



University Carbon Reduction League Table
Performance to date by HEFCE funded institutions
April 2014

University carbon reduction: analysis and league table

Analysis overview and key findings

To help meet the UK Government's carbon reduction targets set out in the Climate Change Act, the Higher Education Funding Council for England (HEFCE) developed a sector reduction strategy in 2011. It required Higher Education Institutions (HEIs) to develop carbon reduction targets for 2020 and carbon management plans to achieve them.

We are now half way through the reduction period and Brite Green has undertaken a review to determine the individual performance of all HEFCE funded HEIs and the sector as a whole, and have forecast likely future reductions out to 2020.

The results show that the sector is currently on track to only achieve half of its target reduction of 43% by 2020. Only 44 of the 126 HEIs reviewed are set to achieve their reduction targets and many are likely to significantly increase emissions.

This league table outlines historic performance of all HEFCE funded HEIs from 2005 to 2012/13 (the most recent year where data is available), ranking HEIs on percentage emission changes.

Detailed reports are also available for each individual HEI and the sector as a whole which analyse reductions to date and likely future trends.

Recommendations for HEIs

Our analysis suggests that HEIs should review and update their carbon management plans to ensure they are still fit for purpose and able to achieve the carbon reduction targets.

We have outlined 5 key recommendations for HEIs:

1. Review energy use and emissions reductions to date and assess how effective the initiatives that have been implemented have been. Have they achieved the expected reductions?
2. Review how successful the carbon management plan implementation has been including why any initiatives failed or were not implemented,
3. Assess whether your plan is aligned with your commercial strategy, taking into account expected growth in student numbers and property footprint,
4. Review any new carbon reduction opportunities,
5. Update your carbon management plan incorporating lessons learned and any new abatement opportunities, and reforecast emissions profile out to 2020.

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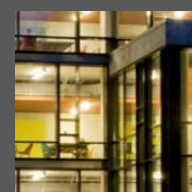
Brite Green has examined carbon reduction performance amongst the HEIs in England based on the percentage change in their emissions from 2005 to 2012/13 (the most recent year where data is available).

The emissions data used in this analysis was sourced from the 2013/14 Higher Education Statistics Agency (HESA) estates management record and the University emissions baselines and targets were provided by the Higher Education Funding Council for England (HEFCE).

Sector and Institution Reports

Detailed reports are available for all HEFCE funded Universities and Colleges.

Contact us to request a copy or to understand more about how we can help you to review and update your carbon management plan.



Carbon reduction league table

Rank	University	2020 carbon reduction target (%)	2005 baseline tCO ₂	2012/13 total tCO ₂ e	2020 target emissions	% change from 2005 to 2013
Decrease in CO₂ emissions						
1	Lancaster University	48	29,131	15,572	15,148	-46.54
2	Harper Adams University College	43	3,414	1,858	1,946	-45.58
3	The University of Reading	43	29,080	15,859	16,576	-45.46
4	Buckinghamshire New University	50	6,975	3,844	3,488	-44.89
5	University of Cumbria	45	9,978	5,531	5,488	-44.57
6	The University of Bradford	50	14,048	8,062	7,024	-42.61
7	Rose Bruford College	32	960	562	653	-41.44
8	The University of Salford	43	19,902	12,137	11,344	-39.01
9	Guildhall School of Music and Drama	30	2,116	1,295	1,481	-38.82
10	City University	48	12,446	7,792	6,472	-37.39
11	Aston University	48	16,964	10,813	8,821	-36.26
12	Bath Spa University	50	4,003	2,614	2,002	-34.71
13	The University of Southampton	20	51,878	33,894	41,502	-34.67
14	The University of Bolton	30	4,945	3,290	3,462	-33.47
15	London Metropolitan University	48	12,796	8,678	6,654	-32.18
16	The University of Plymouth	43	12,645	8,584	7,208	-32.12
17	The University of Greenwich	43	14,633	9,999	8,341	-31.67
18	Staffordshire University	48	16,056	11,024	8,349	-31.34
19	Middlesex University	20	9,421	6,471	7,537	-31.32
20	School of Oriental and African Studies	48	2,812	1,951	1,462	-30.64
21	Royal Holloway and Bedford New College	48	15,514	10,777	8,067	-30.53
22	London South Bank University	35	11,511	8,015	7,482	-30.37
23	The University of West London	34	5,252	3,676	3,466	-30.01
24	University of Gloucestershire	40	4,895	3,487	2,937	-28.77
25	The University of Liverpool	36	56,235	40,382	35,990	-28.19
26	St Mary's University College	34	4,026	2,922	2,657	-27.42
27	Nottingham Trent University	48	21,162	15,522	11,004	-26.65
28	Manchester Metropolitan University	50	24,774	18,280	12,387	-26.21
29	Brunel University	48	25,582	18,981	13,303	-25.80
30	The University of Wolverhampton	40	17,610	13,083	10,566	-25.71
31	Liverpool John Moores University	25	15,066	11,202	11,300	-25.65
32	De Montfort University	43	13,150	9,858	7,496	-25.04
33	Norwich University College of the Arts	20	1,072	809	858	-24.56
34	The University of Lincoln	48	10,917	8,409	5,677	-22.97
35	The University of Sunderland	48	12,441	9,591	6,469	-22.91
36	Leeds Metropolitan University	34	19,134	14,905	12,628	-22.10

