

APPENDIX V**ENERGY SAVING MEASURES****Projects completed 2017/18**

SITE	PROJECT	APPROX COST (£)	ESTIMATED ANNUAL SAVINGS (kWh)	ESTIMATED ANNUAL SAVINGS (£)
Keith Grammar School	Upgrade controls on electric heating	500	5,600	672
Forres Pool *	Pump Invertors VSD	14,406	19,710	2,058
Forres Academy	Reinstate BEMS communications link to modern studies area	-	5,000	150
Various Sites	Hydroboil Time Control (40 heaters)	3,105	45,142	5,417
Barlink Road	Electricity Debt Negotiation	-	-	13,500
Various Sites	Adjustment of Electrical AVCAPS - Various Sites	-	-	11,008
Unmetered Electricity	Account Audit	-	-	1,152
Unmetered Electricity	Account Audit - Retrospective Refund	-	-	4,600
Ashgrove Depot	Vehicle Store - LED Lighting	3,874	400	1,315
Bishopmill PS	Rationalise heating times and occupation patterns outwith normal hours	-	13,300	400
Various Sites	Replace cross head taps with push taps	2,157	500 m3	800
Bishopmill PS	Service PIR controllers in boys urinals	10	22 m3	35
Cumming Circle	Rationalise Heating and DHW setpoints and times	-	150	240
East End PS	LED Lighting	15,000	1,695	7,000
Elgin Community Centre	Apply local measures to limit ingress uncontrolled air through ventilation ducts	-	5,000	150
Elgin Community Centre	Apply pipework insulation to water heaters	30	2,000	60

APPENDIX V

Elgin Community Centre	Complete a building user guide covering operation of heating, lighting and other related functions	-	2,000	200
Elgin Library	Adjust temp setpoint of IT server room	-	220	20
Forres Academy	Repair door fault	-	1,800	600
Forres Academy	Review and adjust heating zone times	-	1,350	450
Forres Community Centre	Switch off PC monitors in Moray Council IT room when not in use	-	420	40

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	70,000	350,000	34,000
Keith Sports and Forres Swimming Pool	Install sub-metering to determine consumptions to adjoining buildings	5,000	-	-
Elgin Library	Replace internal lighting	20,000	67,000	8,000
All educational Buildings	Urinal Controls	15,000	8,000	13,000
Multi-Storey Carparks	LED Lighting	30,000	150,000	18,000

Projects in planning – initial feasibility stage:

APPENDIX V

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