ID Climate Action Area	Climate Action	Description	Funding source	Year funding starts			r emissions Average a vings start CO2e sav 2030, to	ngs to	KPI 2023-2024	Traffic light progress			Exp. 24-25 Total Ex £'000 £'			ash savings Total cas 25 £'000 25-26	
GLA-A.1 Buildings	GLA: Mayor  Energy monitoring system to baseli	ne Use data to explore with Retrofit Accelerator- Workplaces	FM Budget	2023-2024	2025-2026			Enabler N/A	Contract to be in place 3 months after practical	TBC	N/A	40	N/A	N/A Mixed	N/A	N/A	N/A
_	energy consumption for GLA buildir and identify relevant projects	ng opportunities for further energy saving projects.							completion of the fit-out project.							.4/.	, and the second
GLA-A.2 Buildings	Complete LED lighting project at Cit 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	FM Budget e	2023-2024	2023-2024	76 2	023-2024	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	FM Budget	2023-2024	2023-2024	Enabler 2	023-2024	Enabler N/A	1st Draft to be ready for environment team to review by Jan 2023.	TBC	N/A	50	N/A	N/A N/A	ТВС	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	compliant with legislation but doesn't waste energy.  City Hall building has approx. 40 pumps used for various operational aspects of the building. A detailed survey will be	FM Budget	2023-2024	2023-2024	Enabler 2	023-2024	Enabler N/A	To be completed 6 months after practical completion of the fit-out prject.	TBC	N/A	30	N/A	N/A Capital	ТВС	ТВС	TBC Opex savings from less electricity demand due to running pumps more efficiently
	control at city rian	carried out to ensure the pumps are running efficently and to the manafactures recommondation following Practical Completion of the fit-out project.							or the fit out prices.								
GLA-A.5 Buildings	City Hall mechanical vents refurbishment	Achieve 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 ISO This will be done as a Capital project by the GLA FM team.		2023-2024	2024	28 2	023-2024	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  Collate Portfolio Baseline Utility Dar for Year End March 2022	ta Project commenced with Avison Young to capture exact usage data using their Alpha Energy consultant across the GLAP portfolio	Mayor / GLAP	2022-2023	N/A	TBC 2	023-2024	O 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 Avison 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 Avison 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.		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
GLAP-A.3 Buildings	Compressor House	Building has recently been returned to GLAP after being leased t a third party. Assessments are being undertaken on the building		2023-2024	2023-2024	ТВС	TBC	TBC Reduced running costs	Complete report								budget Funding for this assessment is within the GLAP Estates budget
GLAP-A.4 Infrastructure	Lighting Infrastructure - Dagenham	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
	MODAC	Dagenham area. The lighting has been identified as old and this currently being reviewed to ascertain if it can be improved at all and what the cost of replacing the lamps would be.															
MOPAC-P.1 Buildings	MOPAC Asset Replacements	The capital costs and benefits here are for our LED Lighting changes from 2012/22 to 2025-2026. Note however that the	Borrowing and receipts	2021-2022	2025-2026	7,978 2	022-2023	835	The KPI will measure performance against the year end capital spend target and flag any delay /	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 2012/22 to 2025-2026. Note however that the benefits herein are only
MOPAC-P.2 Buildings	Asset replacements, building fabric	benefits herein are only recorded for non-defined projects  Recommended Impact Assessment modelled decarbonisation ar	nd Borrowing and	2024-2025	2024-2025	4,362 2	025-2026	334	reduction in the delivery of elements contributing to decarbonisation.  The KPI will measure performance against the year		N/A		5,200	Capital		-	recorded for non-defined projects. All defined projects (such as P10, P11, and PSDS proposed projects) include their LED benefits in those specific projects.  81 Decarbonisation benefits are taken from the Impact Assessment Model, including
	and heat decarbonisation	energy efficiency measures, plus LED lighting.	receipts	2024 2023	2024 2023	1,302 2	023 2020	554	end capital spend target and flag any delay / reduction in the delivery of elements contributing to		14/1		3,200	cupitui			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 2	022-2023	327	decarbonisation.  The KPI will measure performance against the year end capital spend target and flag any delay /	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
			·						reduction in the delivery of elements contributing to decarbonisation.								benefits have been converted to kWh, to calculate the carbon emissions savings, and utility savings are recalculated using Impact Assessment utility price forecasts.
	Asset replacements, building fabric and heat decarbonisation	Recommended Impact Assessment modelled decarbonisation ar energy efficiency measures, plus LED lighting.	nd Borrowing and receipts	2025-2026	2025-2026	2,041 2	026-2027	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		N/A			4,250 Capital	-	-	<ul> <li>Decarbonisation benefits are taken from the Impact Assessment Model, including LED lighting savings.</li> <li>FBC</li> </ul>
MOPAC-P.5 Buildings	Adjusting building occupancy and vacating buildings		ТВС	N/A	N/A	68,430 2	022-2023	2,202	decarbonisation.  The KPI will indicate any delay / reduction in the delivery of elements contributing to decarbonisation (vacating buildings)		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)	Attached to a vehicle this technology will monitoring the health	Borrowing and receipts	2020/21	2025-2026	Enabler	Enabler		Project Odyn 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 A reduction in over all 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	and location of a Met vehicle using GPS technology.  Implementation programme for the installation of 600 additional vehicle electric charging points across the MPS estate. To support ULEZ fleet hybridisation.		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
LFC-A.1 Buildings	London Fire Commissioner  Building retrofit Cookers	Replace 40 gas powered cookers with Electric	Mayor	2022-2023	2023-2024	1,284 2	023-2024	107	London Fire Commissioner  Carbon reduction	TBC	LFC-0641	160	N/A	N/A Capital	N/A	N/A	N/A Carbon reduction
LFC-A.2 Buildings LFC-A.3 Buildings	Building retrofit - ASHP Building retrofit -SPV	Replace 3 gas boiler with ASHP Instal 4 Solar PV arrays	LFC0256 Mayor	2023-2024 2023-2024	2027-2028 2023-2024	360 2 132 2	024-2025	30 11	Carbon reduction Carbon reduction	TBC TBC		1,000 300	N/A N/A	N/A Capital N/A Capital	N/A N/A	N/A N/A	N/A Carbon reduction N/A Energy bill savings
LFC-A.4 Buildings LFC-A.5 Buildings	Building retrofit windows  Buildings retrofit	Window replacement Appliance bay doors	LFC0354 LFC0533Y +	2023-2024	2023-2024 2024-2025	1,500 2 22 2	023-2024	360 15	Carbon reduction Carbon reduction	TBC		4,415 1,200	N/A	Capital Capital	TBC	247 TBC	247 TBC
LFC-A.6 Buildings	Buildings retrofit	Appliance bay doors	LFC0354Y LFC 0354	2024-2025	2025-2026	46 2		18	Carbon Reduction	TBC	LFC0354Y	1,200	2,600	N/A Capital	TBC	TBC	TBC
LFC-A.8 Buildings	Building retrofit windows  Building retrofit roofing	Window replacement  Roof replacement	FWR AWP	2024-2025	2025-2026 2024-2025	325 2 1,170 2	025-2026	27 390	Carbon reduction Carbon reduction	TBC TBC	LI 5555 11	1,177 916	N/A 916	Capital N/A Capital	TBC TBC	TBC 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	2023-2024	2023-2024	1,185 2		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 2	023-2024	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 LF senior leader carbon literacy training	FB Internal staff rescouces	N/A	N/A	N/A 2	023-2024	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
TfL-A.1 Bus fleet	Zero emission vehicles	Zero emission fleet 2034	TfL	Ongoing	2033-34	3,408,169		102,929 Air quality.	TBC			6,532	18,509	27,811 Revenue	-	-	- Carbon savings from transition of diesel fleet to zero emission.
TfL-A.2 Energy purchasing TfL-A.3 Buildings	Power Purchase Agreements  Building retrofit (all modes)	Renewables purchasing  Removal of gas and energy efficiency	TfL	Ongoing 2023-2024	TBC 2030/31	330,896 254,365 2	2027-28 023-2024	6,617 Staff comfort, ambiance, air quality.	TBC			3,000	9,000	12,000	543	2,516	<ul> <li>Assumed cost neutral to existing purchasing strategy. Carbon profile aligned to TfL's energy purchasing strategy.</li> <li>4,805 Savings from reduction in energy cost.</li> </ul>
	Zero emission vehicles	Transition of support fleet	TfL	2023-24	2030-31	88,788		1,704 Air quality.	TBC			500	1,500	1,000		_,	Converts circa 1,000 cars and vans in TfL support fleet to zero emission. Does not cover circa 20 HGVs
TfL-A.5 Tube	Piccadilly line	Trains & associated line upgrades	TfL	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.
TfL-A.6 Solar	Private Wire project	3rd party delivered solar installs	TfL	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.
