

## **EPA Names Eco Power Solutions to Multi-Pollutant Removal Technology Short-List**

EPA to Reward Early Adopters with Potential Exemption  
from New Source Performance Limits

**BOSTON – April 7, 2011** - [Eco Power Solutions' COMPLY 2000®](#) multi-pollutant removal system was named by the United States Environmental Protection Agency (EPA) to a short-list of technologies that “offer(s) the potential of reduced compliance costs and improved overall environmental performance”, according to the reference stated on pages 517-18 of the March 16, 2011, EPA [proposed new source performance standards](#) and [MACT](#) (Maximum Achievable Control Technologies) standards for fossil fuel-fired Electric Generating Units (EGUs).

As part of this proposed rule, one that would tighten performance standards for SO<sub>2</sub>, NO<sub>x</sub> and particulate matter for EGUs nationwide, the EPA is also proposing to provide incentives, including exemption from the new restricted standards, to a limited number of early adopters of newer and more promising multi-pollutant removal technology, such as the COMPLY2000.

Eco Power Solutions' COMPLY 2000 has consistently achieved unrivalled emission reduction levels of:

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

"The EUG MACT ruling is designed to encourage the adoption of technologies that can provide considerable cost savings while providing a substantial reduction in emissions to help protect the health of our planet" said Eco Power Solutions CEO, Tom Thompson. "The unrivalled emissions reduction levels realized by deploying our COMPLY 2000 will allow power generators to achieve the emission reduction targets beyond those outlined in this recent ruling – something our competitors can't provide."

### **About the COMPLY 2000 Technology (hi-res image available from Eco Power Solutions)**

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 NOx conversion. A fogging spray is mixed with a hydrogen peroxide solution for SO2 conversion that is condensed concurrently with other pollutants over coils to remove all combustion emissions from the exhaust gas stream. This process converts NOx and SO2 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 CO2. This wastewater can then be treated and recycled.

### **About Eco Power Solutions**

Eco Power Solutions, ([www.ecopowersolutions.com](http://www.ecopowersolutions.com)), 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 (SOx), nitrogen oxide (NOx), Mercury ( Hg), and Particulate (>PM2.5), along with an average of 20 percent reduction in Carbon Dioxide (CO2). 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.



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