



## COMMERCIAL INSTALLATION

### Alpenhotel Zechmeisterlehen, Bavaria 1 x GG 70 & 1 x GG 50 SOKRATHERM CHP Unit

#### INSTALLATION COST:

£300,000 approx.

#### PROJECT:

The four-star alpine wellness hotel had reduced its fuel oil heating cost in 2006 with a veg-oil powered CHP unit installed and operated by a local power provider. Once that CHP unit was shut down due to soaring veg-oil prices the fuel oil consumption rose to ca. 90.000 liters p.a.

#### SOLUTION:

A regular guest of the Alpenhotel hotel recommended the installation of a GG 70 unit in 2012. Impressed by the low space and maintenance requirement, the customer decided to install a second CHP unit (GG 50) during the hotel extension in early 2014. The hotel's electricity bill has reduced substantially and revenues were gained by feeding electricity into the mains. Instead of the 110,000 l of mineral oil which the hotel would normally need to heat the enlarged hotel per year only approx. 8,000 l were needed in 2014.

UNIT TYPE	1 x GG 70 & 1 x GG 50 SOKRATHERM CHP unit 121kW electric power & 196kW thermal power
FUEL TYPE	Natural Gas
FUEL SAVINGS	800 MWh / year
TOTAL EFFICIENCY	90.6% - Electric 34.6% & Thermal 56%
PAYBACK TIME	5 years
CO <sub>2</sub> SAVINGS	325 tonnes / year