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Companies to cooperate in marketing CEFCO's patented emissions technology products.

(CEMWEEEK.COM) Box International Consulting says it has reached an agreement with pollution control firm CEFCO Global Clean Energy (CEFCO) to help market emissions technology products to North American cement and lime industry, a statement from Box said.

The cooperation agreement aims to take advantage of new Environmental Protection Agency (EPA) emission laws that require the above industries to reduce their emissions, some of which are considered toxic. Federal regulations such as the National Emissions Standards for Hazardous Air Pollutants ("NESHAP") mandates significantly lower air emissions specific to the U. S. cement industry, and is scheduled to take effect in June of this year.

The statement said it believes that the CEFCO Process can provide solutions to the cement and lime industries regarding compliance with the EPA's Maximum Achievable Control Technology ("MACT") required under NESHAP as it removes almost 99.99+% of all metals and particulates down to smaller than 2.5 microns, along with capturing targeted gaseous compounds including hydrochloric acids, volatile organic compounds, dioxins, furans, total hydrocarbons, as well as carbon dioxide from post-combustion cement plant stack emissions.

Additionally, as these targeted compounds are captured, the CEFCO Process injects specific chemical reagents into the system resulting in the formulation of chemical end-products, such as mercury oxide, trace metal oxides, potassium sulfate, potassium nitrate and pure CO₂ as saleable end-products.

"The CEFCO Process, once successfully proven, will be recognized as the best solution for the cement and lime industry to comply with all NESHAP regulations. These companies also stand to benefit substantially from the CEFCO Process due to the revenue-generating aspect of the system as they will now be able to capture all pollutants and recover for sale the very valuable industrial metals such as mercury and other trace metals, and convert emissions such as sulfurous oxides (SO_x) and nitrogen oxides (NO_x)," the statement noted.

Box said the process can be a solution for emission compliance for the cement and lime industry, through the unique integration of physics, aerodynamics and chemistry to achieve the efficiencies and the degree of successful results, while other solutions that are based solely on conventional chemistry and thermodynamics could only provide comparatively modest results in addition to requiring substantial energy consumption.