

Environmental Sustainability Policy 2020

Outcome	That the Sustainability Committee should:
requested:	Consider the environmental sustainability policy
	Endorse the environmental sustainability policy
	Approve the presentation of the environmental sustainability policy to
	the Senior Executive Team (SET)
Executive	The environmental sustainability policy details the current environmental
Summary:	objective of the Queen Mary, University of London (QMUL). This policy
	will be reviewed annually to ensure that it is fit for purpose, reflects all
	significant environmental aspects of QMUL, ensure that it continue to
	improve its environmental performance and complies with all relevant
	environmental regulations.
Alignment with:	The Environmental Protection Act 1990
QMUL Strategy	Clean Air Act 1993
• Internal	The Climate Change Act 2008
Policies/Regula	The Waste (England and Wales) Regulations 2011
tions	Water Framework Directive 2015
• External	The Energy Act 2016
Statutory	Clean Air Framework 2017
Requirements	Clean Air Strategy 2019
Consideration of	This policy will be the framework on which QMUL's environmental
Strategic Risks:	management strategy will be developed and on which its environmental
	sustainability performance will be monitored and reported.
Subject to Prior	Senior Executive Team
and Onward	
Approval by:	
Confidentiality and	Non-restricted
Distribution:	

Equality Impact	Not Applicable
Assessment:	
Author(s):	Philip Tamuno & Garry Pritchard
Date:	2 January 2020



Environmental Sustainability Policy

Queen Mary University of London (QMUL) is a Russell Group University and one of UK's leading research-focused higher education institutions. We offer our students a stimulating, supportive and high quality learning experience.

We are proud to celebrate our collegial community and committed to act with the highest ethical standards and actively contribute to shaping our society. We create a truly inclusive environment, building on our cherished cultural diversity, where students and staff flourish, reach their full potential and are proud to be part of QMUL.

We are highly engaged with our local community and we are proactively exploring opportunities to address some of the significant and long-standing challenges within our region. We aspire to be the most inclusive research-intensive university in the world by 2030.

QMUL is committed to continue to improve its environmental performances as well as comply with all relevant environmental regulation. We will continue to be committed to:

- Integrating the principles of sustainable development across all areas of our operations and our academic programmes
- Integrating climate change adaptation and emergency into all aspects of our operations
- Reducing our carbon footprint and the environmental impacts of our direct and indirect operations
- Exploring and implementing initiatives that reduces the environmental and public health impacts of our travel and transportation
- Implementing energy efficiency measures across our Campuses as well as explore all relevant sources of renewable and decentralised energy generation
- Embedding environmental and climate change specifications into all relevant aspects of our procurement and commissioning processes
- Promoting the benefits of sustainable and catering services across our Campuses
- Embedding biodiversity enhancement and ecological conservation into all refurbishment and new build projects as well as our grounds management
- Reducing the wastes generated across our Campuses as well as divert all general wastes we generate from landfill
- Using quantitative and qualitative indicators to monitor and report our environmental performances to all relevant stakeholders
- Complying with all relevant environmental regulations
- Ensuring that we have adequate resources to coordinate and support the delivery of our environmental sustainability objectives.



Professor Colin Bailey (President and Principal)



Lord Clement-Jones (Chair of Council)

Date Approved: XX January 2020 Date Due for Review: XX January 2021



Sustainable Food and Catering Policy 2020

Outcome	That the Sustainability Committee should:
requested:	Consider the sustainable food and catering policy
	Endorse the sustainable food and catering policy
	Approve the presentation of the sustainable food and catering policy
	to the Senior Executive Team (SET)
Executive	The sustainable food and catering policy sets out the sustainable food
Summary:	and catering of Queen Mary, University of London (QMUL). This policy
	will be reviewed annually to ensure that it is fit for purpose.
Alignment with:	The Environmental Protection Act 1990
QMUL Strategy	Sustainable Procurement Action Plan 2007
Internal	Climate Change Act 2008
Policies/Regula	Energy Act 2016
tions	QMUL's Environmental Sustainability Policy 2020
External	
Statutory	
Requirements	
Consideration of	This policy defines the scope of QMUL sustainable food and catering
Strategic Risks:	
Subject to Prior	Senior Executive Team
and Onward	
Approval by:	
Confidentiality and	Non-restricted
Distribution:	
Equality Impact	Not Applicable
Assessment:	
Author(s) :	Philip Tamuno & Garry Pritchard
Date:	2 January 2020



Sustainable Food and Catering Policy

Queen Mary University of London (QMUL) is a Russell Group University and one of UK's leading research-focused higher education institutions. We offer our students a stimulating, supportive and high quality learning experience.

