

ID	Climate Action Area	Climate Action	Description	Funding source	Year funding starts	Year funding ends	Lifetime cumulative CO2e savings	Year emissions savings start	Average annual CO2e savings to 2030, tonnes	Co-benefits	KPI 2023-2024	Traffic light progress	Further information	Total Exp. 23-24 £'000	Total Exp. 24-25 £'000	Total Exp. 25-26 £'000	Capital/Revenue /Mixed	Total cash savings 23-24 £'000	Total cash savings 24-25 £'000	Total cash savings 25-26 £'000	Comments
GLA: Mayor																					
GLA-A.1	Buildings	Energy monitoring system to baseline energy consumption for GLA building and identify relevant projects	Use data to explore with Retrofit Accelerator- Workplaces opportunities for further energy saving projects.	FM Budget	2023-2024	2025-2026	Enabler	Enabler	Enabler N/A		Contract to be in place 3 months after practical completion of the fit-out project.	TBC	N/A	40	N/A	N/A	Mixed	N/A	N/A	N/A	
GLA-A.2	Buildings	Complete LED lighting project at City Hall	Some areas of City Hall were outside the scope of the refurbishment project carried out by ISG. This project will ensure the remaining areas at City Hall building are upgraded to the latest LED lighting. This will be done as a Capital project by the Mayor.	FM Budget	2023-2024	2023-2024	76	2023-2024	10	N/A	Contractor appointed by end of December 2022. Works to be completed by April 2023.	TBC	N/A	200	N/A	N/A	Capital	TBC	TBC	TBC	Opex savings from less electricity demand for lighting
GLA-A.3	Buildings	Thermal comfort policy	To ensure heating and cooling of the city hall building is compliant with legislation but doesn't waste energy.	FM Budget	2023-2024	2023-2024	Enabler	2023-2024	Enabler N/A		1st Draft to be ready for environment team to review by Apr 2023.	TBC	N/A	50	N/A	N/A	N/A	TBC	TBC	TBC	Opex savings from less electricity demand due to running building more efficiently
GLA-A.4	Buildings	Investigate pump optimisation and control at City Hall	City Hall building has approx. 40 pumps used for various operational aspects of the building. A detailed survey will be carried out to ensure the pumps are running efficiently and to the manufacturers recommendation following Practical Completion of the fit-out project.	FM Budget	2023-2024	2023-2024	Enabler	2023-2024	Enabler N/A		To be completed 6 months after practical completion of the fit-out project.	TBC	N/A	30	N/A	N/A	Capital	TBC	TBC	TBC	Opex savings from less electricity demand due to running pumps more efficiently
GLA-A.5	Buildings	City Hall mechanical vents refurbishment	Active design parameters of the building by allowing natural cooling of the building in summer months. This project was outside the scope of the refurbishment project carried out by ISG. This will be done as a Capital project by the GLA FM team.	FM Budget	2023-2024	2024	28	2023-2024	4	N/A	Proposal from contractors to be ready by March 2023. Project to be completed by December 2023.	TBC	N/A	600	N/A	N/A	Capital	N/A	TBC	TBC	Opex savings from less electricity demand due to avoided air conditioning in summer months
GLAP																					
GLAP-A.1	Buildings and Infrastructure	Collate Portfolio Baseline Utility Data for Year End March 2022	Project commenced with Avision Young to capture exact usage data using their Alpha Energy consultant across the GLAP portfolio	Mayor / GLAP	2022-2023	N/A	TBC	2023-2024	0	1. Creation of reference point 2. Ability to track and measure future emissions 3. Ability to measure reductions and rapidly adjust approach accordingly 4. Increased accuracy in financial budgeting 5. Identify redundant supplies 6. Identify energy management errors and equipment faults	Production of all quarterly reports and final year end data collation			N/A	N/A	N/A	Revenue	N/A	N/A	N/A	The Estates team and Avision Young have recently commenced this project therefore emissions saving targets are currently an initial estimate. Detailed data has begun to be compiled and has been agreed to be provided by Avision Young going forward on a quarterly basis.
