

This Action Plan is based on the best options currently available to us and may be subject to change dependant on the outcomes of further feasibility assessment and technological advancements. Renewable energy technology is advancing all the time and as it is developed generally becomes more affordable and viable.

Decarbonisation strategies will be developed for all operational Council buildings and will inform the actions we take forward in relation to those premises. The Energy Saving Trust Fleet Review will also inform the choices we make in relation to the future of our fleet.

Action	Details	Delivery timeframe	Completion	Lead officer	Estimated cost	Estimated carbon savings (tCO2e/yr)	Annual savings (£) or payback period (yr)
<b>FLEET</b>							
Energy Saving Trust Fleet Review to be undertaken	Energy Saving Trust will able to offer more detailed support and guidance on the best measures to take forward and the viability of key sites for transition to EV.	Q1 2022	Q2 2022	Climate Change & Environment Officer	None	N/a	N/a
Feasibility assessment of driver training and performance measures and their costs/benefits.	Energy Saving Trust will able to offer more detailed support and guidance on the best measures to take forward.	Q1 2022	Q2 2022	Climate Change & Environment Officer	N/a	To be determined by fleet review	To be determined by fleet review
Explore mechanisms for implementing driver league tables for refuse fleet.	Implement quarterly MPG league tables for waste fleet drivers with appropriate reward incentives.	Q2/3 2022	Implemented by Spring 2023	Service Manager for Waste	N/a	55	1,300
Driver training for all regular fleet driver vehicles e.g. waste/neighbourhood.	All regular fleet vehicle drivers to attend a driver training course once every five years.	Q1/Q2 2022	Implemented by Spring 2023	Neighbourhoods/ Waste Services Manager. HR managed?	£20,200*	94	45,000
Online driver training module for all pool car users.	All pool car users to undertake a module on eco-driving.	Q4 2022	Ongoing	Fleet Manager/Corporate issue?	To be determined	To be determined	To be determined

As pool car fleet come up for renewal - move to hybrid and EV technology. No new petrol/diesel vehicles to be purchased.	New procurement decisions around pool cars should seek low-carbon alternatives with no new fossil fuel replacements being purchased/leased	Ongoing as fleet comes under review	To be confirmed dependent on review periods	Fleet Manager	To be confirmed due to significant variables in approach	A 2018 report found that petrol vehicles produced the highest level of carbon dioxide (CO2) emissions at 125g per kilometre, while diesel vehicles emitted 122g. Battery electric vehicles in comparison produced zero CO2 tailpipe emissions. Therefore a reduction of up to 125g per km could be achieved. In the UK in 2019, the lifetime emissions per kilometre of driving a Nissan Leaf EV for example were about three times lower than for the average conventional car however these type of comparisons are complex and depend on the size of the vehicles, the accuracy of the fuel-economy estimates used, how electricity emissions are calculated, what driving patterns are assumed etc.	Electric cars typically cost £2 – £4 to fully charge, for a range of 100 miles. An equivalent petrol or diesel car costs £13 – £16 to drive 100 miles – approximately four times the cost. Approx £18,000 per year saving achievable.
Electrification of pool cars & vans	As fleet vehicles come to the end of their planned usage period, replace with electric alternatives	2024	Ongoing	Fleet Manager/Corporate issue?	£414,000	51.3	14 yr **
CNG RCV trial	Trial use of compressed natural gas RCVs for a number of vehicles	2024	-	Fleet Manager/Corporate issue?	£360,000	38.6	24 yr
Investigate low emission vehicle alternatives to HGV fleet as technology allows in line with proposed review of waste fleet.	As review of waste fleet comes up alternatives to be explored. Likely to be part of Lincs Waste Partnership review.	Q1 2026	-	Waste Services Manager /Lincs Waste Partnership	To be determined following fleet review	1,097*	To be determined following fleet review
CNG RCV rollout	Transition whole RCV fleet to compressed natural gas	2027	-	Waste Services Manager /Lincs Waste Partnership	£1,080,000	115.8	24 yr
Electric RCV trial	Trial use of electric RCVs for a number of vehicles	2030	-	Waste Services Manager /Lincs Waste Partnership	£450,000	33.1	33.6 yr
Electric RCV rollout	Transition whole RCV fleet to electric vehicles including previously CNG	2032	-	Waste Services Manager /Lincs Waste Partnership	£4,500,000	183.7	60.8 yr