QMUL is committed to exploring every opportunities, which ensures that all food bought, consumed and prepared across our Campuses have as little as possible impact on the environment. We will also continue to:

- Using local, seasonally available ingredients as standard, to minimise food transport, storage and energy use
- Excluding fish species identified as most at risk by the Marine Conversation
 Society and specifying fish only from sustainable sources
- Ensuring that meat, dairy and egg products are produced to high environmental, ethical and animal welfare standards
- Buying fair-trade certified products for foods and drinks imported from poorer countries to ensure a fair deal for disadvantaged producers
- Specifying produce from farming systems that have minimal environmental harm and under ethical standards
- Increasing the proportion of meals rich in fruit, vegetables, pulses and nuts, while reducing foods of animal origin (meat, dairy products and eggs), as livestock farming is one of the most significant contributors to climate change
- Embedding energy efficiency and good energy management practices across all our catering processes
- Ensure that free tap water is available as alternative to singe use bottled water across our Campuses
- Ensuring that all major catering and food suppliers have certified environmental management system



lan McManus (Director of Estates, Facilities and Capital Development)

Date Approved: 9 January 2020 Date Due for Review: 8 January 2021



Environmental Sustainability Strategy: Overview

Outcome	That the Sustainability Committee should:
requested:	Consider the structure and scope of our environmental sustainability
	management
	Endorse the scope of our environmental sustainability strategy (as
	detailed in Appendix 1)
	Decide any issue(s) that should be escalated
Executive	This report contain an overview of our environmental sustainability
Summary:	strategy. This strategy will serve as the framework / system on which we
	deliver our environmental objectives, continue to comply with all relevant
	environmental regulations and enhance our resilience to the adverse
	impacts of climate change.
	Monitoring, managing and reporting all significant areas in which we
	interact with the environment will be an integral aspect of our
	environmental strategy. We will continue to promote the benefits of
	embedding good environmental practices across all areas of our
	operations and academic activities.
	Our 2018/19 environmental footprint and performances will be used as
	the baseline on which our environmental sustainability strategy will be
	developed. This strategy will support our commitment to continue to:
	Reduce our environmental footprint
	Reduce costs in energy, water and waste
	Embed good environmental practices into all areas of our operations
	Improve our environmental and corporate image
	Comply with all relevant environmental regulations
Alignment with:	The Environmental Protection Act 1990
QMUL Strategy	Clean Air Act 1993
	The Climate Change Act 2008

• Internal	The Waste (England and Wales) Regulations 2011
Policies/Regula	Water Framework Directive 2015
tions	The Energy Act 2016
External	Clean Air Framework 2017
Statutory	Clean Air Strategy 2019
Requirements	
Consideration of	The environmental management strategy will serve as the framework on
Strategic Risks:	which QMUL's environmental objectives and commitment to continue to
	comply with all relevant regulations will be delivered.
Subject to Prior	Not Applicable
and Onward	
Approval by:	
Confidentiality and	Non-restricted
Distribution:	
Equality Impact	Not Applicable
Assessment:	
Author(s) :	Philip Tamuno & Garry Pritchard
Date:	2 January 2020



Environmental Sustainability Strategy: Overview

Executive Summary:

This report contain an overview of our environmental sustainability strategy. This strategy will serve as the framework / system on which we deliver our environmental objectives, continue to comply with all relevant environmental regulations and enhance our resilience to the adverse impacts of climate change.

Monitoring, managing and reporting all significant areas in which we interact with the environment will be an integral aspect of our environmental strategy. We will continue to promote the benefits of embedding good environmental practices across all areas of our operations and academic activities.

