



December 15, 2007

## Novus Energy receives patent approval for RGL™ (Renewable Gas-to-Liquid™) technology

On December 13, 2007, the U.S. Patent Office granted Novus Energy's 2005 patent application, 'Ethanol Production from Biological Wastes'.

The patent, which received quick review and approval—fewer than 18 months—is significant because it covers all biofuels production methods utilizing biogas generated by iron-metabolizing bacteria. Bacteria that use iron to power their life processes are the most energetic of all anaerobic bacteria; they break down cellulose and other complex molecules more rapidly and efficiently than species that ferment other (non-oxygen) compounds, such as sulfur. The digestion products of these bacteria—acetic acid, hydrogen, and carbon dioxide—are, in turn, metabolized by other anaerobic bacteria, yielding methane gas, the feedstock intermediate in the RGL process.

With the issuance of the patent, a potential biogas-to-liquid fuels competitor would need to either: (1) Use less efficient sulfur bacteria to boost digestion and cope with costly sulfur compound removal from the biogas, or (2) Use anaerobic bacteria that are even less efficient because they are unable to use iron or sulfur compounds to power their metabolism.

With the approval of the primary claim, the Company expects a favorable disposition on the other three applications in the next several months: (1) A method to produce sulfur-free biogas and sulfur-free alcohols, using biological and chemical catalysts. (2) An apparatus to increase biogas production using iron-metabolizing bacteria and powdered iron in an anaerobic bio-digester. (3) Other methods to increase biogas (and biofuels) yield.

Novus Energy also expects a favorable ruling on the 'Ethanol Production from Biological Wastes' patent application filed last November in the European Union, China, Japan, Brazil, Argentina, Mexico, Canada, and Australia.

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### Notes to Editors

Novus Energy, LLC, a Minnesota (U.S.A.) renewable fuels development company, was organized in 2004 to design, fabricate and rollout high-yield fuel-grade alcohol facilities, using organic waste materials (including cellulosic wastes) as the fuel feedstock. The company's proprietary process generates methane-rich biogas from advanced anaerobic digestion methods, and converts the biogas

to ethanol and higher alcohols using a novel renewable gas-to-liquid (RGL™) process. The company currently has contracts to build refineries at a North Dakota sugar beet processor, and at Minneapolis landfill, while contracts are in process at an Idaho potato plant, a North Dakota Municipality, a Texas Creamery and at an Iowa site where a facility will be built to convert farm waste - corn stover and hog manure.

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