GLAP-A.2	Buildings	Riverway Cottages	Analysis of the 10 Riverway Cottages that GLAP own to ascertain the benefits and costs related to switching from gas to alternative system such as heat pump. Undertake feasibility study.	Mayor	2023-2024	2023-2024	TBC	TBC	TBC		Complete report										This workstream is a combination of reviewing the current performance of the gas boilers in these properties and then assessing the impact any change to alternative energy sources would have. Funding for this assessment is within the GLAP Estates budget
GLAP-A.3	Buildings	Compressor House	Building has recently been returned to GLAP after being leased to a third party. Assessments are being undertaken on the building to understand what services could be improved.	Mayor	2023-2024	2023-2024	TBC	TBC	TBC	Reduced running costs	Complete report										Funding for this assessment is within the GLAP Estates budget
GLAP-A.4	Infrastructure	Lighting Infrastructure - Dagenham	GLAP are responsible for several kilometers of road in the Dagenham area. The lighting has been identified as old and this is currently being reviewed to ascertain if it can be improved at all and what the cost of replacing the lamps would be.	Mayor	2023-2024	2023-2024	TBC	TBC	TBC	Reduced running costs	Complete report										Funding for this assessment is within the GLAP Estates budget
MOPAC																					
MOPAC-P.1	Buildings	Asset Replacements	The capital costs and benefits here are for our LED Lighting changes from 2022/22 to 2025-2026. Note however that the benefits herein are only recorded for non-defined projects	Borrowing and receipts	2021-2022	2025-2026	7,978	2022-2023	835		The KPI will measure performance against the year end capital spend target and flag any delay / reduction in the delivery of elements contributing to decarbonisation.	Green	N/A	6,640	6,640	3,320	Capital	1,127	1,447	1,057	The capital costs, totalling £16.6m, and benefits here are for our LED Lighting changes from 2022/22 to 2025-2026. Note however that the benefits herein are only recorded for non-defined projects. All defined projects (such as P10, P11, and PSDS proposed projects) include their LED benefits in those specific projects.
MOPAC-P.2	Buildings	Asset replacements, building fabric and heat decarbonisation	Recommended Impact Assessment modelled decarbonisation and energy efficiency measures, plus LED lighting	Borrowing and receipts	2024-2025	2024-2025	4,362	2025-2026	334		The KPI will measure performance against the year end capital spend target and flag any delay / reduction in the delivery of elements contributing to decarbonisation.	Green	N/A		5,200		Capital	-	-	81	Decarbonisation benefits are taken from the Impact Assessment Model, including LED and lighting for these sites too. Line includes only 'in scope' works, as per approved OBC
MOPAC-P.3	Buildings	Asset replacements	LED lighting system, BMS, Heat Recovery, Boiler Replacement, Fans	Borrowing and receipts	2022-2023	2026-2027	3,808	2022-2023	327		The KPI will measure performance against the year end capital spend target and flag any delay / reduction in the delivery of elements contributing to decarbonisation.	Green	N/A	1,895	1,580	830	Capital	183	317	258	The Project Savings forecast provided by the programme refer to the Energy Strategy outputs. This project does not include full heat decarbonisation. These revenue benefits have been converted to kWh, to calculate the carbon emissions savings, and utility savings are recalculated using Impact Assessment utility price forecasts. - Decarbonisation benefits are taken from the Impact Assessment Model, including LED lighting savings. - FBC
MOPAC-P.4	Buildings	Asset replacements, building fabric and heat decarbonisation	Recommended Impact Assessment modelled decarbonisation and energy efficiency measures, plus LED lighting	Borrowing and receipts	2025-2026	2025-2026	2,041	2026-2027	159		The KPI will measure performance against the year end capital spend target and flag any delay / reduction in the delivery of elements contributing to decarbonisation.	Green	N/A			4,350	Capital	-	-	-	
MOPAC-P.5	Buildings	Adjusting building occupancy and vacating buildings		TBC	N/A	N/A	68,430	2022-2023	2,202		The KPI will indicate any delay / reduction in the delivery of elements contributing to decarbonisation (vacating buildings)	Amber	N/A				Capital	839	1,096	759	Significant carbon and revenue benefits are delivered as a result of the Estate Transformation Programme. The revenue savings listed relate solely to the direct kWh utility savings used for the carbon emissions savings calculations. No capital changes from the programme are shown in this spreadsheet. The Estate Transformation programme is currently undergoing a review, which may adjust the building being sold. Any detrimental changes will have a direct effect on the carbon benefits shown (hence the Amber KPI status).
