

# ENERGY STRATEGY ACTION PLAN: 2020-2023 (DRAFT)

THEME	INITIATIVE	TASK LIST	TASK LINKS	TASKS	STAGE	DEADLINE	ACTION OWNER	CO-OWNER/RESOURCE INPUT	DELIVERY PATH	KPI	PROGRESS NOTES	BUDGET	% COMPLETE
Policy	Emissions from development projects	Task 1	Air Quality Action No. 9	Investigate and pilot innovative schemes to reduce construction based emissions NOx, PM and CO2.	Adoption Stage	Dec-23	Land Water Air	General/Cross-cutting		Qualitative	Recent update in the air quality action plan is a commitment to investigating and piloting innovative schemes to reduce construction based emissions NOx, PM and CO2 in line with research from C40 Cities. These schemes could be similar to those underway in Scandinavian cities Oslo, Copenhagen etc.		10%
Policy	Emissions from development projects	Task 2		Identify the carbon costs of development for life-time carbon when submitting planning applications -New Build target setting (e.g 40% reduction in embodied carbon of new builds and progress to 65%)	Adoption Stage	Dec-23	Planning	General/Cross-cutting		Embodied energy of new builds and energy consumption targets	Through planning policy, develop a Council-wide construction standard for new-builds and refurbishments to ensure that high standards of energy efficiency and sustainability are incorporated to building design and construction to achieve appropriate zero carbon buildings standard. Government have provided Planning Authorities with the green light to go above and beyond Building Regulations. This policy should also address material sourcing requirements to reduce carbon impacts of product transport. Government aspirations include the Future Homes Standard, the commitment to phase out fossil fuel heating installations off the gas grid, and aspirations and initiatives around home retrofits (EPC band C by 2035) and low-carbon heating. The Future Homes Standard for example, will ensure new build homes have low-carbon heating and world-leading levels of energy efficiency by 2025. The World Green Building Council also provide frameworks as does Passivhaus Housing Supply Programme. Planning Application. Workgroup will address how Hackney needs to be prescriptive with structural and material solutions (e.g. CLT) and the potential tendering/cost implications for the programme due to the current construction industry bias toward concrete.		
Assets Review	Estates/Infrastructure review	Task 3		Electricity Infrastructure Study to explore how to connect renewable infrastructure in the Borough. This will enable integration of technologies such as battery grid storage, EV Vehicle-to-grid charging and explore any grid strengthening requirements that may be necessary for Electrification of heat across the Borough.	Exploratory Stage	Dec-21	Energy Management Unit	Planning Fleet Housing		A) Investment Grade Strategy which identifies most investable renewable energy in borough B) Project pilot such as Vehicle-to-grid opportunities	The current Public Sector Low Carbon Skills Fund can be explored to deliver this study.		10%
Monitoring and Reporting		Task 4		-Develop guidance for metering, monitoring, energy performance management, reporting as well as data management	Exploratory Stage	Dec-21	Energy Management Unit PAM	Corporate Property		Qualitative	To be discussed between PAM and EMU. Data systems that we will adopt. usage of heat metering data		10%
Monitoring and Reporting		Task 5	ISO50001 Project Plan	-Carry out review of current BMS systems to identify opportunities to upgrade existing BMS and improve energy control within Civic Buildings	Exploratory Stage	Dec-21	Corporate Property			KWh Gas and Electricity Saved	The current Public Sector Low Carbon Skills Fund and Decarbonisation Funds will be explored to deliver this study.		10%
	Metering, Monitoring, Performance Data Management	Task 6		-Carry out review of current Housing BMS systems to identify opportunities to upgrade existing systems and improve energy control	Exploratory Stage	Dec-21	PAM						
		Task 7		- Explore options to facilitate financial models that can take advantage of the suite of existing and emerging funding schemes	Exploratory Stage	Dec-21	Finance	Energy Management Unit Hackney Light and Power			Explore internal barriers that can limit the adoption of investment models beyond PWLB as new models of investment are needed to lever external funding for long term payback. The use of investment vehicles including Green Bonds, Green Finance Institute, Energy Performance Contracts and invest to Save models etc. should be explored		
Monitoring and Reporting		Task 8		-Develop carbon alongside financial metrics to identify the co-benefits of carbon measures alongside financial benefits and other Council priorities	Exploratory Stage	Dec-21	Finance	Energy Management Unit Corporate Property Housing					10%
