

Appendix C: Indicative Investment and Return Schedule¹ for schools

Project type	Lifetime of measure (Yrs)	Investment (from non-SCC sources, such as 0% Salix loans) (£'000k)	Energy savings & income per yr (£'000k)	Simple payback (Yrs)	Carbon saving (tonnes CO ₂)	Cost Effectiveness (£ / lifetime tonne CO ₂)
Building Management Systems	10	120	13	9	82	147
Boilers	10-14	160	13	9-13	79	145
Heating Systems	7-15	216	45	2-9	279	77
Insulation, draught proofing and glazing	8-30	952	304	2-5	1,866	22
LED Lighting	20-25	683	114	6	459	68
Lighting Controls	9	73	18	4	74	110
Monitoring and Targeting	5	9	5	2	21	90
Motor Controls	10	19	10	2	39	50
Renewables, including boilers ²	11-20	1,275	252	5-19	1,287	76
Ventilation	14	0	0	2	0	
Sub Total		3,508	775	5	4,185	
Contingency³		702	-271		-837	
TOTAL	n/a	4,210	503	8	3,348	

1. This is an example of a potential scale of investment and savings (financial and carbon) that could result from an example mix of energy efficiency and renewables measures. The is for illustrative purposes of the potential relationship between investment and return, not a projected schedule for delivery. County funded maintenance projects (from the school's maintenance grant) may also contribute carbon reduction benefits on the maintained schools' estate, but such works are not included in this scenario. (schools sheet only). Academies and Voluntary Aided schools are not included in the above scenario, but a similar range of opportunities exists for these schools.

2 Renewables used in this scenario are biomass boilers replacing oil and solar PV. The funding for solar PV projects in schools may continue to be sourced from third party finance arrangements with associated long term discounted power purchase agreements, as is the most common arrangement at present.

3. A risk adjustment has been made to cover a potential inflation in the cost of measures by 20%, a potential reduction in cost savings by 40% and a reduction in carbon emissions by 20%, compared to standard assumptions. The reported average payback period for the investment sum as a whole, is given after making these adjustments.

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