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**New EPA Coal-Fired Plant Pollutant Regulations Surpassed by Eco Power Solutions Technology**

Unprecedented Multi-Pollutant Combustion Emission Removal Levels of Over 95% Signals Profound Changes for Industry

**BOSTON - March 28, 2011** - [Eco Power Solutions](#), developer of the world's only multi-pollutant emission control and energy recovery system, today announced its [COMPLY 2000™](#) technology has consistently achieved greater than 95 percent removal levels on six key pollutant categories—surpassing the [new Environmental Protection Agency \(EPA\) standards](#) and [Boiler MACT](#) (Maximum Achievable Control Technologies) air pollutant regulations. *[Editors: Hi-res images of the COMPLY 2000 available.]*

These results confirm that the 400-plus coal-fired plants across the United States, responsible for providing more than half the nation's electricity, now have a commercially proven, scalable and cost-effective multi-pollutant control system option that far exceeds results produced by conventional scrubber technology of the past.

“Eco Power Solutions’ emission control results provide power generators and industrial plant operators with considerable economic incentives to comply with more aggressive pollutant regulations put forth by the EPA,” said Konkana Khaund, Sr. Analyst and Program Manager, Environment & Building Technologies, Frost & Sullivan. “Forward-thinking utilities and industrials can get a jumpstart on emission control compliance well ahead of 2015 deadlines with the entry of solutions such as the COMPLY 2000™ into the emission control technology arena.”

Eco Power's results are the culmination of a comprehensive six-month review process to determine combustion emission removal levels by a commercial-scale version of the company's ozone-based COMPLY 2000 system that produces clean, reliable power from a variety of energy sources including coal, oil and natural gas-fired boilers.

Using industry-standard bituminous coal containing a three percent sulfur concentration as the feedstock source for its emission control testing of raw flue gas without the aid of scrubbers, Eco Power Solutions' COMPLY 2000 achieved the following results:

- 99 percent removal levels for sulfur oxides including sulfur dioxide (SO<sub>2</sub>) and sulfur trioxide (SO<sub>3</sub>)
- 95 percent removal of nitric oxide (NO) and nitrogen dioxide (NO<sub>2</sub>)
- 99 percent removal of mercury (Hg)
- 99 percent removal of 2.5 and 10-micron particulate matter
- 99 percent removal of halogens including fluoride, chlorine and bromide and others
- 99 percent removal of heavy metals including arsenic, cadmium, chromium and others.
- An average of 20 percent removal of carbon dioxide (CO<sub>2</sub>)

“The industry-wide implications of our emission control results are profound,” said Tom Thompson, CEO of Eco Power Solutions. “Our commercial testing results for multi-pollutant removal provide utilities and the industrial sector with compelling proof points that signify a win-win for all—a safe and readily available source of electricity, a greener and healthier environment and substantial economic benefits for our clients.”

### **About the COMPLY 2000™ Technology**

The scalable COMPLY 2000 is designed to remove multi-products of combustion typically classified as NO<sub>x</sub>, SO<sub>2</sub>, CO<sub>2</sub>, unburned hydrocarbons (UHC), particulate matter and heavy metals. Unlike current methods that reduce each of these emissions individually, the COMPLY 2000 eliminates virtually all of these emissions from flue gasses concurrently, therefore, controlling costs. Another major benefit of the system is energy recovery; the COMPLY 2000 generates supplemental energy by recovering waste heat that normally escapes into the atmosphere to help reduce a plant’s operating costs significantly.

To achieve the unprecedented multi-pollutant removal levels announced today, the COMPLY 2000 uses an ozone injection process for NO<sub>x</sub> conversion. A fogging spray is mixed with a hydrogen peroxide solution for SO<sub>2</sub> conversion that is condensed concurrently with other pollutants over coils to remove all combustion emissions from the exhaust gas stream. This process converts NO<sub>x</sub> and SO<sub>2</sub> to nitric and sulfuric acid in the wastewater stream collected at the bottom of the COMPLY 2000 unit. Simultaneously, unburned hydrocarbons and particulate matter is removed during the condensation phase along with carbonic acid resulting from dissolved CO<sub>2</sub>. This wastewater can then be treated and recycled.

### **About Eco Power Solutions**

Eco Power Solutions, a recipient of the 2010 Most Promising Energy and Clean Technology Company award at the 8th Annual Rice Alliance Energy and Technology Venture Forum, is a leading developer and provider of a patented turnkey energy recovery and multi-pollutant emission control technology, COMPLY 2000, to utility and industrial clients. Eco Power Solutions technology provides a greater than 95 percent reduction in emissions, i.e., sulfur dioxide (SO<sub>x</sub>), nitrogen oxide (NO<sub>x</sub>), Mercury ( Hg), and Particulate (>PM<sub>2.5</sub>), along with an average of 20 percent reduction in Carbon Dioxide (CO<sub>2</sub>). Additionally, the company’s technology is capable of generating supplementary energy by recovering waste heat that normally escapes into the atmosphere, thus providing a significant reduction in operating costs and increase energy reliability. For more information, please visit <http://www.ecopowersolutions.com>.

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