**BUILDINGS**

<b>Development of Decarbonisation Strategy for Municipal Buildings</b>	<b>Future actions will be subject to change depending on feasibility outcomes from the development of the decarbonisation strategy</b>	<b>2024</b>	-	<b>Climate Change &amp; Environment Team</b>	<b>Funding to be sought via Midlands Energy Hub</b>	<b>N/a</b>	<b>N/a</b>
Installation of loft insulation in the Municipal Buildings	This recommendation has been made by the Carbon Trust as part of the Carbon Reduction Plan however will be refined as part of the development of a decarbonisation strategy	2023	-	Property & Technical Services/Climate Change & Environment Officer	£9,000	1.9	17.5 yr
Installation of LED lighting in the newest section of the Municipal Buildings	This recommendation has been made by the Carbon Trust as part of the Carbon Reduction Plan however will be refined as part of the development of a decarbonisation strategy	2023	-	Property & Technical Services/Climate Change & Environment Officer	£21,000	7.6	5.9 yr
Upgrading the boiler to a more efficient gas boiler in the old section of the Municipal Buildings	This recommendation has been made by the Carbon Trust as part of the Carbon Reduction Plan however will be refined as part of the development of a decarbonisation strategy	2024	-	Property & Technical Services/Climate Change & Environment Officer	£20,000	10.7	11.5 yr
Municipal Buildings - HVAC service in the 'new' building - Carry out a full service of the HVAC system and replace any failing or faulty parts	This recommendation has been made by the Carbon Trust as part of the Carbon Reduction Plan however will be refined as part of the development of a decarbonisation strategy	2024	-	Property & Technical Services/Climate Change & Environment Officer	Contractor quote required - To be determined	4.9	N/a
Upgrade the building management system across the Municipal Buildings	This recommendation has been made by the Carbon Trust as part of the Carbon Reduction Plan however will be refined as part of the development of a decarbonisation strategy	2026	-	Property & Technical Services/Climate Change & Environment Officer	£162,000	13.4	32.8 yr
Construct a solar carport in the parking area of the Municipal Buildings and investigate potential for EV storage bank.	This will provide on-site electricity generation and additional coverage for vehicles. If storage bank is found to be feasible this could generate an income and would provide energy supply on low light days and after sunset	2026	-	Property & Technical Services/Climate Change & Environment Officer	£61,000	10.5	12.2 yr
Relocate office from the Municipal Buildings to a more energy efficient building	This recommendation has been made by the Carbon Trust as part of the Carbon Reduction Plan however will be refined as part of the development of a decarbonisation strategy	2036	-	Property & Technical Services/Climate Change & Environment Officer	To be determined following feasibility study/development of decarbonisation strategy	88	To be determined following feasibility study/ development of decarbonisation strategy

<b>Development of Decarbonisation Strategy for Crematorium (Wast Heat Strategy to form part of this)</b>	<b>Future actions will be subject to change depending on feasibility outcomes from the development of the decarbonisation strategy</b>	<b>2024</b>	-	<b>Climate Change &amp; Environment Team</b>	<b>Funding to be sought via Midlands Energy Hub</b>	<b>N/a</b>	<b>N/a</b>
Crematorium Chapel - Upgrade cavity wall insulation in the chapel as far as possible and Install loft insulation.	This recommendation has been made by the Carbon Trust as part of the Carbon Reduction Plan however will be refined as part of the development of a decarbonisation strategy	2025	-	Property & Technical Services/Climate Change & Environment Officer	£5,300	1	Cavity insulation - 37.8 yr Loft insulation - 25.8 yr
Crematorium building - Upgrade glazing on all crematorium windows and glass corridor.	This recommendation has been made by the Carbon Trust as part of the Carbon Reduction Plan however will be refined as part of the development of a decarbonisation strategy	2025	-	Property & Technical Services/Climate Change & Environment Officer	£9,000	1.5	36.7 yr
Crematorium louvres	Louvres/brise soleils to be installed to the exterior of the glass corridor to reduce solar gain in the summer. No energy saving here but improved comfort levels. This recommendation has been made by the Carbon Trust as part of the Carbon Reduction Plan however will be refined as part of the development of a decarbonisation strategy.	2025	-	Property & Technical Services/Climate Change & Environment Officer	To be confirmed	N/a	N/a
Install Solar PV on the chapel roof	This recommendation has been made by the Carbon Trust as part of the Carbon Reduction Plan however will be refined as part of the development of a decarbonisation strategy	2027	-	Property & Technical Services/Climate Change & Environment Officer	£32,000	6.4	10.6
Switch fuel combusted in crematorium furnace from natural gas to a biogas blend	This recommendation has been made by the Carbon Trust as part of the Carbon Reduction Plan however will be refined as part of the development of a decarbonisation strategy.	2028	-	Property & Technical Services/Climate Change & Environment Officer	To be determined following feasibility study/development of decarbonisation strategy	20.3	To be determined following feasibility study/development of decarbonisation strategy
Introduce use of a new cremation method	Implement the usage of Resomation or alternative cremation processes. This recommendation has been made by the Carbon Trust as part of the Carbon Reduction Plan however will be refined as part of the development of a decarbonisation strategy.	2040	-	Property & Technical Services/Climate Change & Environment Officer	To be determined following feasibility study/development of decarbonisation strategy	55.6	To be determined following feasibility study/development of decarbonisation strategy

