

Objectives	Actions/measures	Timeline	Responsibility
Energy consumption – main focus thi	s financial year		
	Christmas switch off:  Proceed with shut-down schedule implemented in previous years. Routine for academic buildings by reducing heating to 15 degrees (not switched off as we would have several major floods). Carbon Number undertake this, as well as ventilation.  Implement additional shut down plan as detailed in the appendix	Between Friday 22/12 and Tuesday 02/01/24	Carbon Numbers under direction of Engineering and Maintenance
	Remove electric radiators that were deployed in 2023 when heating systems broke down (where possible) – John Vane, Engineering, Queen's Building	01/24	Maintenance team
	Look at a method of controlling electric heaters and eligible equipment, etc, which can be interfaced with BMS i.e. Bluetooth - Including the catering display equipment that can be switched off overnight.	End of April	Carbon Numbers, requested by Engineering team
Note: 11-13 Charterhouse, 13 Clerkenwell Road, IoT, Lincoln Inns Field were new	Explore Energy Performance Contract proposal	ongoing	Maintenance
buildings added towards the end of 22/23.	Building Management Systems  Reconfigure existing BMS during upgrades to have closer control of the areas we are heating and cooling.  Identify and approve BMS upgrade projects with the highest savings and quickest payback:  New connections to BMS  BMS system upgrades – quotes for SU Hub (£57,846), Peter Landin (£48,990)  Optimisation of BMS schedules	ongoing	Carbon Numbers with Engineering, Maintenance and Sustainability teams
	Dept W  Request technical costed proposal for how we can better zone the building for future low occupancy periods (likely to require motorised dampers to be installed and interfaced with the BMS)		Carbon Numbers and Engineering
	Heating and cooling policy to be redrafted and proposed for sign off	04/24	Sustainability and Engineering teams
	SHRIFF Room project (JPMR) - Data room expansion and capturing the heat for residences	Starting in 04/24	Engineering and Projects
	Research buildings: Work with Lab managers to ensure equipment is switched off if possible (use of labels) Encourage research teams to set ULT freezers to -70C instead of -80C	Ongoing	Sustainability team with Research teams
	Energy Reporting and Communication: Display energy consumption information digitally.	Ongoing	Sustainability team with Systems and information Manager
	Awareness campaign: Campaign developed with Student Union, interested academics, Communications, Building and Laboratory Managers.	Ongoing	Sustainability team with support from Communications
	Install submeters where a fiscal meter feeds more than one building – Charterhouse Sq. Install additional building submetering where needed (add info about competed buildings)	Completed for top 10 buildings	Engineering with Sustainability, delivered by suppliers where applicable
Re-Engineering of Combined Heating Plant (CHP)	Continue to install AMRs on gas meters and non half-hourly electricity meters  Combined Heat and Power (CHP) units to be reconfigured to match both Electrical and Mechanical loadings to 100% of the plant operational status.  Rectify issues with Mile End CHP system.		Engineering and Maintenance
	Energy Efficiency Inspections to be carried out by Carbon Numbers as part of the contract – 3 buildings per quarter (define buildings for this quarter)	3 per quarter	Carbon Numbers
Waste and resource management	free control Or residence Approach		



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Improve our recycling rates by at least 7% against 2022/23 (Bywaters collections)	Develop and deploy new bin signage across all QM buildings (general waste, mixed recycling and food waste).  Note: limited by current budget constraints, 500 copies of bin signage ordered and being deployed. More bins and signage to be ordered in batches as required	07/24	Sustainability and Campus Services teams
	Ensure that there are outdoor bins available for the collection of food waste.	07/24	Sustainability and Campus Services teams
	about segregation, keeping bin lids down and bin enclosures locked (where possible). Toolbox talks need to include residences team.  Note: verified with training records	Every 4 months	Campus Services team
Implement waste improvement plan (academic and residential)	KPIs: % team leaders trained; % cleaners trained Rationalise bin stations (removing bins from classrooms, etc, and relocating them to centralised bin stations. Standardise bin designs, convert spare general waste moon bins to mixed recycling. Phased replacement of existing DMR cardboard bins with these 'moon bins'	07/24	Sustainability and Campus Services teams
Improve external bin storage	Standardise colours of bin liners across campuses, clear bag for general waste and green bag for mixed recycling. Note: previously purchased bags of different colours will be used up  KPIs: % buildings completed  Mile End waste yard and external storage improvements:	12/24	Campus Services team
	<ul> <li>All external bins to have clear signage. Where needed, also place signage on bin enclosures.</li> <li>Deliver toolbox talks to cleaning team leaders and cleaning teams.</li> </ul>		
Reduce volume of waste by 8% against 22/23	Run Reuse fair in September (move-in weekend) to donate household items left by students at the end of academic year to new students (run by the SU). Run Wardrobe Refresh Fair during Sustainability week to donate clothing left by students at the end of academic year to new students (run by the SU).	09/23 and 11/23 Completed	Student Union
		Starting in 01/24	Catering and Sustainability teams with supplier Reuser
Food	Design signage for collection points.		
	Posters on screens and coffee table signage about Reuser cups.  Communications to be sent by email to update staff on Reuser trial and progress.  Posters about Angry Monk and other sustainable sourcing choices.	07/24	Catering and Sustainability teams
Improve affordability of catering offering	· · · · · · · · · · · · · · · · · · ·	09/24 (Completed)	Catering team
Water consumption			
Retender water contract	Assess if TEC water supply and associated services offering is suitable for our needs, as TEC has previously approved as the energy partner (gas and electricity. Wave will request additional investigations for meters that are not found.	02/2024 (Completed)	Sustainability and Procurement teams



