

Streamlined Energy and Carbon Report (SECR) 2021-22

DN COLLEGES GROUP

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Humber Energy Skills Training Academy

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Introduction

This is the first Streamlined Energy and Carbon Report (SECR) produced by DN Colleges Group for the financial year 1st August 2021 to 31st July 2022. Prior year comparative information has been provided where it is available, and the College recognises it needs to improve its data collection for future reporting periods.

As we improve our data collection we will set and report on interim targets to ensure we are on track for achieving net zero carbon emissions by 2050.

The Companies (Directors Report) and Limited Liability Partnership (Energy and Carbon Report Regulations 2018) implement the Governments policy on Streamlined Energy and Carbon Reporting.

Whilst the College sits outside of the scope of the 2018 Regulations, the College has voluntarily prepared this report as it is designed to increase awareness of energy costs, provide data to support the adoption of energy efficiency measures and to help organisations to reduce their impact on climate change. The report will also provide greater transparency for stakeholders.

Our Sustainability Approach

Sustainability is embedded within our Group Strategic Plan 2020-23 with the strategic objective:

Cultivate and drive forward an ambitious whole college approach towards net-zero emissions and reducing environmental impact through innovation and collaboration.

To deliver this objective, the following actions have been identified:

- Positively engage staff and students in developing the College's sustainability agenda and embed climate responsibility into strategic planning, governance and staff development
- Deliver carbon literacy training to staff and students and train teaching staff to incorporate sustainability into the curriculum for all courses.
- Develop and promote recycling, reduce energy use and implement renewable energy and reduce emissions from travel to and from College sites.
- Identify and work with key partners, suppliers and communities to improve sustainable options and local biodiversity.
- Collect carbon footprint data and implement and develop measures and targets to monitor and promote sustainability achievements.

The Group established a Sustainability Group who meets regularly to review sustainability performance along with reviewing performance against actions identified in the Sustainability Strategy and Action Plan.

The Sustainability Groups remit includes:

- To actively lead and promote the College's response to the climate crisis.
- To positively engage staff and students in developing the College's sustainability agenda.
- To identify, plan and implement a series of suitable initiatives to improve the College's environmental impact towards net zero emissions.
- To develop and maintain a sustainability plan for Senior Leadership Team approval and review.
- To develop suitable measures and targets that enable progress against sustainability initiatives to be monitored and reported.
- To actively engage with external stakeholders to develop and support the College's sustainability agenda.
- To review and recommend relevant policies and procedures.
- To be a vehicle for sharing and celebrating good practice.
- To identify and promote internal and external communications that support and challenge the College's sustainability agenda.

The Sustainability Strategy and Action Plan focuses on the following key themes:



Carbon Summary

The chosen intensity measurement ratio is total gross emissions in metric tonnes CO₂e per staff member, the recommended ratio for the sector.

In recent years the data is skewed due to the impact of Covid-19. The baseline period for all future target setting will be 2018-19. The Group has achieved a 19% reduction is C02e compared to the 2018/19 baseline, with a significant reduction in both Scope 1 and Scope 2 emissions. It is worth noting that this reduction also occurred at a time when the Group obtained and moved into a new building, University Campus North Lincolnshire (UCNL), a 5,112 sqm. Premises.

	2018/19	2019/20	2020/21	2021/22
Scope 1 emissions in metric tonnes CO ₂ e				
Gas Consumption	859	812	852	856
College Owned Transport	104	67	19	47
Total Scope 1	964	879	871	903
Scope 2 emissions in metric tonnes CO ₂ e				
Purchased Electricity	1,286	1,101	962	905
Total Scope 2	1,286	1,101	962	905
Scope 3 emissions in metric tonnes CO ₂ e				
Water	21	18	4	5
Waste	-	-	40	4
Business Travel in employee-owned vehicles	38	29	28	59
Paper	32	23	12	17
Total Scope 3	91	70	84	85
Total gross emissions in metric tonnes CO ₂ e	2,340	2,050	1,917	1,894
Number of Staff (Headcount)	1,146	1,297	1,212	1,191
Intensity Ratio				
Tonnes CO ₂ e per member of staff	2.04	1.58	1.58	1.59