<b>Development of Decarbonisation Strategy for Geoff Moulder Leisure Centre</b>	<b>Future actions will be subject to change depending on feasibility outcomes from the development of the decarbonisation strategy</b>	<b>2024</b>	-	<b>Climate Change &amp; Environment Team</b>	<b>Funding to be sought via Midlands Energy Hub</b>	<b>N/a</b>	<b>N/a</b>
Geoff Moulder Leisure Complex to move to a new site with state of the art facilities	Many actions already taken at this site to reduce CO2 impact. This recommendation has been made by the Carbon Trust as part of the Carbon Reduction Plan however will be refined as part of the development of a decarbonisation strategy.	2030	-	Property & Technical Services/Corporate Issue?	To be determined following feasibility study/development of decarbonisation strategy	213.5	To be determined following feasibility study/development of decarbonisation strategy
<b>Specialist feasibility study/ Decarbonisation Strategy to be undertaken for Guildhall due to listed building status</b>	<b>Engage specialists to produce Decarbonisation Plan for the Guildhall. Future actions will be subject to change depending on outcomes from feasibility study/development of the decarbonisation strategy</b>	<b>Poss 2023 - external funding likely to be available</b>	-	<b>Property &amp; Technical Services/Climate Change &amp; Environment Officer</b>	<b>Funding to be sought</b>	<b>N/a</b>	<b>N/a</b>
Public toilets are to have LED lighting and energy efficient hand dryers fitted		2025	-	Property & Technical Services/Climate Change & Environment Officer	£5,500	1.6	LED Lighting - 5.9 yr Hand dryers - 9.8 yr
<b>WASTE</b>							
Develop cross alliance single use waste policy and undertake audit of current usage.	Audit of current single-use product usage in line with policy development. Service areas may be tasked with addressing their own purchases etc. This in itself will deliver a separate programme of work but is designed to reduce overall waste from assets.	Q3 2022	-	Procurement Manager/Climate Change & Environment Officer	N/a	To be determined following Procurement audit	To be determined following Procurement audit
Kettles and fridges should be removed from all offices and depots and must be situated in communal kitchens only.		Q1 2023	-	Property & Technical Services	N/a	To be determined	To be determined
Review of current recycling/waste arrangements.		Q1 2023	-	Procurement Manager/Climate Change & Environment Officer	To be determined	N/a	N/a
<b>COMMUTING</b>							
Promotion through internal communications of hybrid/electric vehicles for commuting to educate and increase awareness.	Ensure salary sacrifice schemes for low emission/EV vehicles are accessible to employees. Due to be reviewed by PSPS Board in December 2021 with a view to Tusker Scheme being rolled out in April 2022	Q3 2022	-	Communications Team/Climate Change & Environment Team	N/a	To be determined	To be determined

