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# **Ener-Core Completes Successful Department of Defense Demonstration Project at Fort Benning**

## **Independent Testing Confirms Ener-Core System Exceeds Strictest NOx Emissions Standards for Methane Power Generation and Pollution Control**

IRVINE, Calif., Feb. 4, 2014 /PRNewswire/ -- Ener-Core, Inc. (OTCQB: ENCR; "Ener-Core" or the "Company"), whose proprietary Gradual Oxidation technology and equipment generates clean electric power from low quality and waste gases, today announced the successful completion of its demonstration project at the Department of Defense's (DoD) Fort Benning, GA Army post. The Ener-Core 250 kW Powerstation, the only solution to offer both methane pollution control and energy generation, converted previously wasted landfill gas into enough renewable electricity to power 250-300 homes. The clean energy produced at Fort Benning contained near-zero emissions of nitrogen oxides (NOx) and served to reduce both the Army's carbon footprint and its bottom line.

"Ener-Core is thrilled to have this demonstration confirm that our system exceeds the strictest NOx emissions standards for methane power generation and pollution control, and is ideal for ultra-low quality gas," said Boris Maslov, President of Ener-Core. "These types of gases have been deemed useless due to the fact that no technology was available to convert them to energy in a financially viable manner. Now that this technology exists and is proven, we look forward to deploying this into a wide variety of sites across the US and overseas, where low-quality waste gases are being either flared or directly emitted into the atmosphere, and working directly with the various industries that currently generate these gases in converting them to power while at the same time protecting our environment," Maslov said.

"In recent independent testing, the Ener-Core system has demonstrated significantly lower emissions of NOx and non-methane organic carbon than many waste to energy solutions," said Tim Hansen, Director of Advanced Energy & Transportation Technology at Southern Research Institute, who commissioned the demonstration. "We are encouraged by Ener-Core's progress during the demonstration period and look forward to widespread commercial deployment for the technology," Hansen said.

Ener-Core's breakthrough system converts ultra-low quality methane into usable clean electricity. The system architecture and proprietary technology allows for utilization of all sources of methane gas, even from closed landfills. The Fort Benning installation is ran on previously unusable methane gas and produced a cost-effective source of renewable power.

Southern Research's independent tests during the demonstration were conducted per standard reference methods of the U.S. Environmental Protection Agency. Among the results, which have since been formally published, the Ener-Core system emitted less than five percent of the California Air Resources Board's 2013 (CARB 2013) allowable limit for nitrogen oxides.

"The CARB 2013 standard is considered to be among the strictest in the world, and our NOx emission results are unprecedented for a turbine or reciprocating engine running on waste gas," said Maslov.

The Fort Benning Ener-Core Project was funded by the DoD Environmental Security Technology Certification Program (ESTCP), which seeks innovative and cost-effective technologies to address high-priority environmental and energy requirements for the DoD. The system was originally commissioned in November 2011. As Richard Kidd, Deputy Assistant Secretary of the Army (Energy & Sustainability), remarked at the system's 2011 ribbon cutting, "We are converting what was once a waste stream, a pollutant, a contaminant, and a liability, into what will be a resource going forward."

### **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 serves 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: <http://ener-core.com/>.

### **Cautionary Statement Regarding Forward-Looking Statements**

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 November 15, 2013. Except as otherwise expressly referenced herein, Ener-Core assumes no obligation to update forward-looking statements contained in this release as the result of new information or future events or developments.

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