Theme	Objective and target Description	Where (and who will this apply)	How (Actions required)	Who/Lead (responsible person)	When (Target Date)	Status
Emissions - Energy	Reduce carbon emissions to meet net-zero carbon emissions by 2050 (as a minimum) across scopes 1, 2 and 3.	Estates Directorate Procurement Department	Identify of range of energy programmes as required by the Carbon Management Plan Technical Group. e.g. Voltage Optimisation Programme, Sub-metering, PIR Installation, Insulation projects, CHP, Low Carbon Technologies. – Energy M&T Appointment of consultants to support development of bespoke net-zero carbon targets for QUB to cover scope 1, 2 and 3, carbon off-setting, climate change adaptation and associated costed action plan.  Establish baseline, identify target date for scope 1, 2 and 3, identify opportunities-costed and prioritised to achieve net-zero by set date.  Implementation and delivery of QUB Net-Zero Strategy	Head of Sustainability Energy Manager	September 2022 September 2022 December 2022 onward	<ul> <li>CHP units continue to operate efficiently at the Queen's Elms Site, DKB/Ashby Site, Main Site and Health Sciences Campus; Recurrent annual savings yielded from these initiatives is in the region of £950k.</li> <li>Additional minor works projects to the value of identified £160k identified and implemented.</li> <li>Significant Geothermal project installed at new Riddel Hall Business School – Pioneer project for Geothermal in NI.</li> <li>New Carbon Strategy currently being developed to align with new government target to achieve Net Zero Carbon by 2050 – this will cover scope 1,2 and 3 emissions; Carbon off setting; Carbon Adaptability. This is being taken forward by the Carbon Management Development Group.</li> <li>Procurement of consultancy services is in process.</li> <li>Feasiblity assessment underway for identification of demonstration/ pathfinder projects on QUB Main Site e.g. Maths and Physics Teaching Centre.</li> </ul>

Sustainability Engagement Programmes	Objective – deliver phased pilot lab sustainability programme across the university. Targets:	Implement Change Management initiatives.  Review current labs, identify new labs,	Head of Sustainability	Ongoing	A new sustainability program for labs has commenced for laboratories – LEAF. In 2021/22 12 Labs received Bronze Accreditation. Recruitment for 2022/23 will commence in
	<ul> <li>2021/22 (pilot phase) is 12 labs;</li> <li>2022/23 33% of all labs,</li> </ul>	launch in September 2022.	Environmental Manager  Project Support Officer (Sustainability)		September 2022 – aim to increase number of labs engaged in LEAF by 33. In the process of reviewing the range of labs present within Queen's University.
	<ul> <li>2023/24 66% of all labs,</li> <li>2024/25 100% of all labs.</li> </ul> Objective – development of a new				
	staff and student behaviour change programme to incentivise positive environmental behaviours.  Targets:  Implement a pilot sustainable reward scheme – commencing September 2022.  Target two is the development and pilot of Queen's Sustainability Accreditation Scheme – commencing November 2022.  Objective – increase carbon literacy	Review existing sustainability engagement programmes, identify key programme that will appeal to staff/students and launch in September 2022. Review sustainability criteria relevant to sustainability infrastructure, senior management engagement and engagement, create resources and launch in November 2022. Liase with key schools to ensure recruitment is achieved, promote to staff and set dates by September 2022. Deliver training in each Faculty via Carbon Literacy Champions – NBE (EPS) Management School (AHSS), School of Biological Sciences (MHLS) as well as	Environmental Graduate Intern		New pilot Sustainability Engagement Programme will be launched in September 2022. Pilot will be progressed with Accommodation (Elms Village) and key staff departments. Creation of a summary report has been created for review by the Change Management Committee.  Initial research into the creation of a Queen's Sustainability Accreditation Scheme has taken place, with a report following for review of the Change Management Committee.