MOPAC-F.1	Transport	Fleet - Enabling Project (Tech)	Key enabling technology for achieving Met Zero compliance. Attached to a vehicle this technology will monitor the health and location of a Met vehicle using GPS technology.	Borrowing and receipts	2020/21	2025-2026	Enabler	Enabler	Enabler	This will support the future deployment and charging strategies of the Met Fleet.	Project Ody is a current Telematics Trail project with supplier. 100 Met vehicles installed and testing	tbc	tbc	500	500	500	Capital	N/A	N/A	N/A	N/A reduction in overall fleet size is expected due to optimisation, using the information this telematics project will provide
MOPAC-F.2	Transport / PSD	Installation of Estates EV charging infrastructure	Implementation programme for the installation of 600 additional electric vehicle charging points across the MPS estate. To support ULEZ fleet hybridisation.	Borrowing and receipts	2020/21	2025-2026	Enabler	Enabler	Enabler	Support the roll out of the planned hybridization and electrification of the Met general purpose fleet.	Additional charging points installed to match increase of hybrid vehicles on fleet	tbc	tbc	1,000	2,000	2,000	Capital	N/A	N/A	N/A	Charging infrastructure - support ULEZ vehicles only – includes feasibility study into MET estate charging capacity & requirements
London Fire Commissioner																					
LFC-A.1	Buildings	Building retrofit Cookers	Replace 40 gas powered cookers with Electric	Mayor	2022-2023	2023-2024	1,284	2023-2024	107		Carbon reduction	TBC	LFC-0641	160	N/A	N/A	Capital	N/A	N/A	N/A	Carbon reduction
LFC-A.2	Buildings	Building retrofit ASHP	Replace 3 gas boiler with ASHP	LFC0256	2023-2024	2027-2028	360	2024-2025	30		Carbon reduction	TBC		1,000	N/A	N/A	Capital	N/A	N/A	N/A	Carbon reduction
LFC-A.3	Buildings	Building retrofit SPV	Install 4 Solar PV arrays	Mayor	2023-2024	2023-2024	130	2023-2024	11		Carbon reduction	TBC		300	N/A	N/A	Capital	N/A	N/A	N/A	Energy bill savings
LFC-A.4	Buildings	Building retrofit windows	Window replacement	LFC0354	2023-2024	2023-2024	1,500	2023-2024	360		Carbon reduction	TBC		4,415	N/A	N/A	Capital	247	247	247	
LFC-A.5	Buildings	Buildings retrofit	Appliance bay doors	LFC0533Y + LFC0354Y	2023-2024	2024-2025	22	2023-2024	15		Carbon reduction	TBC		1,200	N/A	N/A	Capital	TBC	TBC	TBC	
LFC-A.6	Buildings	Buildings retrofit	Appliance bay doors	LFC 0354	2024-2025	2025-2026	46	2024-2025	18		Carbon Reduction	TBC	LFC0354Y	2,600	N/A	N/A	Capital	TBC	TBC	TBC	
LFC-A.7	Buildings	Building retrofit windows	Window replacement	FWR	2024-2025	2025-2026	325	2025-2026	27		Carbon reduction	TBC		1,177	N/A	N/A	Capital	TBC	TBC	TBC	
LFC-A.8	Buildings	Building retrofit roofing	Roof replacement	AWP	2023-2024	2024-2025	1,170	2024-2025	390		Carbon reduction	TBC		916	916	N/A	Capital	TBC	TBC	TBC	Energy saving and carbon saving
LFC-A.9	Transport	Current Asset Replacement Programme	Replacement of hybrid pool cars to 50 electric vehicles	Mayor	2022-2023	2023-2024	1,185	2023-2024	237		Carbon reduction	TBC	LFC-0562	1,500	N/A	N/A	Capital	N/A	N/A	N/A	Carbon reduction
LFC-A.10	Transport	Current Asset Replacement Programme	Replacement of 2 driver training cars	Mayor	2023-2024	2024-2025	45	2023-2024	9		Carbon reduction	TBC		70	N/A	N/A	Capital	N/A	N/A	N/A	Carbon reduction
LFC-A.11	Behaviour Change	Carbon impact training	Carbon impact training for all LFB staff- following on from the LFB senior leader carbon literacy training	Internal staff resources	N/A	N/A	N/A	2023-2024	Enabler	Facilitate emissions reductions in other areas.	Carbon reduction	TBC	TBC	N/A	N/A	N/A	Capital	N/A	N/A	N/A	Carbon Impact training is an enabling measure and will facilitate emissions reductions in other areas.
TL																					
TL-A.1	Bus fleet	Zero emission vehicles	Zero emission fleet 2024	TL	Ongoing	2033-34	3,408,169	Ongoing	102,929	Air quality.	TBC			6,532	18,509	27,811	Revenue	-	-	-	Carbon savings from transition of diesel fleet to zero emission.
TL-A.2	Energy purchasing	Power Purchase Agreements	Renewables purchasing	TL	Ongoing	TBC	330,896	2027-28	30,781		TBC			558	558			-	-	-	Assumed cost neutral to existing purchasing strategy. Carbon profile aligned to TL's energy purchasing strategy.
TL-A.3	Buildings	Building retrofit (all modes)	Removal of gas and energy efficiency	TL	2023-2024	2030/31	254,365	2023-2024	6,617	Staff comfort, ambience, air quality.	TBC			3,000	9,000	12,000		543	2,516	4,805	Savings from reduction in energy cost.
TL-A.4	Vehicle fleet	Zero emission vehicles	Transition of support fleet	TL	2023-24	2030-31	88,788	2023/25	1,704	Air quality.	TBC			500	1,500	1,000		-	-	-	Converts circa 1,000 cars and vans in TL support fleet to zero emission. Does not cover circa 20 HGVs.