Our 2018/19 environmental footprint and performances will be used as the baseline on which our environmental sustainability strategy will be developed. This strategy will support our commitment to continue to:

- Reduce our environmental footprint
- Reduce costs in energy, water and waste
- Embed good environmental practices into all areas of our operations
- Improve our environmental and corporate image
- Comply with all relevant environmental regulations

Scope: Environmental Sustainability Strategy

Appendix 1 detail the scope of our environmental sustainability strategy and management system. Relevant quantitative and qualitative key performance indicators (KPIs) will be identified and used to monitor our environmental performance. The main strands of our environmental sustainability strategy are:

Carbon management and reduction

- o Building energy use
- Travel and transportation
- Construction (New build, refurbishment and maintenance)
- Climate change adaptation and climate emergency
- Water management
- Waste management
 - Recycling and waste segregation
 - Hazardous waste management and compliance
- Biodiversity and habitat enhancement
- Sustainable procurement and commissioning
- Sustainable food and catering
- Embedding sustainable development
 - Awareness and engagement
 - Education for sustainable development
- Environmental compliance (as well as pollution and emission management)

Carbon Management

The carbon emitted from the electricity and gas used across our Campuses as well as from our travel and transportation (international flights and commuting) will represent our carbon footprint.

Our 2018/19 carbon footprint will be the baseline on which our carbon reduction performance will be monitored and reported.

Building Energy efficiency

Table 1 show that we are in line to achieve a 7% reduction in the electricity used across our Campuses at the end of the current academic year compared to 2018/19. This projection is based on the electricity that we used between August and November 2019.

Table 1: Electricity used across QMUL's Campuses

Campus	Electricity kWh 2018-19	Electricity kWh 2019-20 (Trend)	Percentage Increase
Charterhouse	6,904,126	7,302,530	6%
Whitechapel	7,940,688	8,007,213	1%
Mile End	21,208,363	18,007,244	-15%
Lincoln's Inn Field	80,838	75,370	-7%
Chislehurst Sports Ground	50,234	19,213	-62%
Empire House	0	109,364	100%
	38,184,249	33,520,935	-7%

As seen in Table 2, we are in line to record a 16% increase in the gas used across our Campuses by the end of the 2019/20 academic year compared to the gas we used during the 2018/19 financial year. This projected increase is based on the gas we used between August and November 2019.

Table 2: Natural Gas used across QMUL's Campuses

Campus	Gas - kWh 2018/19	Gas - kWh 2019/20 (Trend)	Percentage Increase
Charterhouse	6,281,653	7,386,085	18%
Whitechapel	5,087,112	6,185,950	22%
Mile End	15,276,812	16,656,197	9%
West Smithfield	73,658	549,273	646%
Empire House	0	113,727	100%
	26,719,235	30,891,232	16%

Based on our current energy usage, our estates carbon footprint is in line to increase by 1% from 14,707 tCO₂e to 14,878 tCO₂e at the end of the current academic year. In response to this challenge, we are currently exploring opportunities to reduce the electricity and gas used across our Campuses.

We will also use the display energy certificates (DECs) of our buildings issued on 31 December 2018 as the baseline on which we monitor the energy performances of our buildings.

Travel and Transportation

We are aware of the environmental and public health impacts of emissions from travel and transportation. Therefore, implementing a "no idling" policy across our Campuses will be a fundamental aspect of our carbon reduction priority.

The reduction of carbon (tCO₂e per FTE) emitted from our business air travel will be an integral aspect of our carbon management. We will continue to promote various remote communication options as part of our commitment to reduce carbon footprint.

We will continue to promote initiatives, which encourages all staff and students to cycle as well as provide safe cycle parking facilities across our Campuses.

Construction: New Builds and Refurbishment

The materials and the processes associated with construction and refurbishment projects have the potentials to adversely impact on our local environment. However, embedding good environmental practices into construction, new build and refurbishment projects would positively contribute to:

- Biodiversity preservation and enhance
- Reduction of pollution (water, dust and noise) and emissions (carbon emissions from machinery and refrigeration (HCFC's)
- Waste minimisation and material re-use
- Enhanced energy and water efficiency

As part of the delivery of our environmental objectives, all our major new builds and refurbishment projects (i.e. those projects generally over 1,000 m² in floor area) will

target the attainment of Building Research Establishment Environmental Assessment Method (BREEAM) Excellent and Very Good ratings respectively.

