

# EndoTherm™

CASE STUDY: Preston Town Hall, Lancashire  
Preston City Council



Preston City Council trialled EndoTherm at their Town Hall located in Preston City Centre.

The five-floor office building, built in the 1930's, is heated by 3 x Vitorond 200 Boilers with a maximum output of 300kW. The site is heated by a large number of cast iron radiators with a single air handling unit (AHU) for the Council Chambers.

After a system survey it was determined that 44L of EndoTherm was required, installation took place on the 1st February 2016.

The energy management team at Preston City Council provided actual meter readings (AMR) which were used for comparison with usage data from the same period from the year before. The comparison was compensated using degree day data sourced from Higham weather station in Pendleside (baseload 18.5°C).

## RESULTS

Preston Town Hall	Usage (kWh)	Degree Days (18.5°C)	Usage/Degree Days (kWh/DD)
1st Feb - 2nd Sep 2015	516,173	1902	271.38
1st Feb - 2nd Sep 2016	431,026	1832	235.27

## Compensated Saving 13.31%

By comparing predicted usage with actual usage (based on degree days) the trial saved £1,713 (based on 2.59p/kWh) and 13.42 tonnes of CO<sub>2</sub>.

13.31  
%

TOTAL SAVINGS

FINANCIAL SAVING

£1,713

CO<sub>2</sub> SAVING

1,342 kg

## KEY INFORMATION

Installed: FEB 2016  
Trial period: 7 Months

Boiler spec  
3 x Vitorond 200 Boilers

Volume EndoTherm installed  
44 litres