

Client: **Taylor Wimpey and L&Q**
Contract: **JCT**

Value: **£5 million**
Period : **2009 - 2015**

THE PROJECT

Academy Central - Working in partnership with national housebuilder Taylor Wimpey and one of London's leading housing associations, L & Q, Oakray Ltd has installed a 'state of the art' Energy Centre at Academy Central, an exciting new mixed tenure development of over 900 new homes in Barking, Essex. The scheme, at the forefront of the town's urban regeneration, is providing a range of affordable housing, from 1 bedroom apartments to 4 bedroom town houses.

The entire heating and hot water system for the development is powered by the latest energy efficient technology comprising of CHP units, Bio mass boiler and three high efficiency gas boilers. CHP units provide heat and power of 501kW/hr, of which 90% of the electricity goes back into the National Grid. The homes are fed by an underground mains network of highly insulated pipework resulting in minimal heat loss throughout the estate. The end result is an energy efficient system that minimises the impact to the environment whilst significantly reducing running costs for each of the Academy Central residents.



DELIVERING THE SOLUTION

- 518kW of Condensing Gas Pressure Jet Boilers
- 501kW Combined Heat and Power (CHP) Unit
- 540kW Bio-mass Wood Pellet Burning Boiler
- Designed and installed by Oakray's expert technical team

RESULTS

- Highly energy efficient system
- 90% of electrical output fed back into grid
- Minimum environmental impact
- Cost effective heat and hot water services to residents
- True partnering results



Designed.
Installed.
Managed.
Maintained.