TL-A.5	Tube	Piccadilly line	Trains & associated line upgrades	TL	Ongoing	2031-32	38,754	2023-24	3,293	Reliability, ambience.	TBC			479,000	698,000	632,000		6,305	7,232	6,932	Savings from reduction in energy cost. Improvements from regen braking and lighter rolling stock.
TL-A.6	Solar	Private Wire project	3rd party delivered solar installs	TL	Ongoing		6,240	2024-25	590	TBC	TBC			300	300	300		-	1,138	1,091	Savings from reduction in energy cost as a result of directly connected renewables contracted through a PPA.
TL-A.7	Carbon training	Carbon literacy training	Roll out across TL	TL	Ongoing	N/A	N/A	N/A	N/A	Adaptation.	TBC			5	5	5	Revenue	N/A	N/A	N/A	Carbon literacy training is being rolled out across TL, with priorities including senior staff, staff involved in project delivery, and commercial staff to meet the commitment in the Responsible Procurement Implementation Plan
TL-A.8	Non building LEDs	Bus Shelter - Courtesy Lights and Advertising panels	Complete conversion	TBC	Ongoing	2024-2025	2,354	2023-2024	336	Maintainable assets / material replacement availability. Potential for reduced maintenance, investment helps to maintain advertising income				-	-	420	Capital	-	729	743	This project aims to retrofit LED lamps into Bus Shelter courtesy lights and advertising panels that currently utilise halogen & fluorescent lighting. As the sale of halogen & fluorescent lights are being phased out by August 2023 this will allow our revenue generating assets to continue to operate, but with a lower level of carbon emissions, maintenance and energy requirements, leading to savings for TL. The costs and the savings are based upon initial discussions with our maintenance contractors and advertising partner, and will be refined and amended as the project takes shape.
LLDC																					
LLDC-A.1	Public Realm	Low Energy Lighting	Street lighting Replacement luminaires for replacement across the Park and roadways	GLA	2023-2024	2023-2024	270	2023-2024	30	Energy Efficiency Annual energy savings + in MWh = 128/yr / GWh (electricity) + GJ/TJ (other energy savings)	Reduction in annual kWh (tbc) usage against baseline	Green	Number of lights replaced? Approximately 320 luminaires. How carbon is calculated? Refer to H2	210	-	-	Capital	6	13	13	
LLDC-A.2	Buildings	Energy Efficient water pumps	London Aquatics Centre - Pool circulation pumps replacement	GLA	2023-2024	2023-2024	510	2023-2024	51	Energy Efficiency Annual energy savings + in MWh = 208/ yr /GWh (electricity) + GJ/TJ (other energy savings)	Reduction in annual kWh (tbc) usage against baseline	Green		475	-	-	Capital	35	77	77	
LLDC-A.3	Buildings	Low Energy Lighting	Copper Box Arena - Perimeter, Gym and Circulation Corridors Lighting replacement of fluorescent lighting with LED lighting. Aprox. 200.	GLA	2023-2024	2023-2024	101	2023-2024	8	Energy Efficiency Annual energy savings + in MWh = 13/ yr /GWh (electricity) + GJ/TJ (other energy savings)	Reduction in annual kWh (tbc) usage against baseline	Green	Energy saving estimated at 41%. Cost saving over life of the lamps at average 40,000hrs £42.2k.	120	-	-	Capital	2	3	3	
LLDC-A.4	Public Realm	Solar photovoltaic panels	4 x London Stadium Solar PV installations: Workforce Entrance, Bridge 4, Bridge 1, Chiller Canopy	LLDC Carbon Offset Fund Grant	2023-2024	2023-2024	175	2023-2024	13	Staff/visitors educational, green skills development opportunities Renewable Energy Annual renewable energy + in MWh = 134/ yr /GWh (electricity) + GJ/TJ (other energy)	kWh generated per year (tbc)	Green	Various system yields of 16,573; 48,615; 11,049; 38,671 kWh respectively per year	286	-	-	Capital	31	31	31	
OPDC																					
OPDC-A.1	Energy	Local Area Energy Plan	An action plan for local area energy resilience, capacity for growth and decarbonisation	Mayor	2022-2023	2023-2024	tbc	2025	tbc	Capacity for future growth, local energy resilience	Publication of Local Area Energy Plan	Green		130	-	-	Revenue	N/A	N/A	N/A	Implementation of recommendation will be subject to further decision and commitment of funding

ID	Climate Action Area	Climate Action	Description	Funding Source	Year funding starts	Year funding ends	Effecting cumulative CO2e savings, tonnes or Enabling Measure	Year emissions savings start	Average annual CO2e saving (t CO2e, tonnes)	Co benefits	Responsibility (dept)	Further information	Proposed Exp. 23-24 £'000	Proposed Exp. 24-25 £'000	Proposed Exp. 25-26 £'000	Proposed Exp. 2022-23 to 2023-24 (incl.) £'000	Total Proposed Expenditure £'000	Capital/Revenue/Mixed	Proposed cash savings 23-24 £'000	Proposed cash savings 24-25 £'000	Proposed cash savings 25-26 £'000	Proposed cash savings 2022-23 to end 2023	Total Proposed cash savings 2022-23 to end 2023	Grant and/or Debt funding? Provide further details on any debt funding	Readiness: Immediate? 2-3y/3y+	Comments		
GLA																												
GLA-B.1	Buildings	Crystal Palace Review	Decarbonisation and GHG emission reduction feasibility review. Assessment of forthcoming wider works design and programme are initially required to then understand what improvements could be made to the scheme.	Mayor	2023-2024	2023-2024	Unknown	Unknown	Unknown	Reduced running costs	GLA Estates Team		TBC	TBC	TBC	TBC	TBC	Mixed	TBC	TBC	TBC	-	-	N/A	2-3 years	The forthcoming site works programme remains in development and is yet to be finished. Once progressed, the programme and design will be assessed with the expectation to subsequently examine appropriate options. If 2023-2024 assessment is positive and budget allows, then the work will commence to implement feasibility study recommendations.		
