

For Immediate Release
**Global Heating Technologies GmbH (GHT) Advances Ultra-High
Efficiency Heat Engine For Electric Power Generation**

Cincinnati, Ohio, USA, August 31, 2011 – GHT announced successful initial testing of its new heat engine design, overcoming conventional limitations of efficiency, and powered by flameless catalytic oxidation of methanol, a clean fuel. The only byproducts are CO₂ and water vapor off-gases, free of sulfur, heavy metals and nitrogen oxides. In operating environments where CO₂ is sequestered or recycled, pretreatments and the additional waste streams they produce are substantially avoided.

This benefit of GHT's system is expected greatly to facilitate significant reductions in CO₂ sequestration plant footprint, economics, and/or actual carbon recycle.

Fuel efficiency of electricity generated by coal fired power plants is often cited to be in the area of 30%, worldwide. Newer designs are being planned to elevate this to over 40%. By contrast, the efficiency of GHT's design is inherently in the area of 75% due to its operating temperature and other parameters. Also, per Btu produced, methanol generates 32% less CO₂ than low sulfur subbituminous coal. Methanol is a water soluble fuel that is a liquid under standard ambient conditions of temperature and atmospheric pressure, and if spilled is biodegradable.

In operating environments where carbon emissions are to be avoided entirely, the GHT system can be fueled by hydrogen.

"With this fundamentally new design exploiting our core competencies in flameless catalysis, we are on the verge of an exciting era of cleaner electric power using less fuel, with reduced waste streams and an off-gas suitable for carbon recycle, and without the safety hazards that have become associated with nuclear energy," said Giampaolo Vacca, Chairman of GHT.

About Global Heating Technologies, GmbH

GHT is a privately held Swiss developer, manufacturer, and licensor of high performance, environmentally friendly alternative energy products and system solutions.

The company's flameless catalytic alternative energy products have shown unique simplicity and effectiveness in heating applications, and in heat driven processes also producing electricity and/or chilling. GHT's scope of heat-driven applications also includes absorption chilling and enhanced efficiency for fuel cells and thermoelectric units in hybrid heating/cooling/electric systems.

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