

Completed energy, carbon & water projects 2023/24

Project Ref	Project description	Building(s)	Est kWh savings	Est tCO ₂ savings	Est annual savings	2023/24 Total Spend Inc VAT	Notes
UoR156	SportsPark - heat pump installation	SportsPark	n/a	n/a	n/a £	1,295,193	Works ongoing
UoR155a	DHN Optimisation - Edith Morley, Harry Nursten	Edith Morley, Harry Nursten	n/a	n/a	n/a £	45,160	Currently on hold
UoR163	Whiteknights electrical capacity review	Multiple	n/a	n/a	n/a £	38,651	
UoR136c	Data Centre partition	Maths/IT	n/a	n/a	n/a £	19,428	Works ongoing
UoR054d(i)	Sub-metering rollout	Multiple	n/a	n/a	n/a £	43,452	
UoR054d (ii)	Heat meter testing and replacement	Multiple	n/a	n/a	n/a £	54,981	
UoR164	Harry Nursden steam de-gassing	Harry Nursden	n/a	0	0 £	43,250	Feasibility & design
UoR035q	Recommissioning of lighting controls across multiple buildings	Multiple	n/a	0	0 £	4,414	
UoR166	Optioneering ofsite renewables - stage 2	Multiple	n/a	n/a	n/a £	52,465	Variety of options considered
UoR176	Induction Hobs	Main House	5,751	1	£ 1,337 £	10,630	£6.5k Sustainability contribution
UoR177	Industrial dishwasher replacement	Main House	4,388	1	£ 3,094 £	86,049	£26k Sustainability contribution 805 m3 water savings too
UoR035q(ii)	JIT lab lighting contribution	JJ Thomson	9,559	2	£ 3,094 £	7,675	Contribution for lighting upgrade
UoR167	Employ optimisation engineer for major energy using buildings	HLS and others TBC	n/a	n/a	n/a £	30,650	Implementation in future years
UoR168	Review of space utilisation for energy savings	Multiple	0	0	£ 150,000 £	-	
UoR169	Building insulation surveys and rollout	Multiple	0	0	£ 250,000 £	15,400	
UoR170	Smart TRV pilot and rollout	Estates, Archaeology, Agriculture	0	0	£ 100,000 £	93,876	
UoR171	Solar film pilot and rollout	Multiple	0	0	£ 20,000 £	60,085	
UoR172	Smart plugs pilot	Multiple	0	0	£ 40,000 £	27,282	
UoR173	Heating Hours Review	Multiple	0	0	£ - £	-	
UoR174	Energy efficient filters trial	Multiple	n/a	0	£ 40,000 £	2,504	
n/a	Behaviour change, comms, events	n/a	n/a	n/a	£ - £	-	Savings included in other lines
n/a	Compliance - energy & sustainability	n/a	n/a	n/a	n/a £	-	
TOTAL: £						335,481	

Proposed 2024/25 energy, carbon and water projects: Projects continuing from 2023/24

Project Ref	Project Description	Building(s)	Est kWh	Est tCO ₂	Est annual £	2024/25 spend
			savings	savings	savings	inc VAT
UoR155b	Energy Centre - heat pump installation	Energy Centre	5,313,000	1,359£	256,698	£2,000,000
UoR156	Sports Park - heat pump installation	SportsPark	515,684	94 £	93,237	£2,200,000
UoR136c	Data Centre partition	Maths/IT	40,000	8 £	10,000	£50,000
UoR054d	Sub-metering rollout	Multiple	n/a	n/a	n/a	£10,000
UoR054d	Heat meter testing and replacement	Multiple	n/a	n/a	n/a	£10,000
UoR164	Harry Nursden steam de-gassing	Harry Nursden	n/a	n/a	n/a	£80,000
UoR167	Health & Life Science energy optimisation	Health & Life Science	200,000	42£	44,000	TBC
UoR169	Loft space insulation rollout	Multiple	400,000	75 £	36,500	£180,000
UoR035q	Carrington lighting replacement	Carrington	40,000	8 £	10,000	£70,000

Planned New energy, carbon and water projects 2024/25

Project Ref	Project Description	Building(s)	Est kWh saving	Est tCO ₂ Saving	Est annual savings	2024/25 spend Inc VAT
UoR155c	Heat decarbonisation partner contractor appointment(s)	Multiple	n/a	n/a	n/a	n/a £ 100,000
UoR166	Optioneering for offsite renewables - IEA stage 2 study	Multiple	n/a	n/a	n/a	n/a £ -
TBC	Review operation & energy performance of eTRV system	Greenlands Main House				£ 20,000
TBC	Improved AHU inverter controls	Multiple				£ 20,000
n/a	Lab equipment upgrade/scrappage scheme	Multiple	10,000		2 £	1,500 £ 5,000
n/a	Low cost/re-active in-year opportunities for efficiency improvements				-	- £ 5,325
n/a	Behaviour change, comms, events	n/a			-	- £ 20,000
n/a	Compliance - energy & sustainability	n/a			n/a	n/a £ 24,500