Monitoring and Reporting	Designing for Performance/Energy Use	Task 9		-Ensure energy measures/infrastructure in new buildings meet high standards of energy efficiency, where buildings have district heat networks, ensure the measures conform to CP1.2 Requirements both in design and performance	Adoption Stage	Ongoing	Regeneration/Housing Supply Programme	Energy Management Unit Planning Housing		Contractor records Post-installation review (6 months, 1y, 5y). Target % heat loss	A Design Supplement to support Project ER document. This will include details of how projects will be commissioned and monitored in the PC and Post Project Handover Phase. CP1 (Heat Network Code of Practice) will be noted in latest edition VE New Build Specification		10%
Monitoring and Reporting	Designing for Performance/Energy Use	Task 10		-Ensure energy improvement measures/infrastructure in existing buildings meet high standards of energy efficiency, where buildings have district heat networks, ensure the measures conform to CP1.2 Requirements both in design and performance	Adoption Stage	Ongoing	Housing PAM	Energy Management Unit		Target % heat loss			
Renewable Energy Generation	Power Purchase Agreement	Task 11		- Negotiate and establish a net zero PPA agreement for zero carbon electricity	Adoption Stage	Dec-22	Energy Management Unit	Procurement Finance		Carbon factor of net council energy bought including PPA			10%
Renewable Energy Generation	Solar PV Roll-Out	Task 12	ISO50001 Project Plan	-PV Study to explore capacity of roof space and potential to integrate communal heating systems/heat pumps/battery storage and EV -Expand PV roll-out schemes across Council Estates, integrating result of the study. - Battery Storage pilot study for Civic Buildings	Exploratory Stage	Dec-22	Hackney Light & Power	Energy Management Unit Procurement Finance Housing Corporate Property		KWp installation (domestic/non-domestic)			10%
Electrification of Fleet	Mileage reduction	Task 13		-Decrease mileage of fleet through route planning, charger layout, combining tasks geographically and identify cost effective charging for employees who don't have access to off-road parking	Adoption Stage	Dec-21	Fleet Management Housing Building Maintenance	Energy Management Unit Hackney Light and Power		Number of vehicles, miles travelled			10%
Electrification of Fleet	Review vehicle fleet requirements and plan electrification.	Task 14	Task 4 Air Quality Action No. 21	- Replace Fleet with Electric Vehicles	Adoption Stage	Dec-23	Fleet Management Housing Building Maintenance	Energy Management Unit Hackney Light and Power		Number of charge points, peak demand (kW), power to grid (kWp)	Reduce our overall vehicle fleet and increase the number of electric vehicles within the fleet where electric is not possible replace engines with electric motors. Continue to pursue funding opportunities and investigate new sources of funding to bridge the cost gap between a standard and electric vehicle. Install photovoltaic canopies at council owned car parks to power electric vehicle charge points with renewable energy.		10%
Electrification of Fleet	Enable the rapid shift to electric vehicles through putting in place EV charging	Task 15	Task 4 Air Quality Action No. 21 and 33	- Review options to increase uptake of electric vehicles including on street charging targets, ensuring electric vehicle charging infrastructure is commensurate with growth in the Borough's Fleet	Integration Stage	Dec-23	Fleet Management Street Scene	Hackney Light and Power		Number of Lamp columns in residential locations (Target is 1000 - 1500) Number of fast chargers (Target by 2030 is 750) Number of charging hubs	This will include a review of the available charging infrastructure and will be informed by the results of the infrastructure study. There is opportunity to increase EV charging on Estates and within Regen projects.		10%

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Decarbonisation of Heat	Retrofit Programme	Task 16		- Full survey of housing estates to inform roll-out strategies. This would include identifying aging infrastructure, cataloguing existing heating types and recent retrofits, assessing structural vulnerability and more. This review would help develop a clear programme to roll-out demand reduction and boiler replacement schemes.	