MEASURE: Isolation of boiler plant to prevent dual-firing

Symptom	Action taken and cost	Date of action	Intended outcome	Applicability	Conditionality	Measurability	Estimated CO2 and
							cost impact
Dual-firing of master	Reworking of pipework	13 September 2010 to	Reduction of gas used	Likely to be applicable	Potential for	Effect of intervention	A reduction of at least
and backup boiler to	to isolate boilers to	17 September 2010	to heat water to meet	in any building where	differential impacts in	can be measured,	5% in gas use during
meet peak demand.	prevent dual-firing.		peak demand	boilers may dual-fire	winter and summer	however demand for	months when no
			particularly following	unnecessarily.	reflecting seasonal use	hot water reflects a	heating is required, for
	There were no costs		weekend and overnight		of gas.	number of factors and	a zero investment cost.
	associated with this		absence of gas use.			gas consumption is not	
	measure.					necessarily a reliable	
						gauge of the impact of	
						the measure.	

EVALUATION METHOD: Use of real-time data from DECC real-time energy monitor

Data gathered	Reason for metric	Known data quality issues	Graphs
Gas use at 6.00am for two weeks before the measure and two weeks after	The boilers are switched off over night and at weekends and fire up initially at 6.00am.	None.	250 200 150 100 50 50 50 50 50 50 50 50 50 50 50 50 5
Total daily gas use for two weeks before the measure (w/b 30 August and w/b 6 September) and two weeks after (w/b 13 September and w/b 20 September)	The impact of the measure over a full working day should be estimated to put the early morning use into context.	Data for 30 August is atypical because the building was unoccupied for a Bank Holiday. From 30 August, adjustments to boiler timings were made to ensure continued availability of hot water in the early evening following a failure of kitchen equipment leading to greater use of domestic hot water.	3000 2500 2000 1500 1000 500 0 1000 500 0 1000 1000 500 0 1000

SUMMARY OF IMPACT: The difference in weekly gas use for w/b 20 Sept compared to w/b 6 Sept

Overall reduction (%)	CO2 savings (kg)	Energy savings (kWh)	Cost savings (£)
10.4%	53.6kg per week (2.8t per year)	290kWh per week (15,080kWh per year)	£4.50 (£234 per year)