37	Trinity Laban Conservatoire of Music and Dance	50	1,860	1,462	930	-21.40
38	London Business School	26	4,275	3,371	3,164	-21.16
39	Birmingham City University	48	16,918	13,353	8,797	-21.07
40	University College Plymouth St Mark and St John	20	3,309	2,621	2,647	-20.79
41	Cranfield University	50	19,334	15,376	9,667	-20.47
42	Royal Northern College of Music	25	1,755	1,397	1,316	-20.41
43	Royal Academy of Music	75	1,299	1,038	325	-20.11
44	The University of Bath	43	25,606	20,534	14,595	-19.81
45	The University of Birmingham	20	62,067	49,775	49,654	-19.80
46	Writtle College	30	3,074	2,469	2,152	-19.68
47	Keele University	38	13,803	11,290	8,558	-18.21
48	Courtauld Institute of Art	20	928	761	742	-18.00
49	The University of Leeds	35	69,445	57,063	45,139	-17.83
50	Newman University College	50	1,395	1,156	698	-17.16
51	Bournemouth University	40	7,685	6,382	4,611	-16.96
52	Loughborough University	48	29,503	24,537	15,342	-16.83
53	Sheffield Hallam University	30	14,903	12,420	10,432	-16.66
54	Open University	36	16,230	13,727	10,387	-15.42
55	The University of East London	22	8,750	7,470	6,825	-14.63
56	York St John University	34	4,848	4,150	3,200	-14.39
57	The University of Northampton	43	7,944	6,826	4,528	-14.07
58	Royal Agricultural University	35	1,700	1,462	1,105	-14.02
59	London School of Hygiene and Tropical Medicine	50	3,583	3,110	1,792	-13.21
60	The University of Teesside	34	9,136	7,939	6,030	-13.10
61	Southampton Solent University	33	7,800	6,810	5,226	-12.70
62	Liverpool Hope University	43	5,848	5,116	3,333	-12.51
63	Central School of Speech and Drama	40	638	561	383	-12.14
64	Imperial College London	34	85,069	75,738	56,146	-10.97
65	The University of Kent	23	17,907	15,944	13,788	-10.96
66	University of London	20	14,800	13,198	11,840	-10.83
67	University of Hertfordshire	43	23,306	21,017	13,284	-9.82
68	The University of Sussex	34	22,174	20,090	14,635	-9.40
69	Conservatoire for Dance and Drama	22	2,490	2,268	1,942	-8.90
70	Royal College of Art	30	2,386	2,177	1,670	-8.76
71	Institute of Education	50	2,667	2,440	1,334	-8.52
72	Bishop Grosseteste University	48	1,194	1,099	621	-8.00
73	Goldsmiths College	50	6,354	5,896	3,177	-7.21
74	King's College London	22.5	44,954	41,843	34,839	-6.92
75	Oxford Brookes University	50	14,515	13,636	7,258	-6.06
76	London School of Economics and Political Science	57	14,484	13,686	6,228	-5.51
77	The University of Essex	35	18,056	17,081	11,736	-5.40
78	The University of Portsmouth	43	15,063	14,450	8,586	-4.07
79	The University of Nottingham	34	62,036	59,512	40,944	-4.07
80	The University of Hull	34	19,258	18,499	12,710	-3.94
81	The University of Bristol	35	48,668	47,049	31,634	-3.33

