

Case Study

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Case Study: CHP

The Challenge

To provide an affordable, energy efficient and sustainable solution to a mixed use development site around a large railway station. This had to be achieved without compromising the quality of living, or the availability of energy supply.

The goal was made even more ambitious to cut carbon emissions by at least 50 per cent. Providing the ideal, tailored solution for the circumstances is something which we pride ourselves on and because the development was delivered in phases it was essential that we delivered an energy infrastructure which would evolve along with the construction work.

The Solution

Today, the main T1 energy centre at the site houses two 2MWe Combined Heat and Power (CHP) engines and three 10MWt boilers. An additional 2MWe CHP engine will be added in the future to meet the increased energy demand.

The energy centre, which was built underneath a car park and had an irregular shape which presented several challenges.

The Outcome

The energy centre is now at the heart of the development, providing 95 per cent of the heating and hot water and 79% of the electricity. The success of the energy centre has meant that they can confidently state that all homes will meet the Code for Sustainable Homes Level 4 or above and that each office in the development will be BREEAM "Excellent" or above.



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