GLA-B.1	Buildings	Optimising Energy Management	Review energy usage data quarterly and compare year end 2024 data against 21/22 annual base line figure. Subsequent applicable optimisation work will be implemented	Mayor	2022-2023	2023-2024	Unknown	Unknown	10% 1. Ability to review and report performance against baseline 2. Adjust approach if required 3. Increased accuracy in financial budgeting 4. Remove redundant supplies	GLA Estates Team	TBC					TBC	Mixed							-	N/A			
GLA-B.2	Buildings	Policy	Work with internal stakeholders and external consultants to create a Sustainability Policy for assets held in GLA Land and Property Ltd	Mayor	2022-2023	2023-2024	Unknown	Unknown	Unknown	1. Ensure statutory compliance 2. Ensure GLAP alignment with Mayoral Policy 3. Ensure an approach to Net Zero that balances financial and policy aims 4. Ensure focus remains on areas of largest impact	GLA Estates Team						TBC	Mixed						-	N/A	A budget would be required for staffing time and any external consultant support needed to implement this project		
GLA-B.3	Buildings	Policy	Replace end of life gas heating with low carbon alternatives	Mayor	2022-2023	2023-2024	Unknown	Unknown	10% (TBC)	1. Direct local reduction in GHG emissions 2. Improved local air quality 3. Sustain and grows London's green economy by encouraging jobs and skills in clean technology	GLA Estates Team						TBC	Mixed						-	N/A	A budget would be required for staffing time and any external consultant support needed to implement this project		
GLA-B.4	Buildings	Policy Changes	Work with development colleagues and solicitors to ensure all new leases include 'green' clauses	Mayor	2022-2023	2023-2024	Unknown	Unknown	Unknown	1. Implement Mayoral Policy 2. Reduce GHG emissions 3. Ensure buildings are operated optimally 4. Improve perception of GLAP operated assets 5. Enable monitoring of data to ensure progress to meeting targets	GLA Estates Team	https://www.betterbuildingspartnership.co.uk/sites/default/files/media/attachment/bbp_gla-2013_0.pdf													-	N/A	Options for Green Lease clauses to be considered - Co-operation obligation Environmental Management Plan Data sharing and metering Restrictions on tenant alterations. A budget would be required for staffing time and any external consultant support needed to implement this project	
GLA-B.5	Buildings	Riveway Cottages	If 2023-2024 assessment is positive and budget allows, then the work will commence to implement feasibility study recommendations.	Mayor	2023-2024	2023-2024	Unknown	Unknown	Unknown	1. Direct local reduction in GHG emissions 2. Improved local air quality 3. Sustain and grows London's green economy by encouraging jobs and skills in clean technology	GLA Estates Team		TBC					TBC	Mixed						-	N/A	No budget in 2023-2024 has been identified yet as this depends on the findings of the study. No cost savings for GLAP as they are not the entity paying for the utility usage. The properties are occupied by residential tenants and therefore the responsibility of the landlord for this type of investment / improvement.	
GLA-B.6	Buildings	Compressor House	Building has recently been returned to GLAP after being leased to a third party. Assessments are to be undertaken as per A5, undertaken on the building to understand what services could be improved. If 2023-2024 assessment is positive and budget allows, then the work will commence to implement feasibility study recommendations.	Mayor	2022-2023	2023-2024	Unknown	Unknown	Unknown	Reduced running costs	GLA Estates Team		TBC	TBC	TBC	TBC	TBC	Mixed	TBC	TBC	TBC			-	N/A	2-3 years	This piece of work is looking at the building holistically. The one major piece that has been identified is switching the gas boiler over to a different type of heating mechanism. The options will be reviewed with the works being budgeted for next financial year.	
