

**Press Release
Industrial Energy Sector
Combined Heat & Power**

Phoenix, Arizona May 10, 2013

In line with its initiative to work with U.S. industrial customers on CHP solutions incorporating the combustion of waste volatile organic air emissions, Environment & Power Systems International is pleased to announce the opening of the volatile organic compound (VOC) abatement performance test, system design and manufacturing center located at IMCOR Manufacturing in Phoenix, Arizona.

Cogenerating point-of-use power and heat at manufacturing, petrochemical and synthetic organic chemical manufacturing industries using waste solvent emissions along with natural gas, represents a pivotal waste-to-energy opportunity for industries subject to major source air quality regulations. This is because the elimination of the life cycle costs of traditional air pollution control equipment with energy efficient and cost-effective combined heat and power results in significant cost of annual operations savings for a 20-year project, while achieving the numerous goals of the U.S. Environmental Protection Agency and the U.S. Department of Energy.

The gas turbine engine combines advanced combustion technology within a rugged industrial design, including advanced automation and controls and multi-point web-based HMI monitoring for safe and reliable operations. It has a power output of 525kWe and is available as a factory-assembled package. The engine is designed to operate on a wide range of gaseous and liquid fuels and is equipped with an advance combustion system to reduce nitrogen oxides. This state-of-the-art combustor design is ideal for the ingestion of vaporized and gaseous VOCs, which are thermally oxidized to the end-products carbon dioxide and water with no products of incomplete combustion. This means that waste VOC emissions can be captured, conveyed and ingested into the air intake of the turbine and efficiently combusted as a primary fuel.

The technology has been successfully permitted and demonstrated at a polystyrene manufacturing facility in California and full-size system verification and performance tests conducted on the gas turbine engine and VOC combustion chamber by independent test engineers and consultants at test facilities in Phoenix, Arizona, has shown that combustion temperature, residence time and mixing capabilities of the gas turbine are sufficient to confirm acceptable combustion efficiency standards for a wide range of concentrations and variants of VOC air emissions. Interested parties are welcome to contact Environment & Power Systems International (vocgen.com) to inquire about product testing, systems designs and project development.