

Completed carbon & water projects 2020/21

Revenue funded

Project Ref	Project description	Building(s)	Est CO ₂ savings	Est annual £ savings	2020/21 spend inc VAT	Notes
UoR035i	Corridor lighting & controls	TOB2	16 £	9,351 £	45,420	
UoR035i	Corridor lighting & controls	URS	14 £	8,227 £	79,333	
UoR130b	IT server room - reduced cooling	Maths/IT	37 £	23,891 £	1,733	
UoR1306	IT server rationalisation	Maths/IT	83 £	53,662 £	- IT-funded	
UoR141a	Lag exposed heating pipework	Harry Nursten	5 £	1,074 £	9,891	
UoR044h	Solar PV	RUSU	29 £	18,724 £	105,302	
UoR122b	Whiteknights Energy Centre heat decarbonisation - feasibility	Energy Centre	n/a	n/a £	11,200	
UoR142	Heating, ventilation & air conditioning controls review	Hopkins	18 £	11,507 £	7,707	
UoR146a	Sub-metering rollout - Elec	W188, TOB1, TOB2, Carrington Sub, ICMA, Agric, Met, Harry Pitt	n/a	n/a £	16,795	
UoR146a	Sub-metering rollout - Mech	ICMA, Old Whiteknights House, Greenlands heat, Harry Nursten steam	n/a	n/a £	14,498	
UoR123b	Lab equipment upgrade/scrappage scheme	Multiple	1 £	776 £	3,600	Contribution to school purchases
UoR149b	Drying cabinet replacements	Multiple	11 £	7,086 £	32,260	
UoR154	Glasshouses growth lamps	Multiple	17 £	10,077 £	53,228	
n/a	Slimline CAF lab fume cupboard	JJ Thomson	4 £	1,489 £	11,666	Contribution to CAF lab project
UoR122d	Thermodynamic Energy Centre & District Heating model	n/a	n/a	n/a £	57,854	
Total:					£ 450,487	

Completed carbon & water projects 2020/21 (cont...)

Funded by Salix Finance's Public Sector Decarbonisation Fund

Project Ref	Project description	Building(s)	Est CO ₂ savings	Est annual savings	£ 2020/21 spend inc VAT	Notes
UoR139	Design for reconnection of Chemistry hot water to district heating network	Chemistry	n/a	n/a	£ 5,580	
UoR122b	Air source heat pump - heating replacement feasibility study	Estates, SportsPark, Cocoa Quarantine Unit	n/a	n/a	£ 44,346	
UoR044i	Rooftop PV installations	140 kWp solar - JJ Thomson	28	£ 18,405	£ 145,479	£39,987 paid by University
UoR101a	Lab ULT freezer upgrades	Hopkins, Harry Nursten, Miller	5	£ 3,490	£ 71,464	
UoR101b	Farms refrigeration upgrades	CEDAR Farm	1	£ 513	£ 18,176	
UoR101d	Lab refrigeration upgrades	Science labs	2	£ 1,358	£ 31,152	
UoR149	Lab drying cabinet upgrades	Wager, Harry Nursten, Hopkins, HLS, Russell, Chemistry	18	£ 11,507	£ 57,703	
UoR150	Catering oven upgrades	Whiteknights, Greenlands	67	£ 27,800	£ 185,394	
Total:					£ 553,714	

Planned carbon and water projects 2021/22

Revenue funded

Project Ref	Project description	Building(s)	Est CO ₂ savings	Est £ savings p.a.	Approx 2021/22 spend inc VAT
UoR140	Fume cupboard face velocity review	Pilot in one building	32 £	20,000 £	20,000
UoR139	Re-connect Chemistry hot water to district heating network	Chemistry	10 £	9,000 £	30,000
UoR035i	LED lighting & controls	TOB2/URS – completion of 2020/21 works	6 £	3,500 £	15,000
UoR035i	LED lighting & controls	CEDAR MGRU	6 £	4,000 £	25,000
TBC	Solar PV	Multiple – review of future opportunities	- £	- £	7,500
UoR122b	Whiteknights Energy Centre heat decarbonisation - feasibility	Energy Centre	-	- £	30,000
UoR155b	District heating connection - feasibility & design	Glasshouses, CEB, Cocoa Unit	-	- £	40,000
UoR156	ASHP retrofit design	SportsPark & SportsPavilion	-	- £	25,000
UoR122c	Water Source Heat Pump EPC solution	Greenlands	-	- £	20,000
TBC	Heating, ventilation & air conditioning controls improvements	Hopkins	20 £	12,000 £	70,000
n/a	Slimline CAF Lab fume cupboard	JJ Thomson	2 £	800 £	11,000
TBC	Lab equipment upgrade/scrappage scheme	Multiple	2 £	1,000 £	5,000
n/a	Low cost/re-active in-year opportunities for efficiency improvements		-	- £	9,011
n/a	Behaviour change, comms, events	n/a	-	- £	21,468
n/a	Health & Life Science energy monitoring	n/a	-	- £	10,000
Total:					£ 338,979

Further revenue funding is allocated to support delivery of the Salix grant-funded projects overleaf

**Actually completed late 2020/21, so funds will be re-allocated*

Planned carbon and water projects 2021/22

Funded by Salix Finance's Public Sector Decarbonisation Fund

Project Ref	Project description	Building(s)	Est CO ₂ savings	Est annual £ savings	Approx 2021/22 spend Inc VAT	Notes
UoR145	Elec BMS improvements	Harry Pitt, Met/Psych, Meteorology, Agriculture	6 £	3,409 £	36,220	
UoR145	Heating BMS improvements	Hopkins, Harry Pitt, Met/Psych, Meteorology, Agriculture	10 £	2,149 £	42,353	
UoR044i	Rooftop PV installations	SportsPark, Meteorology, Agriculture, Psychology, Harry Pitt, Archaeology, Energy Centre	99 £	59,369 £	411,899	
UoR146	Metering improvements	12 Whiteknights buildings	-	- £	45,000	
UoR035l	Lighting upgrades	London Rd campus	45 £	27,177 £	421,446	<i>£106,949 UoR contribution</i>
UoR035k	Lighting upgrades	Whiteknights campus (3 buildings)	107 £	64,452 £	644,008	<i>£71,526 UoR contribution</i>
UoR035j	Lighting upgrades	Greenlands Henley Business School	60 £	36,230 £	448,131	<i>£71,526 UoR contribution</i>
UoR035m	Studio Lighting	Minghella Studio Lamps	13 £	7,791 £	170,743	<i>£37,291 UoR contribution</i>
UoR147	Heating pipework improvements	URS	76 £	15,549 £	308,000	<i>£30,000 UoR contribution</i>
UoR148	Heating pipework improvements	Greenlands Main House	56 £	12,987 £	336,000	<i>£44,000 UoR contribution</i>
UoR141c	Pipework insulation	Greenlands + other ad hoc plant rooms	70 £	12,269 £	61,491	
UoR151	AHU replacements	Harry Nursten & URS internal pipework	26 £	15,315 £	118,762	
UoR152	AC replacements	Multiple - as identified in TM044	12 £	7,113 £	62,262	
UoR152	AC Insulation	Multiple - as identified in TM044	4 £	2,671 £	7,761	
UoR101c	Farms refrigeration upgrades	CEDAR Farm	54 £	32,590 £	105,000	
UoR153	Elec capacity upgrade	Greenlands	n/a	n/a £	3,000	
Total:				£ 3,222,075		<i>£361,291 UoR contribution</i>