_	Carbon literacy training	Roll out across TfL	TfL	Ongoing	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 TfL, with priorities including senior staff, staff involved in project delivery, and commercial staff to meet the commitment in the Responsible Procurement Implementation Plan
<b>TfL-A.8</b> Non building LEDs	Bus Shelter - Courtesy Lights and Advertising panels	Complete conversion	ТВС	Ongoing	2024-2025	2,354 2	023-2024	336 Maintainable assets / material replacement availability. Potential for reduced maintenance, investment help to maintain advertising income	s			-	-	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 emmissions, maintenance and energy requirements, leading to savings for TfL. 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-A.1 Public Realm	LOW Energy Lighting	Street Lighting Replacement luminaires for replacement across the Park and roadways	GLA	2023-2024	2023-2024	270 2	023-2024	30 Energy Efficiency Annual energy savings • in MWh = 128/yr / GWh (electricity) • GJ/TJ (other energy savings)	Reduction in annual kWh (tbc) usage against basline	Green	Number of lights replcaed? 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 2	023-2024	51 Energy Efficiency Annual energy savings • in MWh = 208/ yr /GWh (electricity)	Reduction in annual kWh (tbc) usage against basline	Green		475	-	- Capital	35	77	77
LLDC-A.3 Buildings	Low Energy Lighting	Copper Box Arena – Perimiter, Gym and Circulation Corridors Lighting replacement of flouresent lighting with LED lighting. Aprox. 200.	GLA	2023-2024	2023-2024	101 2	023-2024	• GJ/TJ (other energy savings)  8 Energy Efficiency Annual energy savings • in MWh = 13/ yr /GWh (electricity)	Reduction in annual kWh (tbc) usage against basline	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 2	023-2024	<ul> <li>GJ/TJ (other energy savings)</li> <li>13 Staff/ visitors educational, green skills development opportunities         Renewable Energy         Annual renewable energy         in MWh = 114/ yr /GWh (electricity)</li> <li>GJ/TJ (other energy)</li> </ul>	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-A.1 Energy	OPDC Local Area Energy Plan	An action plan for local area energy resilience, capacity for grow and decarbonisation	th Mayor	2022-2023	2023-2024	tbc	2025	tbc Capacity for future growth, local energy resilience	Publication of Local Area Energy Plan	Green		130	-	tbc Revenue	N/A	N/A	N/A Implementation of recommendation will be subject to further decision and commitment of funding

ID Climate Action	Climate Action	Description Funding S	ource Year funding Year fund	ding Lifetime	Year emissions Average	e annual CO2e Co-benefits	Responsibility (dept)	Further information Prope	posed Eyn Proposed Eyn	Proposed Eyn Proposed Eyn	Total Proposed Capital/	Pronosed Pronosed Pron	sed Proposed Tot:	al Grant and/or Debt funding? Provide Reading	ess: Comments
Area	Climate Action	Description Funding S	starts ends	cumulative CO2e savings, tonnes or	savings start savir	egs to 2030, tonnes	responsibility (aept)		24 £'000 24-25 £'000	25-26 £'000 2026-27 to 2030- 2031 (incl.)	Expenditure Revenue/ £'000 Mixed	cash cash ca savings 23- savings 24- saving	h cash Propo s 25- savings cas	osed further details on any debt funding Immedia h 3y/3y	te/ 2-
GLA				Enabling Measure						£'000		24 £'000 25 £'000 26 £	2026-27 to saving end 2030- end 20		
GLA-B.1 Buildings	Crystal Palace Review	Decarbonisation and GHG emmission reduction feasibility review. Assessment of forthcoming Mayor wider works design and programme are initially required to then understand what	2023-2024 2023-20	24 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 finalised. Once progressed, the programme and design will be assessed with the expectation to subsequently examine appropriate
CIAD		improvements could be made to the scheme.													options. If 2023-2024 assessment is positive and budget allows, then the work will commence to implement feasibility study recommendations.
GLAP-B.1 Buildings	Optimising Energy Management	Review energy usage data quarterly and compare year end 2024 data against 21/22 annual base Mayor line figure. Subsequent applicable optimisation work will be implemented	2022-2023 2023-20	24 Unknown	Unknown	10% 1. Ability to review and report performance against baseline 2. Adjust approach if required	e GLA Estates Team	TBC	-		TBC Mixed			- N/A	
						<ul><li>3. Increased accuracy in financial budgeting</li><li>4. Remove redundant supplies</li></ul>									
GLAP-B.2 Buildings	Policy	Work with internal stakeholders and external consultants to create a Sustainability Policy for Mayor assets held in GLA Land and Property Ltd	2022-2023 2023-20	24 Unknown	Unknown	5. Rectify energy management errors and equipment faults Unknown 1. Ensure statutory compliance 2. Ensure GLAP alignment with Mayoral Policy	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
						<ol> <li>Ensure an approach to Net Zero that balances financial a policy aims</li> </ol>	nd								project
GLAP-B.3 Buildings	Policy	Replace end of life gas heating with low carbon alternatives  Mayor	2022-2023 2023-20	24 Unknown	Unknown	4. Ensure focus remains on areas of largest impact     10% (TBC) 1. Direct local reduction in GHG emissions     2. Improved local air quality	GLA Estates Team		-		TBC Mixed			- N/A	A budget would be required for staffing time and any external consultant support needed to implement this
						3. Sustains and grows London's green economy by encourage jobs and skills in clean technology	ging								project
GLAP-B.4 Buildings	Policy Changes	Work with development colleagues and solicitors to ensure all new leases include "green" Mayor clauses	2022-2023 2023-20	24 Unknown	Unknown	Unknown 1. Implement Mayoral Policy 2. Reduce GHG emissions	GLA Estates Team	https://www.betterbuildingspartnership.co.uk/sites/default/files/media/attachment/bbp-gltk-2013_0.pdf					-	-	Options for Green Lease clauses to be considered - Co-operation obligation Environmental Management Plan
						<ol> <li>Ensure buildings are operated optimally</li> <li>Improve perception of GLAP operated assets</li> <li>Attract environmentally aware tenants</li> </ol>									Data sharing and metering  Restrictions on tenant alterations. A budget would be required for staffing time and any external consultant
						<ol> <li>Enable monitoring of data to ensure progress to meeting targets</li> </ol>									support needed to implement this project
GLAP-B.5 Buildings	Riverway Cottages	If 2023-2024 assessment is positive and budget allows, then the work will commence to Mayor implement feasibility study recommendations.	2023-2024 2023-20	24 Unknown	Unknown	<ul><li>Unknown 1. Direct local reduction in GHG emissions</li><li>2. Improved local air quality</li><li>3. Sustains and grows London's green economy by encourage</li></ul>	GLA Estates Team		TBC	-	TBC Mixed		-	- N/A 1-2 years	No budget in 2023-2024 has been identified yet as this depends on the findings of teh 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.
GLAP-B.6 Buildings	Compressor House	Building has recently been returned to GLAP after being leased to a third party. Assessments are Mayor	2022-2023 2023-20	24 Unknown	Unknown	jobs and skills in clean technology  Unknown Reduced running costs	GLA Estates Team		TBC TBC	TBC TBC	TBC Mixed	твс твс	TBC -	- N/A 2-3 years	This piece of work is looking at this building holistically. The one major piece that has been identified is
		to be undertaken as per A3. 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 forsibility study resommendations.													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.
GLAP-B.7 Infrastructure	Lighting Infrastructure - Dagenham	to implement feasibility study recommendations.  GLAP are responsible for several kilometers of road in the Dagenham area. The lighting has been Mayor identified as old and this is currently being reviewed to ascertain if it can be improved at all and	2022-2023 2023-20	24 Unknown	Unknown	Unknown Reduced running costs	GLA Estates Team		TBC TBC	TBC TBC	TBC Mixed	ТВС ТВС	TBC -	- N/A 2-3 years	This piece of work is looking at this infrastucture this financial year with the works being budgeted for next financial year.
MODAS		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.													
MOPAC-M.1 Management	Programme Management of Net Zero Programme	Unidentified revenue	- 2023-2024 2030-20	31 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	e Programme prior to 2023-2024 was largely Salix LCSF grant funded, plus borrowing and receipts. Funding for for 2023-2024 and beyond is TBC.
MOPAC-C.1 Electricity	PPA zero carbon electricity implementation stage	Progression with the GLA / TfL in PPA collaborative procurement exercise to source PPA, for zero carbon electricity on up to 80% of electricity requirements, prior to 2030. revenue	- 2022-2023 2024-20	25 41,312	2027-2028	4,064	Commercial	N/A	350 350		920 Revenue	N/A N/A	N/A unknown unki	nown Unidentified - revenue - to be confirmed, 2-3y although PPA will only be progressed if	40% electricity set to zero emissions by 2027-2028 and 80% by 2029-2030. The Carbon benefit from PPA are shown as approximate, shown as the likely maximum level of carbon benefit (with all measures funded and a
														value for money is determined.	fixed EV charging % on MPS sites). The PPA benefits change if just the currently funded measures are funded, or future changes to electricity demand are made. Changes to electricity demand willlikely come from onsite / offiste EV charging requirements, and Solar PV rollout across the MPS sites.
