

CASE STUDY UNIVERSITY OF CAMBRIDGE: ENERGY CENTRE WITH CHP



HEADLINES

CENTRAL

energy centre and CHP for a new
150-hectare community

8x

1MW boilers and 1MW CHP

80%

of the site's pipework/steelwork
fabricated off-site

HALF

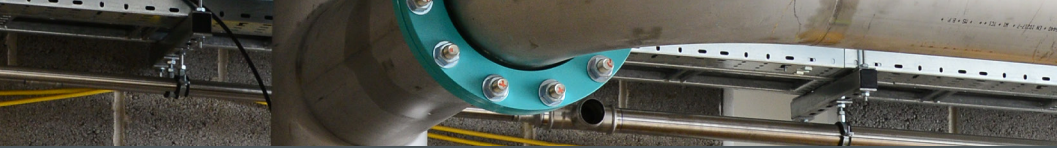
the time taken compared to
traditional methods



KEY FACTS

Project title: North West Cambridge
Development energy centre with CHP
Location: Cambridge

Value: £470,000
Duration: 22 weeks
G&H divisions: Fabrication



CASE STUDY HOW WE DID IT



The University of Cambridge's new district and extension to the city - the North West Cambridge Development - provides a mixed academic and urban community.



The scheme has 1,500 homes for university and college staff; 1,500 private houses for sale, accommodation for 2,000 postgraduates; a primary school; health centre; hotel; care home and local shops.

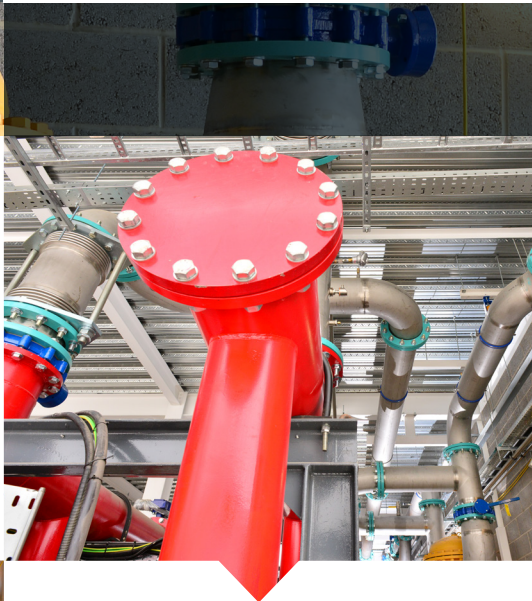
Eight 1MW boilers and a 1MW CHP system was prefabricated off-site and in total, 80% of the site's pipework and steelwork was made using this method.

A 12" DN300 low temperature hot water mains to serve the district scheme and three, nine metre high thermal stores were among the large-scale pieces made and transported to site.



Our experienced CHP team consisted of engineers, welders, site supervisors and project managers to carry out off-site fabrication, off-site checking, delivery (in co-ordination with the development's progress on-site), installation, connection and re-testing.

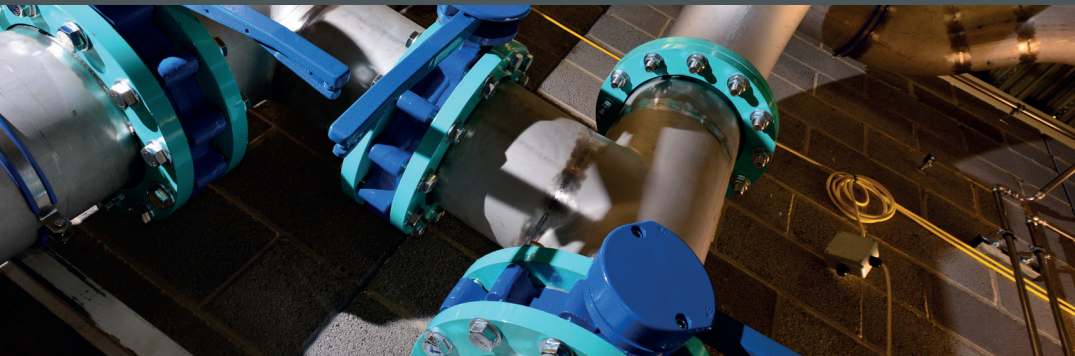
The benefits of prefabricating the pipework off-site were enormous for the North West



In order to power this 150-hectare community, we manufactured the associated pipework for a central energy centre with a Combined Heat and Power (CHP) system.

Cambridge Development's construction team.

This included reduced labour, build and parts costs, greater build control, pre-installation testing and crucially, it halved the overall time taken compared to traditional on-site methods being used and resulted in a defect-free project.



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