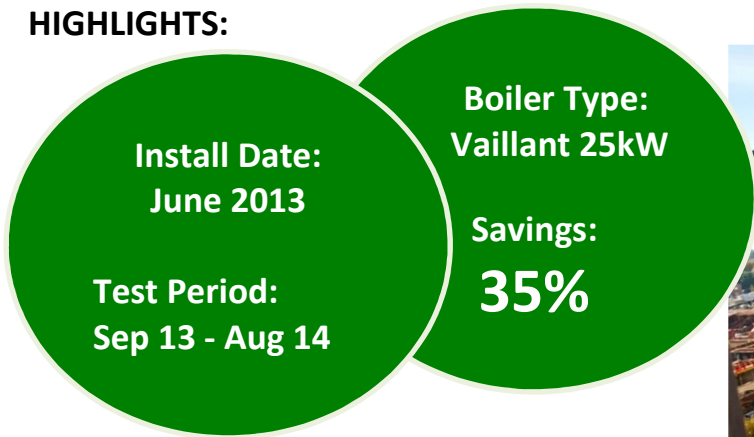


HIGHLIGHTS:



Install Date:
June 2013

Test Period:
Sep 13 - Aug 14

Boiler Type:
Vaillant 25kW

Savings:
35%



COVENTRY UNIVERSITY INITIAL TEST:

Coventry University installed a Tadpole device in one of their residential student accommodation flats at the end of June 2013 to investigate the impact it would have on gas consumption. The boilers installed are Vaillant 25kW boilers. The flat was chosen so that its gas consumption could be metered and compared with other identical flats. Gas meter readings were taken at the end of each month on each flat. This data was used to ensure that the performance of the Tadpole device could be accurately assessed.

ANALYSIS TECHNIQUES:

The performance of the Tadpole device in the trial flat was analysed using the gas consumption data taken at the end of each month. The gas consumption data from the other flats without Tadpole installed was averaged out to give a comparative figure to analyse against.

RESULTS:

The installation of the Tadpole device at the trial flat showed an average reduction in gas consumption of 35% over a rolling one year period from Sep 13 to Aug 14. The heating was switched off from early July to mid-September so the savings achieved in these months relate to the heating of domestic hot water which demonstrates the installation of a Tadpole device results in energy saving benefits all year round. These results are higher than our own tests on Tadpole by Tralee Institute of Technology and can be accounted for by savings to the heating of domestic hot water of over 10% throughout the year.

Heating and Hot Water Savings

Date	Trial Flat Gas Consumption	Average of other flats consumption	Saving
Sep-13	380	662	282
Oct-13	916	1,802	886
Nov-13	1,591	1,905	314
Dec-13	1,581	1,956	375
Jan-14	712	1,707	995
Feb-14	1,236	2,005	769
Mar-14	1,444	1,805	361
Apr-14	1,171	1,353	182
May-14	578	1,012	434
Jun-14	200	449	249

Hot Water Savings

Date	Trial Flat Gas Consumption	Average of other flats consumption	Saving
Jul-14	45	355	310
Aug-14	279	687	408

Total Savings 35%

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Innovation
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