The methanol and formaldehyde family of fuel and chemical derivatives includes highly sought after products of fertilizer, gasoline, diesel, DME, olefins, acetic acid, formic acid and many others under development.



David Beckman, President of Zeton Inc., states, “Zeton has a history of working with companies like Gas Technologies LLC in the commercialization of novel process technology. Specifically in this case, Zeton will apply its expertise in designing and building modular pilot and demonstration scale plants to the GasTechno® Process developed by Gas Technologies. Zeton is confident that our collaboration with Gas Technologies will result in a purpose-built demonstration plant that will serve to both confirm and quantify the benefits of the GasTechno® Methane-to-Methanol Process.”

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Gas Technologies is dedicated to becoming a world leader in the single-step conversion of methane into valuable commodity fuels and chemicals via the GasTechno® family of technologies. Their latest designs include a totally Integrated Biorefinery with an Algae production system utilizing CO₂ and flue gas emissions, a Methanol-to-Gasoline process at modular scale and one of the more promising fertilizers using methylglycosides and alkylglycosides. GTL’s technologies can monetize small scale sources of methane, biogas and biomethane where no economically viable alternatives currently exist.

Zeton specializes in the design and fabrication of lab scale systems, pilot plants, demonstration plants and small modular commercial plants. Conveniently located in Burlington, Canada and Enschede, The Netherlands, Zeton serves a worldwide customer base, providing unique solutions in the most challenging of process development niches - innovation through to early market development. www.zeton.com