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Waste-to-Energy CO₂ Wash System

The Wiemann Company has designed, fabricated and supplied a 300 scfm CO₂ wash unit, operated by the Solid Waste Authority of Central Ohio (SWACO) in Columbus, Ohio. When fully operational, the facility will generate 250 kW of renewable electricity for use in the landfill gas cleanup process, and one thousand gasoline gallon equivalent of compressed natural gas (CNG) daily for use by SWACO and other local vehicles. This will significantly reduce SWACO's energy consumption, emissions, and net operating costs. Wiemann supplied the unit to FirmGreen Energy Inc., (FirmGreen) a privately held energy company participating in the global green energy business. FirmGreen is a licensee of the patented Acirion CO₂ Wash System.

FirmGreen's landfill gas-to-energy model involves a multi-faceted approach to energy development. As opposed to conventional gas-to-electric or gas-to-pipeline projects, FirmGreen developed a flexible business model that facilitates a wide variety of energy products from landfill gas, including CNG, ethanol, and methanol, in addition to conventional electric or pipeline gas. Wiemann's involvement includes the detailed engineering for the Acirion Wash System, plus the membrane separation, purification and additional subsystems required to produce the desired energy feed gas stream.



For more information contact Bill Geiger at Wiemann, +1.386.445.4200, bgeiger@wiemann.com.