



**STREAMLINED ENERGY  
CARBON REPORT  
2020/21**

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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 2020/21 this is how NCG's emissions as a whole were:

<b>Scope 1</b>				
	<b>2020/21</b>	<b>Specific Exclusions</b>	<b>% of activity data that is estimated</b>	<b>2019/20</b>
Gas	2892.34	None	0	3506.67
Fugitive	202.73	None	0	134.51
Fleet vehicles	12.02	None	0	24.30
Liquefied petroleum gas (LPG)	35.27	None	0	43.47
<b>Total</b>	<b>3142.36</b>			<b>3708.95</b>

<b>Scope 2</b>				
	<b>2020/21</b>	<b>Specific Exclusions</b>	<b>% of activity data that is estimated</b>	<b>2019/20</b>
Electricity	2521.90	None	0.35%	2856.33

<b>Scope 3</b>				
	<b>2020/21</b>	<b>Specific Exclusions</b>	<b>% of activity data that is estimated</b>	<b>2019/20</b>
Business travel	12.63	None	0	136.64
Grey Fleet	36.08	None	0	140.26
T&D	201.53	None	0	230.04
<b>Total</b>	<b>250.24</b>	None		<b>506.94</b>

\* All figures are measured in tonnes of CO<sub>2</sub>e

Total CO<sub>2</sub>e for NCG:

5914.49 tonnes



down by 1592.04 tonnes

18.88%  
reduction



<b>Scope 1</b>			
	<b>2020/21</b>	<b>2019/20</b>	<b>% Difference</b>
Gas	130.95	116.26	+12.64
Fugitive	0	10.44	-100
Fleet vehicles	1.43	3.66	-60.93
<b>Total</b>	<b>132.38</b>	<b>130.36</b>	<b>+1.55</b>

<b>Scope 2</b>			
	<b>2020/21</b>	<b>2019/20</b>	<b>% Difference</b>
Electricity	182.16	198.90	-8.42

<b>Scope 3</b>			
	<b>2020/21</b>	<b>2019/20</b>	<b>% Difference</b>
Grey Fleet	0.66	3.51	-81.20

\* All figures are measured in tonnes of CO<sub>2</sub>e

Total CO<sub>2</sub>e for  
Carlisle College:

315.2 tonnes



down by 17.57 tonnes

5.28%  
reduction



<b>Scope 1</b>			
	<b>2020/21</b>	<b>2019/20</b>	<b>% Difference</b>
Gas	110.99	108.09	2.68
Fugitive	0	0	0
Fleet vehicles	0.89	1.49	-40.27
<b>Total</b>	<b>111.88</b>	<b>109.58</b>	<b>2.10</b>

<b>Scope 2</b>			
	<b>2020/21</b>	<b>2019/20</b>	<b>% Difference</b>
Electricity	126.70	153.78	-17.61

<b>Scope 3</b>			
	<b>2020/21</b>	<b>2019/20</b>	<b>% Difference</b>
Grey Fleet	1.70	10.20	-83.33

\* All figures are measured in tonnes of CO<sub>2</sub>e

Total CO<sub>2</sub>e for  
Kidderminster College:

240.28 tonnes



down by 33.28 tonnes

12.17%  
reduction

# LEWISHAM COLLEGE

Scope 1			
	2020/21	2019/20	% Difference
Gas	1005.04	1260.29	-20.25
Fugitive	28.38	0	+100
Fleet vehicles	3.50	4.49	-22.05
<b>Total</b>	<b>1036.93</b>	<b>1264.78</b>	<b>-18.01</b>

Scope 2			
	2020/21	2019/20	% Difference
Electricity	599.62	655.30	-8.50

Scope 3			
	2020/21	2019/20	% Difference
Grey Fleet	0.04	0.33	-87.88

\* All figures are measured in tonnes of CO<sub>2</sub>e

Total CO<sub>2</sub>e for  
Lewisham College:

1636.59 tonnes



down by 283.82 tonnes

14.78%  
reduction



<b>Scope 1</b>			
	<b>2020/21</b>	<b>2019/20</b>	<b>% Difference</b>
Gas	1226.57	1529.21	-19.79
Fugitive	174.35	124.07	40.53
Fleet vehicles	4.44	13.59	-67.33
<b>Total</b>	<b>1405.36</b>	<b>1666.87</b>	<b>-15.69</b>

<b>Scope 2</b>			
	<b>2020/21</b>	<b>2019/20</b>	<b>% Difference</b>
Electricity	1145.12	1371.97	-16.53

<b>Scope 3</b>			
	<b>2020/21</b>	<b>2019/20</b>	<b>% Difference</b>
Grey Fleet	27.36	65.35	-58.13

\* All figures are measured in tonnes of CO<sub>2</sub>e

Total CO<sub>2</sub>e for  
Newcastle College:

