



**STREAMLINED ENERGY
CARBON REPORT
2019/20**



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Each year NCG is required to produce the SECR report that details our scope 1,2 & 3 emissions.

For the last academic year 2019/20 this is how NCGs emissions as a whole looked:

Scope 1				
	2019/20	Specific Exclusions	% of activity data that is estimated	2018/19
Gas	3506.67	None	0	3788.59
Fugitive	134.51	None	0	254.16
Fleet vehicles	24.30	None	0	28.03
LPG	43.47			55.46
Total	3708.95			4126.24

Scope 2				
	2019/20	Specific Exclusions	% of activity data that is estimated	2018/19
Electricity	2856.33	None	0.23%	3585.56

Scope 3				
	2019/20	Specific Exclusions	% of activity data that is estimated	2018/19
Business travel	136.64	None	0	210.32
Grey Fleet	140.26	None	0	512.1
Total	276.9	None		722.42

* All figures are measured in tonnes of CO₂e

Total CO₂e for NCG:

6842.18 tonnes



Down by 1592.04 tonnes

18.88%
reduction



Scope 1			
	2019/20	2018/19	% Difference
Gas	116.26	146.70	-20.75
Fugitive	10.44	0	+100
Fleet vehicles	3.66	4.81	-23.90
Total	130.36	151.51	-13.96

Scope 2			
	2019/20	2018/19	% Difference
Electricity	198.90	249.02	-20.13

Scope 3			
	2019/20	2018/19	% Difference
Grey Fleet	3.51	4.88	-28.07

* All figures are measured in tonnes of CO₂e

Total CO₂e for
Carlisle College:

332.77 tonnes



Down by 72.64 tonnes

17.91%
reduction



Scope 1			
	2019/20	2018/19	% Difference
Gas	108.09	117.28	-7.84
Fugitive	0	0	0
Fleet vehicles	1.49	3.41	-56.30
Total	109.58	120.69	-9.21

Scope 2			
	2019/20	2018/19	% Difference
Electricity	153.78	215.17	-28.53

Scope 3			
	2019/20	2018/19	% Difference
Grey Fleet	10.20	21.01	-51.45

* All figures are measured in tonnes of CO₂e

Total CO₂e for
Kidderminster College:

273.56 tonnes



Down by 83.31 tonnes

23.34%
reduction

LEWISHAM COLLEGE

Scope 1			
	2019/20	2018/19	% Difference
Gas	1260.29	919.24	+37.10
Fugitive	0	0	0
Fleet vehicles	4.49	4.17	7.67
Total	1264.78	923.41	

Scope 2			
	2019/20	2018/19	% Difference
Electricity	655.30	822.05	-20.28

Scope 3			
	2019/20	2018/19	% Difference
Grey Fleet	0.33	3.21	-89.72

* All figures are measured in tonnes of CO₂e

Total CO₂e for
Lewisham College:

1920.41 tonnes



up by 171.74 tonnes

9.82%
increase



Scope 1			
	2019/20	2018/19	% Difference
Gas	1529.21	3797.93	-59.74
Fugitive	124.07	200.92	-38.25
Fleet vehicles	13.59	14.18	-4.16
Total	1666.87	4013.03	-58.46

Scope 2			
	2019/20	2018/19	% Difference
Electricity	1371.97	1686.62	-18.66

Scope 3			
	2019/20	2018/19	% Difference
Grey Fleet	65.35	91.68	-28.72

* All figures are measured in tonnes of CO₂e

Total CO₂e for
Newcastle College:

3104.19 tonnes



Down by 2687.14 tonnes

46.40%
reduction



Scope 1			
	2019/20	2018/19	% Difference
Gas	200.34	262.53	-23.69

Scope 2			
	2019/20	2018/19	% Difference
Electricity	208.21	274.17	-24.06

Scope 3			
	2019/20	2018/19	% Difference
Grey Fleet	0.37	0.91	-59.34

* All figures are measured in tonnes of CO₂e

Total CO₂e for
Newcastle Sixth Form
College:

408.92 tonnes



Down by 128.69 tonnes

23.94%
reduction

SOUTHWARK COLLEGE

Scope 1			
	2019/20	2018/19	% Difference
Gas	90.27	77.77	+16.07
Fugitive	0	0	0
Fleet vehicles	0	0	0
Total	90.27	77.77	

Scope 2			
	2019/20	2018/19	% Difference
Electricity	138.85	215.05	-35.43

Scope 3			
	2019/20	2018/19	% Difference
Grey Fleet	0	0	0

* All figures are measured in tonnes of CO₂e

Total CO₂e for
Southwark College:

303.12 tonnes



Down by 63.70 tonnes

-21.75%
reduction



**West
Lancashire
College**

Scope 1			
	2019/20	2018/19	% Difference
Gas	186.90	196.74	-5.00
Fugitive	0	53.24	-100
Fleet vehicles	1.06	1.44	-26.39
Total	187.96	251.42	-25.24

Scope 2			
	2019/20	2018/19	% Difference
Electricity	108.63	146.62	-25.91

Scope 3			
	2019/20	2018/19	% Difference
Grey Fleet	6.53	14.53	-55.06

* All figures are measured in tonnes of CO₂e

Total CO₂e for
West Lancashire
College:

303.12 tonnes



Down by 109.45 tonnes

26.53%
reduction

Business Travel

	2019/20	2018/19	% Difference
Air	63.64	67.86	-6.22
Train	41.13	77.03	-46.60
Hotel	31.87	64.33	-51.46
Total	136.64	209.22	-34.69

Intensity Ratios

	Total tonnes CO ₂ e	CO ₂ e per square meter	CO ₂ e per average FTE employee
Scope 1	3762.95	0.0133	1.5517
Scope 2	2856.33	0.0101304	1.1778
Scope 3	251.29	0.0008912	0.1036
Total	6870.57	0.02435	2.8332

Environmental improvements

- LED (Light emitting diode) roll out across colleges through revenue budgets being installed gradually.
- EV (electric vehicle) charging points installed at Newcastle College to encourage staff and students to adopt electric vehicles.
- Continued roll out of AMR/HH meters that are integrated with energy management software
- Mothballing and closure of buildings that are no longer required along side better utilisation of space.
- Move to agile/home working for staff that this is appropriate for reduced travel through the use of MS Teams for UK wide communication.

Appendicies

Methodology

Total Square meters: 281,956

Total average employees 2425

Conversion factors used:

Electricity	0.2556
Gas	0.1836
Mileage	0.30088
Petrol	2.30531
Diesel	2.68779
Diesel Generator	0.26910

Above conversion factors supplied from DEFRA (https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/806025/Conversion-Factors-2019-Condensed-set-for-most-users.xls)

- Data collected from a mixture of profile and invoice data for Gas and Electricity this has been collated via an energy management software system.
- Owned Transport figures have been based on data from CO₂ certificates from our fuel card providers.
- Grey fleet figures based on the number of miles claimed through our expenses then converted using DEFRA conversion factor for average petrol and diesel combined.

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www.kidderminster.ac.uk
www.lewisham.ac.uk
www.newcastlecollege.co.uk
www.newcastlesixthformcollege.ac.uk
www.southwark.ac.uk
www.westlancs.ac.uk