MOPAC-P.4 Buildings	fabric and heat decarbonisation	ng Heat decarbonisation and energy efficiencies measures covered by PSDS grant funding (£325 per PSDS grant f carbon tonne)	_		2024-2025	1,490	Real Estate Development	N/A	6,000 3,000		9,000 Capital	- 606		3,163 PSDS grant funding, applied for. Immediate	e PSDS Applicatiopn made Oct 2022. Grant award notification expected Dec 2022
MOPAC-P.5 Buildings	PSDS Phase IIIc (24-25 delivery); asset replacements, buildi fabric and heat decarbonisation	ng Heat decarbonisation and energy efficiencies measures covered by PSDS grant funding (£325 per PSDS grant f carbon tonne)	unding 2024-2025 2024-20	25 32,909	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 programmed later (due to boiler age / site availability) the carbon benefits are higher for the PSDS IIIC proposal, than PSDS IIIB, as it happens heat decarbonisation saves more gas. Additionally there are more LED replacements due at PSDS IIIC sites, compared to PSPS IIIB sites. Number includes 25% OB. Projects need to
MOPAC-P.6 Buildings	Delivery of remaining identified asset replacements, building	ng This programme covers all NZC Impact Assessment heat decarbonisation requirements, such as Unidentified	- grant 2025-2026 2030-20	31 122,553	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 3y+	be completed by end of 2024-2025 FY  Number includes 40% OB split over 6 years. Note that the £168m identified for the summation of these three
	fabric and heat decarbonisation	insulltation, solar PV, and heat pumps / electrified assets, as appropriate for each site.  or debt	2022 2024 2022 20	24 Fueller	Footbar	Facility of the Control of the Contr	Mar Flank Mora	N/4	400		400 Control	N/A N/A	N/A N/A	confirmed	'Construction- Building Emissions' items is an additional funding requirement above the costs already listed as 'funded / allocated' in the table above.
MOPAC-F.4 Transport  MOPAC-F.5 Transport	Project	The second response Vehicle (IRV) BEV changing and vehicle performance, payload and the impact of police duty cycle on battery range and charging cycles.  Reduce MPS Fleet carbon emissions through the use of zero emission vehicles displacing ICE Unidentified			Enabler 2027-2028	Enabler 678 Air quality	Met Fleet MO11  Met Fleet MO11	N/A N/A	-	16,176	100 Capital	N/A N/A 		N/A Unidentified - grant or debt - to be Immediate confirmed  1,630 Unidentified - grant or debt - to be 3y+	Detailed feasibility project is underway to understand the real-world limitations of EV in MET operational environment.  projected uplift in Capital requirements if accelerated decarbonisation programme based on Accenture
	ealier adoption of Battery Electric Vehicles.	vehicles which will be delivered as part of the MPS Replacement Programme. This line includes or debt ICE, Hybrid and BEVs.								,				confirmed	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 Unidentified (funded) EV Fleet, and any unfunded acceleration to this Fleet. Noting that Salix PSDS funding or debt does not include for any vehicle charging.	- grant 2027-2028 2031-20	32 46,838	2027-2028	2,455	Real Estate Development	N/A	<del>-</del>	128,622	167,567 Capital		- 3,638	3,638 Unidentified - grant or debt - to be 3y+ confirmed	£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
		does not include for any venicle charging.													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
MODAC D.Z. Docilionas	Description of acciliant infrastructure. Float and Fataton	Linido matificad	2026 2027 2022 20	24 Fuebles	Foobles	Fachlan	Deal Estate Development	N/A		47.520	26 F70 Control	N/A N/A	N/A N/A	N/A Unidentified and adult to be 200	maintenance costs of circ. £1m p.a. by 2030-2031 on the onsite charging infrastructure (which increases from 2032-2033, as more chargers are installed).
MOPAC-P.7 Resilience  LFC	Provision of resiliant infrastructure - Fleet and Estates	Onidentified or debt	- grant 2026-2027 2033-20	34 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 3y+ confirmed	This Capital requirement contains many assumptions on risk, as the 'Resilience Strategy' is in early stages of development.
LFC-B.1 Buildings	Electrical supply upgrade	Increase electrical capacity all 102 buildings	2024-2025 2029-20		N/A	N/A Provides essential infrastructure for CNZ	Property	FP1568 carbon net Zero	11,463 11,463		45,852 Capital			- Immediat	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.3 Buildings	Removing gas dependency  Removing gas dependency	Replace Gas powered boilers at 103 fire stations Replace gas powered appliance	2024-2025 2029-20 2024-2025 2029-20		2,024	1,935 Reduction  25 Reduction	Property	FP1568 c arbon net Zero FP1568 carbon	1,010 253	11,327 11,327	39,509 Capital 1,769 Capital				
LFC-B.4 Buildings	Renewable generation	bay heaters at 102 stations Increase the solar PPV arrays	2024-2025 2029-20		2,025	1,800 Reduction	Property	net Zero  FP1568 figures need checking	3,624 3,624	3,624 3,624	14,496 Capital				The sites will require a deeper survey than presently carried to establish roof and ground space. This has
LFC-B.5 Buildings	Remove gas dependency	Replace gas cooking equipment	2024-2025 2029-20		2,024	166 Reduction	Property	FP1568 carbon Net Zero	248 N/A	N/A N/A	248 Capital		-	•	been costed at £30k
LFC-B.5 Buildings  LFC-B.6 Buildings  LFC-B.7 Buildings	Remove gas dependency Energy reduction Salix funding match 5 buildings	Environmental system re-design 169 Union Street	2024-2025 2029-20 2024-2025 2029-20 ed with 2024-2025 2029-20	30 600	2,024 2,027 2,025	166 Reduction 40 Reduction  Reduction	Property	FP1568 carbon Net Zero N/A	248 N/A 850 N/A	14/11	248 Capital 850 Capital		-	- -	been costed at £30k
LFC-B.8 Transport	Energy reduction  Salix funding match 5 buildings  Smart Energy Use	Environmental system re-design  169 Union Street  Retrofit of 5 stations  Salix combin  LFC  Telematics fitted to vehicles	2024-2025 2029-20 ed with 2024-2025 2029-20 2022-2023 2023-20	30 600 30 N/A 24 N/A	2,027	40 Reduction	Property  Property  LFB FLEET	N/A Information gathering	2,000 N/A	N/A N/A	2,000 Capital		- - -	-	
LFC-B.8 Transport LFC-B.9 Transport	Energy reduction  Salix funding match 5 buildings  Smart Energy Use Asset Replacement Programme	Environmental system re-design  169 Union Street  Retrofit of 5 stations  Salix combin  LFC  Telematics fitted to vehicles  Replacement of OSUs	2024-2025 2029-20 ed with 2024-2025 2029-20 2022-2023 2023-20 2022-2023 2023-20	30 600 30 N/A 24 N/A 24	2,027	40 Reduction  Reduction	Property  Property  LFB FLEET  LFB FLEET	N/A  Information gathering Carbon reduction	.,,	N/A N/A	2,000 Capital 1,320		-	-	OSU project is subject to approval based on operational demand and the potential to consider alternative operations and EV solutions. The uplift was not originally included in the LFB CNZ strategy.
LFC-B.8 Transport	Energy reduction  Salix funding match 5 buildings  Smart Energy Use Asset Replacement Programme  EV Asset Replacement Programme  EV Asset Replacement Programme  EV Asset Replacement Programme  EV Asset Replacement Programme	Environmental system re-design  169 Union Street  Retrofit of 5 stations  Salix combin LFC  Telematics fitted to vehicles  Replacement of OSUs  Replacement of the hybrid SOG cars  Replacement of the 6 hybrid commissioner cars  Replacement of 11 vans	2024-2025 2029-20 ed with 2024-2025 2029-20 2022-2023 2023-20 2023-2024 2024-20 2024-2025 2025-20 2024-2025 2025-20	30 600 30 N/A 24 N/A 224 225 70 226 140 226 406	2,027	40 Reduction  Reduction  N/A Smart information  14 28 58	Property  Property  LFB FLEET  LFB FLEET  LFB FLEET  LFB FLEET  LFB FLEET	Information gathering Carbon reduction Carbon reduction Carbon reduction Carbon reduction Carbon reduction	2,000 N/A	N/A N/A	2,000 Capital		-	-	OSU project is subject to approval based on operational demand and the potential to consider alternative operations and EV solutions. The uplift was not originally included in the LFB CNZ strategy.