	<ul> <li>levels across the University.</li> <li>Phase One - 2021/22 - delivery to 200 students.</li> <li>Phase two - 2022/23 - 500.</li> <li>Phase three - 2023/24 - 800.</li> </ul>	central course for staff and students outside this cohort.  Review current ELP, engage with key facilitators, recruit students and launch in October 2022.			Over 250 students and 34 staff trained during 2022/23 Discussions have been undertaken with relevant academic staff and dates will be agreed with facilitators (Keep Northern Ireland
	Objective – development of a rebranded Environmental Leadership Programme (Degree Plus Accredited).  • Roll out October 2022 with 25 students.	Update Green Fund resources, organise communications and launch in September and March (closes November and May)			Beautiful).
	Objective – Provide funding source for students and staff to delivery their own sustainability projects on campus  • Fund £20k of projects over 12 months between September 2022 and July 2023	Liaise with key schools to ensure engagement workshops have been planned for 2022/23 academic year. Update workshop resources.			Master Your Environmental Leadership Program was hosted in collaboration with Graduate School during 2021/22. 18 students participated and will qualify for Degree Plus. Research is currently being undertaken into restructuring/rebranding the programme for October 2022.
	Objective – Integrate sustainability activities within existing courses Engage with 200 students through existing courses by July 2023	Create calendar of events that includes key campaigns, engagement programmes, events, communication pieces.			University Green Fund will be re-launched for 2022/23 after it was put on hold for Covid. 42 projects funded to date.

	Objective – Undertake a rolling calendar of events, campaigns and communication pieces.  • Plan in place by September 2022.				Engagement activities include design challenges/employer challenges with the Graduate School (50 Students), MSc Construction Management (100 Students) and Natural and Built Environment (50 Students) will be undertaken during 2022/23.
					Awareness weeks included a mixture of online campaigns, events and in person activities. Awareness weeks promoted include Green Week, Fairtrade Fortnight and Active Travel Month. Web pages and ezine format updated and improved to increase engagement including alignment with the SDG's. Development of a 'sustainability corporate website' is currently ongoing.
Sustainable Design and Construction	Objective - Improve Sustainable Design and Construction of New Builds and Refurbishments.  Targets:  • Achieve BREEAM Excellent for New Builds >£1,000,000-	Use applicable BREEAM criteria for new builds and refurbishment projects from early design stage and integrate within design criteria, reporting progress at each RIBA stage.	Head of Sustainability Head of Estates Planning	Ongoing  September 2023 September 2022	7 BREEAM Excellent 6 BREEAM Very Good  Sustainability design and construction standards will be reviewed as part of the development of the next stage of the University carbon reduction strategy – including exploration of other standards – Passivhaus / SKA etc.
	ongoing  • Achieve BREEAM Very Good for Refurbishment — >£1,000,000  Objective - Embed net-zero carbon principles and requirements across all our design and construction specifications in line with forthcoming net-zero strategy requirements — September 2023.	Review the Sustainable Design Development Brief and develop an alternative appropriate process.  Recruit and appoint an Estates Manager Sustainable Construction to lead embedding of sustainable design and		Nov – Sept 2023 Dec 2022 onward	Recruitment for Estates Manager (Sustainable Construction) has commenced.
		construction principles across University projects.  Review and update of all applicable specifications integrating appropriate sustainable design standards.			
		Delivery of costed net-zero action plan - including development of sustainable design principles and standards.			

