

PROE POWER SYSTEMS RECEIVES PATENT TO LOWER COST OF BIODIESEL PRODUCTION

Allows Self Powered Production Process Using Otherwise Wasted Byproduct

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Contact Name: Richard Proeschel

Contact Phone: (USA) 1-800-315-0084 Ext. 600

or (Outside USA) 1-330-723-4469 ext 600

Contact email: raproe@proepowersystems.com

Contact website: www.proepowersystems.com

Medina, OH – January 15, 2015 – Biodiesel should be an ideal fuel. It is a clean diesel fuel alternative derived from waste cooking oil, animal fat, or vegetable oils and has many advantages over petroleum derived diesel fuel. In addition to the obvious advantage of not requiring foreign oil, it is also carbon neutral, non-toxic, naturally low sulfur, cleaner burning than petroleum diesel, and yields better mileage than petroleum diesel. However, it does have drawbacks - and one of the most significant is that it costs more to produce than petroleum diesel. On October 14, 2014, Proe Power Systems of Medina, Ohio was awarded U.S. Patent 8,858,223 for a technology that can potentially obliterate that cost barrier and will demonstrate the technology in 2015 with a "Proof of Concept" Powerplant to show to potential customers and investors.

Most biodiesel production results in about a gallon of crude waste glycerin for every 10 gallons of biodiesel fuel produced. The crude glycerin contains oils and other residue that makes it unsuitable for chemical or industrial use without expensive pre-processing. So biodiesel producers typically pay to have large quantities of byproduct glycerin removed and incinerated, at a cost to themselves and to the environment. Proe Power Systems will change all that. Richard Proeschel, Proe Power Systems' Chairman, explained "Our new glycerin engine technology will allow biodiesel producers to use the crude waste glycerin, without refining, in our engine to make combined heat and power so the biodiesel process can be largely self powered by cleanly utilizing its own waste. The producer can then reduce or avoid the utility cost for power and heat along with completely avoiding the monetary and environmental cost of disposing of the crude glycerin. That dual cost advantage will be a game changer for biodiesel."

The timing is perfect. Proe Power Systems has applied for government funding to build a "Proof of Concept" demonstrator to prove the claims for their glycerin engine technology. According to Proeschel, the government feedback has been "very encouraging to this point". The company expects to hear the final decision by the end of January 2015. The company is also seeking accredited investors to join them in getting the project moving forward.

Proeschel emphasized the importance of the newly allowed patent: "The addition of this new glycerin engine technology to our already impressive patent portfolio

continues to make Proe Power Systems a leader in applying thermodynamic science to meeting the nation's goals of promoting energy independence for our country while dramatically improving the environment. Although our technology is extremely simple and practical, it has the potential to radically change the power generation market.”

Additional information can be found at www.proepowersystems.com.

12¹/₂ kWe Proof of Concept Glycerin & Solid Biofuel Powerplant

