



  
raise  
**RAPID**  
**BOIL** 

**CASE STUDY:**  
**WEST CRAVEN SPORTS CENTRE**

Report No: ETWEST  
Approved by: B McMullen (CEng. MChemE)

## CASE STUDY: WEST CRAVEN SPORTS CENTRE

### KEY INFORMATION

INSTALL DATE: 7th Feb 2014  
TEST PERIOD: 5 Months

REPORTED SAVING:

**10.5%**



Pendle Leisure trialled **RAPID BOIL™** at West Craven Sports Centre in Barnoldswick

### INTRODUCTION:

The performance of **RAPID BOIL™** was trialled at West Craven Sports Centre in Barnoldswick on behalf of Pendle Leisure Trust and Pendle Borough Council.

West Craven Sports Centre is a multi-use sports complex with an 25m indoor heated swimming pool. The swimming pool is powered by 2\*347 kW boilers and the rest of the centre is powered by 6\*105kW boilers (assume 2 on standby). A total of 72 Litres of **RAPID BOIL™** was installed on the 7th February 2014.

A new BMS system was installed in December so a request was made to compare the BMS figures for January with the period after installation (March - July). As a high proportion of gas usage goes on heating the swimming pool (regardless of outdoor temperature) a baseload was taken. The baseload, taken from the historical usage figures was 48% of the historical usage.

### RESULTS:

The recorded baseload usage for January was compared with March - July and compensated with degree days:

Month	kWh	Degree Day (18.5°C)	kWh/DD
January 2014	383,256	415	923.5
March - July 2014	666,350	913	729.84

Savings with Degree Day Data:

Baseload Saving - 20.97% Baseload amounts for 48% of usage

**Total Savings - 10.5%**