Waste	Objective - Increase percentage of	Estates	Improve use of existing recycling facilities	Estates Manager	Ongoing	Current recycling and recovery rate is 99.9% for Municipal General
waste Management	waste recycled and reduce volumes of waste generated – ongoing. Target:  • Maintain figure of 99% of waste diverted from landfill from July 2019 onwards.	Directorate for staff and students.  Extend waste streams which or recycled. This will include extern out of Food Waste, Ban the Bin Develop waste/resource strates economy strategy - May 2023	for staff and students.  Extend waste streams which can be recycled. This will include extending the roll out of Food Waste, Ban the Bin.  Develop waste/resource strategy/circular economy strategy - May 2023  Completion of waste audit/review across	(Environmental)  Assistant Estates Manager (Environmental)  Estates Manager	Ongoing	Waste i.e. 99.9% diverted from landfill.  Reviews/actions undertaken to increase recycling/decrease waste:  • Furniture donations to number of Charities/Schools/Clubs  -Oxfam, Habitat for Humanity and use of WARP IT.  • Review of current internal waste arrangements  undertaken to introduce improvements – improvements  actioned within Clinical A, Whitla Medical, University
			the Estate focus on high impact areas (integrate with student projects) – March 2023 Review consumables and align with waste audit to determine opportunities for eliminating/ reducing waste streams (including Single use Plastics and avoidable packaging) March 2023 Review and improve recycling bin provision and information in key areas - ongoing Roll out of the Queen's reusable '2 Go Cup' - August 2022.	(Environmental)  Assistant Estates     Manager     (Environmental)  Head of Campus     Food and Drink		<ul> <li>square (July 2023).</li> <li>Staff/ student working group established to review use of single-use plastics and identify opportunities for reduce single-use plastic across the University.</li> <li>Identify and action new waste streams - Review external recycling provision – maximise cardboard recycling (July 2023).</li> <li>Improve recycling signage of internal bins (September 2021). Future work on signage will include engagement with students via the new sustainability engagement programme – November 2022 (Waste Reduction Week).</li> <li>Working with staff and students to undertake waste projects with the aim to establish recommendations and actions that minimise waste production and bin contamination.</li> <li>Student project to review waste streams completed between Nov and June 2022 – identified need for further work on segregation of waste streams.</li> <li>Waste Management Contract tendered and awarded - focus on landfill diversion and contributing to circular economy.</li> </ul>

Travel and	Objective – Increase uptake of Estates	Implement the continual implement plan		2020/21	2018 demonstrated a reduction in staff dependence on single
Transport Transport	Sustainable Travel across the Directorate University	attached to the University Trave Plan	(Environmental)		occupancy car travel from 33.7% (2015) to 30.6% and a reduction
	Targets:	Appointment of consultants to support development of a Travel to Work Survey	Assistant Estates		from 16.4% (2015) to 13.4% in student travel.
	Travel to Work Survey will	and travel strategy.	Manager		2020 Travel Survey undertaken to inform next stage of the Travel
	take place in October 2022	Completion of Staff and Student Travel to	(Transport)		Plan: Reduce single occupancy car journeys by staff and students
	allowing up to date targets to	work surveys - October 2022	(Transport)		in accordance with Travel plan targets. 5% reduction in staff
	be established.	Undertake feasibility study to determine			travelling to the University by single-occupancy car journey by
	Creation of travel strategy for	cost and options for moving current fleet			2020/21.
	December 2022.	(25 vehicles to EV) – October 2022			5% reduction in students travelling to the University by single-occupancy car journey by 2020/21
	Maintain Cycle Friendly	Liase with internal communications to			Development of current plan under review considering COVID and
	Employer Accreditation Gold	promote the survey and strategy.			significant change of working / travel patterns, plus the universities
	– on going – 2022/23	Install at DKB,MBC and refresh at Admin building – December 2022			Net Zero aspirations.
	Objective - Increase cycling provision				Active travel has an appearance in party archinavith Dire Loop Dilege
	across campus via education,				Active travel hub on campus, in partnership with Big Loop Bikes,
	engagement and enhanced infrastructure.				was established and launched in September of 2021 – 30 bikes
	Targets:				leased, 45 recycled bikes sold, 400 bikes serviced.
	<ul> <li>Engage with external</li> </ul>				Range of events have taken place during Bike Week – 2xDr Bike
	providers to host 8 events by				Session, Cycle Security Marking, talk with Cycling UK. Four
	October 2022.				events are being planned for September/October time to tie in with
	<ul> <li>Provide additional cycling parking for a further 100</li> </ul>				the return of students. Events will include bike sales, cycle security
	bikes across the campus by				marking.
	June 2023.	3 additional locations identified for EV's -			In 2020/21 several cycle parking spaces were put in place - 60 in
	30 bikes leased to students	funding secured			MBC, 30 in Ashby, 34 in the main site.
	by December 2022 via hub				2021/22 there is a target to enhance number of cycle parking
	55 recycled bikes (increase	Work with key stakeholders to determine			spaces by 100. 20 spaces have been incorporated into the main
	of 20% on 2022 figure) sold	potential of a Belfast working group around Sustainable travel -November 2022			site. 80 remaining – June 2023
	by June 2023, 480 services	Continue to progress the Open Botanic			
	(increase of 20% on 2022	Project – e.g. Round table with key MLA's			Accreditation to Cycle Friendly Employer Accreditation – Gold
	figure) by July 2023	and councillors via Public Engagement -			Standard - first employer in the UK to achieve the standard Cycle + (Cycle to Work Scheme) in 2019. Awarded for 2021/22.