Climate Change Adaptation and Emergency

The impacts of adverse climate change are becoming obvious. Therefore, we will actively integrate climate change adaptation into all aspects of our operations and we will continue to implement initiatives, which reduces the direct and indirect emissions from our operations.

Sustainable Procurement and Commissioning

The goods and services we procure have varying level of impacts on the environment. Therefore, including environmental specifications into relevant aspects of our procurement and commissioning processes will influence our supply chain, suppliers and contractors to embed good environmental practices into their operations.

Sustainable Food and Catering

Embedding good environmental practices into the way we source, prepare and process food have the potential of enhancing our environmental performance and reducing the environment impacts of the food we serve across our Campuses.

The additional benefits associated with sustainable food and catering are waste minimisation and reduction, water efficiency, energy efficiency and climate change mitigation. We will continue to promote the benefits of sustainable food and catering across our Campuses.

Water Management and Efficiency

Our March to July 2019 water consumption data was used to generate our 2018/19 water consumption profile¹. Based on these data, we estimated that 264,574 m³ of water were used across our Campuses, with Mile End accounting for approximately 49% of the water we used between August 2018 and July 2019.

Figure 1 show our water use profile² during the 2018/19 academic year. As part of our commitment to reduce the pressure we have on local water resources, we will actively explore and implement water efficiency measures across our Campuses as well as avoid water wastage.

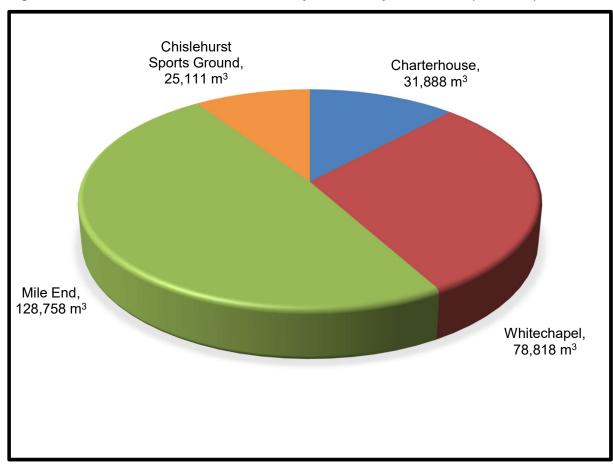


Figure 1: Water Use Profile of Queen Mary, University of London (2018/19)

¹ This will be updated when we receive copies of our August to February 2019 water services invoices

² Estimated

Recycling and Waste Management

We generated 1,588 tonnes of waste across our three main Campuses, but only 33% of these were recyclable materials. As seen in Figure 2, there are opportunities to improve recycling across our Campuses.

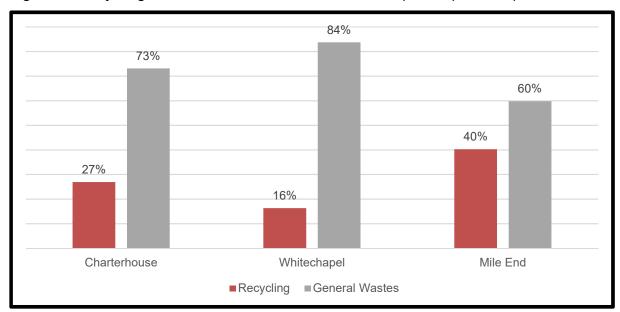


Figure 2: Recycling Performances across QMUL's Campuses (2018/19)

Embedding Environmental Sustainability

We have identified some national and international environmental sustainability campaigns that we will be participating in between January and July 2020. An overview of these campaigns are:

- January 2020: Big Energy Saving Week 20 January 2020.
- February 2020: Resource efficiency and sustainable procurement
- March 2020: Global Recycling Day (18 March 2020). This campaign will be coordinated by the Waste Manager.
- April 2020: The Big Pedal Day (22 April 2020). During this event, bicycle repair services will be provided free of charge to all Colleagues and Students