Total gross emissions in metric tonnes CO,e



% Reduction compared to 2018/19



Total C0,e by Academic Year

Key: Total Scope 1 Total Scope 2 Total Scope 3





Initiatives taken in the period: -

- Using BMS systems to control building conditions more efficiently.
- Space utilisation monitored.
- Continued use of capital funding to help refurb areas across sites.
- Ground Source Heat Pump now in use at North Lindsey College providing heating and hot water to both John Oddell and Alan Jackson buildings.
- PV panel array now providing electricity to the ETC building.
- Low carbon heating, hot water and solar panel projects being planned across campuses.
- We were successful in a bid for £1.3m of capital funding to improve the condition of Doncaster College
- We have submitted bids for Salix capital funding to improve both UCNL and Doncaster College



North Lindsey

Solar panels were installed in late May of 2022 which have generated 44Mwh of electricity which has been used to offset the energy use in the Engineering Technology Centre.

A ground source heat pump has been added to provide heat and hot water to 2 of our teaching blocks and is currently being commissioned, we anticipate carbon savings compared to the gas boilers that were supplying these 2 buildings.

As part of the summer works in 2021 some areas of lights were replaced and LED installed, we are planning rolling replacements across the areas that will be retained after the DfE projects has been completed.

Doncaster

Our mechanical engineer in conjunction with our BMS contractor has ensured that the BMS system has been set to 19 degrees C in our buildings as well as trimming the hot water schedule to ensure operations don't suffer but energy is saved where possible.

During non-term times there are far fewer staff and students on site, we shut down much of the plant apart from in areas where we know people are still using the space.

The chillers have been scheduled off using the BMS and will run on the 28th of each month. This is to identify any faults and to prevent seizure of equipment. The reasons for the chillers being an option was due to the high-power usage (approximately 148kw per phase and two chillers when duty for both is required) this will also power down the pumps used on each circuit at around 60kw total as well as the condensers used to cool the refrigerant gases. Instead of using the chillers to provide comfort temperatures for heating overshoot at this time of year we are going to use the outside air temperature via the AHU's. The rooms that this may take longer to control the temperatures are rooms such as the VFX computer rooms and small high occupancy rooms with no openable windows outside.

Gas boilers are now scheduled from 08:00hrs until 15:00hrs this is to heat the building on a trial basis to see how long the building can retain its heat. We understand that going further into winter this may change but previously the heating topped itself up until 17:30hrs. The only exception we have on this schedule is for an additional 30 minutes on Monday mornings after the weekend.

We have replaced lighting controllers in various places which had failed and meant that areas were not switching off when they should. More lighting sensors may be needed to replace ones that have failed, and we are planning rolling replacements for the lights not replaced with LED in the summer works last year.

The Building Management System has been optimised to run the whole building as efficiently as possible following an £80,000 upgrade project.

Annual Electricity Consumption

Annual Electricity Consumption (kWh)

Campus	2018/19	2019/20	2020/21	2021/22
Doncaster College	3,387,596	2,629,205	2,689,621	2,959,475
North Lindsey College	1,326,666	1,361,899	1,323,423	1,516,300
High Melton	362,482	580,269	377,816	-
UCNL	N/A	215,620	195,447	260,098
Stainforth	34,815	11,923	15,014	17,822
Total kWh	5,111,559	4,798,916	4,601,321	4,753,695
Total Expenditure (£)	£735,759	£655,747	£719,974	£838,028

Annual Gas Consumption

Annual Gas Consumption (kWh)

Campus	2018/19	2019/20	2020/21	2021/22
Doncaster College	2,328,552	2,169,734	1,914,571	1,698,235
North Lindsey College	2,359,186	1,536,572	2,382,579	2,267,699
High Melton	N/A	N/A	557	-
UCNL	N/A	725,319	373,464	788,674
Stainforth	59,929	55,923	56,321	72,022
Total kWh	4,747,667	4,487,548	4,727,492	4,826,630
Total Expenditure (£)	£158,718	£114,651	£268,832	£159,197

Annual Electricity Consumption (CO₂e)

Campus	2018/19	2019/20	2020/21	2021/2
Doncaster College	852	603	562	563
North Lindsey College	334	313	277	289
High Melton	91	133	79	-
UCNL	N/A	49	41	50
Stainforth	9	3	3	3
Total Tonnes CO ₂ e	1,286	1,101	962	905

Annual Gas Consumption (CO,e)

