

## SHORT TERM ACTIONS – WITHIN 1 YEAR

REF	THEME	DESCRIPTION	DEPENDANCIES	ORIGINAL TARGET DATE	Progress Update January 2023
1	Data	Estate baseline data collection.	Work across Estates, Finance, Fleet & Laser.	Jul-22	Completed
2	Funding	Submit bid for decarbonisation surveys under the Public Sector Low Carbon Skills Fund.	Work between Estates and consultant.	Jun-22	Completed
3	Funding	Receive award decision on bid.	Evaluation by fund manager, Salix.	Aug-22	Bid Rejected
4	Data	Baselining workshop to discuss the options detailed in the reports and to confirm which one(s), we would like to take forward.	Scheduling by 7F Procurement with all 7 forces.	Sep-22	Completed
5	Data	Undertake decarbonisation surveys.	Dependant on funding bid.	Sept - Dec 2022	Instructed surveys November 2022 once internal funding was confirmed. Likely completion of surveys March 2023, with reports due in Spring. Long lead times due to high demand for qualified consultants but will also be coordinated with building condition surveys to ensure smarter approach to future building interventions
6	Planning	Prepare an initial schedule of projects from the baselining exercise, to ensure carbon reduction activities are delivered.	Dependant on workshop and consultants report by Laser.	Oct-22	Baseline exercise provided insufficient detail on a site by site basis to inform projects. Detailed site surveys will inform this point. Likely schedule early Summer 2023
7	Planning	Develop projects following decarbonisation surveys.	Internal resource.	Jan-23	To be started once decarbonisation and condition surveys are completed (5 and 6 above)
8	Governance	Finalise transition plan and report to Resource.	relies on receipt of surveys	Feb-23	Likely to be late Spring to provide headline solutions
9	Funding	Agree funding plan to achieve carbon net zero by 2035 at FEB and BCB.	Ability of organisation to fund.	March/April 2023	Will follow on from 5-8 above - likely late Summer 2023
10	Partnership	Engage with partners across public and private sector to explore joint opportunities, learning & development. Estates are working with Cambs partners on the Climate Working Group.	Common goals of partners.	Ongoing	7F workshop undertaken and lodged interest in joint schemes. Involved with CPCA Climate Programme Board, Fire service and developing other contacts through NPEG and looking at possibility of some form of benchmarking.
11	Carbon Reduction	Replace gas boiler at Wisbech with low carbon model capability of a 20% hydrogen mix to align with government proposal.	Internal resource.	Spring 2022	Contractor availability has caused issues on delivery but part L building regs compliance is likely to drive more sustainable solution. Proposed solution by Summer 2023

12	Carbon Reduction	Replace gas boiler at Copse Court with low carbon model capability of a 20% hydrogen mix to align with government proposal.	Internal resource.	Summer 2022	Contractor availability issues but part L building regs and full Air Source Heat Pump solutions now to be looked at which will enhance low carbon approach. Summer 2023
13	Carbon Reduction	Replacing lighting with energy efficient LED lighting - Copse Court	Internal resource.	Summer 2022	Copse Court 40% complete, access to contractors/procurement process for new contract causing delays. Ongoing
14	Carbon Reduction	Design low/zero carbon solutions for St Neots Fire Station.	Partnership working and funding.	Oct-22	Not now proceeding, but to incorporate low carbon solutions into any St Neots solution.
15	Carbon Reduction	Design low/zero carbon solutions for Monks Wood Operational Training Centre. Air source heat pumps.	Funding across BCH.	Jan-23	Progressing - Construction Tender due back 3/2/23
16	Carbon Reduction	Upgrade Building Management System at Thorpe Wood.	Internal Resource		Now agreed with ICT to pilot BMS solution at Ely PS as lower risk location to prove concept. - Spring 23. Roll out will follow.
17	Carbon Reduction (Waste)	Improved waste segregation and use more local companies to reduce the carbon footprint from transport	Partnership with contractor Zest	Spring 2023	Completed infrastructure (bins) - needs further work on behaviours and measures.
18	Carbon Reduction	Reduce building and boiler temperatures across the force to more typical levels. This has been in small increments to assist user comfort but still 1.3 degrees to go in some places.	Internal Resource	Spring 2023	Completed, temperature maintained at minimum 21 degrees, typically 22 in most locations at present. Demo
19	Carbon Reduction - Energy	Review the savings opportunity from good housekeeping. This was addressed as part of 2011 Local Authority Carbon Management (LACM) Plan	Internal Resource	Spring 2023	Measures will be recognised in annual energy usage/carbon emissions figures.
20	Carbon Reduction - Energy	Review technological/capital solutions such as PV, air source, ground source.	Internal resource & funding.	Summer 2022	Ongoing opportunities and technologies are being investigated and will be informed by decarbonisation surveys

## MEDIUM TERM ACTIONS – 2 - 4 YEARS

REF	THEME	DESCRIPTION	DEPENDANCIES	TARGET DATE	Update January 2023
21	Carbon Reduction	Design low/zero carbon solutions for Cambridge Southern Police Station including EV charging.	Internal funding.	Summer 2023	These were initially designed out in Value engineering exercise 2021 and will now be reintroduced to meet Part L Building regs requirements.