- May 2020: National Walking Month. This National campaign will be used to promote the public health and environmental benefits of walking
- June 2020:
 - World Environment Day (5 June 2020). We will use this event to promote the benefits of good environmental practices and our social responsibilities to our environment.
 - International Clean Air Day (20 June 2020). We will use this campaign to promote the environmental and public health benefits of sustainable travel
- July 2020: International Plastic Bag Free Day (3 July 2020). This campaign will be used to highlight the risks of plastic (micro-plastic) pollution and the benefits of reducing the use of plastic bags

As part of our commitment to embed good environmental practices across QMUL, we will be advertising and encouraging all colleagues to attend a workshop (Environmental Sustainability Skills for the Workforce) designed and accredited by the Institute for Environmental Management and Assessment (IEMA). This workshop will be delivered on Campus and the main content of this course are:

- The main environmental risks and opportunities we face
- The importance of resource efficiency
- The impacts of pollution, prevention, control and legislation
- The impact of transport
- The role each individual can play in supporting the delivery of sustainable development

As part of our participation in the EcoCampus programme, all interested QMUL's student will be able to access a webinar designed for students who want to know more about environmental management and how they can be involved in supporting the delivery of the principles of sustainable development.

We will also be coordinating specialised environmental workshops and courses during the current academic year. Some of these training programmes are: Internal environmental auditing

Environmental compliance

Environmental management system and sustainable development

Environmental Assurance

We will be rolling out an environmental auditing programme. This programme will

cover all areas in Appendix 1 as well as used to monitor our performance against our

environmental objectives.

The outcome and all outstanding audit actions will be presented at the quarterly

Sustainability Committee meetings.

Conclusions and Recommendations

A draft version of our environmental sustainability strategy will be presented at the

next scheduled (April 2020) Sustainability Committee meeting.

We are encouraging all relevant stakeholders be involved in our journey of improving

our environmental performance and reducing our environmental footprint.

We are recommending that the Sustainability Committee should:

• Consider the content of this report

Endorse the scope of our environmental sustainability strategy (as highlighted

in Appendix 1)

• Decide any issue(s) that should be escalated

Author (Position): Philip Tamuno (Head of Sustainability)

Date: 2 January 2020

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Appendix 1: Scope of Environmental Sustainability Strategy

Aspects	Lead	Scopes	Frequency
Leadership and Strategic Commitment	Colin Bailey	Board approved and up to date environmental	Quarterly
		sustainability policy	O
		Designated SET Environmental Sustainability Lead	Quarterly
		Environmental sustainability performance as part of	Annual
		QMUL's annual report	
Environmental Sustainability Management	Ian McManus	Environmental assurance and governance	Quarterly
Review		Environmental compliance and performance review	Quarterly
Institutional Roles, Responsibilities and	Ian McManus	Coordinated and integrated resources to support and	Quarterly
Authorities		coordinate the delivery of QMUL's environmental	
		objectives	
Operational Planning and Control	Garry Pritchard	Adequate resources and systems to support and	Quarterly
		coordinate the delivery of QMUL environmental	
		objectives	
Emergency preparedness and Response	Steven Exley	Assurance and systems that enhances QMUL's	Quarterly
		resilience to the adverse impacts of climate change	
Environmental Policy	Philip Tamuno	Up to date environmental sustainability policy	Annual
Environmental Objectives	Philip Tamuno	Up to date SMART (Qualitative and Quantitative)	Quarterly
		indicators used to monitor and report QMUL's	
		environmental performance	

Aspects	Lead	Scopes	Frequency
Organisation Context (Environmental	Philip Tamuno	Updated environmental aspects register that	Monthly
Aspects)		addresses all relevant regulations and standards	
Compliance and Obligations	Philip Tamuno	Updated environmental legal register	Quarterly
Environmental Management Actions	Philip Tamuno	Environmental sustainability strategy and management system	Quarterly
Environmental sustainability competence and awareness	Philip Tamuno	 Year round environmental awareness campaigns linked to National and International Campaigns Environmental sustainability, sustainable development and environmental compliance 	Quarterly Quarterly
		educational programme	
Communication and Engagement	Philip Tamuno & Samantha Osborne	 Promotion of good environmental sustainability practices Participate in National and International Campaigns 	Monthly Quarterly
Education for Sustainable Development	Philip Tamuno	Advertise relevant courses and workshops	Quarterly
	& David Wallace	Delivery of environmental sustainability workshops	Quarterly
Environmental Performance Review	Philip Tamuno	Updates presented to the Sustainability Committee	Quarterly
		Annual environmental sustainability Report	Annual
Monitoring, Measuring, Analysis and	Philip Tamuno	Energy and water management	Monthly
Evaluation		Review of environmental KPIs	Monthly
		Management review and escalation	Quarterly

