

CASE STUDY

Project: Dundonald High School

EDUCATION

Scope: Mechanical

Value: £208K

Client: South Eastern Education & Library Board

Main Contractor: Blackbourne Integrated M&E

Consultant: Bailey Associates

Duration: 3 months

Completion: March 2009



Brief

Blackbourne were appointed as the overall contractor to replace the existing boiler and hot water plant on the above school.

This project was located within the existing school. The works were carried out within school term periods and was co-ordinated as not to impact on the operation of the school's daily activities.

Solution

This project was a little more complicated as the school remained operational. There had to be constant co-ordination with the Design team and the Client Site Staff. We co-ordinated the new gas supplies to each block early in the project so the new fuel source was available.

We constructed the container units off site and during this period surveyed the existing site services within each block in anticipation of the shut downs required to change over each system.

We prepared all the necessary concrete boiler bases on site prior to the delivery of the units and had all services left up to the units for final hook up.

We kept the existing plant operational, working closely with the school to keep a minimum amount of oil to keep running but to ensure as little wastage once the tank would be pumped out and removed.

Each block was switched over out of hours so as to reduce the amount of downtime and inconvenience to the school.



**SOUTH EASTERN EDUCATION
AND LIBRARY BOARD**

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Result

The project initially came in over the Board budget but by working closely with them through the consultant we were able to reduce the overall contract cost to within their budget to the satisfaction of everyone.

The project was completed within the allocated time period.



Scope of Work

- Removal of the existing boiler house and plant including all existing oil storage.
- Replacement of existing heating plant which included segregating the existing school systems into blocks and installing 3 new remote containerised plant rooms to serve each block of the school individually.
- All replacement of the existing heating controls including electrical wiring and new power wiring.
- All replacement of new natural gas supplies including gas safety systems.
- Replacement of the existing hot water cylinders with gas fired water heaters in each block which required making existing hot water system unvented.
- All builders work including building new foundation bases for the containers.

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