LFC-B.9 Transport  LFC-B.10 Transport  LFC-B.11 Transport	Energy reduction  Salix funding match 5 buildings  Smart Energy Use Asset Replacement Programme  EV Asset Replacement Programme  EV Asset Replacement Programme  EV Asset Replacement Programme  Charging Infrastructure  EV Asset Replacement Programme	Environmental system re-design 169 Union Street  Retrofit of 5 stations  Salix combin LFC  Telematics fitted to vehicles  Replacement of OSUs  Replacement of the hybrid SOG cars  Replacement of the 6 hybrid commissioner cars  Replacement of 11 vans Install of chargepoints  Replacement of 29 vans	2024-2025 2029-20 ed with 2024-2025 2029-20 2022-2023 2023-20 2022-2023 2023-20 2023-2024 2024-20 2024-2025 2025-20 2024-2025 2025-20 2025-206 2026-20	30 600 30 N/A 24 N/A 224 25 70 26 140 26 406 26 N/A 27 1,071	2,027	40 Reduction  Reduction	Property  Property  LFB FLEET	Information gathering Carbon reduction  Carbon reduction  Carbon reduction  Carbon reduction  Carbon reduction  Charging  Carbon reduction	2,000 N/A	N/A N/A	2,000 Capital 1,320  50 Capital 100 Capital 225 Capital 2,700 380 Capital		-	- - - -	OSU project is subject to approval based on operational demand and the potential to consider alternative
LFC-B.8 Transport LFC-B.9 Transport LFC-B.10 Transport LFC-B.11 Transport LFC-B.12 Transport LFC-B.13 Combined	Energy reduction  Salix funding match 5 buildings  Smart Energy Use Asset Replacement Programme  EV Asset Replacement Programme  EV Asset Replacement Programme  EV Asset Replacement Programme  Charging Infrastructure	Environmental system re-design  169 Union Street  Retrofit of 5 stations  Salix combin LFC  Telematics fitted to vehicles  Replacement of OSUs  Replacement of the hybrid SOG cars  Replacement of the 6 hybrid commissioner cars  Replacement of 11 vans  Install of chargepoints	2024-2025 2029-20 ed with 2024-2025 2029-20 2022-2023 2023-20 2022-2023 2023-20 2023-2024 2024-20 2024-2025 2025-20 2024-2025 2025-20 2024-2025 2025-20	30 600  30 N/A  24 N/A  24 N/A  25 70  26 140  26 406  26 N/A  27 1,071  27 588  27 70	2,025 N/A 2,025 2,024 2,025 2,025	40 Reduction  Reduction  N/A Smart information  14 28 58	Property  Property  LFB FLEET  LFB FLEET  LFB FLEET  LFB FLEET  LFB FLEET  LFB FLEET	Information gathering Carbon reduction  Carbon reduction  Carbon reduction  Carbon reduction  Carbon reduction  Charging	2,000 N/A	N/A N/A	2,000 Capital 1,320  50 Capital 100 Capital 225 Capital 2,700		-		OSU project is subject to approval based on operational demand and the potential to consider alternative operations and EV solutions. The uplift was not originally included in the LFB CNZ strategy.
LFC-B.8 Transport  LFC-B.9 Transport  LFC-B.10 Transport  LFC-B.11 Transport  LFC-B.12 Transport  LFC-B.13 Combined  LFC-B.14 Transport  LFC-B.15 Transport  LFC-B.16 Transport  LFC-B.17 Transport	Energy reduction  Salix funding match 5 buildings  Smart Energy Use  Asset Replacement Programme  EV Asset Replacement Programme  EV Asset Replacement Programme  EV Asset Replacement Programme  Charging Infrastructure  EV Asset Replacement Programme  EV Asset Prototypes	Environmental system re-design 169 Union Street  Retrofit of 5 stations  Salix combin LFC  Telematics fitted to vehicles  Replacement of OSUs  Replacement of the hybrid SOG cars  Replacement of the 6 hybrid commissioner cars  Replacement of 11 vans Install of chargepoints  Replacement of 29 vans  Replacement of 5 x Hose Layer Units  Replacement of 1 Cold Cut Vehicle  Purchase of 5 x ZEPA2 vehicles	2024-2025 2029-20 ed with 2024-2025 2029-20 2022-2023 2023-20 2022-2023 2023-20 2023-2024 2024-20 2024-2025 2025-20 2024-2025 2025-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20	30 600 30 N/A 24 N/A 24 N/A 224 25 70 26 140 26 406 27 1,071 27 588 27 70 27 -	2,024 2,025 N/A 2,024 2,025 2,025 N/A 2,026 2,026 2,026 2,026 N/A	A0 Reduction  Reduction  N/A Smart information  14 28 58 N/A Charging 153 49 10 - Determination of heavy vehicle and high power solutions	Property  Property  LFB FLEET	Information gathering Carbon reduction  Carbon reduction Carbon reduction Carbon reduction Charging Carbon reduction	2,000 N/A	100 225 2,700 380 2,200 440 3,500	2,000 Capital 1,320  50 Capital 100 Capital 225 Capital 2,700 380 Capital 2,200 Capital 440 Capital 3,500 Capital		- - - -		OSU project is subject to approval based on operational demand and the potential to consider alternative operations and EV solutions. The uplift was not originally included in the LFB CNZ strategy.  Lifetime TBC based on new market engagement with charge providers
LFC-B.8 Transport  LFC-B.9 Transport  LFC-B.10 Transport  LFC-B.11 Transport  LFC-B.12 Transport  LFC-B.13 Combined  LFC-B.14 Transport  LFC-B.15 Transport  LFC-B.16 Transport  LFC-B.17 Transport  LFC-B.17 Transport  LFC-B.18 Transport  LFC-B.19 Transport	Energy reduction  Salix funding match 5 buildings  Smart Energy Use Asset Replacement Programme  EV Asset Replacement Programme  EV Asset Replacement Programme  EV Asset Replacement Programme  Charging Infrastructure  EV Asset Replacement Programme  EV Asset Prototypes  Charging Infrastructure  Charging Infrastructure	Environmental system re-design 169 Union Street  Retrofit of 5 stations  Salix combin LFC  Telematics fitted to vehicles  Replacement of OSUs  Replacement of the hybrid SOG cars  Replacement of the 6 hybrid commissioner cars  Replacement of 11 vans Install of chargepoints  Replacement of 29 vans  Replacement of 5 x Hose Layer Units  Replacement of 1 Cold Cut Vehicle  Purchase of 5 x ZEPA2 vehicles  Install of chargepoints  Install of chargepoints  Install of chargepoints	2024-2025 2029-20 ed with 2024-2025 2029-20 2022-2023 2023-20 2022-2023 2023-20 2023-2024 2024-20 2024-2025 2025-20 2024-2025 2025-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20	30 600 30 N/A 24 N/A 24 N/A 225 70 26 140 26 406 27 1,071 27 588 27 70 27 - 27 N/A 28 N/A	2,027  2,025  N/A  2,024  2,025  2,025  N/A  2,026  2,026  2026	A0 Reduction  Reduction  N/A Smart information  14 28 58 N/A Charging 153 49 10	Property  Property  LFB FLEET	Information gathering Carbon reduction  Carbon reduction  Carbon reduction  Carbon reduction  Charging  Carbon reduction  Charging  Charging  Charging	2,000 N/A	N/A	2,000 Capital 1,320  50 Capital 100 Capital 225 Capital 2,700 380 Capital 2,200 Capital 440 Capital 3,500 Capital 2,700 2,700 2,700		-		OSU project is subject to approval based on operational demand and the potential to consider alternative operations and EV solutions. The uplift was not originally included in the LFB CNZ strategy.  Lifetime TBC based on new market engagement with charge providers  ZEPA 2 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
LFC-B.8 Transport  LFC-B.9 Transport  LFC-B.10 Transport  LFC-B.11 Transport  LFC-B.12 Transport  LFC-B.13 Combined  LFC-B.14 Transport  LFC-B.15 Transport  LFC-B.16 Transport  LFC-B.17 Transport  LFC-B.17 Transport	Energy reduction  Salix funding match 5 buildings  Smart Energy Use Asset Replacement Programme  EV Asset Replacement Programme  EV Asset Replacement Programme  EV Asset Replacement Programme  Charging Infrastructure  EV Asset Replacement Programme  EV Asset Prototypes  Charging Infrastructure  Charging Infrastructure  EV Asset Replacement Programme	Environmental system re-design 169 Union Street  Retrofit of 5 stations  Salix combin LFC  Telematics fitted to vehicles  Replacement of OSUs  Replacement of the hybrid SOG cars  Replacement of the 6 hybrid commissioner cars  Replacement of 11 vans  Install of chargepoints  Replacement of 29 vans  Replacement of 5 x Hose Layer Units  Replacement of 1 Cold Cut Vehicle  Purchase of 5 x ZEPA2 vehicles  Install of chargepoints	2024-2025 2029-20 ed with 2024-2025 2029-20 2022-2023 2023-20 2022-2023 2023-20 2023-2024 2024-20 2024-2025 2025-20 2024-2025 2025-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20	30 600  30 N/A  24 N/A  224  225 70  226 140  226 406  227 1,071  227 588  227 70  227 -  227 N/A  228 N/A  228 658	2,025  N/A  2,024 2,025 2,025 2,025 N/A 2,026 2,026 2,026 N/A  N/A	A0 Reduction  Reduction  N/A Smart information  14 28 58 N/A Charging 153 49 10 - Determination of heavy vehicle and high power solutions  N/A Charging	Property  Property  LFB FLEET	Information gathering Carbon reduction  Carbon reduction Carbon reduction Carbon reduction Charging Carbon reduction Charging	2,000 N/A	N/A	2,000 Capital 1,320  50 Capital 100 Capital 225 Capital 2,700 380 Capital 2,200 Capital 440 Capital 3,500 Capital		- - - -		OSU project is subject to approval based on operational demand and the potential to consider alternative operations and EV solutions. The uplift was not originally included in the LFB CNZ strategy.  Lifetime TBC based on new market engagement with charge providers  ZEPA 2 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 £3.5million, which has been removed from the original position as a designated cost.  ZEPA 2 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
