



JUPITER OXYGEN CORPORATION

Jupiter Oxygen News for Immediate Release

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World's First Oxy-fuel Clean Coal Retrofit Announced

Ohio Power Plant to use Oxy-fuel Technology for Ultra Low Emissions

Chicago, Illinois (September 25, 2006) – Jupiter Oxygen, with the Ohio Air Quality Development Authority and Orrville Utilities announced today that work will begin on the world's first oxy-fuel clean coal retrofit of an operating electric power plant. At the Orrville, Ohio 25 megawatt plant, Jupiter will utilize its patented Oxy-fuel technology combined with the National Energy Technology Laboratory's Integrated Pollutant Removal (IPR) technology to create the first-of-its-kind Oxy-fuel clean coal electric power plant. When the \$34 million retrofit is completed in 2008, the plant will meet FutureGen's 2020 goals for ultra-low emissions of mercury, NOx, SOx, and particulates, as well as be CO2 capture ready.

With a 250 year supply and 35% of the known reserves, the United States is essentially the Saudi Arabia of coal. Unfortunately, coal does not naturally burn cleanly, and it is difficult to attain permits for the construction of new coal-fired plants. This makes the development and use of clean coal technology important to America's drive to become energy independent. Jupiter Oxygen's combustion technology has been used commercially since 1997 and is now emerging as the most promising technology for use in coal-fired power plants. Unlike most clean coal technologies being developed, Jupiter's process can be designed into new plants, or used to retrofit the existing 600 coal fueled electric power plants in operation throughout the United States.

"This innovative technology promises great economic benefits by providing existing power plants the capacity to modernize and deliver clean and economical power to our country and helps reduce the need to construct costly new facilities," stated Ralph Regula (R-Ohio 16th). "Developing a clean and cost effective way to convert coal to energy is vital to America's future. I am pleased to have been in a position to help secure the initial funding for this project."

"This is a major step in the advancement of clean coal technology and Jupiter's Oxy-fuel process," stated Dietrich Gross, CEO, Jupiter Oxygen. "We are confident that the Orrville retrofit project will show the nation that we can safely use coal to meet our country's need for electricity."

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“We are excited to have had our plant chosen for this first of its kind Oxy-fuel clean coal power plant,” stated Dan Preising, Director of Utilities, Orrville Utilities. “It is important to find a way to make our country’s existing fleet of power plants cleaner and safer for our environment.”

The good news for consumers is that not only will Jupiter’s Oxy-fuel technology reduce greenhouse gas emissions from coal burning power plants, it will do so at a cost that will not affect them financially. In fact, the fuel savings and increased power plant efficiencies give Jupiter’s technology a clear cost advantage over other clean coal technologies, especially coal gasification.

For new coal-fired power plants with carbon capture, the production cost for electricity is projected to be 1.7 cents per kwh. The total cost of electricity, including amortization and capital expenses, is projected to be only 5.1 cents per kwh. Each of these cost figures is lower than those of alternative clean coal technologies, which do not achieve the same results as Jupiter’s Oxy-fuel/IPR hybrid technology.

Jupiter’s patented process uses oxygen instead of air to burn the coal necessary to create the steam needed for power generation. Rather than reducing emissions of a single pollutant, the combined Jupiter Oxygen/IPR hybrid system combines technologies into a multi-pollutant control “package” that has been demonstrated to be an exceptionally effective environmental control system. In fact, testing shows that it is both practical and efficient to capture virtually all pollutants. The results indicated a 95% CO₂ capture rate, 90% removal of all mercury, 99+% sulfur removal, 99+% particulate capture including more than 80% of the PM 2.5 particulate and a combustion level for NO_x of only .088 Lbs/ MMBtu.

Headquartered in Chicago, Illinois, Jupiter Oxygen is a privately held company that has developed a revolutionary technology that makes it practical and cost effective to operate environmental friendly coal and other fossil fueled electric power plants. Jupiter’s technology is the innovative application of oxygen instead of air for fossil fuel combustion, which removes the barriers for carbon capture. Jupiter’s Oxy-fuel technology is patented in the United States and many other countries, and patents are pending throughout the world. The technology has been successfully used in commercial furnaces since 1997. Additional information on Jupiter Oxygen can be found at www.jupiteroxygen.com.

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