22	Carbon Reduction	Design low/zero carbon solutions for Monks Wood Operational Learning Centre including EV charging.	Salix bid.	Summer 2023	Agreed not to proceed with bid for Salix funding - not low carbon option as would require re-design and cost increase due to part L regulations. Needs consideration on wider future of the site in terms of refurbishment/redevelopment and not in isolation.
23	Carbon Reduction	EV charging across the force.	Fleet Transition Plan	2023/27	Copse Court chosen as pilot feasibility for local fleet, electrical capacity investigated for both ASHP as well as EV. Overall elec. capacity available at no extra cost. Now working on design for charging units
24	Carbon Reduction	Estate migrating to LED lighting across the force. FHQ & Copse would have already been completed.	Internal funding. <b>Contractors/Procured contract</b>	2023/25	Copse 40% and Copse external car parking completed. Lack of contractors is impacting.
25	Carbon Reduction	Upgrade Building Management Systems.	ICT support.	2023/25	Ely comment above (16) - will test concept and commence roll out 2nd half 23/24 to other sites.
26	Carbon Reduction	Ongoing rationalisation of air conditioning plant from older refrigerants to R32 to increase efficiency. Replacement unit to be of variable refrigerant flow where possible increase efficiency.	Internal Funding.	2023/25	Progressing - only 6 units still to be replaced
27	Carbon Reduction	On-going increase in pipework insulation where damaged, removed or not installed.	Internal resource & funding.	2023/25	Ongoing as works undertaken - medium/low risk most principal boilers have jackets now.
28	Carbon Cost of Crime	Continue to promote Secure by Design (and link to the carbon cost of crime) on major new developments across Cambridgeshire and capture the carbon savings.	Internal resource	2023/25	Investigating how to measure SBD advised schemes to non-SBD schemes in terms of crime numbers and link to earlier research on carbon "cost" of crime, research does not appear to have been updated.
29	Carbon Reduction - Water	Upgrade of urinals and wc pipework. Heavy water losses are being seen at some sites due to constant leaking systems.	Internal resource & funding.	2023/25	Ongoing but access to contractors hindering work
30	Carbon Reduction - Water	Work with local water providers to introduce systems of water saving and replacement of faulty meters	Internal resource & funding.	2023/25	Steve
31	Carbon Reduction –	Introduction of valve jackets to plant rooms.	Internal resource & funding.	2023/25	85% complete, the remainder are on buildings with limited life.

## LONG TERM ACTIONS – IN 5 YEARS OR MORE

REF	THEME	DESCRIPTION	DEPENDANCIES	TARGET DATE	Update January 2023
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32	Carbon Offsetting	Coppicing the roadside woodland area at Monks Wood and tree replanting. Improve the grassland management at Monks Wood (to include the field at the rear of the site)	Funding (explore DEFRA grant) & statutory consent.	2027	Work yet to commence - take into account proposed JPS works.
33	Carbon Offsetting	Coppicing the woodland at St Neots and tree replanting.	Funding & statutory consent.	2027	Likely disposal of this land around retained smaller footprint
34	Carbon Offsetting	Coppice and plant new trees in HQ spinney. Hedging to the inside of the new fence line at HQ.	Funding & statutory consent.	2027	Work to commence, fenceline requires completion first.
35	Carbon Offsetting	Improving quality of existing green spaces to actively support nature.	Funding	2028	Steve
36	Carbon Reduction - Water	Capture and reuse of rainwater perhaps for washing vehicles.	Funding	2028	Requires further investigation
37	Carbon Reduction – Heating	Reduction of dead heating system pipework and long dead legs to improve heat distribution	Internal resource & funding.	2029	Ongoing but access to contractors hindering work
38	Carbon Reduction - HVAC	Introduce ventilation ductwork cleaning programme to keep air systems clean and increasing motor efficiency.	Internal resource & funding.	2029	70% of cleans complete
39	Carbon Reduction - HVAC	Linking large air handling units to CO2 levels and presence detection rather than just temperature. This will reduce motor speeds depending on occupancy levels.	Internal resource & funding.	2029	Follow on from BMS implemenetation
40	Carbon Reduction	<b>Ensure Net Zero Emissions</b>	Internal resource & funding.	2035	