Case Study

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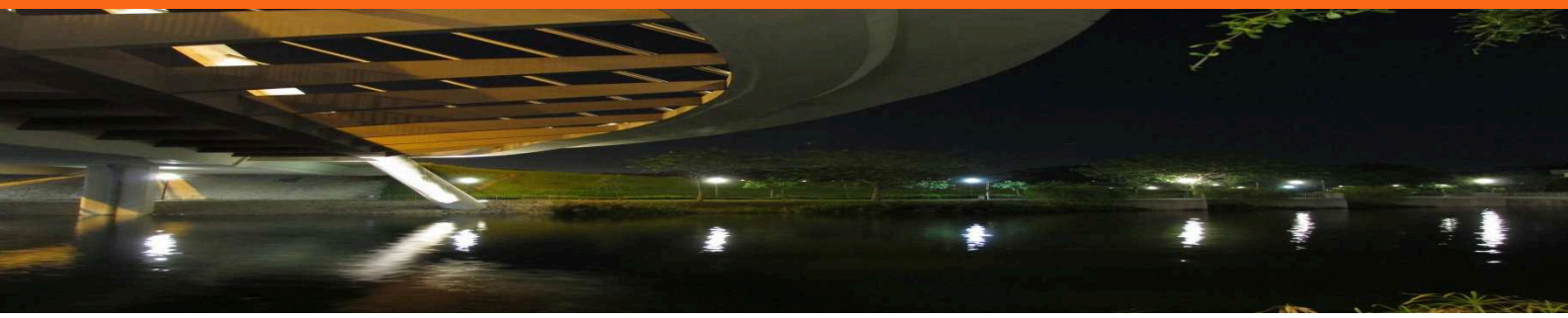

University of Edinburgh

The Challenge

The client, a University with a campus in the centre of Edinburgh needed a consultant and contractor who could move quickly and work to a very tight schedule for the delivery of a full Combined Heat and Power (CHP) Energy Centre. We met this challenge by being on site two weeks after the order was placed.

The site of the Energy Centre was located on the University's campus in Edinburgh. A substantial challenge facing our team was digging through such an old city on a route which would see it dig beneath Flodden Wall, a historical monument in Edinburgh. Meeting this challenge involved the team being accompanied by a group of 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 provides 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 Combined Heat and Power Energy Centre was installed and finished in time and on budget and now saves the University approximately £170,000 a year in energy costs for both gas and electricity and reduces its annual carbon emissions by an estimated 1,016 tonnes.