Campus	2018/19	2019/20	2020/21	2021/22
Doncaster College	421	393	345	301
North Lindsey College	427	278	430	402
High Melton	N/A	N/A	-	-
UCNL	N/A	131	67	140
Stainforth	11	10	10	13
Total Tonnes CO ₂ e	859	812	852	856

Annual Electricity Consumption (kWh per m²)

Campus	2018/19	2019/20	2020/21	2021/22
Doncaster College	95	74	76	83
North Lindsey College	51	52	51	58
High Melton	22	35	23	-
UCNL	N/A	42	38	51
Stainforth	53	18	23	27
Total (kwH per m²)	221	222	211	220

Annual Gas Consumption (kWh per m2)

Campus	2018/19	2019/20	2020/21	2021/22
Doncaster College	65	60	53	47
North Lindsey College	91	59	92	87
High Melton	N/A	N/A	-	-
UCNL	N/A	142	73	154
Stainforth	74	69	69	89
Total (kwH per m2)	230	329	286	377



Doncaster

The Hub Building has a grey water system which allows us to store a large amount of rainwater which is then filtered and used in the toilet system. This stops us from using the metered mains water supply to flush all the toilets across the site.

Fitted to the urinals are water saving devices which use an enzyme to keep the pipes clear of uric scale without the need to continually flush the urinals with water.

North Lindsey

We have started a trial on an enzyme system to lower the water usage on urinals. Similar to the system already in place at Doncaster but located in the gent's toilet in the ETC building.

This system is also being trialled at UCNL.

Initial results look like there will be a considerable water saving.

Annual Water Consumption (m³)

Campus	2018/19	2019/20	2020/21	2021/22
Doncaster College	8,781	6,593	3,701	4,551
North Lindsey College	9,394	7,746	4,502	5,352
High Melton	1,754	1,667	213	-
UCNL	N/A	733	526	1,640
Stainforth	N/A	N/A	N/A	N/A
Total m3	19,929	16,739	8,942	11,543
Total Expenditure (£)	£75,632	£85,812	£74,600	£88,287

Annual Water Consumption (CO₂e)

Campus	2018/19	2019/20	2020/21	2021/22
Doncaster College	9	7	2	2
North Lindsey College	10	8	2	2
High Melton	2	2	0	0
UCNL	N/A	1	0	1
Stainforth	N/A	N/A	N/A	N/A
Total Tonnes CO ₂ e	21	18	4	5



We are currently working on raising awareness and exploring ways to change behaviour on all sites as we transition away from general waste to recycling.

We are increasing glass recycling at The Hub and also introducing dry mixed recycling at Stainforth.

We are developing links with the Student Parliament to actively seek students' ideas and collaborative initiatives.

We are exploring the possibility of strategically placed recycling points around the busiest points in college to encourage further recycling.

A new waste management contract was awarded in 2021/22 which has significantly reduced the amount of waste going to Landfill, with the majority of waste now recycled or sent for incineration and subsequent generation of energy.

Annual Waste (Tonnes)

Campus	2020/21	2021/22
Doncaster College		
Landfill Waste	30	-
Diverted from Landfill Waste	72	36
Recycled Waste	-	36
Total Waste	102	73
North Lindsey College		
Landfill Waste	49	4
Diverted from Landfill Waste	80	67
Recycled Waste	-	21
Total Waste	129	92
UCNL		
Landfill Waste	-	-
Diverted from Landfill Waste	4	10
Recycled Waste	-	-
Total Waste	4	10
Stainforth		
Landfill Waste	2	-
Diverted from Landfill Waste	-	1
Recycled Waste	-	-
Total Waste	2	1
Total Landfill Waste (Tonnes)	81	4
Total Diverted Waste (Tonnes)	156	114
Total Recycled Waste (Tonnes)	-	57
Total Waste (Tonnes)	237	176
Total Tonnes CO ₂ e	40	4



To reduce travel between the two main College sites, we have introduced a shuttle bus operating daily for staff to us, that helps address the cost of travel for staff and reduce Scope 3 emissions.

We have commenced onboarding a provider of Electric Vehicles to offer as a salary sacrifice scheme for staff which is due to be implemented by November 2023.

We are awaiting delivery of some replacement electric vehicles for the Group's owned fleet. Unfortunately, due to current lead times we have had to extend current fleet leases, but as the opportunity arises all vehicles will be replaced by an electric equivalent vehicle.