Aspects	Lead	Scopes	Frequency
Internal Audit, Evaluation and Compliance	Philip Tamuno	Internal audit programme	Quarterly
		Environmental assurance	Quarterly
		Internal environmental audit	Monthly
Procurement and Commissioning	Bahar Shahin	Up to date sustainable procurement guide	Quarterly
		Influencing supply chain	Monthly
		Environmental sustainability specifications included	Monthly
		in all relevant procurement and commissioning	
		processes	
Air Conditioning	Garry Pritchard	Compliance with relevant environmental, energy and	Quarterly
		emission regulations	
Boilers and Chillers (including maintenance)	Timothy Lee	Energy efficiency ratings and performances of boilers	Quarterly
		and chillers across all Campuses	
Sustainable Food and Catering	James Cornewall-	Up to date sustainable food and catering policy	Annually
	Walker	Energy use	Monthly
		Water use	Monthly
		Recycling and waste segregation	Monthly
		Embedding sustainable development	Monthly
		Environmental compliance	Monthly
		Management, storage and disposal of food waste	Monthly
Carbon Management Plan	Philip Tamuno	Up to date carbon management plan	Quarterly

Aspects	Lead	Scopes	Frequency
		Review of QMUL's carbon reduction performance	Quarterly
		Carbon reduction performance	Quarterly
Utilities – energy and water management	Philip Tamuno	Review of QMUL's energy and water performance	Monthly
		Identify, prioritise and implement low-cost energy	Monthly
		and water efficiency measures	
		Energy and water budget performance	Quarterly
Building Design and Construction	Project Managers	Embed relevant environmental specifications into all	Quarterly
		new builds, refurbishment and construction project	
		Environmental assurance and compliance	Quarterly
		BREEAM assessment and target	Quarterly
Asbestos Management	Andrew Cumming	Up to date Asbestos register	Monthly
		Assurance of compliance with relevant waste	Quarterly
		management regulations	
Information and Waste Electrical Equipment	IT Department	Safe storage and disposal of all waste electrical and	Quarterly
		electronic equipment (WEEE)	
		Compliance with hazardous waste regulations	Quarterly
Recycling and Waste Management	Paul Monk	Recycling and waste segregation performance	Monthly
		Waste management and compliance audits	Monthly
		Weight of each waste streams	Monthly
		Assurance of compliance with waste duty of care	Quarterly
			Quarterly

Aspects	Lead	Scopes	Frequency
		Recycling and waste segregation awareness campaigns / events	
Grounds Maintenance	Paul Monk	Biodiversity and ecological enhancement	Monthly
		Embedding good environmental practices	Monthly
		Green regeneration activities	Quarterly
		Awareness and training for all Grounds Staff	Quarterly
Clinical Waste Management and	Suzanne Mason	Clinical waste segregation performance	Monthly
Compliance		Hazardous waste compliance and audits	Monthly
		Weight of each waste streams	Monthly
		Assurance of compliance with hazardous waste	Quarterly
		regulation	
		Hazardous waste handling awareness	Quarterly
Drainage and Emissions (Mile End)	Andrew Megennis	Compliance with Trade Effluent Regulations 1989	Monthly
		Assurance of safe storage and disposal of all	Quarterly
		hazardous materials	
		Designated of surface water and wastewater drains	Quarterly
Drainage and Emissions (Whitechapel)	Valeriy Hnachuk	Compliance with Trade Effluent Regulations 1989	Monthly
		Assurance of safe storage and disposal of all	Quarterly
		hazardous materials	
		Designated of surface water and wastewater drains	Quarterly