LFC-B.8 Transport  LFC-B.9 Transport  LFC-B.10 Transport  LFC-B.11 Transport  LFC-B.12 Transport  LFC-B.13 Combined  LFC-B.14 Transport  LFC-B.15 Transport  LFC-B.16 Transport  LFC-B.17 Transport  LFC-B.19 Transport  LFC-B.20 Transport  LFC-B.21 Transport  LFC-B.21 Transport  LFC-B.22 Transport	Energy reduction  Salix funding match 5 buildings  Smart Energy Use Asset Replacement Programme  EV Asset Replacement Programme  EV Asset Replacement Programme  EV Asset Replacement Programme  Charging Infrastructure  EV Asset Replacement Programme  EV Asset Replacement Programme  EV Asset Replacement Programme  EV Asset Replacement Programme  EV Asset Prototypes  Charging Infrastructure  Charging Infrastructure  EV Asset Replacement Programme  EV Asset Replacement Programme  EV Asset Replacement Programme  EV Asset Replacement Programme	Environmental system re-design  169 Union Street  Retrofit of 5 stations  Salix combin LFC  Telematics fitted to vehicles  Replacement of OSUs  Replacement of the hybrid SOG cars  Replacement of the 6 hybrid commissioner cars  Replacement of 11 vans Install of chargepoints  Replacement of 29 vans  Replacement of 5 x Hose Layer Units  Replacement of 1 Cold Cut Vehicle  Purchase of 5 x ZEPA2 vehicles  Install of chargepoints  Replacement of 18 vans  Purchase of 5 x ZEPA2 vehicles  Replacement of 18 vans  Purchase of 5 x ZEPA2 vehicles	2024-2025 2029-20 ed with 2024-2025 2029-20 2022-2023 2023-20 2022-2023 2023-20 2022-2023 2023-20 2024-2025 2025-20 2024-2025 2025-20 2024-2025 2026-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20 2026-2027 2027-20 2026-2027 2027-20 2026-2027 2027-20	30 600 30 N/A 24 N/A 24 N/A 224 225 70 226 140 226 406 226 N/A 227 1,071 227 588 227 70 227 - 227 N/A 28 N/A 28 658 28 -	2,024 2,025  N/A  2,024 2,025 2,025  N/A 2,026 2,026 2,026 N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A	A0 Reduction  Reduction  N/A Smart information  14 28 58 N/A Charging 153 49 10 - Determination of heavy vehicle and high power solutions  N/A Charging N/A Charging 94 - Determination of heavy vehicle and high power solutions	Property  Property  LFB FLEET	Information gathering Carbon reduction  Carbon reduction Carbon reduction Carbon reduction Charging Carbon reduction Charging Charging Carbon reduction Carbon reduction Carbon reduction	2,000 N/A	N/A	2,000 Capital 1,320  50 Capital 100 Capital 225 Capital 2,700 380 Capital 2,200 Capital 440 Capital 3,500 Capital 3,500 Capital 440 Capital 2,700 2,700 2,700 149 Capital		- - - -		OSU project is subject to approval based on operational demand and the potential to consider alternative operations and EV solutions. The uplift was not originally included in the LFB CNZ strategy.  Lifetime TBC based on new market engagement with charge providers  ZEPA 2 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 £3.5million, which has been removed from the original position as a designated cost.  ZEPA 2 is an EV development project to expand EV appliances & de-risk broader rollout - it is not an existing
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LFC-B.8 Transport  LFC-B.9 Transport  LFC-B.10 Transport  LFC-B.11 Transport  LFC-B.12 Transport  LFC-B.13 Combined  LFC-B.14 Transport  LFC-B.15 Transport  LFC-B.16 Transport  LFC-B.17 Transport  LFC-B.19 Transport  LFC-B.20 Transport  LFC-B.21 Transport  LFC-B.22 Transport  LFC-B.23 Combined  LFC-B.24 Transport  LFC-B.25 Transport  LFC-B.26 Transport  LFC-B.27 Transport  LFC-B.28 Transport  LFC-B.29 Transport  LFC-B.29 Transport  LFC-B.30 Transport  LFC-B.31 Transport  LFC-B.31 Transport  LFC-B.32 Transport  LFC-B.33 Transport  LFC-B.34 Transport  LFC-B.35 Transport  LFC-B.36 Transport  LFC-B.37 Transport  LFC-B.38 Transport  LFC-B.39 Transport  LFC-B.39 Transport  LFC-B.40 Transport  LFC-B.41 Transport  LFC-B.42 Transport  LFC-B.43 Transport  LFC-B.44 Transport  LFC-B.45 Transport  LFC-B.46 Transport  LFC-B.47 Transport  LFC-B.48 Transport  LFC-B.48 Transport  LFC-B.48 Transport  LFC-B.49 Transport  LFC-B.40 Transport  LFC-B.41 Transport  LFC-B.43 Transport  LFC-B.44 Transport  LFC-B.45 Transport  LFC-B.46 Transport  LFC-B.47 Transport  LFC-B.48 Transport  LLDC  LLDC-B.1 Buildings	Energy reduction  Salix funding match 5 buildings  Smart Energy Use Asset Replacement Programme  EV Asset Replacement Programme	Environmental system re-design 169 Union Street  Retrofit of 5 stations  Retrofit of 5 stations  Replacement of SUS  Replacement of the hybrid SOG cars  Replacement of the hybrid commissioner cars  Replacement of 11 vans  Install of chargepoints  Replacement of 12 vans  Replacement of 5 to Hose Layer Units  Replacement of 1 Cold Cut Vehicle  Purchase of 5 x ZEPA2 vehicles  Install of chargepoints  Replacement of 18 vans  Purchase of 5 x ZEPA2 vehicles  Replacement of 50 electric pool cars  Install of chargepoints  Replacement of 50 electric pool cars  Install of chargepoints  Replacement of 10 EV SUB	2024-2025 2029-20 ed with 2024-2025 2029-20 2022-2023 2023-20 2022-2023 2023-20 2024-2025 2025-20 2024-2025 2025-20 2024-2025 2025-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20 2026-2027 2027-20 2026-2027 2027-20 2026-2027 2027-20 2026-2027 2027-20 2028-2029 2029-20 2028-2029 2029-20 2028-2029 2029-20 2028-2029 2029-20 2029-2030 2030-20 2030-2031 2031-20 2031-2032 2032-20 2031-2033 2033-20 2032-2033 2033-20 2032-2033 2033-20 2033-2034 2034-20 2033-2038 2038-20 2037-2038 2038-20	30 600 30 N/A 24 N/A 24 N/A 25 70 26 140 26 406 26 N/A 27 1,071 27 588 27 70 27 -  27 N/A 28 N/A 28 658 28 -  29 - 29 N/A 30 - 30 6,336 31 4,896 31 - 32 6,216 33 5,016 33 70 34 2,148 34 - 35 - 36 1,785 36 450 37 785 38 79 - 39 79 78	2,027 2,025 N/A 2,024 2,025 2,025 2,025 N/A 2,026 2,026 2,026 2026 N/A  N/A N/A N/A 2027 N/A  N/A N/A N/A 2029 2030 N/A 2031 2032 2032 2032 2032 2032 N/A 2034 2034 2034 2034 2034 2034 2034 2034	A0 Reduction  Reduction  N/A Smart information  14 28 58 N/A Charging 153 49 10 - Determination of heavy vehicle and high power solutions  N/A Charging N/A Charging 94 - Determination of heavy vehicle and high power solutions  - N/A Charging 94 - Determination of heavy vehicle and high power solutions  - N/A Charging	Property  LFB FLEET  L	Information gathering Carbon reduction	2,000 N/A 1,320  50  TBC TBC	100 225 2,700 380 2,200 440 3,500 2,700 2,	2,000 Capital 1,320  50 Capital 100 Capital 225 Capital 2,700 380 Capital 2,200 Capital 440 Capital 3,500 Capital 3,500 Capital 3,500 Capital  2,700 2,700 149 Capital 2,700 23 Capital 50 Capital 23,320 Capital 18,040 Capital 18,040 Capital 22,880 Capital 18,480 Capital 440 Capital 440 Capital 440 Capital 440 Capital 572 Capital 7,920 Capital 440 Capital 440 Capital 380 3,960 1,320 2,200 50 149 5,280 1,320 2,200 Capital 595		79 393		OSU project is subject to approval based on operational demand and the potential to consider alternative operations and EV solutions. The uplift was not originally included in the LFB CNZ strategy.  Lifetime TBC based on new market engagement with charge providers  ZEPA 2 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 £3.5million, which has been removed from the original position as a designated cost.  ZEPA 2 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 £3.5million, which has been removed from the original position as a designated cost.