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	Agree all QM's requirements with Wave ahead of the switch. Switch to Wave on the agreed date, ensuring that we can provide support for meter readings.		Sustainability and Procurement teams
Improve knowledge of water supplies by determining location of meters and which building they supply; improve monitoring of water consumption by installing AMRs in all meters	Commission new water supplier Wave, starting in March 24, to carry out a survey of all our water meters to determine: - all meter locations (expected to be undertaken during opening reads visits) and - which buildings are supplied by each meter (currently unavailable).	- 04/2024 - Tbc, may shift to next year	Sustainability team and Procurement, with support from Maintenance
	Install AMRs in 100% of water meters to improve monitoring of water consumption and help identify spikes caused by leaks or other over-consumption causes.	09/24	Sustainability team with support from Maintenance
	Note: there are some digital meters owned by the wholesaler, it's harder for Wave to get the information from them		
Carbon emissions			
Reduce carbon footprint from scopes 1 and 2 by 5% against 22/23	Implement energy reduction plan detailed above to reduce emissions from gas and electricity.	07/24	Sustainability team with Engineering, Maintenance, Campus Services, with Carbon Numbers
Expand carbon footprint calculations to include supply chain emissions	Calculate supply chain emissions based on spend (APUC/HESCET tools).	08/24	Sustainability team with Procurement
Travel and transport			
	Develop a sustainable travel guidance that highlights the impact of different travel options and encourages staff to embrace low carbon travel.	12/24	Sustainability team
Charterhouse Square car parking	Start the process of evaluating and reviewing QM's long-term plan for car parking at both campuses. Establish a database of suppliers and their expected parking needs. Review parking allocation for each supplier and communicate our expectations going forward.	08/24	AD for Campus Services
Construction and refurbishment			
Decarbonise the estate through ongoing refurbishment projects and new builds	ITL refurbishment project will replace gas boilers with heat pumps and improve efficiency of the building (but building will duplicate in size).	Linked to project timelines	Capital Projects team supported by consultants and Sustainability team
	New Life Sciences Building – to be designed as a fully electric and energy efficient building. Develop and update Sustainability Brief and KPI's for the project		
Continue to achieve BREAAM excellent for new builds and very good for refurbishments	BREEAM assessments undertaken by Projects team, supported by consultants, to ensure relevant targets are achieved.	Linked to project timelines	Capital Projects team supported by consultants and Sustainability team
Sustainable procurement			
	Review and update our Sustainable Procurement Policy (last updated in April 2019).  Develop more robust Sustainable Procurement guidance documents, starting this financial year.  Responsible Procurement - Procurement (qmul.ac.uk)	Policy by 07/24 Guidance documents by 05/25	Procurement and Sustainability teams
Community			
Participate in Tower Hamlets Climate Partnership	Participate in Tower Hamlets Climate Partnership and relevant subgroups, attending meetings as required	Ongoing commitment	Sustainability team



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	Continue to deliver Festival of Communities, scheduled for the second weekend of June 24 (in collaboration with Tower Hamlets community groups and organisations)	June 2024	Various teams



### Appendix I - Christmas switch off

Objective	Action/measure	Responsibility	Timeline	Progress updates		
Energy consumption – main foci	Energy consumption – main focus this financial year					
residences and gas consumption by 8% academic buildings/ 6% on residences against 22/23  Note: 11-13 Charterhouse, 13 Clerkenwell Road, IoT, Lincoln Inns Field were new buildings added towards the end of 22/23.	Proceed with switch off schedule implemented in previous years. Routine for academic buildings by reducing heating	Carbon Numbers under direction of Engineering and Maintenance	•			
	Close and turn off Department W and Queens building between 22/12 and 02/24 (attempt to shut down floors 2 and 3 during CW51 failed after complaints from building users)		Between Friday 22/12 and Tuesday 02/01/24			
	All the buildings within the EECS portfolio (including PhD spaces and workshops) will be closed during the festive	Manager, with	Between Friday 22/12 and Tuesday 02/01/24			
	The G. O. Jones Building and the SPCS area of the JP Building will be closed over the Christmas, commencing at 4pm	Engineering	Between Friday 22/12 and Tuesday 02/01/24			
	Visit all buildings/offices to manually turn off local air conditioning with local control, lighting, office and kitchen equipment, room wall heaters, unplug electric heaters, including those plugged in under desks (to be documented)	Contractors managed by Engineering	22/12/23			
	Research buildings Lab teams to shut down fume cupboards and equipment, where possible. Faculties to send list of areas that could be shut down to Engineering (agreed in Technical Forum)	ŭ ŭ	Between Friday 22/12 and Tuesday 02/01/24			
	Residences Communication to be sent out by Residences team asking residents to switch off when they leave their rooms, communal areas on motion timers to ensure lights turn off if no one is in the area. Heating is already on timers (except for older buildings such as Albert Stern House, Foyer House) Over the closure residences will have cleaning teams and Halls Managers in throughout so they will also be encouraged to switch off.	Residences team				