	Objective - Increase availability of	September 2022 (dependent on NI			Cycle + (Cycle to Work Scheme) in 2019. Awarded for 2021/22.
	EV Charging	Assembly returning)			
	Install 3 additional EV				
	Charging points across the				
	campus by December 2023				
	Objective - Engage with Translink				Range of public transport incentives and promotions by Translink
	and external stakeholders including				- monthly attendance on site - ongoing.
	Belfast City Council, Ulster University and Belfast Metropolitan College, to				Key awareness events (Bike to Work week, Bus and Train Week)
	make public transport a more				are promoted – range of events and online campaigns took place in June 2022.
	attractive option for staff and students				Promotion of the pedometer challenge – wellbeing and travel
	travelling to the University.				initiative – June 2022.
					Open Botanic project – working with School of Natural Built
					Environment and Public Engagement - proposal for a cycle lane
					on Botanic Ave. developed. Meeting with Minister to raise profile
					of the project. Now included within Bolder Vision for Belfast.

Biodiversity	Objective - Increase awareness of biodiversity amongst staff, students and the local community. Target:  • A minimum of 4 biodiversity events for staff and students to participate in – June 2023  • 6 communication pieces highlighting the biodiversity benefits of locations/plants/trees present within Queen's - testimonial from Queen's Gardeners (April to September 2023)	Estates Directorate	Identify opportunities for enabling staff & students to participate in biodiversity enhancement projects – 4 new opportunities academic year 2022/23.  Work with the gardening team to highlight the biodiversity present onsite via 6 communication pieces that will be promoted via several avenues – social media, newsletters.	Head of Sustainability  Estates Manager (Environmental)  Head Gardener  Project Support Officer (Sustainability)  Environmental Graduate Intern	Ongoing	A range of biodiversity hotspots have been created across the Estate as part of the wider Nurture and Grow programme - Lennoxvale Tree Nursery, Pharmacy Garden, Elms Village Allotment Garden, DKB Quad. Queen's university Belfast was a winner within the 2020 UK and Ireland Green Gown Awards. The formation of our next biodiversity hotspot includes the creation of a wildlife meadow at the Ashby Hill – October 2022.  A range of yearly biodiversity events and new initiatives will take place during the 2022/23 academic year:  • Community clean-ups – November 2022 and March 2023.  • Elms Allotment Workshops October 2022 and May 2023
	Objective – Maintain Green Flag for the university main site. Renewal – February 2023.					Green Flag and Green Heritage Award retained for the Lanyon Site. (Benchmark National Standard for public green spaces).
	Objective – Enhance the biodiversity found within Queen's campus.  Target:  Two new biodiversity opportunities identified and implemented each academic year – Ashby hill wildlife meadow creation and implementation of biodiversity survey initiative – June 2023.					
	Objective – Enhance Pollinators and native species across campus.  Targets:  • Maintain and uphold		Renew Green Flag application – February 2023			
	commitment to All Ireland Pollinator Plan - ongoing  • 2020/21 - 21 trees planted across the campus; >80 Linear metres hedge and >320 plants placed within Riddel Hall. 2021/22 - 11 trees planted across campus; >30 linear metres hedge planted; 50 plants.					Partners in the Million Trees for Belfast Initiative: 15 trees; >30 linear metres hedge; 50 plants.  No Mow areas - set aside as part of commitment to Pollinator Plan - Ashby Hill (Chlorine Gardens), DKB Quad and Riddel Hall Biodiversity Action Plan published October 2021.
			Liase with the Gardening Team and Students' Union to establish key opportunities and involvement.			
			Identify tree planting and pollinator opportunities throughout the campus.			

