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Enertechnix Infrared Camera System Selected for Abengoa Bioenergy's Biomass of Kansas (ABBK) Commercial-scale Cellulosic Ethanol Plant

Enertechnix enters the biomass energy market, providing infrared camera technology to deliver advanced views throughout the boiler combustion process

SEATTLE, Wash. – November 22, 2011 – Enertechnix, Inc., the leader in innovative technologies for process and environmental monitoring to improve the efficiency, cleanliness and safety of large-scale energy conversion processes, today announced its infrared camera system has been selected for use in Abengoa Bioenergy's Biomass of Kansas (ABBK) cellulosic ethanol plant in Hugoton, Kansas. Enertechnix is supplying this equipment to boiler manufacturer Factory Sales & Engineering, Inc. The opportunity was secured through Kinetics Unlimited, Inc. and Rhodes Equipment Company. This award brings Enertechnix infrared cameras into the biomass power industry.

The boiler application for ABBK will include the Enertechnix PyrOptix™ infrared camera system in a fixed bed view, along with the PyroTemp™ TLP temperature system, providing a 24/7 view of the superheater area in the control room. Infrared imaging is a leading-edge application for biomass boilers, and will provide advanced views of material feeding on the biomass grate floor, as well as temperature profile information to boiler operators regarding the impact of potential slagging in the upper furnace. ABBK will gain clear images and crucial data to indicate what's happening throughout their boiler combustion process.

"By combining our advanced knowledge of combustion with our infrared imaging technology, Enertechnix is at the forefront of providing extraordinary images to a biomass facility burning previously unutilized crop residues," said Dave Suplicki, director of sales and marketing at Enertechnix. "This important installation opportunity was made possible by the skilled teams at Factory Sales & Engineering in Covington, LA, Rhodes Equipment in St. Louis, MO, and Kinetics Unlimited in Baton Rouge, LA. We appreciate each company's expertise and collaborative efforts."

According to the U.S. Department of Energy (DOE), the Abengoa Bioenergy project is expected to convert approximately 300,000 tons of corn stover (stalks and leaves) into approximately 23 million gallons of ethanol per year using an innovative enzymatic hydrolysis process. The project maximizes the use of agricultural crop residues that would otherwise not be utilized and uses feedstock that does not compete with feed grains. The DOE reports that annually the project is expected to displace over 15.5 million gallons of gasoline, which will avoid over 139,000 tons of carbon dioxide emissions. The facility will be self sufficient, using unconverted biomass to generate 20 megawatts of electricity to power the cellulosic ethanol plant.

About the PyrOptix Infrared Camera System

Designed to see through smoke and ash at temperatures of 700°F to 3500°F, the PyrOptix fixed mount infrared camera aids in visual observation inside the furnace environment, providing information about slag buildup, burner operation, flame position and heat exchanger tube pluggage. This helps improve heat transfer efficiency, reduce maintenance costs and contribute to higher boiler availability. The PyroTemp TLP temperature system

adds an infrared pyrometer instrument to the lens assembly, combined with software to interpret temperature measurement of the specific area being viewed, to allow for comprehensive observation and analysis.

About Enertechnix, Inc.

Enertechnix develops and commercializes innovative technologies for environmental monitoring and improving the efficiency, cleanliness and safety of large-scale energy conversion processes. Since its inception in 1995, Enertechnix has developed and commercialized mid-IR imaging systems for visual monitoring of conditions within high-temperature, particle-laden environments, and acoustic systems for measuring gas temperatures in large-scale boilers. Enertechnix is also active in a broad program of research and development, aimed at airborne aerosol capture and classification, measuring temperatures in gasifiers, detection of IEDs, and monitoring of personal exposure to toxins and allergens. More information is available at www.enertechnix.com.

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