

EndoTherm™

CASE STUDY: Harris Museum, Preston Council



TOTAL SAVINGS

FINANCIAL SAVING

£1990

CO₂ SAVING

19,927kg

EndoTherm was trialled by Preston City Council at the Harris Museum. Opened in 1893, the museum and art gallery is a grade I listed building located in Preston City Centre. The Harris collections cover fine art, decorative art, costume, textiles, archaeology and local history. It also houses the city's public library.

The museum, which covers 4 floors with large ornate period radiators is heated by 4 x Potterton Avon 2 boilers, each with a max output of 200kW. 32L of EndoTherm was installed in January 2016.

A direct comparison of the usage from AMR (actual meter readings) was taken by the energy management team at Preston Council and compensated with data from Higham weather station in Pendleside (baseload 15.5°C).

KEY INFORMATION

Installed: Jan 2016
Trial period: 2 Months

Boiler spec
4 x Potterton Avon 2

Volume EndoTherm installed
32 litres

Harris Museum	Units (kWh)	Degree Days (DD)	Usage/Degree Days (kWh/DD)
1st Feb – 30th April 2015	288,118	895	321.9
1st Feb – 30th April 2016	213,133	967	220.41

There was a significant reduction in usage (26% uncompensated) despite the weather being marginally colder in 2016.

The compensated saving was 31.5%.

Note: No periods of down time of the heating system were reported during the trial window.

By comparing predicted usage with actual usage (based on degree days) the trial saved £1893 (1.928p/kWh unit price) and 19.9 tonnes of CO₂.