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LFC-B.8 Transport  LFC-B.10 Transport  LFC-B.11 Transport  LFC-B.12 Transport  LFC-B.13 Combined  LFC-B.14 Transport  LFC-B.15 Transport  LFC-B.16 Transport  LFC-B.17 Transport  LFC-B.18 Transport  LFC-B.19 Transport  LFC-B.20 Transport  LFC-B.21 Transport  LFC-B.21 Transport  LFC-B.22 Transport  LFC-B.23 Combined  LFC-B.24 Transport  LFC-B.25 Transport  LFC-B.26 Transport  LFC-B.27 Transport  LFC-B.28 Transport  LFC-B.29 Transport  LFC-B.30 Transport  LFC-B.30 Transport  LFC-B.31 Transport  LFC-B.32 Transport  LFC-B.33 Transport  LFC-B.34 Transport  LFC-B.35 Transport  LFC-B.36 Transport  LFC-B.37 Transport  LFC-B.38 Transport  LFC-B.39 Transport  LFC-B.39 Transport  LFC-B.40 Transport  LFC-B.41 Transport  LFC-B.42 Transport  LFC-B.43 Transport  LFC-B.44 Transport  LFC-B.45 Transport  LFC-B.46 Transport  LFC-B.47 Transport  LFC-B.48 Transport  LFC-B.48 Transport  LFC-B.49 Transport  LFC-B.49 Transport  LFC-B.49 Transport  LFC-B.40 Transport  LFC-B.41 Transport  LFC-B.43 Transport  LFC-B.44 Transport  LFC-B.45 Transport  LFC-B.46 Transport  LFC-B.47 Transport  LFC-B.48 Transport  LFC-B.48 Transport  LFC-B.49 Transport  LFC-B.49 Transport  LFC-B.40 Transport  LFC-B.41 Transport  LFC-B.43 Transport  LFC-B.44 Transport  LFC-B.45 Transport  LFC-B.46 Transport  LFC-B.47 Transport  LFC-B.48 Transport  LFC-B.49 Transport  LFC-B.49 Transport  LFC-B.40 Transport  LFC-B.41 Transport  LFC-B.43 Transport  LFC-B.44 Transport  LFC-B.45 Transport  LFC-B.46 Transport  LFC-B.47 Transport  LFC-B.48 Transport  LFC-B.49 Transport  LFC-B.49 Transport  LFC-B.40 Transport  LFC-B.41 Transport  LFC-B.42 Transport  LFC-B.43 Transport  LFC-B.44 Transport  LFC-B.45 Transport  LFC-B.46 Transport  LFC-B.47 Transport  LFC-B.48 Transport  LFC-B.49 Transport  LFC-B.40 Transport  LFC-B.41 Transport  LFC-B.42 Transport  LFC-B.43 Transport  LFC-B.44 Transport  LFC-B.45 Transport  LFC-B.46 Transport  LFC-B.47 Transport  LFC-B.48 Transport  LFC-B.49 Transport  LFC-B.40 Transport  LFC-B.41 Transport  LFC-B.41 Transport  LFC-B.42 Transport  LFC-B.43	Energy reduction  Salix funding match 5 buildings  Smart Energy Use  Asset Replacement Programme  EV Asset Replacement Program	Environmental system re-design 169 Union Street Retrofit of 5 stations Salix combination of OSUs Replacement of OSUs Replacement of the hybrid SOG cars Replacement of the hybrid commissioner cars Replacement of 11 vans Install of chargepoints Replacement of 5 x Nose Layer Units Replacement of 5 x Nose Layer Units Replacement of 1 x Hose Layer Lay	2024-2025 2029-20 ed with 2024-2025 2029-20 2022-2023 2023-20 2022-2023 2023-20 2024-2025 2025-20 2024-2025 2025-20 2024-2025 2025-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20 2026-207 2027-20 2026-207 2027-20 2026-207 2027-20 2026-207 2027-20 2026-2027 2027-20 2026-2027 2027-20 2028-2029 2029-20 2028-2029 2029-20 2028-2029 2029-20 2028-2029 2029-20 2028-2029 2029-20 2029-2030 2030-20 2030-2031 2031-20 2031-2032 2032-20 2031-2032 2032-20 2031-2032 2032-20 2031-2032 2032-20 2031-2032 2032-20 2031-2032 2032-20 2031-2032 2032-20 2031-2032 2033-20 2031-2032 2033-20 2031-2032 2033-20 2031-2032 2033-20 2031-2032 2033-20 2031-2032 2033-20 2031-2032 2033-20 2031-2032 2033-20 2031-2032 2033-20 2031-2032 2033-20 2031-2032 2033-20 2031-2032 2033-20 2031-2032 2033-20 2031-2032 2033-20 2031-2032 2033-20 2031-2033 2034-20 2033-2034 2034-20	30	2,027  2,025  N/A  2,024  2,025  2,025  N/A  2,026  2,026  2,026  2026  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	40 Reduction  Reduction  N/A Smart information  14 28 58 N/A Charging 153 49 10 - Determination of heavy vehicle and high power solutions  N/A Charging N/A Charging 94 - Determination of heavy vehicle and high power solutions	Property  Property  LFB FLEET  LF	Information gathering Carbon reduction	2,000 N/A 1,320  50  TBC TBC  - 510  - 50,000	100 225 2,700 380 2,200 440 3,500 2,700 2,	2,000 Capital 1,320  50 Capital 100 Capital 225 Capital 2,700 380 Capital 2,200 Capital 440 Capital 3,500 Capital 3,500 Capital 3,500 Capital  2,700 2,700 149 Capital 3,500 Capital  572 Capital 2,700 23 Capital 20,700 23 Capital 21,804 Capital 100 Capital 22,880 Capital 140 Capital 22,880 Capital 440 Capital 440 Capital 440 Capital 440 Capital 572 Capital 7,920 Capital 440 Capital 572 Capital 7,920 Capital 440 Capital 572 23 Capital 380 3,960 1,320 2,200 50 149 5,280 1,320 1,320 2,200 50 149 5,280 1,320 2,200 Capital 595	300 1,000	79 393		OSU project is subject to approval based on operational demand and the potential to consider alternative operations and EV solutions. 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LFC-B.8 Transport  LFC-B.9 Transport  LFC-B.10 Transport  LFC-B.11 Transport  LFC-B.12 Transport  LFC-B.13 Combined  LFC-B.14 Transport  LFC-B.15 Transport  LFC-B.16 Transport  LFC-B.17 Transport  LFC-B.19 Transport  LFC-B.20 Transport  LFC-B.21 Transport  LFC-B.22 Transport  LFC-B.23 Combined  LFC-B.24 Transport  LFC-B.25 Transport  LFC-B.26 Transport  LFC-B.27 Transport  LFC-B.28 Transport  LFC-B.29 Transport  LFC-B.29 Transport  LFC-B.30 Transport  LFC-B.31 Transport  LFC-B.31 Transport  LFC-B.32 Transport  LFC-B.33 Transport  LFC-B.34 Transport  LFC-B.35 Transport  LFC-B.36 Transport  LFC-B.37 Transport  LFC-B.38 Transport  LFC-B.39 Transport  LFC-B.39 Transport  LFC-B.39 Transport  LFC-B.40 Transport  LFC-B.41 Transport  LFC-B.42 Transport  LFC-B.43 Transport  LFC-B.44 Transport  LFC-B.45 Transport  LFC-B.46 Transport  LFC-B.47 Transport  LFC-B.48 Transport  LFC-B.49 Transport  LFC-B.49 Transport  LFC-B.49 Transport  LFC-B.40 Transport  LFC-B.41 Transport  LFC-B.43 Transport  LFC-B.44 Transport  LFC-B.45 Transport  LFC-B.46 Transport  LFC-B.47 Transport  LFC-B.48 Transport  LFC-B.49 Transport  LFC-B.49 Transport  LFC-B.49 Transport  LFC-B.49 Transport  LFC-B.40 Transport  LFC-B.41 Transport  LFC-B.43 Transport  LFC-B.44 Transport  LFC-B.45 Transport  LFC-B.46 Transport  LFC-B.47 Transport  LFC-B.48 Transport  LFC-B.49 Transport  LFC-B.49 Transport  LFC-B.49 Transport  LFC-B.40 Transport  LFC-B.41 Transport  LFC-B.43 Transport  LFC-B.44 Transport  LFC-B.45 Transport  LFC-B.46 Transport  LFC-B.47 Transport  LFC-B.48 Transport  LFC-B.49 Transport  LFC-B.49 Transport  LFC-B.40 Transport  LFC-B.41 Transport  LFC-B.42 Transport  LFC-B.43 