



education  
training  
collective



# STREAMLINED ENERGY AND CARBON REPORTING

AUGUST 2021 - JULY 2022





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The Education Training Collective (Etc.) is a group of vibrant colleges and training providers offering high quality educational opportunities in the North East of England. Incorporating Bede Sixth Form College, NETA Training Group, Redcar and Cleveland College, Stockton Riverside College and The Skills Academy, the Group has an estate of over 41,260 m<sup>2</sup>, and served c12,000 learners during the 2021-22 academic year.

The Etc. acknowledges it has a continued responsibility to improve sustainability. Throughout the reporting period, the Etc. has committed to recognising and seeking to reduce the impact it has on the environment, and to enable staff and students to do the same.



## GREEN INITIATIVES GROUP

Comprising more than 30 members of staff, the Green Initiatives Group is both a vehicle and a driver for reducing the impact that the group has on the environment. With sub-groups including Staff Engagement, Student Engagement, Waste, Energy, Procurement and Travel, the volunteers create annual action plans which seek to improve environmental impact through a combination of education and process change. The main group meets bi-monthly and sub-groups on a more frequent basis. The group introduced an Environmental award at the annual staff awards in April 2022 (postponed from December 2021 due to COVID) which celebrated the department which has best embraced the green agenda and delivered the biggest positive impact. This award category was welcomed by staff and continues to feature in the annual staff awards.

Initiatives launched by the Green Initiatives Group include:

- Staff litter pick
- Medicine packaging and crisp packaging recycling/repurposing
- Bike to work trial in conjunction with Stockton Borough Council
- Creation and implementation of an environmentally focused procurement strategy

# **CARBON FOOTPRINT REPORT FOR EDUCATION TRAINING COLLECTIVE - 01 AUGUST 2021 TO 31 JULY 2022**

The Etc. emitted 748,684kgCO<sub>2</sub> e (Kilogrammes of carbon dioxide equivalent) for 2021/22 (across scope 1 and 2). This can be presented as 749 tCO<sub>2</sub> e (tonnes of carbon dioxide equivalent) with an intensity indicator of 1.48 tCO<sub>2</sub> e per total full-time equivalent employee (FTE). When Scope 3 is added, this brings the total to 774 tCO<sub>2</sub> e.

The Group employs 728 people (504 expressed as full-time equivalents (FTE)).

Table 1. UK GHG emissions and energy use data for period 01 August 2021 to 31 July 2022.

Emissions source	Units	kWh	Carbon (kgCO <sub>2</sub> e)	Carbon (tCO <sub>2</sub> e)
Scope 1				
Van diesel (average up to 3.5 tonnes)	70,212 km	67,771	16,932.44	16.93
Natural gas	334,868 m <sup>3</sup>	-	676,885.43	676.89
Total Scope 1			693,818	694
Scope 2				
UK National Grid electricity	258,400 kWh	258,400	54,866.07	54.87
Total Scope 1 & 2			748,684	749
Total tCO <sub>2</sub> e per *FTE on gross scope 1 & 2				1.48
Total tCO <sub>2</sub> e per employee on gross scope 1 & 2				0
Emissions source	Units	kWh	Carbon (kgCO <sub>2</sub> e)	Carbon (tCO <sub>2</sub> e)
Scope 3				
Average car (Unknown fuel)	114,154 km	79,564	19,575.19	19.58
Water supply	23,317 m <sup>3</sup>	-	3,474.23	3.47
Commercial and industrial waste (Recycled)	71 tonnes	-	1,503.65	1.50
Paper and board: Mixed (Recycled)	22 tonnes	-	477.25	0.48
Total Scope 3			25,030	25
Total Scope 1, 2 & 3			773,714	774
Total tCO <sub>2</sub> e per *FTE on gross scope 1, 2 & 3				1.53
Total tCO <sub>2</sub> e per *£m Turnover on gross scope 1, 2 & 3				0
Adjustments				
Green tariff electricity	349,687 kWh	349,687	0.00	0.00

\*Notes: For 01 August 2021 to 31 July 2022 the number of Full-time equivalent employees (FTE) was 504 and the Turnover was GBP UNKNOWN