Microsoft Teams is now embedded as the default approach to holding meetings to minimise travel where appropriate.

	2018/19	2019/20	2020/21	2021/22
Mileage				
Group Owned Vehicles	366,400	243,054	67,398	172,558
Employee-Owned Vehicles	132,595	105,954	101,698	214,540
Total Miles Travelled	498,995	349,008	169,096	387,098
Tonnes CO ₂ e Emissions				
Group Owned Vehicles	104	67	19	47
Employee-Owned Vehicles	38	29	28	59
Total Tonnes CO ₂ e	142	96	47	106





Paper consumption data is taken from our multi-function devices. We will improve this data in the future to include all paper purchased by the Group.

We purchase paper with Labels and Certification from sustainably manged forests and controlled sources and suppliers committed to neutralising their carbon footprint and recycle all paper in recycle bins situated around the college. Recycled paper can be recycled up to 4 times.

We order in bulk not only to NLC campus but to all the outreach areas to reduce transport footprint and jointly purchase for both NLC and DC where appropriate.

All our printers have' follow me print' on them to save paper being wasted and all proofs are sent via pdf. On-line printing is encouraged instead of hard copies.

Any paper waste is either made into pads for offices or given to the nursery for the children. Shredded paper is given to Animal Care for the animals.

Paper consumption

	2018/19	2019/20	2020/21	2021/22
Paper consumption				
Sheets	7,223,714	5,111,706	2,790,653	3,572,350
Trees Consumed	90	64	35	49
Tonnes CO ₂ e Emissions	32	23	12	17





We planted over 300 trees across the North Lindsey Campus, this was done in conjunction with students, apprentices and even children from the on-site nursery. The tree species were all native to the UK and will help sequester carbon from the atmosphere for years to come. As well as the carbon offset benefits it will provide natural spaces and habitats for native species.

Illustrative plans are being developed for a potential living roof at Doncaster Campus.









Initiatives and recycling adopted at DN Colleges Group:-

- **Coffee Grinds** Coffee Grinds from ALL our coffee outlets are a natural plant fertilizer, are great for fending off slugs or snails & can help create a compost pile. Waste coffee grinds are available for planting to staff and students.
- Food Waste Some of our raw food waste goes to feed our onsite animals, whilst the rest of our waste is used for recycling. Working in conjunction with the Hospitality & Catering Teams at all sites and a company called Re-Food, our waste is collected each week. We use the Doncaster based company who then process our waste food through their Anaerobic Digestion facility which creates renewable energy as well as Re-Grow, a nutrient rich fertiliser
- **Packaging** We separate our cardboard, tins & plastic waste from our general waste & ensure it's disposed of correctly.
- **Oil** The waste oil from our fryers is collected by Olleco, a waste oil company, who then turn this waste oil into biofuel.
- **Napkins** Our napkins are a single ply paper napkin which is unbleached & using less refined paper which is better for the environment. We encourage our customers to only take one napkin.

- **Stirrers** We use wooden stirrers in all our coffee outlets. Wooden stirrers are renewable, however, they cannot be recycled. Our previous plastic stirrers were too small to be sorted & went into general waste.
- **Straws** In our coffee shops, we have replaced plastic straws with paper ones. We also encourage our customers to bring their own reusable straw
- Water Harrogate Water is our preferred brand. Having changed its bottles so they contain 50% recycled plastic & all materials used by Harrogate Water are 100% recyclable
- **Reusable Cups** Our coffee bars offer a discount for using your own reusable cup with a lid. This is a standard offer every time you use your own cup. We often have promotions available for you to purchase a reusable cup from us, complete with a hot drink.
- Recycling Machine We use a company called Options Management & we use a recycling can & bottle machine from them. The can/bottle is crushed which is then collected & recycled into high quality fibreboard

- Bulk Buying for example, we use cereals as part of our Free Breakfast. We don't purchase individual boxes, creating more waste. We bulk buy & portion into dishes. We no longer use single use sauce sachets. Preferring to, again, purchase bigger bottles & allowing customers to serve themselves
- **Suppliers** We changed our sandwich supplier to one that promotes 100% sustainable plastic free packaging. It uses a plastic free transparent film that biodegrades over a 12 month period.
- **Disposables** a small range of our products are served in pots with lids. These are a compostable pot. They are made from plant based recycled materials. When disposed of it breaks down in a manner that is kinder to the environment than plastic. These containers used for food can also be utilised by Re-Food as part of their processing facility. The Starbucks hot cups are made from 10% post-consumer recycled fibre. As a company Starbucks are planning many environmentally friendly initiatives which we hope to participate in as part of the 'We Proudly Serve' Starbucks in house brand.