Exploratory Stage	Dec-21	Housing PAM	Energy Management Unit Finance Procurement	Identify and develop a programme to support a shift to a low carbon heat supply. This should align with planned boiler replacement schemes and the Asset Management Strategy. Where appropriate capitalise on external support and grant schemes including the Green Homes LAD Scheme, Retrofit Accelerator (deep retrofits for homes supported by the European Regional Development Fund and the Extended Energy Leap, provide targeted expertise for identifying, developing and funding retrofit schemes) and Social Housing Decarbonisation Fund (SHDF) Demonstrator. Organisations such as Parity provide data processing/interrogation to develop a number of potential models which should identify routes, costs and CO2 savings. Costs can also be validated and a programme plan developed against the models, organisation such as Savills can provide this, ECO funding remains another source of retrofit support for retrofitting old, inefficient energy systems	Number of homes or buildings retrofitted, CO2 emissions reduction			10%
		Task 17	ISO50001 Project Plan	- Full survey of Civic/Corporate estates to inform roll-out strategies. This would include identifying aging infrastructure, cataloguing existing heating types and recent retrofits, assessing structural vulnerability and more. This review would help develop a clear programme to roll-out demand reduction and boiler replacement schemes.	Exploratory Stage	Dec-21	Corporate Property		Identify and develop a programme to support a shift to a low carbon heat supply by assessing suitability of retrofit options for each category of council influenced buildings. Through the Retrofit Accelerator Scheme, look to retrofit corporate buildings and capitalise on external support and grant schemes providing targeted expertise for identifying and developing retrofit schemes such as the Public Sector Decarbonisation Scheme and Local Energy Accelerator Programme.	m2 of buildings retrofitted, CO2 emissions reduction			
Decarbonisation of Heat	Boiler Replacement Programme	Task 18		-Pilot Boiler Replacement Programme in Housing Estates	Exploratory Stage	Dec-23	Housing PAM			Number of boilers replaced with Heat Pumps or Hydrogen boilers			10%
Decarbonisation of Heat		Task 19	ISO50001 Project Plan	-Pilot Boiler Replacement Programme in Civic Estates	Exploratory Stage	Dec-23	Corporate Property Land Water Air	Energy Management Unit Finance Procurement	The Salix Public Sector Decarbonisation Fund presents an opportunity to trail heat pump technologies in the Corporate Portfolio. The programme of work will include feasibility studies as well as implementing the projects identified under feasibility studies such as the Powering Parks Study	Number of boilers replaced with Heat Pumps or Hydrogen boilers	Funding Application is currently in progress for West Reservoir with a target to submit in November		
Decarbonisation of Heat	Low Carbon Heat	Task 20		- Develop Detailed Plan Developments to progress into investable schemes as identified within Hackney's District Heat Masterplan. Survey existing district heat schemes and prepare detailed report to address existing performance and maintenance issues, including identification of the Council's pathway to manage district heat schemes	Exploratory Stage	2020-2022	Energy Management Unit	Planning Housing Regeneration Finance Corporate Property	Use Council Assets to support the development of heat networks in the Borough to reduce our carbon emissions from heat and support regeneration and the Local Plan and connect our communally-heated buildings to district heat networks where possible. The GLA Decentralised Energy Enabling Project (DEEP) Programme provides up to 100% of funding, the Heat Network Investment Development Unit (HNIDU) provides 100% Funding and support to boroughs to develop decentralised energy feasibility studies and projects.	Investable Plans Delivered			20%
Decarbonisation of Heat		Task 21		- Roll Out Low Carbon District Heat Schemes	Adoption Stage	Dec 2023	Energy Management Unit	Planning Housing Regeneration Finance Corporate Property Hackney Light and Power		V of Heat Provided No of Connections			0%
Decarbonisation of Heat		Task 22		- Appraise Council Wide Programmes e.g. Regeneration, Building Supply, Infrastructure, Park, Renewal Programmes and identify opportunities to align interconnector pipework programmes for neighbouring District Heat Schemes. Review programmes to ensure plans are integrated and consider alignment and opportunities against with cross-cutting initiatives across the Council. Appraisal will also include appraising feasibility of connecting existing buildings to heat pumps and to District Heat Networks	Exploratory Stage	Dec 2021	Energy Management Unit	Planning Housing Regeneration Street Scene Corporate Property	Proceed in parallel with planned programmes, i.e. where boilers replacements are planned, the feasibility of switching to alternative fuels should be investigated. Tools such as Options Appraisal. Opportunity assessment pro-forma can be adopted				
