

Completed energy, carbon & water projects 2022/23

Project Ref	Project description	Building(s)	Est kWh	Est tCO ₂	Est annual savings	2022/23 Total
			savings	savings		Spend Inc VAT
UoR155b	Energy Centre decarbonisation design	Energy Centre	-	-	-	-£ 168,223
UoR155b	Energy Centre decarbonisation borehole test drills	Energy Centre	-	-	-	-£ -
UoR156	SportsPark heat decarbonisation design	SportsPark	-	-	-	-£ 2,055
UoR140	Fume cupboard face velocities - review and reduction	Multiple	-	-	-	-£ 14,880
UoR141b	Improve loft insulation (inc pipework)	Edith Morley	98,053	18	£ 2,260	£ 38,770
TBC	Reconnect Chemistry hot water to DHN	Chemistry	-	-	£ -	£ 10,981
UoR164	Feasibility to de-gas Harry Nursten steam provision	Harry Nursten	-	-	-£ -	£ 4,752
UoR035p	RUSU Monterey Café LEDs	RUSU	3,494	1	£ 1,068	£ 7,138
UoR035p	Eat @ Square LEDs	Eat @ Square	20,000	5	£ 5,000	£ 30,923
UoR054d	Sub-metering rollout and new water meters	TBC	-	-	-£ -	£ 31,376
TBC	IEA Renewable energy optioneering study	Multiple	-	-	£ -	£ 18,940
UoR044j	Solar PV	Art	67,527	14	£ 4,052	£ -
UoR123b	Contribution to 30 no. Chemistry vacuum pumps	Chemistry	7,770	-	£ 14,000	£ 5,450
n/a	Low cost/re-active in-year opportunities for efficiency improvements	n/a	-	-	-£ -	£ 1,992
n/a	Behaviour change, comms, events	n/a	-	-	-£ -	£ -
n/a	Health & Life Science energy monitoring	HLS	-	-	-£ -	£ -
n/a	Compliance, consultancy	n/a	-	-	-£ -	£ -
TOTAL:						£ 335,481

Proposed 2023/24 energy, carbon and water projects: Projects continuing from 2022/23

Project Ref	Project Description	Building(s)	Est kWh savings	Est tCO ₂ savings	Est annual £ savings	2023/24 spend inc VAT
UoR155b	Energy Centre decarbonisation borehole test drills	Energy Centre	n/a	n/a	n/a	£600,000
UoR155b	Energy Centre - heat pump installation	Energy Centre	5,313,000	1,359t	256,698	£2,400,000
UoR156	Sports Park - heat pump installation	SportsPark	515,684	94 t	93,237	£2,115,300
UoR155a	DHN Optimisation - Harry Nursten	Edith Morley Harry Nursten		59 t	61,974	£250,000
UoR163	Whiteknights electrical capacity review	Multiple		n/a	n/a	£33,768
UoR136c	Data Centre partition	Maths/IT	40,000	8 t	10,000	£50,000
UoR165	Feasibility for grant-eligible heat decarbonisation projects	Multiple		n/a	n/a	£70,000
UoR054d	Sub-metering rollout	Multiple		n/a	n/a	£25,000
UoR054d	Heat meter testing and replacement	Energy Centre		n/a	n/a	£68,211
UoR164	Harry Nursden steam de-gassing	Harry Nursden		n/a	n/a	£90,000

Planned New Revenue energy, carbon and water projects 2023/24

Project Ref	Project Description	Building(s)	Est kWh saving	Est tCO ₂ Saving	Est annual savings	2023/24	
						spng	inc VAT
UoR035q	Carrington lighting replacement	Carrington	40,000	8	£	10,000	£70,000
n/a	Solar panel remedial action	Multiple	n/a	n/a	n/a	n/a	£20,000
UoR155c	Energy centre decarbonisation funding - phase 2 study	Energy Centre	n/a	n/a	n/a	n/a	£60,000
UoR035q	Recommissioning of lighting controls across multiple buildings	Multiple	80,000	12	£	20,000	£20,000
UoR166	Optioneering for offsite renewables - IEA study	Multiple	n/a	n/a	n/a	n/a	£25,000
TBC	Air Conditioning refrigerant gas phaseout	Multiple	n/a	TBC	TBC	TBC	TBC
n/a	Cheap/quick fix projects from Our Future First	Multiple	40,000	6	£	10,000	£19,500
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		-	-	-	-	£5,000
n/a	Behaviour change, comms, events	n/a	-	-	-	-	£26,500
n/a	Health & Life Science energy monitoring	n/a	-	-	-	-	£10,000
n/a	Compliance - energy & sustainability	n/a	-	-	-	-	£24,250
n/a	Utility billing forensic audit	n/a	-	-	-	-	-

Planned additional 'Our Future First' projects 2023/24

Project Ref	Project Description	Building(s)	Est tCo2 Saving	Est annual £ savings	2023/24 spend inc VAT
TBC	Review of energy in specialist science equipment	Multiple		£3,000	£10,000
UoR167	Employ optimisation engineer for major energy using buildings	HLS plus others TBC			£75,000
UoR168	Review of space utilisation for energy savings	Multiple		£150,000	£20,000
UoR169	Building insulation surveys and rollout	Multiple		£250,000	£240,000
UoR170	Smart TRV pilot and rollout	Estates, Archaeology plus others TBC		£100,000	£100,000
UoR171	Solar film pilot and rollout	Multiple		£20,000	£5,000
UoR172	Smart plugs pilot	Multiple		£40,000	£20,000
UoR174	Energy efficient filters trial	Multiple		£40,000	£20,000
UoR035q	Lighting switch off resource	Multiple		£20,000	£5,000
n/a	Temp resource to facilitate expanded project list	n/a			£12,500
UoR173	Heating operational hours review	Multiple		£350,000	-
TBC	Small power efficiency savings	Multiple		£20,000	-
n/a	Night-time energy audits	Multiple		-	£2,500
n/a	Reduced CHP run hours (summer 2024)	Energy Centre		-	£30,000