Aspects	Lead	Scopes	Frequency
Drainage and Emissions (Charterhouse)	Ian Wiser	Compliance with Trade Effluent Regulations 1989	Monthly
		Assurance of safe storage and disposal of all	Quarterly
		hazardous materials	
		Designated of surface water and wastewater drains	Quarterly
Laboratories and Workshops	Relevant Managers	Energy Use	Monthly
		Water use	Monthly
		Embedding sustainable development	Monthly
		Recycling and waste segregation	Monthly
		Assurance of compliance with relevant hazardous	Monthly
		materials and waste storage and disposal regulations	
Nursery	Linda Happe	Energy Use	Monthly
		Water use	Monthly
		Embedding sustainable development	Monthly
		Recycling and waste segregation	Monthly
		Non-infectious waste segregation	Monthly
		Waste management compliance	Monthly
Residences	Suzanne Cantelo	Energy Use	Monthly
		Water use	Monthly
		Embedding sustainable development	Monthly
		Recycling and waste segregation	Monthly
			Monthly

Aspects	Lead	Scopes	Frequency
		Waste management compliance	
Student Union	Mike Wojcik	Energy Use	Monthly
		Water use	Monthly
		Embedding sustainable development	Monthly
		Recycling and waste segregation	Monthly
		Waste management compliance	Monthly
Humanities and Social Sciences	Marta Timoncini	Energy Use	Monthly
		Water use	Monthly
		Embedding sustainable development	Monthly
		Recycling and waste segregation	Monthly
		Waste management compliance	Monthly
Medicine and Dentistry	Robert Bennett	Energy Use	Monthly
		Water use	Monthly
		Embedding sustainable development	Monthly
		Recycling and waste segregation	Monthly
		Waste management compliance	Monthly
Science and Engineering	Anne Parry	Energy Use	Monthly
		Water use	Monthly
		Embedding sustainable development	Monthly
		Recycling and waste segregation	Monthly

Aspects	Lead	Scopes	Frequency
		Waste management compliance	Monthly



Energy Efficiency and Budget Performance Q1 (2019/20)

Outcome	That the Sustainability Committee:				
requested:	 Consider the energy efficiency and budget performance Quarter 1 (2019/20) for assurance purpose Consider issues that should be escalated 				
Executive	This report details our energy efficiency performance against our budget				
Summary:	and contain an overview of projects that have been implemented via the				
	Salix energy efficiency loan.				
Alignment with:	The Environmental Protection Act 1990				
QMUL Strategy	Clean Air Act 1993				
• Internal	The Climate Change Act 2008				
Policies/Regula	The Energy Act 2016				
tions					
External					
Statutory					
Requirements					
Consideration of	Reducing the energy used across our Campuses will reduce our				
Strategic Risks:	exposure to rising and volatile energy prices.				
Subject to Prior	Based on the Sustainability Committee recommendation				
and Onward					
Approval by:					
Confidentiality and	Non-restricted				
Distribution:					
Equality Impact	Not Applicable				
Assessment:					
Author(s) :	Philip Tamuno & Garry Pritchard				
Date:	2 January 2020				



Electricity and Gas Consumption and Budget Performance: Quarter 1

This report details our electricity and gas consumption and spend performances against our 2019/20 energy budget. Our 2019/20 budget was based on the performances of energy efficiency projects that were scheduled to be completed during the 2018/19 academic year (See Appendix 1 for an overview of Salix funded energy efficiency projects).

During the 2018/19 academic year, we used 37,260,482 kWh (37,260 MWh) and 29,197,851 kWh (29,198) MWh) of electricity and gas respectively.

Our 2019/20 academic year energy budget were set to deliver 12.8% reduction in electricity and 10.6% increase in gas used across our Campuses.

Based on the electricity and gas used across our Campuses between August and October 2019, we are in line to use 4,585,735 kWh (14.1% higher) more electricity than projected and 2,435,277 kWh (7.5% lower) less gas than budgeted by the end of the current academic year.

The above implies that we are line to spend £688,138 over our 2019/20 energy budget by the end of the 2019/20 academic year. £86,129 of this budget over-spend is attributed to the 14% and 11% increase in electricity and gas costs respectively compared to what we paid for energy during the 2018/19 academic year.