82	University of Chester	43	9,486	9,225	5,407	-2.75
83	Birkbeck College	33	3,888	3,782	2,605	-2.73
84	University of Durham	43	33,483	32,948	19,085	-1.60
85	The University of Westminster	40	12,434	12,251	7,460	-1.47
86	The University of Central Lancashire	48	15,401	15,323	8,009	-0.50
87	University College London	34	56,687	56,493	37,413	-0.34
Increase in CO₂ emissions						
88	Roehampton University	40	6,718	6,724	4,031	0.10
89	The University of Newcastle-upon-Tyne	43	43,869	44,006	25,005	0.31
90	The University of York	48	25,032	25,256	13,017	0.89
91	The University of Huddersfield	30	8,641	8,720	6,049	0.91
92	The University of Winchester	43	3,484	3,524	1,986	1.15
93	Queen Mary University of London	34	24,255	24,793	16,008	2.22
94	The University of Exeter	28	24,857	25,529	17,897	2.70
95	Coventry University	40	12,758	13,169	7,655	3.22
96	The University of East Anglia	60	21,967	22,913	8,787	4.31
97	University of the Arts London	48	12,787	13,355	6,649	4.44
98	The Liverpool Institute for Performing Arts	25	809	851	607	5.14
99	Anglia Ruskin University	50	8,456	8,944	4,228	5.77
100	The University of Cambridge	34	71,235	75,772	47,015	6.37
101	Kingston University	35	12,137	12,991	7,889	7.04
102	The University of Chichester	29	2,747	2,959	1,950	7.73
103	University of the West of England	22.5	14,952	16,149	11,588	8.00
104	Ravensbourne College of Design and Communication	50	1,302	1,408	651	8.15
105	The University of Oxford	33	65,980	71,434	44,207	8.27
106	The Institute of Cancer Research	22	6,846	7,418	5,340	8.35
107	University of Bedfordshire	48	6,540	7,101	3,401	8.58
108	Leeds Trinity University College	43	1,846	2,033	1,052	10.12
109	The University of Brighton	42	10,464	11,559	6,069	10.46
110	University of Derby	27	8,182	9,063	5,973	10.77
111	Edge Hill University	5	5,601	6,245	5,321	11.50
112	The Arts University Bournemouth	43	1,344	1,507	766	12.15
113	The University of Leicester	60	29,297	33,453	11,719	14.18
114	Canterbury Christ Church University	48	6,941	8,026	3,609	15.63
115	The University of Warwick	60	47,288	55,209	18,915	16.75
116	The University of Northumbria at Newcastle	32.5	16,215	19,357	10,945	19.38
117	Heythrop College	5	750	908	713	21.12
118	University of Worcester	36.8	3,726	4,581	2,355	22.96
119	The University of Manchester	48	62,066	78,885	32,274	27.10
120	The University of Sheffield	43	33,871	43,515	19,306	28.47
121	Royal College of Music	34	867	1,116	572	28.68
122	St George's Hospital Medical School	34	7,630	10,772	5,036	41.18
123	Royal Veterinary College	25	4,590	6,783	3,443	47.78

124	The University of Surrey	34	13,725	24,476	9,059	78.33
125	University College Birmingham	34	2,257	4,232	1,490	87.49
126	Falmouth University	1	2,044	4,012	2,024	96.29

Notes

The following HEIs were excluded from this analysis:

The School of Pharmacy:	<i>No 2013 data available.</i>
Leeds College of Art:	<i>No specified carbon reduction targets.</i>
Leeds College of Music:	<i>No specified carbon reduction targets.</i>
Liverpool Institute for Performing Arts:	<i>No specified carbon reduction targets.</i>
University Campus Suffolk:	<i>No specified carbon reduction targets.</i>
University for the Creative Arts:	<i>No 2005 baseline data available.</i>



About us:

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Brite Green is an award winning sustainability strategy consultancy which specialises in delivering enhanced business value through improved sustainability performance.

We have considerable experience in carbon and environmental management in Universities, including carbon management plan design and implementation.

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