Transport  LFC-B.44 Transport  LFC-B.45 Transport  LFC-B.46 Transport  LFC-B.47 Transport  LFC-B.48 Transport  LFC-B.49 Transport  LFC-B.49 Transport  LFC-B.40 Transport  LFC-B.41 Transport  LFC-B.42 Transport  LFC-B.43 Transport  LFC-B.44 Transport  LFC-B.44 Transport  LFC-B.45 Transport  LFC-B.46 Transport  LFC-B.47 Transport  LFC-B.49 Transport  LFC-B.40 Transport  LFC-B.40 T	Energy reduction  Salix funding match 5 buildings  Smart Energy Use Asset Replacement Programme  EV Asset Replacement Programm	Environmental system re-design 169 Union Street  Retrofit of 5 stations  Replacement of CSUs  Replacement of the hybrid SOG cars Replacement of the hybrid SOG cars Replacement of the 6 hybrid commissioner cars Replacement of 17 avas Install of chargepoints Replacement of 5 x Hose Layer Units Replacement of 1 Cold Cut Vehicle Purchase of 5 x ZEPA2 vehicles  Install of chargepoints Install of chargepoints Replacement of 18 vans Purchase of 5 x ZEPA2 vehicles  Replacement of 10 So electric pool cars Install of chargepoints Replacement of 50 electric pool cars Install of chargepoints Replacement of 50 cars Replacement of 50 Layer Vehicles  Replacement of 50 Layer Vehicle  Replacement of 50 Layer Vehicles  Replacement of 50 Layer	2024-2025 2029-20 ed with 2024-2025 2029-20 2022-2023 2023-20 2022-2023 2023-20 2024-2025 2025-20 2024-2025 2025-20 2024-2025 2025-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20 2025-2026 2026-20 2026-207 2027-20 2026-207 2027-20 2026-207 2027-20 2026-207 2027-20 2026-2027 2027-20 2026-2027 2027-20 2028-2029 2029-20 2028-2029 2029-20 2028-2029 2029-20 2028-2029 2029-20 2028-2029 2029-20 2029-2030 2030-20 2030-2031 2031-20 2031-2032 2032-20 2031-2032 2032-20 2031-2032 2032-20 2031-2032 2032-20 2031-2032 2032-20 2031-2032 2032-20 2031-2032 2032-20 2031-2032 2033-20 2031-2032 2033-20 2031-2032 2033-20 2031-2032 2033-20 2031-2032 2033-20 2031-2032 2033-20 2031-2032 2033-20 2031-2032 2033-20 2031-2032 2033-20 2031-2032 2033-20 2031-2032 2033-20 2031-2032 2033-20 2031-2032 2033-20 2031-2032 2033-20 2031-2032 2033-20 2031-2033 2034-20 2033-2034 2034-20	30	2,027  2,025  N/A  2,024  2,025  2,025  N/A  2,026  2,026  2,026  2026  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	40 Reduction  Reduction  N/A Smart information  14 28 58 N/A Charging 153 49 10 - Determination of heavy vehicle and high power solutions  N/A Charging N/A Charging 94 - Determination of heavy vehicle and high power solutions	Property  Property  LFB FLEET  LF	Information gathering Carbon reduction	2,000 N/A 1,320  TBC TBC  - 510	100 225 2,700 380 2,200 440 3,500 2,700 2,	2,000 Capital 1,320  50 Capital 100 Capital 225 Capital 2,700 380 Capital 2,200 Capital 440 Capital 3,500 Capital 3,500 Capital 3,500 Capital  2,700 2,700 149 Capital 2,700 23 Capital 2,700 23 Capital 23,320 Capital 18,040 Capital 100 Capital 22,880 Capital 18,480 Capital 100 Capital 22,880 Capital 18,480 Capital 440 Capital 440 Capital 225 Capital 7,920 Capital 440 Capital 572 23 Capital 572 23 Capital 7,920 Capital 440 Capital 572 23 Capital		79 393		OSU project is subject to approval based on operational demand and the potential to consider alternative operations and EV solutions. 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Determination of heavy vehicle and high power solutions  N/A Charging N/A Charging 94 - Determination of heavy vehicle and high power solutions  - N/A Charging 94 - Determination of heavy vehicle and high power solutions  - N/A Charging	Property  LFB FLEET  L	Information gathering Carbon reduction C	2,000 N/A 1,320  50  50  TBC  TBC  TBC  TBC  12  19	N/A	2,000 Capital 1,320  50 Capital 100 Capital 225 Capital 2,700 380 Capital 2,200 Capital 440 Capital 3,500 Capital 3,500 Capital 3,500 Capital  572 Capital 2,700 23 Capital 50 Capital 2,700 23 Capital 18,040 Capital 100 Capital 22,880 Capital 18,040 Capital 100 Capital 22,880 Capital 18,480 Capital 440 Capital 440 Capital 440 Capital 440 Capital 572 Capital 7,920 Capital 440 Capital 440 Capital 572 23 Capital 380 3,960 1,320 2,200 50 149 5,280 1,320 1,320 100 2,200 Capital 595  510 Capital	- 105 - 6 5 5	1,000 5,000 12 60		OSU project is subject to approval based on operational demand and the potential to consider alternative operations and EV solutions. 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Appendix J
Climate Budget Measures (Unfunded and Uncommitted)

<b>LLDC-B.10</b> Transport London Stadium vehicle emission reduction	London Stadium replacement of diesel/petrol vehicles with electric vehicles.	TBC	TBC TBC	ТВС	TBC	TBC Clean Transportation Final and/or Primary Energy Use • kWh/m² of GBA p.a.; • % of energy use reduced/avoided vs local baseline/building code; • % of renewable energy (RE) generated on site - awaiting further details	London Stadium	Number of vehicles considered? TBC Further details required regarding availability of electric vehicles considering a potential 18-month lead time fr new electric vehicles	-	100	-	-	100 Capital	-	15	15 75	105		
LLDC-B.11 Buildings, Public Rea Climate Action	Climate Emergency Response Officer.  The officer will support development and delivery of identified zero carbon projects through data management, reporting, liaise with stakeholders, and support the carbon monitoring and analysis of proposed and implemented projects.		2023-2024 2030-2031	ТВС	2023-2024	TBC TBC	TBC		50	50	50	250	400 Revenue	TBC	TBC	TBC TBC	TBC		
LLDC-B.12 Infrastructure Renewable Energy	Purcase of renewable energy through a power purchase agremment.	TBC	TBC TBC	69,150 TBC	TBC	2,766	Park Operations & Venues and Development	Process of aggreeing PPA in collaboration with GLA FB's under way.  Awaiting further information and next steps.	ТВС	ТВС	ТВС	ТВС	ТВС ТВС	ТВС	ТВС	TBC TBC	TBC	ТВС	
OPDC OPDC-B.1 Energy Net Zero energy production	The project objective is to recycle waste heat from data centres to provide zero carbon, affordable and resilient heating, hot water and cooling to residents (up to 12,00 homes) and businesses in a cost-effective way following approval of a Strategic Outline Case which tested the cost and benefit of a heat network vs BAU (ie leaving developers to deliver zero carbon)	d	2023-2024	150,000	2025	3,750 Reduced local heating, increased resilience, affordability for households	Development		2	60	60	60	182 Capital	N/A	N/A	N/A N/A	N/A		nd .