Water and discharges	Objective - Increase efficiency of water use via the use of borewells, rainwater harvesting technologies, monitoring and other water efficient technologies.  Objective – Fulfil legal requirements:  • Meet abstraction licence requirements for borewells at each location (as per licence).  • Meet water quality standards set at by drinking water inspectorate at each borewell location - ongoing  • Prevent pollution to local waterways – Compliance with Control of Pollution (Oil Storage) Regulations (Northern Ireland) 2010  • Comply with effluent consents as stipulated on licence requirements  Delivery of bund improvement/ gas conversion program at key locations  - Review all existing bunds and tanks by 30 September 2021  - Undertake improvements – by November 2022	Estates Directorate	Ensure necessary controls and monitoring are in place to ensure compliance.  Monthly monitoring - borewell usage at each location - ongoing  Monthly monitoring of water quality to comply with DWI requirements – ongoing as stipulated in licence  Completion of ongoing program – Bund improvements and maintenance	Estates Manager (Environmental)  Estates Manager Maintenance  Estates Minor Works	Ongoing	Borewells at several sites across campus – David Kerr Building, Elms Accommodation, Malone Playing Fields and Medical Biology Centre – completed.  Implementation of flow control devices, water metering and water efficient WCs and taps.  Pilot meter scheme with NI Water to minimise water leaks from source – due for completion December 2023.  Ongoing monitoring to comply with licencing requirements  Ashby/DKB bund replacement - completed  Program ongoing to update tanks and replace with gas where appropriate (under review in light of Net Zero commitment)
Community Involvement	Objective - Increase engagement and involvement of local residents with sustainability programmes, initiatives and events within Queen's. Target:  • Complete 3 community events during 2022/23	Estates Directorate	Identify opportunities to engage with the local community with the Grounds and Garden Team, Community Engagement and Handy Helpers (SU).	Head of Sustainability  Estates Manager (Environmental)  Head Gardener  Project Support Officer (Sustainability)  Environmental	Ongoing	Continuing to work with San Souci Residential Association via the Lennoxvale Tree Nursery and then by assisting them with their Malone Road Trees Project and Elms Village Sapling Planting event.  Community clean-ups – November 2022 and March 2023.  Participants in the Belfast Million Trees program.  Alley way transformation project - via Handy Helpers program.
Sustainable	Reduce emissions associated with	Procurement	Appointment of consultants to support	Graduate Intern Head of	Ongoing	Procurement of consultancy services is in process.
Procurement	Procurement Targets:  • Establishment of a baseline for procurement related emissions by July 2023.	Department Estates Directorate	development of bespoke net-zero carbon targets for QUB to cover scope 1, 2 and 3, carbon off-setting, climate change adaptation and associated costed action plan.	Sustainability Estates Manager (Energy) Senior Procurement	3 · · · 3	Suppliers to the University are being directed to register with and utilise NETpositive (or equivalent), a free tool that will help suppliers to create a simple sustainability action plan for their business. Ongoing review of progress against action plans will be undertaken at contract management meetings.

Ensure Supply Chain Awareness of expected Sustainability standards Targets:  Inclusion of Supply Chain Code of Conduct within all contract requirements - ongoing	Review and report on data available to the University to baseline scope 3 inventory – October 2022. This will include staff/student travel data.  Creation of a supply chain stakeholder map for scope 3 hotpots that will be included in Queen's Carbon Reduction Plan – November 2022.  Complete a review of and report on the most impactful actions currently being undertaken on Scope 3 by other organisations in the UK – November 2022.  Creation of a costed action plan including identifying supply chain hotspots and actions to support supply chain to reduce emissions – December 2022.  Development of action plan to support delivery of the Sustainable Food Policy – September 2022.		A Sustainable Food Policy and Sustainable Print Policy have been established - includes key sustainability procurement actions — report to senior management.  Plastic Working Group has been established and a key theme which is being addressed within the working group is procurement.  Procurement Department has drawn together various strands of responsible procurement into an overarching Supply Chain Code of Conduct which is applicable to all suppliers and links directly to the United Nations Sustainable Development Goals which sets out a blueprint to achieve a better and more sustainable future for all — published online and supplied to all significant suppliers.
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