

Nexterra Receives Order from Johnson Controls for a Multi-million Dollar Biomass Gasification System at the U.S. Department of Energy's Oak Ridge National Laboratory

Vancouver, BC – Sept. 12, 2008 – Nexterra Energy Corp. (www.nexterra.ca) announced today that it has received an order from Johnson Controls Inc. for a multi-million dollar biomass gasification system at the U.S. Department of Energy's Oak Ridge National Laboratory (ORNL) located in Oak Ridge, Tennessee.

The Nexterra biomass gasification system is the cornerstone of an \$89 million contract for Johnson Controls to undertake a wide range of building management and energy conservation measures at ORNL. The ORNL campus is home to the U.S. Department of Energy's largest science and energy laboratory as well as the DOE's Bioenergy Science Center.

The Nexterra system will replace ORNL's existing natural gas steam plant by converting locally sourced woody biomass into clean burning syngas. The syngas will produce 60,000 lbs/hr of saturated steam to displace 75 MMBtu/hr of fossil fuel traditionally used to heat the campus. Once operational, the system will reduce campus fossil fuel consumption by 80 per cent.

Nexterra is supplying the complete gasification system from fuel handling and storage through to the exhaust stack. Engineering design is underway and the system will be delivered in late 2009. Click [here](#) to view illustration.

"This project showcases the opportunity for public institutions to partner with the private sector to deploy innovative clean energy technologies that can make us more energy independent," said ORNL Director Dr. Thom Mason. "We have a terrific partner in Johnson Controls and a proven gasification technology leader in Nexterra. The combination will help make us less reliant on fossil fuel and at the same time enhance our bioenergy capabilities at the practical and research levels."

The Johnson Controls contract for ORNL was among the first awarded under the Department of Energy's Transformational Energy Action Management (TEAM) Initiative. TEAM aims to reduce energy waste and greenhouse gases at DOE facilities nationwide by 30 per cent and have those facilities acquire at least 7.5 per cent of all energy from renewable sources by 2010.

The entire Johnson Controls-ORNL project will save ORNL an estimated \$8.7 million annually and reduce greenhouse gas (GHG) emissions by more than 30,000 tons per year. The Nexterra biomass gasification system will contribute about two thirds of the GHG emissions reductions, or the equivalent of taking 5,000 cars off the road each year.

"ORNL is the flagship energy research institution in the country and we are very pleased to partner with Nexterra to deliver another state-of-the-art biomass gasification system," said Don Albinger, Vice President of Renewable Solutions at Johnson Controls. "Nexterra has consistently demonstrated that its technology is a new standard for converting biomass into energy that is clean, reliable, versatile and ideally suited to institutional and urban environments."



Jonathan Rhone, President and CEO of Nexterra, said the ORNL installation represents a tremendous opportunity to showcase the benefits of biomass gasification.

"We are very pleased to collaborate with Johnson Controls to support this important project at ORNL," Rhone said. "Nexterra's biomass gasification system will not only assist ORNL to meet its cost and GHG reduction targets, but will also help raise the profile of biomass gasification and what it offers in terms of increased energy security, lower costs and improved air quality."

An illustration of Nexterra's gasification system at ORNL, photos and a Nexterra corporate profile are available. Click [here](#).

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About Nexterra Energy Corp. – Nexterra Energy is a leading developer and supplier of advanced gasification systems that enable customers to self-generate clean, low cost heat and/or power using waste fuels "inside-the fence" at institutional and industrial facilities. Nexterra gasification systems provide a unique combination of attributes including design simplicity, reliability, versatility, low emissions, low cost and full automation to provide customers with a superior value proposition compared to conventional solutions. Nexterra is a private company based in Vancouver, BC, Canada. For more information: www.nexterra.ca.

About Oak Ridge National Laboratory

ORNL is a multi-program science and technology laboratory managed for the U.S. Department of Energy by UT-Battelle, LLC. Scientists and engineers at ORNL conduct basic and applied research and development to create scientific knowledge and technological solutions that strengthen the nation's leadership in key areas of science; increase the availability of clean, abundant energy; restore and protect the environment; and contribute to national security. With 4,200 staff, 3,000 guest researchers, 20 user facilities, and a budget of approximately \$1.2 billion, ORNL supports the Department of Energy's mission through six major scientific competencies in energy, neutron science, high-performance computing, complex biological systems, materials research, and national security. More information is available at: www.ornl.gov.

About Johnson Controls, Inc.

Johnson Controls (NYSE: JCI) is the global leader that brings ingenuity to the places where people live, work and travel. By integrating technologies, products and services, we create smart environments that redefine the relationships between people and their surroundings. Our team of 140,000 employees creates a more comfortable, safe and sustainable world through our products and services for more than 200 million vehicles, 12 million homes and one million commercial buildings. Our commitment to sustainability drives our environmental stewardship, good corporate citizenship in our workplaces and communities, and the products and services we provide to customers. For additional information, please visit: www.johnsoncontrols.com.