GLA-B.7	Infrastructure	Lighting Infrastructure - Dagham	GLA are responsible for several kilometers of road in the Dagham area. The lighting has been identified as old and this is currently being reviewed to ascertain if it can be improved at all and what the cost of replacing the lamps would be. If 2023-2024 assessment is positive and budget allows, then the work will commence to implement feasibility study recommendations.	Mayor	2022-2023	2023-2024	Unknown	Unknown	Unknown	Reduced running costs	GLA Estates Team		TBC	TBC	TBC	TBC	TBC	Mixed	TBC	TBC	TBC			-	N/A	2-3 years	This piece of work is looking at this infrastructure this financial year with the works being budgeted for next financial year.	
MOPAC																												
MOPAC-M.1	Management	Programme Management of Net Zero Programme		Unidentified revenue	2023-2024	2030-2031	Enabler	Enabler	Enabler		Property Services	N/A	1,000	1,000	1,000	5,000	8,000	Revenue	N/A	N/A	N/A	N/A	N/A	Unidentified revenue - to be confirmed	Immediate	Programme prior to 2023-2024 was largely SAIC grant funded, plus borrowing and receipts. Funding for 2023-2024 and beyond is TBC.		
MOPAC-C.1	Electricity	PPA zero carbon electricity implementation stage	Progression with the GLA / TH in PPA collaborative procurement exercise to source PPA for zero carbon electricity on up to 80% of electricity requirements, prior to 2030.	Unidentified revenue	2022-2023	2024-2025	41,312	2027-2028	4,064		Commercial	N/A	350	350	-	-	520	Revenue	N/A	N/A	N/A	unknown	unknown	Unidentified revenue - to be confirmed, although PPA will only be progressed if value for money is determined.	2-3y			
MOPAC-P.4	Buildings	PSDS Phase III (23-24 delivery) asset replacements, building fabric and heat decarbonisation	Heat decarbonisation and energy efficiency measures covered by PSDS grant funding (£325 per PSDS grant funding carbon tonne)	Unidentified grant or debt	2023-2024	2024-2025	10,205	2024-2025	1,490		Real Estate Development	N/A	6,000	8,000	-	-	9,000	Capital		600	416	2,141	3,163	PSDS grant funding, applied for.	Immediate	PSDS Application made Oct 2022. Grant award notification expected Dec 2022		
MOPAC-P.5	Buildings	PSDS Phase III (24-25 delivery) asset replacements, building fabric and heat decarbonisation	Heat decarbonisation and energy efficiency measures covered by PSDS grant funding (£325 per PSDS grant funding carbon tonne)	Unidentified grant or debt	2024-2025	2024-2025	32,009	2025-2026	2,596		Real Estate Development	N/A		12,500	-	-	12,500	Capital			949	4,816	5,765	PSDS grant funding, planned application.	2-3y	Whilst programme later (due to boiler age / site availability) the carbon benefits are higher for the PSDS HIC proposal, than PSDS HAs, as it happens heat decarbonisation saves more gas. Additionally there are more LED replacements due at PSDS HIC sites, compared to PSDS HAs sites. Number includes 25% OB. Projects need to be completed by end of 2024-2025 FY		
MOPAC-P.6	Buildings	Delivery of remaining identified asset replacements, building fabric and heat decarbonisation	This programme covers all NZC Impact Assessment heat decarbonisation requirements, such as insulation, solar PV, and heat pumps / electrified assets, as appropriate for each site.	Unidentified grant or debt	2025-2026	2030-2031	122,563	2026-2027	6,218		Real Estate Development	N/A			24,410	122,040	146,450	Capital					7,334	7,334	Unidentified grant or debt - to be confirmed	3y+		
MOPAC-F.4	Transport	Electric Incident Response Vehicle (IRV) trial; fleet - enabling Project	Evaluate Incident Response Vehicle (IRV) BEV charging and vehicle performance, payload and the impact of police duty cycle on battery range and charging cycles.	Unidentified grant or debt	2023-2024	2023-2024	Enabler	Enabler	Enabler		Met Fleet M011	N/A	100	-	-	-	100	Capital	N/A	N/A	N/A	N/A	N/A	Unidentified grant or debt - to be confirmed	Immediate	Detailed feasibility project is underway to understand the real-world limitations of EV in MET operational environment.		
MOPAC-F.5	Transport	Acceleration of fleet vehicle replacement programme with earlier delivery of Battery Electric Vehicles	Reduce MP5 fleet carbon emissions through the use of zero emission vehicles displacing ICE vehicles which will be delivered as part of the MPS Replacement Programme. This line includes ICE hybrid and BEVs.	Unidentified grant or debt	2028-2029	2033-2034	23,793	2027-2028	678	Air quality	Met Fleet M011	N/A	-	-	-	-	16,176	27,889	Capital					1,630	1,630	Unidentified grant or debt - to be confirmed	3y+	pragmatic uplift in Capital requirements if accelerated decarbonisation programme based on Accurrence analysis. This line also includes the revenue benefits from switching from fuel to Offsite EV charging.
