

Table 1: Abbreviations/Acronyms within the following table (2):

E&CS	Education and Children Services
EfW	Energy from Waste
H&SCP	Health and Social Care Partnership
kWh	Kilowatt Hour
LED	Light-Emitting Diode
LLA	Live Life Aberdeenshire
NDEEF	Non-Domestic Energy Efficiency Framework
P&FM	Property and Facilities Management
RTPI	Real Time Passenger Information
TBD	To Be Determined
tCO2e	Tonnes of Carbon Dioxide Equivalent

Table 2: Carbon Budget 2023 – 2024 Progress Update

BUSINESS SERVICES	Proposed Identified tCO2e Savings 2023/24	Anticipated tCO2e Savings 2023/24	August 2023 Update on Projects
Upgrade Windows	19	19	Upgrade works are ongoing and part of the P&FM Capital Plan. As completed, details of each project and achieved savings will be updated.
Upgrade Roof	40	40	
Lighting Upgrades	20	20	
NDEEF – LED upgrades <i>* carried forward from 2022/23</i>		*207	The LED upgrades as part of the NDEEF project have been delayed, due to material supply issues – they are expected to be completed by end December 2023 with carbon savings attributable to 2023/24.
Business Services Total	79	286	
ENVIRONMENT & INFRASTRUCTURE SERVICES	Proposed Identified tCO2e Savings 2023/24	Anticipated tCO2e Savings 2023/24	August 2023 Update on Projects
High Specification Bus Shelters - off-grid	1	1	5 x high specification bus shelters and 3 x RTPI battery powered e-paper displays installed at Peterhead Bus Station (July 2023) total cost £98k. Plan to install 3 x high spec shelters with battery powered e-paper displays at Fraserburgh and 1 x similar specification at Stonehaven by no later than 31 March 2024 at a total cost of £95k – all products are off grid and combined are delivering the identified tCO2e savings.

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Electric landscaping equipment – 3 more squads	TBD	Unknown	In Service trial on going. We are unable to determine the emission savings from this project due to a lack of data.
Two additional lease electric cars	TBD	Unknown	Delivery expected in August. We are unable to determine the emission savings from this project due to a lack of data.
Battery rammer to trial alongside traditional petrol machines	TBD	Unknown	To be progressed. We are unable to determine the emission savings from this project due to a lack of data.
Roads resurfacing – warm mix	220	220	Switched to warm mix in March 23.
Reduced Greenspace maintenance	TBD	Unknown	We are unable to determine the emission savings from this project due to a lack of data.
Energy from Waste	900	1351	All waste is currently going to the NESS EfW plant during the commissioning phase. The plant is due to be fully operational by the end of August 2023. With all waste now going to EfW plant the estimate for emission saving has increased. An average of 3180tonnes of waste diverted from landfill (1419tCO ₂ e) to EfW (68tCO ₂ e) gives an estimated saving of 1351 tCO ₂ e.
LED street lighting	261	230	Anticipated savings less than proposed estimate due to procurement issues. Still looking to gain a consumption saving of 1,190,900kWh or 14%. We are experiencing issues with procurement of the lanterns. We had a delay with a framework which held up purchasing so trying to catch up from this.
Warp-It	10	10	Current savings from April – July is sitting at 3.6tCO ₂ e.
Environment & Infrastructure Services Total	1392	1812	
EDUCATION AND CHILDREN SERVICE			
EDUCATION AND CHILDREN SERVICE	Proposed Identified tCO₂e Savings 2023/24	Anticipated tCO₂e Savings 2023/24	August 2023 Update on Projects
E&CS Energy Project	TBD	Unknown	An E&CS Education Waste Strategy is being drafted which will directly support the Aberdeenshire Council Waste Strategy and Route Map. The draft strategy is committed to reducing the overall level of waste within schools, by encouraging the reduction in waste which is not currently recyclable, and

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			<p>optimising the levels of waste which may be recycled or repurposed. The strategy will further aim to encourage the participation of young persons in the development of local initiatives and projects to enhance behavioural changes in support of waste reduction.</p> <p>E&CS further awaits confirmation from the Scottish Government into the next academic session for the removal of pandemic related recommendations with regard to ventilation in schools, which should encourage a return to lower pre-pandemic levels of energy use across the educational estate.</p>
Reduction in pool temp	TBD	TBD	Officers continue to look at best practice regarding pool water temperature and previously reduced temperatures by a degree in main pool basins with reductions in energy usage estimated at potential savings of £50,000 per annum across those sites. Customer feedback is monitored.
Heating review in smaller sites	TBD	Unknown	No further information provided by LLA.
Industry assessment of main sites	TBD	Unknown	Officers carefully consider the design of future projects to both a) ensure appropriate re-use of existing infrastructures to minimize new build requirements and b) ensuring new designs work towards carbon neutrality both in terms of utility costs and building materials.
Asset rationalisation	TBD	Unknown	No further information provided.
Princh Printing	TBD	Unknown	The Princh Printing app allows users to print documents at local locations which potentially saves travel time for those who do not have printing facilities at home and require access to hard copy material, for example to support an application of one kind or another. The initial introduction of this facility across the Library service, is being extended to include printers available in community sports buildings, which will extend the community access points for those wishing to use this facility and potentially reduce travel miles.
Digital access to resources	TBD	Unknown	No further information provided by LLA.
Update of Raw Food Policy	1	1	Policy underway.

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Participatory Budget Projects in Primary Schools	TBD	TBD	No further information provided.
Education & Children Services Total	1	1	
HEALTH & SOCIAL CARE PARTNERSHIP			
	Proposed Identified tCO2e Savings 2023/24	Anticipated tCO2e Savings 2023/24	August 2023 Update on Projects
Reduction in business miles	TBD	TBD	No further information provided by H&SCP.
Resources and Circular Economy Frameworks	TBD	TBD	No further information provided by H&SCP.
Health & Social Care Partnership Total	TBD	TBD	
Grid Decarbonisation	500	0	The emission factor has increased. No emissions will therefore be reduced further by the electricity emission factor.
Total Reductions Identified in March 2023 (tCO2e)	1972		
Total Reductions currently anticipated for 2023-24 (tCO2e)		2098	

*TBD = Data still to be determined for tCO2e savings if consumption data can be provided by services