We are already actively involved in the sustainability agenda with our current students. Currently, the Group offers qualifications and including study programmes and apprenticeships that have a sustainability focus or include relevant content including HESTA, Animal **Care, Motor Vehicle and Siemens Gamesa** /Construction. In addition, we have developed and launched a new Level 2 **Certificate in Understanding Climate Change and Environmental Awareness** that is aimed at employers who want to upskill the knowledge of their workforce in relevant job roles. In addition, we are taking advantage of a range of externally funding projects funded by the Skills **Accelerator Programmes and Skills Development Fund are focused on the** sustainable construction agenda and green technologies.



Sustainability is also embedded into our Enrichment offer for students where students take part in projects and volunteering activities to support our local environment working with various third sector organisations. We work in partnership with Forest Schools where we arrange and facilitate events and activities with children from local schools and nurseries that connect them with their natural environment and allows the children to take risks in their play which enables our teachers and staff to learn new skills and ways of working with children using natural resources. We also work with our student representatives and Student Parliament to obtain rich student voice into how we can become a more sustainable. College.

Looking to the future we are currently launching a refreshed approach to curriculum development in the longer term and revising a current Curriculum Vision, strategy and blueprint to include embedding carbon literacy and sustainability to include a wider range of support and training for our teaching teams to enable them to develop a better understanding of environmentally sustainable practices for work and life for all our students. This will enable our students to be more aware of and practically equipped to make good decisions around environmental and sustainability issues for their future life and work; the curriculum in construction and engineering in particular will be further developed to make a clear and distinct 'green skills' offer aligned to attractive jobs in the local economy including: Modern Construction Methods, Sustainable Construction Skills.

To support renewable energy and environmental engineering we have an ambition to ensure the college's buildings and infrastructure are developed and managed in a way to minimise their environmental impact and are used to enhance the teaching and learning of green skills. To enable this vision we are working with the City of Doncaster Council on developing a number of Centres of excellence which will all be underpinned by green technologies where appropriate.



We were successful in being awarded FE capital transformation funding to improve the roof and fabric of the building at Doncaster, and a replace the main campus building at North Lindsey College in Scunthorpe. This is over £30m in funding with the projects due to commence in the summer of 2023. We have submitted also bids for Salix funding to improve the carbon footprint of our Doncaster and UCNL premises.

We are in the process of establishing 'Green' investment deposit accounts.



The College continues to build links with local and regional sustainability groups, to share best practice, influence local and regional initiatives and attend networking opportunities. Activity in the year included:-

- Contribute attend and influence the DMBC Environment and Sustainability Network and core partner in workshops
- Participate in Team Doncaster Initiatives

 Volunteering opportunities for staff and students in local initiatives in Doncaster and the surrounding area
- Attendance Humber Climate Conference

Methodology

We have followed the 2019 HM Government Environmental Reporting Guidelines. We have also used the GHG Reporting Protocol - Corporate Standard and have used the 2021 UK Government's Conversion Factors for Company Reporting.

The chosen intensity measurement ratio is total gross emissions in metric tonnes CO_2e per staff member, the recommended ratio for the sector.

Emissions have been calculated and reported in accordance with their individual scope and classification resulting predominantly from acting as supporting infrastructure for the delivery of the College's core activities of teaching and learning, with a small contribution which could be deemed applicable to commercial activity.

The electricity and gas energy use were compiled from invoices. Where invoices were unavailable, the data was extrapolated to cover the missing period (pro-rata method) or based on historic consumption for a similar period (direct comparison method). In circumstances where recorded data is not available a justifiable method of estimation has been applied based on the context of use and end user knowledge.

Transport fuel expressed as energy consumption and highlighted as kWh output refers to a calculated contribution from in house fleet vehicles, where known engine capacity, recorded mileage and estimated use has been used.

Scope 3 emissions (business travel) calculated in metric tons of CO_2e have been based on an overall mileage figure taken from staff mileage claims paid within the qualifying period using the appropriate conversion figure.