

EndoTherm™

CASE STUDY: Civic Centre, Middlesbrough
Middlesbrough Council



The performance of EndoTherm was trialled at the Civic Centre by Middlesbrough Council. The Civic Centre is home to many of the council's departments and is heated by two Allen Ydnis Boilers (2M BTU and 1.6M BTU). Heating is done exclusively using air handling units (AHU).

With extensive pipework and an annual consumption of around 900,000 kWhrs, 30 litres of EndoTherm was calculated to be required for this installation. Installation took place on the 1st December 2014.

RESULTS

Civic Centre	Usage (kWh)	Degree Days (18.5°C)	Usage/Degree Days (kWh/DD)
2013/2014 (5 months)	543,695	1274.5	426.59
2014/2015 (5 months)	501,627	1480.3	338.9

Total Compensated Savings 20.56%

NOTE: Predicted usage based on Usage/DD was used to estimate how much gas would have been used if EndoTherm had not been installed. A monetary saving of £3,636 has been calculated based on a 2.8p/kWh unit price, which means EndoTherm paid for itself within 5 months. Also calculated was a saving of 26,362 kg of CO₂ based on a 0.203 kg CO₂ per kWh saved.

20.56
%

TOTAL SAVINGS

FINANCIAL SAVING

£3,636

CO₂ SAVING

26,362 kg

KEY INFORMATION

Installed: 01/12/2014

Trial period: 5 Months

Boiler spec

2 x Allen Ydnis Boilers

Volume EndoTherm installed

30 litres