

## APPENDIX 1

### Completed Projects

SITE	PROJECT	COST	CARBON DIOXIDE SAVINGS (est.) (Tonnes/year)	PAYBACK PERIOD
Buckie HS	Lamp replacement	£1,744	3.02	4.6 years
Milne's HS	Lamp replacement	£194	0.34	4.6 years
Keith GS	Thermostats and programmers	£3,000	9.54	2.6 years
Keith GS	Instantaneous water heaters	£521	10.42	2.6 years
Kinloss PS	Energy Management System	£18,640	20.71	2.5 years
Secondary schools	Loft insulation improvements (5 indiv projects)	£39,067	33.00	4.3 years
Various schools	Draught proofing improvements (21 indiv projects)	£47,378	117.50	4.2 years
Secondary schools	Automatic powering down of PCs	£1,250	8.03	1.1 years
Lossiemouth HS	Insulate pipes in corridors	£1,630	6.19	1 year
Speyside HS	Lamp replacement	£3,253	5.63	4.6 years
<b>TOTAL</b>		<b>£116,677</b>	<b>214.38</b>	

Payback periods and carbon dioxide savings based on Carbon Trust/Energy Savings Trust standards or calculated via Central Energy Efficiency Fund website.

**Projects current ongoing**

SITE	PROJECT	APPROX COST
Hythehill PS Lossiemouth Day Centres	Automatic lighting controls Installation of lighting sensors	£9,000 Awaiting final costs
New Elgin PS	Automatic lighting controls	Awaiting final costs
Roths Day Centre	Improve loft insulation	Awaiting final costs
Elgin CEC	Voltage reduction equipment	£13,000
Elgin Library	Voltage reduction equipment	£8,360

**Projects currently under investigation**

SITE	PROJECT
Forres Academy and Lossiemouth High School	Replace obsolete Building Energy Management Systems (BEMS) with modern systems
Primary schools	Installation of Thermostatic Valves as required
Primary schools	Installation of pipework insulation as required
Swimming Pools	Replacement of pool Air Handling Units with variable flow heat pumps and heat recovery systems
Various	Replacement of inefficient pumps and motors with Variable Speed Drive units
Various	Fit/replace/upgrade loft insulation to 10% above current minimum levels as required
Lossiemouth High School, Community Centre and Pool	Full lighting and lighting control assessment for efficiency and suitability. Will be rolled out to other 'campus' areas as required
Various	Installation of BEMS
Various	Connection of 'stand-alone' BEMS to BEMS Supervisor via Intranet system to allow remote access
Pinefield Park and Moray Resource Centre	Installation of destratification fans to allow better spread of warm air around building