Vehicle sharing incentive scheme.	Implement vehicle sharing incentive schemes as appropriate for staff travelling to offices.	2023	-	Communications Team/HR/ Climate Change & Environment Team	To be determined	To be determined	To be determined
Encourage the maintenance of online meetings, agile working and work from home via policies/internal comms.	Agile working policy in place. Internal comms may be needed to ensure new ways of working are maintained.	Q2 2022	Ongoing	Communications Team/Climate Change & Environment Team/HR	N/a	To be determined	To be determined
Monitoring of post COVID returns to the office for 12-24 months.	By monitoring year on year footprints post Covid, will identify where old ways of working have slipped back and help to focus how gains can be maintained.	Q1 2023	Q1 2024	HR/Climate Change & Environment Team/ Communications	N/a	Saving made through harnessing carbon reductions made as a result of the impact of COVID19 - Commuter travel went down by in 5.1 tCO <sup>2</sup> e in FY 2020/21.	Target reduction of 50% per annum
<b>BUSINESS TRAVEL</b>							
Encourage online meetings, agile working and work from home.	Agile working policy in place. Internal comms may be needed to ensure new ways of working are maintained.	Q1 2022	Ongoing	Communications Team/Climate Change & Environment Team/HR	N/a	To be determined	To be determined
Training all staff & members to use conference technology more effectively to support agile working including new starters.	Teams & telephone conferencing training especially for meeting organisers.	2022	Ongoing	IT/HR	To be confirmed	To be determined	To be determined
Encourage staff & members to vehicle share when attending business meetings.		2022	Ongoing	Communications Team/Climate Change & Environment Team/HR	N/a	To be determined	To be determined
Monitoring of post COVID business travel for 12-24 months.	By monitoring year on year footprints post Covid, we will identify where old ways of working have slipped back and help to focus how gains can be maintained.	Q1 2023	Q1 2024	HR/Climate Change & Environment Team/ Communications	N/a	Savings made through harnessing carbon reductions made as a result of the impact of COVID19 - Business travel went down by in 12.5 tCO <sup>2</sup> e in FY 2020/21.	Target reduction of 50% per annum
<b>LINKED INITIATIVES</b>							
Carbon Literacy Training to be rolled out to all employees & members.	Top down approach to training all staff with rolling programme of training for new starters. Lincolnshire wide member training being currently explored for consistency.	Q1 2023	Ongoing	Climate Change & Environment Manager/Officer	£11,000 - across the S&ELCP	5-10% reduction per person	To be determined
Establish Green Champions across the Alliance to assist in the promotion of Carbon reduction measures.	Bringing champions from all services areas together to drive forward projects and improvements and take ownership of their own impacts on organisational carbon footprint.	2022	-	Climate Change & Environment Team	N/a	N/a	N/a

Strategy for tackling residual emissions in line with accredited GHG removal including natural solutions.	As GHG removal initiatives become clearer, routes to tackling residual emissions should be identified.	2025	-	Climate Change & Environment Team	Funding to be sought	N/a	N/a
<b>LEADING THE COMMUNITY</b>							
Formation of South East Lincolnshire Climate Action Network (SELCAN) and Climate Change Strategy.	Facilitated by the Strategic Alliance, SELCAN will bring together private, public and community sectors to jointly tackle climate change. This will provide a platform for best practise to evolve in relation to Climate Change and provide support for stakeholders who wish to become more 'green'.	2022	-	Climate Change & Environment Team/Across Alliance	N/a	SELCAN will aim to assist external organisations in reducing their own carbon emissions rather than direct reductions to our operational emissions.	N/a
Community Orchards initiatives.	Formation of small carbon sinks and provision of other environmental and co-benefits. One acre of orchard can absorb 10-20 tCO2 per year.	Ongoing	-	Climate Change & Environment Team	Grant funding secured	To be determined	To be determined
Embodied carbon strategy for new developments.	New buildings which are more energy efficient need to be understood alongside the payback of the materials used in their development.	2024	-	Climate Change & Environment Team/Property & Technical Services	Funding to be sought	N/a	To be determined
Full emissions consideration for ensuring net zero aspirations are part of supplier contracts/services through procurement policies.	Understand the impact of our wider emissions through everything we procure. As appropriate, require suppliers to meet particular carbon emissions standards.	2023	-	Procurement Manager	To be confirmed - A study looking specifically at these emissions is likely to cost in the region of £10,000	To be determined	To be determined

\* figures proposed by Carbon Trust as part of their review but will need further investigation

\*\* Payback periods listed have been sourced from the Carbon Reduction Plan and will be part of the cost benefit analysis which will be undertaken as part of feasibility assessments.