## ENERGY EFFICIENCY MEASURES TAKEN

- Developed and implemented an Environmental Strategy, approved by the FE Corporation, tracking progress against the Climate Commission for UK Higher and Further Education Climate action roadmap for FE colleges. Tracking against the “Climate action roadmap for FE colleges” we are acknowledged as ‘established’ and through a focused approach to driving positive environmental change cross-group, we seek to become a leading college in terms of sustainability.
- The Etc. has committed to the Investors in the Environment Standard, achieving Silver accreditation in July 2021 and continuing this into 2022. Investors in the Environment (iE) is a national environmental accreditation scheme designed to help organisations across the UK reduce their impact on the environment, save money and time, and get promoted for their green credentials. Having commenced at bronze level and recently achieving and maintaining silver, the Etc. continues to drive change to achieve the green standard (top level) as soon as possible.
- The Etc. has committed to the procurement of electricity from 100% green sources (as can be seen from the data). Other renewable sources of energy are employed by the group, including the use of Bio-mass heating systems.
- Through financial support of projects in the renewable sector, the group became the first college group in the North East to be certified as carbon neutral.
- The improvement of environmental impact at departmental level was embedded into our Business Planning/ Performance Review cycle last year. This been adopted as a permanent addition to the process. The cycle is a series of scrutiny meetings which take place throughout the year and hold Heads of Department to account for the Intent, Implementation and Impact of green initiatives.
- The development of the ‘Thrift Exchange’ which provides a vehicle for the recycle and repurpose of unwanted clothing, this has now launched ‘pop-up’ branches cross-group.
- The group continues to be a signatory of the Global Climate Letter.
- Sustainability is embedded into the curriculum delivery and through our curriculum planning and performance review processes, we are checking all departmental plans for the embedding of curriculum content. Good examples include:
  - Foundation Learning students have a 2-hour Green Initiative session timetabled each week covering topics such as: Global Warming, Plastic Pollution and Upcycling / Recycling. As part of their practical activities they have worked with the local authority to complete a beachcomber litter pick and have commenced plans to build a greenhouse made from recycled plastic bottles.
  - Pastorally, the group has themed tutorials on Green issues during the academic year, which allows them to address climate change and make pledges to change the future. This session also addresses the need for sustainable consumption and production as this is a link to climate change.



- Students have worked with number of environmental organisations as part of their curriculum enrichment offer including sustainability consultants Evora Global, utilities company Yorkshire Water to assess their own behaviours.
- The college group responded to the Green Initiatives Group's request to further incorporate green issues into the enrichment programme resulting in a "wildlife defenders" seminar working with the local police force. This was attended by approximately 40 students. Its aim was to raise awareness of legislation protecting the UK's wild animals and plants, which can push species closer to extinction, and help prevent and tackle wildlife crime.
- Foundation Skills students are part of the House of Lords Environment and Climate Change Committee's youth engagement programme.
- Prince's Trust Achieve Tutors work with Schools groups across Tees Valley on Forest School and Beach school sessions with our staff. They learn to appreciate their environment and undertake activities in their outdoor spaces.
- Prince's Trust community projects focus on improving spaces and community areas. A recent example is our Catterick Team undertaking an environmental project where they built a polytunnel, cleared overgrown areas and made spaces for community environmental projects.
- A number of academic courses address the issue of disaster risk reduction and biodiversity. Within the A Level Geography curriculum students study in both Year 12 and Y13 the disaster management cycle focusing on The Degg Model, The pressure and release model and Parks disaster response curve. Students use this to reflect on improvements that can be made to address sustainability of locations.

## **NET CARBON ZERO - OFFSETTING**

Working with Carbon Neutral Britain, the UK's Carbon Offsetting Initiative which supports British Individuals and organisations make an impact on Climate Change, we have offset the carbon footprint outlined in Table 1 and have been certified as 'Carbon Neutral' for the period August 2020 – July 2021.

For this period, the Etc. is providing financial support to projects in the Renewables sector and this offsets the carbon footprint of 696 tCO<sub>2</sub>e.

## **PLANNED ENERGY EFFICIENCY**

- The Etc. plans to continue driving forward on the sustainability agenda through:
- Achieving Inventors in the Environment Green accreditation.
- Promotion of careers in the clean energy sector through engagement with organisations driving the hydrogen agenda in Redcar & Cleveland.
- Further developing the scope of understanding of our environmental impact to become net zero for all emissions.
- Further develop the carbon literacy of our staff and students, embedding sustainability into the curriculum and strengthening the sustainable tutorial and enrichment offer.
- Develop sustainable skills through investment in green technologies and the creation of resources to train sustainable skills, including the retrofitting of heat pumps and hydrogen boilers.
- Expanding the Green Initiatives Group to involve volunteers through linking with the Group Students' Union.



## NOTES ABOUT METHODOLOGY:

- Etc. has adopted an operational control approach to establishing the boundary. The methodology adopted in line with the Greenhouse Gas Protocol<sup>1</sup> and the BEIS Environmental Reporting Guidelines<sup>2</sup>. The calculations were completed on the SmartCarbon<sup>TM</sup> Calculator<sup>3</sup> using the UK Government emissions factors<sup>4</sup>.
- CO<sub>2</sub>e is the universal unit of measurement to indicate the global warming potential (GWP) of Greenhouse Gases (GHGs), expressed in terms of the GWP of one unit of carbon dioxide. There are seven main GHGs that contribute to climate change, as covered by the Kyoto Protocol: carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulphur hexafluoride (SF<sub>6</sub>) and nitrogen trifluoride (NF<sub>3</sub>). Different activities emit different gases. Using CO<sub>2</sub>e allows all greenhouse gases to be measured on a like-for-like basis.
- For National grid electricity consumption, THE ORGANISATION has included factors for the transmission and distribution of electricity (T&D) losses, which occur between the power station and site(s). The emissions from T&D has been accounted for in Scope 3. As with other Scope 3 impacts, reporting T&D is voluntary but is recommended standard practice by UK Government<sup>2</sup>.

**BEDE SIXTH FORM COLLEGE**

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Billingham  
TS23 3HB

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**REDCAR & CLEVELAND COLLEGE**

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**STOCKTON RIVERSIDE COLLEGE**

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Stockton-on-Tees  
TS17 6FB

**THE SKILLS ACADEMY**

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**etc.**

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