Identifying, prioritising and implementing robust energy efficiency projects will support the delivery of our commitments to continue to reduce the energy used across our Campuses as well as reduce our carbon footprint. The Figures below gives an overview of the current trend of our electricity and gas budget (MWh) performances. This is based on the assumption that we will continue to maintain our Quarter 1 energy consumption profile throughout the current financial year.

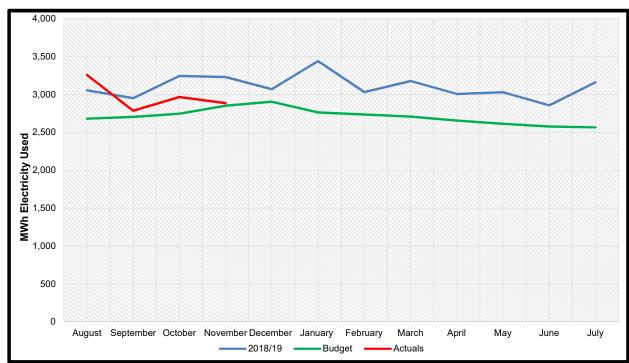
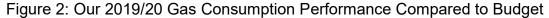
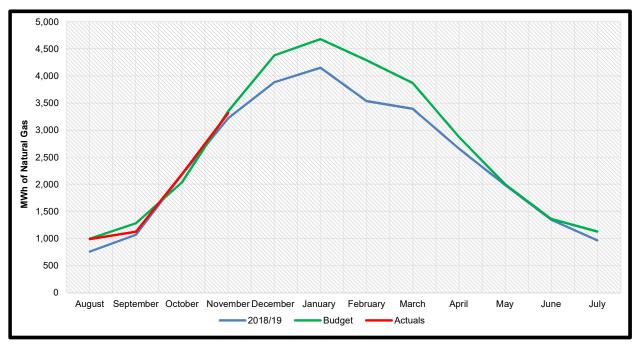


Figure 1: Our 2019/20 Electricity Consumption Performance Compared to Budget





Appendix 1 contain an overview of the projects that were funded via the Salix energy

efficiency loan scheme. An in-depth understanding of the individual and aggregate

performances of these energy efficiency projects will be used to access our

performance against our carbon reduction target and our 2019/20 energy budget.

Conclusions and Recommendations

That the Sustainability Committee should consider:

• This report for information and assurance purpose

Issues that should be escalated

Author (Position): Philip Tamuno (Head of Sustainability)

Date: 2 January 2019

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Appendix 1: Funded Salix Energy Efficiency Projects

Project Type	Description	Energy Type	Technology Type	Project Cost	Completion Date
Combine Heat and	CHP engine at	Electricity	Cogeneration CHP	£807,259	November 2019 (scheduled to
Power (CHP)	Charterhouse Square	and Gas			be commissioned in January
	(John Vane Centre)				2020
LED lighting	LED Lighting (Phase 2)	Electricity	T12/T8 to LED including new fitting	£206,158	Completed Jan 2019
BEMS - Remotely	Building Energy	Electricity	Building Management System	£608,739	Scheduled completion May /
managed	Management System	and Gas	(BMS)		June 2019. Completed
	(BEMS) – 5 Buildings				November 2019
LED lighting	LED Lighting (Phase 1)	Electricity	T12/T8 to LED including new fitting	£60,367	Completed December 2018
LED Lighting	LED Lighting (Phase 3)	Electricity	T12/T8 to LED including new fitting	£159,570	Completed June 2019
Loft Insulation	Loft Insulation (Maynard	Electricity	Insulation: Draught proofing	£17,956	Completed June 2019
	and Varey Houses)				
Insulation: Draught	Draught Excluding	Gas	Insulation: Draught Proofing	£43,484	Completed June 2019
Proofing	(Geography, Laws and				
	Queens)				
Boilers	Laws Boiler Projects	Gas and	Boilers replacement (combination)	£206,542	Main works completed, delays
		Electricity			due to asbestos. Completed
					November 2019
LED Lighting	LED Lighting (Phase 4)	Electricity	T12/T8 LED including new fittings	£28,859	Completed July 2019
Total Energy Efficiency Loan (From Salix)			£2,138,933		