2577.84 tonnes



down by 526.35 tonnes

16.96%  
reduction



<b>Scope 1</b>			
	<b>2020/21</b>	<b>2019/20</b>	<b>% Difference</b>
Gas	212.76	200.34	6.20

<b>Scope 2</b>			
	<b>2020/21</b>	<b>2019/20</b>	<b>% Difference</b>
Electricity	202.25	208.21	-2.86

<b>Scope 3</b>			
	<b>2020/21</b>	<b>2019/20</b>	<b>% Difference</b>
Grey Fleet	0.34	0.37	-8.11

\* All figures are measured in tonnes of CO<sub>2</sub>e

Total CO<sub>2</sub>e for  
Newcastle Sixth Form  
College:

415.35 tonnes



up by 6.43 tonnes

1.57%  
reduction



# SOUTHWARK COLLEGE

Scope 1			
	2020/21	2019/20	% Difference
Gas	85.60	90.27	-5.17
Fugitive	0	0	0
Fleet vehicles	0	0	0
<b>Total</b>	<b>85.60</b>	<b>90.27</b>	<b>-5.17</b>

Scope 2			
	2020/21	2019/20	% Difference
Electricity	162.25	138.85	16.85

Scope 3			
	2020/21	2019/20	% Difference
Grey Fleet	0	0	0

\* All figures are measured in tonnes of CO<sub>2</sub>e

Total CO<sub>2</sub>e for  
Southwark College:

247.85 tonnes



down by 55.27 tonnes

-18.23%  
reduction



**West  
Lancashire  
College**

<b>Scope 1</b>			
	<b>2020/21</b>	<b>2019/20</b>	<b>% Difference</b>
Gas	153.15	186.90	-18.06
Fugitive	0	0	0
Fleet vehicles	1.76	1.06	66.04
<b>Total</b>	<b>154.91</b>	<b>187.96</b>	<b>-17.58</b>

<b>Scope 2</b>			
	<b>2020/21</b>	<b>2019/20</b>	<b>% Difference</b>
Electricity	92.60	108.63	-14.76

<b>Scope 3</b>			
	<b>2020/21</b>	<b>2019/20</b>	<b>% Difference</b>
Grey Fleet	1.10	6.53	-83.15

\* All figures are measured in tonnes of CO<sub>2</sub>e

Total CO<sub>2</sub>e for  
West Lancashire  
College:

248.61 tonnes



down by 54.51 tonnes

17.98%  
reduction

# Business Travel

	<b>2020/21</b>	<b>2019/20</b>	<b>% Difference</b>
Air	0	63.64	-100
Train	2.08	41.13	-94.94
Hotel	6.17	31.87	-80.64
<b>Total</b>	<b>8.25</b>	<b>136.64</b>	<b>-93.96</b>

# Intensity Ratios

	Total tonnes CO <sub>2</sub> e	CO <sub>2</sub> e per square meter	CO <sub>2</sub> e per average FTE employee
Scope 1	3142.36	0.012	1.59
Scope 2	2521.90	0.0096	1.28
Scope 3	241.99	0.0009	0.12
<b>Total</b>	<b>5906.24</b>	<b>0.0225</b>	<b>3.00</b>

# Environmental Improvements

- LED (Light emitting diode) roll out across colleges through revenue budgets being installed gradually.
- Approval of an Environmental Strategy with the aim of cutting emissions from scope 1 & 2 by 50% by the year 2030.
- Building shut down procedures to ensure energy use is kept to a minimum when buildings are not in use.
- Introduction of agile working and MS teams to reduce need for business travel.

# Appendicies

## Methodology

Total Square meters: 262,622

Total average employees 2425

Gas	0.18316	kWh
Electricity	0.21233	kWh
Average car (unknown fuel)	0.27596	miles
Diesel	0.27108	Litres
Petrol	0.28053	Litres
Propane/LPG	1.55709	Litres
Water supply	0.149	Cubic M
Water Waste	0.272	Cubic M
Electricity T&D	0.01879	kWh

<https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2021>

- 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.

NCG  
Rye Hill House  
Scotswood Road  
Newcastle upon Tyne  
NE4 7SA

Tel: +44 (0) 191 200 4000  
Fax: +44 (0) 191 200 4517  
[www.ncgrp.co.uk](http://www.ncgrp.co.uk)

VISIT OUR WEBSITES

[www.carlisle.ac.uk](http://www.carlisle.ac.uk)  
[www.kidderminster.ac.uk](http://www.kidderminster.ac.uk)  
[www.lewisham.ac.uk](http://www.lewisham.ac.uk)  
[www.newcastlecollege.co.uk](http://www.newcastlecollege.co.uk)  
[www.newcastlesixthformcollege.ac.uk](http://www.newcastlesixthformcollege.ac.uk)  
[www.southwark.ac.uk](http://www.southwark.ac.uk)  
[www.westlancs.ac.uk](http://www.westlancs.ac.uk)