

# Project Knowledge - 500kWe CHP University of St Andrews



## BEFORE:

- Gas heating through 3 off Hoval ST Plus boilers.
- Adjacent building with 3 off 200kWth boilers
- Both buildings connected with embryo district heating system.

## AFTER:

- 500 kWe CHP system installed
- Project cost £585,409
- 7,627,254 kWh/yr net increase in Gas load
- 4,064,577 kWh/yr generated electricity
- £128,669 saving/yr projected
- 807 tCO<sub>2</sub>/yr
- Technical Payback 4.5 years



[Project completion date – January 2011](#)

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### Supporting Comments:

- Energy calculations based on run hours and energy use.
- Electricity at 8.5 p/kW at time of design
- Gas at 2.88 p/kW at time of design
- Carbon reduction & fuel rate fluctuations further justifies change
- Project includes a 6% client contribution

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