

APPENDIX VI**ENERGY SAVING MEASURES****Projects completed 2018/19**

SITE	PROJECT	APPROX COST (£)	ESTIMATED ANNUAL SAVINGS (kWh)	ESTIMATED ANNUAL SAVINGS (£)
Buckie High School	Boilerhouse Insulation	1,100	6,286	350
Mosstodloch PS	LED Lighting	496	1,650	198
Various Sites	Urinal Controls	21,000	8,000 m3	13,000
Burghead PS	Boilerhouse Insulation	2,300	20,175	605
Hythehill PS	BEMS Boiler Control	4,700	39,200	1,175
Buckie High School	External Doors Draughtproofing	1,050	14,000	420
Various Sites	LED Hall Lighting	70,000	208,300	25,000
Various Sites	Water AMR	1,855	n/a	n/a
Keith Grammar	Investigate and minimise Kitchen Ventilation	0	n/a	n/a
Keith Grammar	Optimise time settings for kitchen underfloor heating	0	2,920	350
Keith Grammar	Reduction of hours of operation of Bain-Marie's	0	667	80
Keith Grammar	Reduce temperature setting of main hall and gym halls	0	4,000	120
Keith Grammar	Undertake remedial works on dripping water taps	0	58	110
Buckie High School	Removal of supplementary electric heaters	0	580	70
Buckie High School	Substitution of uninsulated urn with hydroboil or equivalent	tbd	375	45
Buckie High School	Review and adjustment of programmed BEMS time settings	0	4,000	120
Hythehill PS	Convert Halogen lighting to LED	0	83	10
Hythehill PS	External Lighting automatic control	0	1,160	140

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Milne's HS	Removal of old inefficient lighting	0	83	10
Milne's HS	Removal of supplementary electric heaters	0	580	70
Milne's HS	Review External Lighting time control and partial conversion to LED	0	1,830	220
Milne's HS	Library spot lights converted to LED	0	83	10
Milne's HS	Review and adjustment of programmed BEMS time settings	0	3,200	95
Milne's PS	Review time and temperature settings of library AHU	tbd	2,500	300
Milne's PS	Reduction of hours of operation of Bain-Marie's	0	667	80
Milne's PS	Removal of supplementary electric heaters, repair radiant heating	0	580	70
Milne's PS	Conversion of inefficient corridor lighting with LED	0	83	10
Milne's PS	Re-Establishg pupil and staff Eco-Group	0	n/a	n/a
Various Sites	Good Energy House-keeping	0	n/a	n/a

Projects currently ongoing or in detailed feasibility stage:

SITE	PROJECT	APPROX COST (£)	ESTIMATED ANNUAL SAVINGS (kWh)	ESTIMATED ANNUAL SAVINGS (£)
Various Sites	Replacement of High bay lighting with LED	45,000	166,660	20,000
Elgin Library	Replace internal lighting	20,000	67,000	8,000
Multi-Storey Carparks	LED Lighting	30,000	150,000	18,000

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Projects in planning – initial feasibility stage:

SITE	PROJECT
Elgin Library	Replace external lighting
Milnes PS	Upgrade BEMS
All sites	Valve and Pipe insulation
Hopeman PS	Roof Insulation
Llanbryde PS	External Lighting
Various Sites	Lever Taps on toilet sinks
Buckie High School	Insultion of roof space in technical block
Buckie High School	Conversion of lighting in technical block to LED