MOPAC-F.6	Transport	Installation of Estates EV charging infrastructure.	This unfunded EV charging infrastructure element provides the carbon reduction for the planned (funded) EV Fleet, and any additional acceleration to this fleet. Noting that Salix PSDS funding does not include for any vehicle charging.	Unidentified grant or debt	2027-2028	2031-2032	46,888	2027-2028	2,455		Real Estate Development	N/A	-	-	-	128,622	187,567	Capital					3,638	3,638	Unidentified grant or debt - to be confirmed	3y+	£167.5m Capital requirement for EV charging infrastructure requirements on MPS sites. The costs include OB, with the annual cost profile taken directly from NZC Impact Assessment model. Noting that the estimate is based on 100% provision of the charging infrastructure on MPS sites. This will be subject to review when the scale of and accessibility to public charging infrastructure is clearer. This revenue benefit includes the transition from fuel to electricity charging (on site), and also includes increased management and maintenance costs of (inc. Elm p.a. by 2030-2031 on the onsite charging infrastructure (which increases from 2022-2023, as more chargers are installed).	
MOPAC-P.7	Resilience	Provision of resilient infrastructure - Fleet and Estates		Unidentified grant or debt	2026-2027	2033-2034	Enabler	Enabler	Enabler		Real Estate Development	N/A	-	-	-	17,520	26,578	Capital	N/A	N/A	N/A	N/A	N/A	Unidentified grant or debt - to be confirmed	3y+	This Capital requirement contains many assumptions on risk, as the 'Resilience Strategy' is in early stages of development.		
LFC																												
LFC-B.1	Buildings	Electrical supply upgrade	Increase electrical capacity all 102 buildings	Unidentified grant or debt	2024-2025	2029-2030	N/A	N/A	N/A	Provides essential infrastructure for CNZ	Property	FP156B carbon net zero	11,463	11,463	11,463	11,463	45,852	Capital							-	Immediate	This is required at 99% of stations to be able to progress CNZ plans as the gas replacement plan focuses on electric alternatives	
LFC-B.2	Buildings	Removing gas dependency	Replace gas powered boilers at 103 fire stations	Unidentified grant or debt	2024-2025	2029-2030	7,743	2,024	1,935	Reduction	Property	FP156B carbon net zero	11,463	10,122	11,337	11,337	30,509	Capital							-	Immediate		
LFC-B.3	Buildings	Removing gas dependency	Replace gas powered appliance by boilers at 103 stations	Unidentified grant or debt	2024-2025	2029-2030	100	2,024	25	Reduction	Property	FP156B carbon net zero	1,010	253	253	253	1,769	Capital							-	Immediate		
LFC-B.4	Buildings	Renewable generation	Increase the solar PV arrays	Unidentified grant or debt	2024-2025	2029-2030	3,600	2,025	1,800	Reduction	Property	FP156B figures need checking	3,624	3,624	3,624	3,624	14,496	Capital							-	Immediate	The sites will be required a deeper survey than presently carried to establish roof and ground space. This has been costed at £80k.	
LFC-B.5	Buildings	Remove gas dependency	Replace gas cooking equipment	Unidentified grant or debt	2024-2025	2029-2030	1,900	2,024	166	Reduction	Property	FP156B Carbon Net Zero	248	N/A	N/A	N/A	248	Capital							-	Immediate		
LFC-B.6	Buildings	Energy reduction	Environmental system re-design 149 Union Street	Unidentified grant or debt	2024-2025	2029-2030	600	2,027	40	Reduction	Property	N/A	850	N/A	N/A	N/A	850	Capital							-	Immediate		
LFC-B.7	Buildings	Salix funding match 5 buildings	Retrofit of 5 stations	Salix combined with LFC	2024-2025	2029-2030	N/A	2,025	Reduction		Property														-	Immediate		
LFC-B.8	Transport	Smart Energy Use	Telematics fitted to vehicles	Unidentified grant or debt	2022-2023	2023-2024	N/A	N/A	N/A	Smart information	LFB FLEET	Information gathering	2,000	N/A	N/A	N/A	2,000	Capital							-	Immediate		
LFC-B.9	Transport	Asset Replacement Programme	Replacement of OSUs	Unidentified grant or debt	2022-2023	2023-2024	N/A	N/A	N/A	Carbon reduction	LFB FLEET	Carbon reduction	1,320				1,320	Capital							-	Immediate	OSU project is subject to approval based on operational demand and the potential to consider alternative operators and EV solutions. The uplift was not originally included in the LFB CNZ strategy.	