OPDC-B.2 Transport Old Oak West Access and Active Travel Strategy	The design and implementation of new local infrastructure and public realm to support access walking and cycling.	rs, TBC: Old Oak West funding and delivery	TBC TBC	ТВС	TBC	TBC Improved health and wellbeing Supports housing delivery and employment investment	OPDC Development		ТВС	TBC	TBC	95	95 Capital	N/A	N/A	N/A N/A	N/A	2-3y	OBC in production for anticipated government decision in Summer 2023
OPDC-B.3 Transport Willesden Junction Station Improvements	Improvements to capacity, access and integration with development at Old Oak	TBC: Old Oak West funding and delivery	TBC TBC	ТВС	TBC	TBC Access to public transport Air quality Reduced congestion and improved environment	OPDC Development		ТВС	TBC	TBC	93	93 Capital	N/A	N/A	N/A N/A	N/A	2-3y	OBC in production for anticipated government decision in Summer 2023
OPDC-B.4 Transport Improvements to North Acton Station	Delivery of step-free access and enhanced capacity	TBC: Old Oak West funding and delivery strategy	TBC TBC	ТВС	TBC	TBC Access to public transport Air quality Reduced congestion and improved environment	OPDC Development		ТВС	TBC	TBC	31	31 Capital	N/A	N/A	N/A N/A	N/A	2-3y	OBC in production for anticipated government decision in Summer 2023
OPDC-B.5 Biodiversity Creation of a new 2ha public park in Old Oak	Development of a new 2ha park in Old Oak including integration with potential access and biodiversity improvements to the Grand Union Canal.	TBC: Old Oak West funding and delivery strategy	TBC TBC	ТВС	TBC	TBC Biodiversity  Reduction in local heating  Health and wellbeing  Active transit	OPDC Development		ТВС	TBC	TBC	6	6 Capital	N/A	N/A	N/A N/A	N/A	2-3y	OBC in production for anticipated government decision in Summer 2023
TfL-B.1 Bus fleet Zero emission vehicles	Zero emission fleet 2030	TBC	2023-2024 2030-2031	296,775	Ongoing	18,930 Air quality	Bus Operations		-	-	19,000	270,000	516,000 Revenue	-	-		-	TBC	Cost estimates are indicative and would require further review to reflect iterative cost relative to TfL's new Business Plan. Early years would be likely to change - TfL's Business Plan keeps open the possibility of 2030 completion in the early years, but a smoother profile would likely increase costs in these years in order to save more in later years. Note that total cost of this initiative is higher than the cost to 2030-2031, as higher leasing costs would continue through the 2030s. total cost shown is estimated cost to end of 2036/37. Carbon savings are additional saving as a result of getting to fully zero emission fleet by 2030 instead of 2034. Assumes the electricity supply for charging the buses is from 100% renewables.
TfL-B.2 Buildings Removal of gas and energy efficiency - Tranche 2	Depots	TBC	2023-2024 2030-2031	85,455	2023-2024	2,223 Staff comfort, ambience, air quality.	IDP, TfL Operations, TfL Capit	al	3,000	9,000	12,000	84,000	108,000 Capital	180	830 1	1,600 8,000	10,610	TBC	Initial high level estimate
TfL-B.3 Buildings Removal of gas and energy efficiency - Tranche 2	Stations	TBC	2023-2024 2030-2031	68,364	2023-2024	1,778 Staff comfort, ambience, air quality.	IDP, TfL Operations, TfL Capit		3,000	8,000	10,000	67,200	88,200 Capital	140	670 1	<u> </u>	8,490	TBC	Initial high level estimate
TfL-B.4 Buildings Removal of gas and energy efficiency - Tranche 2	Office	TBC	2023-2024 2030-2031	41,507	2023-2024	1,080 Staff comfort, ambience, air quality.	IDP, TfL Operations, TfL Capit		2,000	5,000	6,000	40,800	53,800 Capital	80	400	770 3,850		TBC	Initial high level estimate
TfL-B.5 Buildings Removal of gas and energy efficiency - Tranche 2	Out of station retail	TBC	2023-2024 2030-2031	24,416	2023-2024	635 Staff comfort, ambience, air quality.	IDP, TfL Operations, TfL Capit		1,000	3,000	4,000	24,000	32,000 Capital	50	230	450 2,250	2,980	TBC	Initial high level estimate
TfL-B.6 Buildings Removal of gas and energy efficiency - Tranche 2	Arches Other (a.g. accommodation bug / accept station signals/control		2023-2024 2030-2031	4,883	2023-2024	127 Staff comfort, ambience, air quality.	IDP, TfL Operations, TfL Capit		1,000	1,000	1,000	4,800	7,800 Capital	10	40	90 450	3.910	IBC	Initial high level estimate
TfL-B.7 Buildings Removal of gas and energy efficiency - Tranche 2	Other (e.g. accommodation, bus / coach station, signals/control centre, pier, tunnel building)	IBC	2023-2024 2030-2031	31,740	2023-2024	826 Staff comfort, ambience, air quality.	IDP, TfL Operations, TfL Capit		2,000	4,000	5,000	31,200	42,200 Capital	60	310	590 2,950	3,910	TBC	Initial high level estimate
TfL-B.8 Buildings Removal of gas and energy efficiency - Tranche 3	Depots	TBC	2023-2024 2030-2031	85,455	2023-2024	2,223 Staff comfort, ambience, air quality.	IDP, TfL Operations, TfL Capit	al	9.000	27.000	36,000	252.000	324,000 Capital	180	830 1	1.600 8.000	10,610	TBC	Initial high level estimate
TfL-B.9 Buildings Removal of gas and energy efficiency - Tranche 3	Stations	TBC	2023-2024 2030-2031	68,364	2023-2024	1,778 Staff comfort, ambience, air quality.	IDP, TfL Operations, TfL Capit		8,000	22,000	29,000	201,600	260,600 Capital	140			8,490	TBC	Initial high level estimate
TfL-B.10 Buildings Removal of gas and energy efficiency - Tranche 3	Office	TBC	2023-2024 2030-2031	41,507	2023-2024	1,080 Staff comfort, ambience, air quality.	IDP, TfL Operations, TfL Capit		5,000	14,000	18,000	122,400	159,400 Capital	80	400	770 3,850		TBC	Initial high level estimate
TfL-B.11 Buildings Removal of gas and energy efficiency - Tranche 3	Out of station retail	TBC	2023-2024 2030-2031	24,416	2023-2024	635 Staff comfort, ambience, air quality.	IDP, TfL Operations, TfL Capit		3,000	8,000	11,000	72,000	94,000 Capital	50	230	450 2,250	2,980	TBC	Initial high level estimate
TfL-B.12 Buildings Removal of gas and energy efficiency - Tranche 3	Arches		2023-2024 2030-2031	4,883	2023-2024	127 Staff comfort, ambience, air quality.	IDP, TfL Operations, TfL Capit		1,000	2,000	3,000	14,400	20,400 Capital	10	40	90 450	590	TBC	Initial high level estimate
TfL-B.13 Buildings Removal of gas and energy efficiency - Tranche 3	Other (e.g. accommodation, bus / coach station, signals/control centre, pier, tunnel building)	ТВС	2023-2024 2030-2031	31,740	2023-2024	826 Staff comfort, ambience, air quality.	IDP, TfL Operations, TfL Capit	al	4,000	11,000	14,000	93,600	122,600 Capital	60	310	590 2,950	· 	ТВС	Initial high level estimate
TfL-B.14 Solar Installing solar on TfL buildings where technically feasible.		TBC	2023-2024 2026-2027	7,046	2024-2025	516	IDP		1,000	1,000	1,000	-	3,000 Capital		.50		1,626	TBC	Rollout of feasible rooftop solar (3MWp total).
TfL-B.15 Traction Traction efficency	regenerative braking (NL & CL), green CBTC, energy storage (Inverters)		2023-2024 2030-2031	15,000	2023-2024	600 Reliability of power supply	TfL Operations, TfL Capital		250	1,000	2,000	8,000	11,250 Capital	700	700 1	1,000 8,000	10,400	TBC	Carbon savings are as a result of improving the efficiency of the power systems used to drive trains on the TfL network - Scope 2 emissions. These savings are generaly made by a combination of: reducing the energy consumed to move trains around the network, recouping energy that would be currently lost as heat through braking, flattening our usage peaks through energy storage. There is also a secondary thread in this workstream around boosting our (and by proxy, the wider UK's) resilience to the energy crisis. Progressive increase in costing assumes maturity of our reasearch leading to small discrete opporunities across the duration of this budget period. Figures added are estimates based on experience & previous works completed.
TfL-B.16 Vehicle fleet Zero emission vehicles	Switching all 20 HGVs in TfL's support fleet to zero emission	TBC	2026-2027 2030-2031	ТВС	2,030	TBC Air quality	TfL Operations, IDP		-	-	-	4,500	4,500 Capital		-		-	ТВС	Initial high level estimate for vehicle and infrastructure cost. Assumed this would progress later in the decade as market for HGVs is immature.
TfL-B.17 Non building LEDs Street Lighting	Complete conversion	TBC	2024-2025 2025-2026	ТВС	TBC	TBC Potential for reduced maintenance	TfL Operations- NMR, IDP		-	2,000	1,600		3,600 Capital		100	TBC TBC	TBC	TBC	Initial high-level estimate. Further development required to identify carbon and cost savings
TfL-B.18 Non building LEDs Traffic signals  TfL-B.19 Vehicle fleet Zero emission vehicles	Complete conversion  Switching antire Dial a Bide float to zero emission by 2020		2023-2024 2025-2026	TBC	TBC	TBC Potential for reduced maintenance	TfL Operations- NMR, IDP		300		8,900	20,000	14,500 Capital		TBC	TBC TBC	TBC	TBC	Initial high-level estimate. Further development required to identify carbon and cost savings
TfL-B.19 Vehicle fleet Zero emission vehicles	Switching entire Dial-a-Ride fleet to zero emission by 2030	IBC	2023-2024 2030-2031	14,676	2028-2029	1,223 Air quality, lower noise in residential areas, reduced fleet maintainence costs	Bus Operations		4,000	4,000	6,000	26,000	40,000 Capital			//5	//5	IRC	Costs based on project undertaken in 2019/2020, and thus should be considered approximations