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Ener-Core Completes Successful Initial Testing of its Technology for Applications in the Large Oil and Gas Market

- Proves electrical power generation from ultra-low density fuel emissions at full-scale operation -

- Represents significant new market opportunity in $20 billion oil and gas industry -

- Moves toward on-site pilot testing in Northern Alberta -

IRVINE, Calif., Sept. 9, 2014 /PRNewswire/ -- ENER-CORE, Inc. (OTCQB: ENCR), designer and manufacturer of proprietary Gradual Oxidation technology and equipment that generates clean electric power from low quality and waste gases, successfully completed initial testing of its Gradual Oxidation technology at its full-scale operational facility in Irvine, CA.

At the request of a major Canadian integrated oil company with significant operations in the oil sands region of northern Alberta, Ener-Core performed the test on August 21, 2014. The fuel used for the test was an ultra-low energy density fuel (~50 Btu/scf) similar in composition to the associated petroleum gases flared around the world during the exploration, refining and production of petroleum and natural gas. The exhaust emissions and energy production were measured and independently verified by the University of California, Irvine (UCI) combustion laboratory.

Dr. Vince McDonell, Associate Director of UCI's Combustion Laboratory in the School of Engineering, stated, "Ener-Core's Gradual Oxidation technology demonstrated remarkable results in reducing harmful exhaust emissions and generating energy. It is truly significant that Ener-Core's technology can generate electricity on a fuel with an energy density five to six times lower than that required for traditional gas power generation technologies. The possible applications for Ener-Core's technology continue to astound us."

"This significant accomplishment by Ener-Core's engineering team demonstrates our technology's ability to solve real problems plaguing the oil and gas industry," stated Dr. Boris Maslov, Ener-Core's Chief Technology Officer. "This customer demonstration proves the viability of our Gradual Oxidation for low-density waste fuels at a fully operational commercial system. It also validates that Ener-Core has the first technology that can destroy potential emissions resulting from various forms of oil drilling operations, while simultaneously producing electricity and heat."

Michael Leone, Market Development Manager at Ener-Core, added, "The successful testing of this simulated waste gas is an important milestone toward Ener-Core's entry into the $20 billion oil and gas industry. Our next step is to deploy an extended pilot test onsite at a customer's live oil well in the harsh conditions of Northern Alberta, which we expect to go well as our technology has already performed successfully in other industrial environments. Following the onsite testing, we envision the subsequent launch of this technology at an operational oil field, which would represent an opportunity to deploy over 200 of Ener-Core's 2 MW Powerstations at one of many oil fields for this customer."

The company continues to deploy its multi-industry strategy, demonstrating the multiple applications for its technology in industries such as landfills, refineries, oil fields, coal mines, distilleries, and industrial manufacturers of plastics and steel.

About Ener-Core, Inc.
Ener-Core designs and manufactures innovative systems for producing continuous energy from a broad range of sources, including previously unusable ultra-low quality gas. The Ener-Core Gradual Oxidizer, our patented oxidation technology, enables the conversion of these gases into useful heat and power with the lowest known associated emissions. With the Ener-Core Gradual Oxidizer matched to gas turbines, Ener-Core offers systems with fuel flexibility and pollution control for power generation. The Gradual Oxidizer can also be customized for integration with larger existing power generation systems to offer unparalleled pollution control and achieve zero emissions. Ener-Core has developed the 250kW Ener-Core Powerstation FP250 ("FP250"), and its larger counterpart, the 2MW Ener-Core Powerstation KG2-3G/GO, to transform methane gas, especially "ultra-low-Btu gas" from landfills, coal mines, oil fields and other low quality methane sources into continuous clean electricity with near-zero emissions. The Powerstations are specifically engineered for fuel flexibility and modularity, so that these low-Btu gas sources can be used as an energy resource instead of wasted through venting and/or flaring.

With dedication, deep expertise, and broad energy experience, Ener-Core seeks to serve several markets globally, including oil fields, biogas, coal mines, natural gas, emissions control, and utility power generation. For more information, please visit the Ener-Core website: www.Ener-Core.com.

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Forward-looking statements contained in this press release are made under the Safe Harbor Provision of the Private Securities Litigation Reform Act of 1995. Information provided by Ener-Core, Inc., such as online or printed documents, publications or information available via its website may contain forward-looking statements that involve risks, uncertainties, assumptions, and other factors, which, if they do not materialize or prove correct, could cause its results to differ materially from historical results, or those expressed or implied by such forward-looking statements. All statements, other than statements of historical fact, are statements that could be deemed forward-looking statements, including statements containing the words "planned," "expects," "believes," "strategy," "opportunity," "anticipates," and similar words. These statements may include, among others, plans, strategies, and objectives of management for future operations; any statements regarding proposed new products, services, or developments; any statements regarding future economic conditions or performance; statements of belief; and any

statements of assumptions underlying any of the foregoing. The information contained in this release is as of June 24, 2014. Except as otherwise expressly referenced herein, Ener-Core assumes no obligation to update forward-looking statements.

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