LFC-B.10	Transport	EV Asset Replacement Programme	Replacement of the hybrid SOG cars	Unidentified grant or debt	2023-2024	2024-2025	70	2,024	14		LFB FLEET	Carbon reduction		50			50	Capital							-	Immediate		
LFC-B.11	Transport	EV Asset Replacement Programme	Replacement of the 6 hybrid conversion cars	Unidentified grant or debt	2024-2025	2025-2026	140	2,025	28		LFB FLEET	Carbon reduction			100		100	Capital							-	Immediate		
LFC-B.12	Transport	EV Asset Replacement Programme	Replacement of 11 vans	Unidentified grant or debt	2024-2025	2025-2026	406	2,025	225		LFB FLEET	Carbon reduction				225	225	Capital							-	Immediate		
LFC-B.13	Combined	Charging infrastructure	Install of chargers	Unidentified grant or debt	2024-2025	2025-2026	N/A	N/A	N/A	Charging	LFB FLEET	Charging				2,700	2,700	Capital							-	Immediate		
LFC-B.14	Transport	EV Asset Replacement Programme	Replacement of 20 vans	Unidentified grant or debt	2025-2026	2026-2027	1,071	2,026	133		LFB FLEET	Carbon reduction					380	Capital							-	Immediate	Lifetime TBC based on new market engagement with charge providers	
LFC-B.15	Transport	EV Asset Replacement Programme	Replacement of 5 4 House Layer Units	Unidentified grant or debt	2025-2026	2026-2027	588	2,026	49		LFB FLEET	Carbon reduction					2,200	Capital							-	Immediate		
LFC-B.16	Transport	EV Asset Replacement Programme	Replacement of 1 Cold Cut Vehicle	Unidentified grant or debt	2025-2026	2026-2027	70	2,026	10		LFB FLEET	Carbon reduction					440	Capital							-	Immediate		
LFC-B.17	Transport	EV Asset Prototypes	Purchase of 5 x ZEPA vehicles	Unidentified grant or debt	2025-2026	2026-2027	-	N/A	-	Determination of heavy vehicle and high power solutions	LFB FLEET	Carbon reduction					3,500	Capital							-	Immediate	ZEPA is an EV development project to expand EV appliances & de-risk broader rollout - it is not an existing asset replacement. After discussions it was suggested to feature as an expected uplift cost. Therefore, the uplift is £3 million, which has been removed from the original position as a designated cost.	
LFC-B.18	Transport	Charging infrastructure	Install of chargepoints	Unidentified grant or debt	2025-2026	2026-2027	N/A	N/A	N/A	Charging	LFB FLEET	Charging					2,700	Capital							-	Immediate		
LFC-B.19	Transport	Charging infrastructure	Install of chargepoints	Unidentified grant or debt	2026-2027	2027-2028	N/A	N/A	N/A	Charging	LFB FLEET	Charging					2,700	Capital							-	Immediate		
LFC-B.20	Transport	EV Asset Replacement Programme	Replacement of 18 vans	Unidentified grant or debt	2026-2027	2027-2028	628	2,027	90		LFB FLEET	Carbon reduction					148	Capital							-	Immediate		
LFC-B.21	Transport	EV Asset Prototypes	Purchase of 5 x ZEPA vehicles	Unidentified grant or debt	2026-2027	2027-2028	-	N/A	-	Determination of heavy vehicle and high power solutions	LFB FLEET	Carbon reduction					3,500	Capital							-	Immediate	ZEPA is an EV development project to expand EV appliances & de-risk broader rollout - it is not an existing asset replacement. After discussions it was suggested to feature as an expected uplift cost. Therefore, the uplift is £3 million, which has been removed from the original position as a designated cost.	
LFC-B.22	Transport	EV Asset Replacement Programme	Replacement of 50 electric pool cars	Unidentified grant or debt	2027-2028	2028-2029	-	N/A	-		LFB FLEET	Carbon reduction					572	Capital							-	Immediate		
LFC-B.23	Combined	Charging infrastructure	Install of chargepoints	Unidentified grant or debt	2027-2028	2028-2029	N/A	N/A	N/A	Charging	LFB FLEET	Charging					2,700	Capital							-	Immediate		
LFC-B.24	Transport	EV Asset Replacement Programme	Replacement of 2 driver training cars	Unidentified grant or debt	2028-2029	2029-2030	-	N/A	-		LFB FLEET	Carbon reduction					23	Capital							-	Immediate		
LFC-B.25	Transport	EV Asset Replacement Programme	Replacement of the SOG cars	Unidentified grant or debt	2028-2029	2029-2030	-	N/A	-		LFB FLEET	Carbon reduction					50	Capital							-	Immediate		
LFC-B.26	Transport	EV Asset Replacement Programme	Replacement of 51 Dual Purpose Landers (DPL) - Year 1	Unidentified grant or debt	2028-2029	2029-2030	6,386	2029	528		LFB FLEET	Carbon reduction					23,102	Capital							-	Immediate		
LFC-B.27	Transport	EV Asset Replacement Programme	Replacement of 41																									

