

For Immediate Release
Global Heating Technologies GmbH (GHT) Advances State of the Art In
Low Cost, Environment Neutral Enhanced Oil Recovery (EOR)

Cincinnati, Ohio, USA, November 4, 2013– GHT announced successful testing of its new steam generator, designed for subterranean operation. For the first time, heavy oil recovery operations will be able to place a steam generator at optimal depth for EOR operations, at lower cost than electric units, and with zero atmospheric emissions. Water vapor is a natural byproduct in flameless catalytic reactions, so *in some installations feed water can be eliminated*.

GHT's underground design yields double digit savings in direct energy costs and dramatically reduces the quantity of produced water in steam cycling and steam drainage EOR operations. GHT's systems can be used underground to replace surface steam generators, or as an underground steam booster enabling the de-rating of surface units--or the underground heater's off-gas mixture, rich in water vapor, may be used as the heat transfer medium on its own.

The patented flameless heater GHT employs in this design is fuel agnostic, as it is capable of hydrogen, natural gas, methanol, ethanol, or diesel fuel operation. All off-gases follow the steam down hole.

"With this fundamentally new design exploiting our core competencies in flameless catalysis, we view GHT as providing a key enabling technology to a new horizon in lower cost, high efficiency EOR," said Giampaolo Vacca, CEO of GHT.

Applications Résumé

Underground heat/steam = lower energy costs, smaller surface footprint and reduced emissions.

- Steam booster: dramatically increase effective depth and efficiency of steam injection for EOR. De-rate above ground systems with this add-on.
- Complete EOR steam generation system, operating at specified depth.
- Complete EOR hot exhaust gas generator placed at optimal depth.
- *In situ* and/or mobile heavy oil upgrade systems.
- *In situ* shale oil extraction systems.
- *In situ* thermal desorption system for site remediation.

About Global Heating Technologies, GmbH

GHT is a privately held Swiss developer, manufacturer, and licensor of high performance, environmentally friendly high efficiency 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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