

# Case Study

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## Case Study: CHP

### *The Challenge*

A University client required a consultant & contractor who could move quickly and work to a very tight schedule for the delivery of a full CHP Energy Centre.

We met this challenge by being on site 2 weeks after the order was placed. Another substantial challenge facing our team was digging through an old city on a route which would see it dig beneath Flodden Wall, a historical monument, which involved the team being accompanied by archaeologists.

### *The Solution*

The Energy Centre houses one CHP 1.4MWe engine, a 100,000 litre thermal storage, two 9MW back-up/peak load gas boilers, High Voltage/Low Voltage switch-rooms and associated plant.

The CHP engine will provide heat and hot water via a district heating network which involved approximately 4km of pipe connecting 13 sites and generating electricity for 14 buildings.

### *The Outcome*

The new community energy scheme was installed and finished in time and on budget and now saves the University approximately £170,000 a year in energy costs (gas and electricity) and reduces its annual carbon emissions by an estimated 1,016 tonnes.



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