Demand Reduction	Energy Audits	Task 23	ISO5001 Project Plan	Energy Audit of Civic Buildings and roll out survey result which will include measures such as solar thermal installation, lighting efficiency improvements, appliance efficiency improvements, and wastewater heat recovery unit installation, ventilation, building control systems, electricity load reduction/saving (DSR) and cooling improvements.	Adoption Stage	Dec 2022	Corporate Property	Energy Management Unit Finance	Funding for this measure can be provided by the Public Sector Skills Fund. We will also work collaboratively with the Term Contractor and M&E teams to identify and implement quick mean measure. There is potential to start a Decarbonisation Fund which Salix with match fund on a 50/50 basis, this fund can be used as an Innest to Save Scheme	CO2 reduction			10%
Offsetting strategy	Carbon Offsetting	Task 24		Plan offsetting strategy for anticipated net zero residual emissions early, enabling effective offset decisions in future. This will involve reviewing plans developed in light of this strategy to revise forecast emissions, and updating periodically to update with latest decarbonisation and cost forecasts	Exploratory Stage	Dec 2023		Finance Housing		Qualitative			0%
Borough Wide Actions	Schools Programme	Task 25	Air Quality Action No. 12	Undertake a program to retrofit and upgrade the heating networks of schools, which have been identified to be a large consumer of energy in the BH energy strategy analysis. These should build off research and the findings of similar Local Authority schemes.	Exploratory Stage	Dec 2022	Corporate Property Land Water Air	Energy Management Unit	The government has also recently announced substantial amounts of funding for school and public building rebuild programmes, focussed on improving energy efficiency. Salix also provides a programme for Schools energy efficiency measures. The review and offer of support will LA owned schools. The GLA Retrofit Accelerator has a Schools Subscription 5 recommended for clusters of at least 8 schools within a London borough.	Number of schools supported, CO2 reduction			0%
Borough Wide Actions		Task 26		Offer schools support on energy efficiency and renewable energy investment to include expansion of the solar panel roll out	Adoption Stage	Dec 2023	Hackney Light & Power	Energy Management Unit Corporate Property Land Water Air					
Borough Wide Actions	Communication and Behaviour Change Campaign	Task 27	Air Quality Action No. 13	Behaviour change campaigns to improve demand usage levels - domestic and non-domestic. Campaigns and information to residents on heat pumps, lobbying government on increasing awareness. Raise awareness of smart meters for households and businesses	Adoption Stage	Ongoing	Land Water Air Streetscene Comms Public Health		Sample surveys or focus groups, energy bill reviews				0%
Borough Wide Actions		Task 28		Make guidance available for householders and businesses on retro-fitting renewable energy and energy-saving technologies, including technologies and financial assistance			Hackney Light & Power	Energy Management Unit Public Health Team Housing PAM	There is opportunity to implement this through the current SHINE programme. This currently focuses on the private sector, this will need to be embedded with other fuel poverty and public health advice programmes such as the schemes run by the Social Housing sector.	No of calls made(SHINE has a target for 600 calls a year) Face to face advice (SHINE has a target of 12 a year)			10%
Borough Wide Actions	Work with small businesses to encourage uptake of renewable energy	Task 29	Air Quality Action No. 20	Publicise low carbon heat and demand reduction strategies to engage Hackney businesses and residents. This will aim to engage affected residents and provide property owners with best practice guidance, insight and the opportunity to buy into the council programmes	Exploratory Stage		ZEN	Streetscene Land Water Air					10%
Borough Wide Actions	Green Homes Programme	Task 30		Monitor and review up-take of the programme	Exploratory Stage		Hackney Light & Power	Housing PAM Team	Offering free energy efficiency measures to Hackney Private and Social Housing Residents via the Carbon Offset funded Scheme	% Funding allocated Annual Carbon Savings			10%
Borough Wide Actions	Council transparency and data sharing campaign	Task 31		Show leadership on portfolio decarbonisation through transparent efforts to publish data, study findings and target areas. This could be online, with a dedicated app with news and centralised data access, adding green metrics to standard reporting, and/or engagement with studies and best practice sharing opportunities	Integration Stage		Planning						10%

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