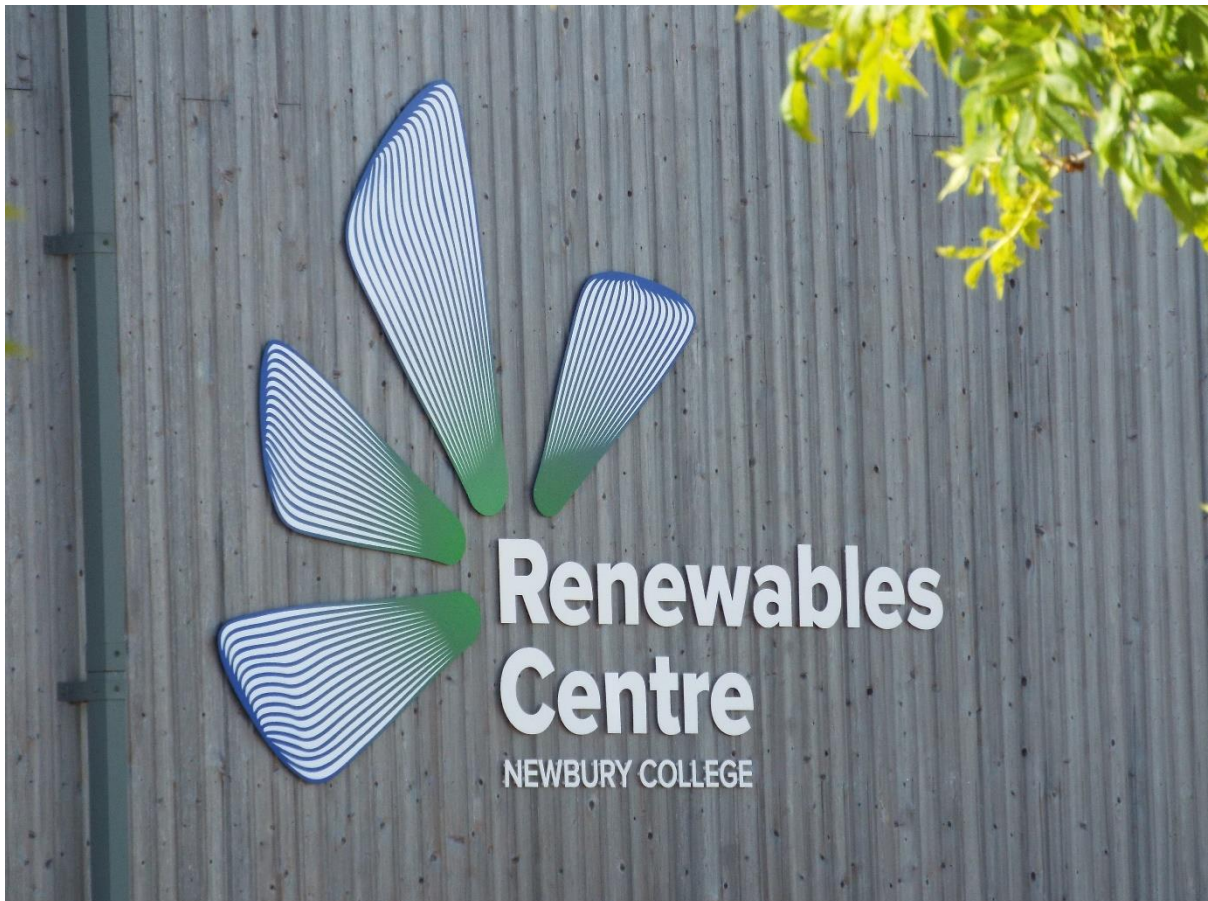


**Greenhouse Gas Emissions Inventory
and
Annual Streamlined Energy & Carbon Report
Newbury College Academic Year 2020 - 2021**



Newbury College is required to produce the SECR report that details our scope 1,2 & 3 emissions.

Quantification and Reporting Methodology

We have followed the 2019 HM Government Reporting Guidelines. We have also used the GHG Reporting Protocol - Corporate Standard and have used the 2020 UK Government's Conversion Factors for Company Reporting.

- Scope 2 emissions include location-based power and market-based power
- Scope 3 omissions include water (supply and waste treatment), waste (landfill), WEEE

Intensity measurement

The chosen intensity measurement ratio is total gross emissions in metric tonnes CO₂ e per staff member, the recommended ratio for the sector

Findings

Report Year Scope 1 emissions	Fuel Score	Volume Unit	TCO	Emission Change v Base Year
Heating	Natural gas	2,026,519.00 kWh	372.62	13%
Transport	Diesel	25,225.88 kWh	6.07	-37%
Fugitive emissions		-	-	
		Scope 1 Subtotal	378.68	12%
Report Year Scope 2 emissions	Fuel Score	Volume Unit	TCO _{2e}	Emission Change v Base Year
Location Based Power	Electricity	616,230.00 kWh	143.67	-14%
Self-Generated Renewable Power		-kWh	-	-
		Scope 2 Subtotal	143.67	-14%
Report Year Scope 3 emissions	Fuel Score	Volume Unit	TCO	Emission Change v Base Year
Water (supply & waste treatment)	Not disclosed	4,741.00 M ³	4.48	-51%
Waste (Landfill)	Not disclosed	1.12 Tonnes	0.51	-39%
WEEE	Not disclosed	1.20 Tonnes	0.03	100%
		Gross TCO_{2e}	527.38	2%
Offsets	Fuel Score	Volume Unit	TCO	Emission Change v Base Year

Market Based power	Electricity	419,036.40 kWh	97.69	
		Net TCO_{2e}	429.68	-17%

In summary, there has been an improvement year on year with the College producing 429 tonnes of CO₂ produce compared to the previous year of 516.

Intensity Ratios

	Total tonnes of CO _{2e}	CO _{2e} per square meter	CO _{2e} per average FTE employee	CO _{2e} per average FTE student
Scope 1	378.68	0.04	0.017	0.297
Scope 2	143.67	0.014	0.850	0.113
Scope 3	429.68	0.043	2.54	0.337
Total	952.03	0.0965	5.633	0.748

Measures taken to improve efficiency

The College remains committed to the reduction of emissions and has an action plan in place. In 2020-21, whilst working within pandemic restraints the following was achieved:

Improved technology

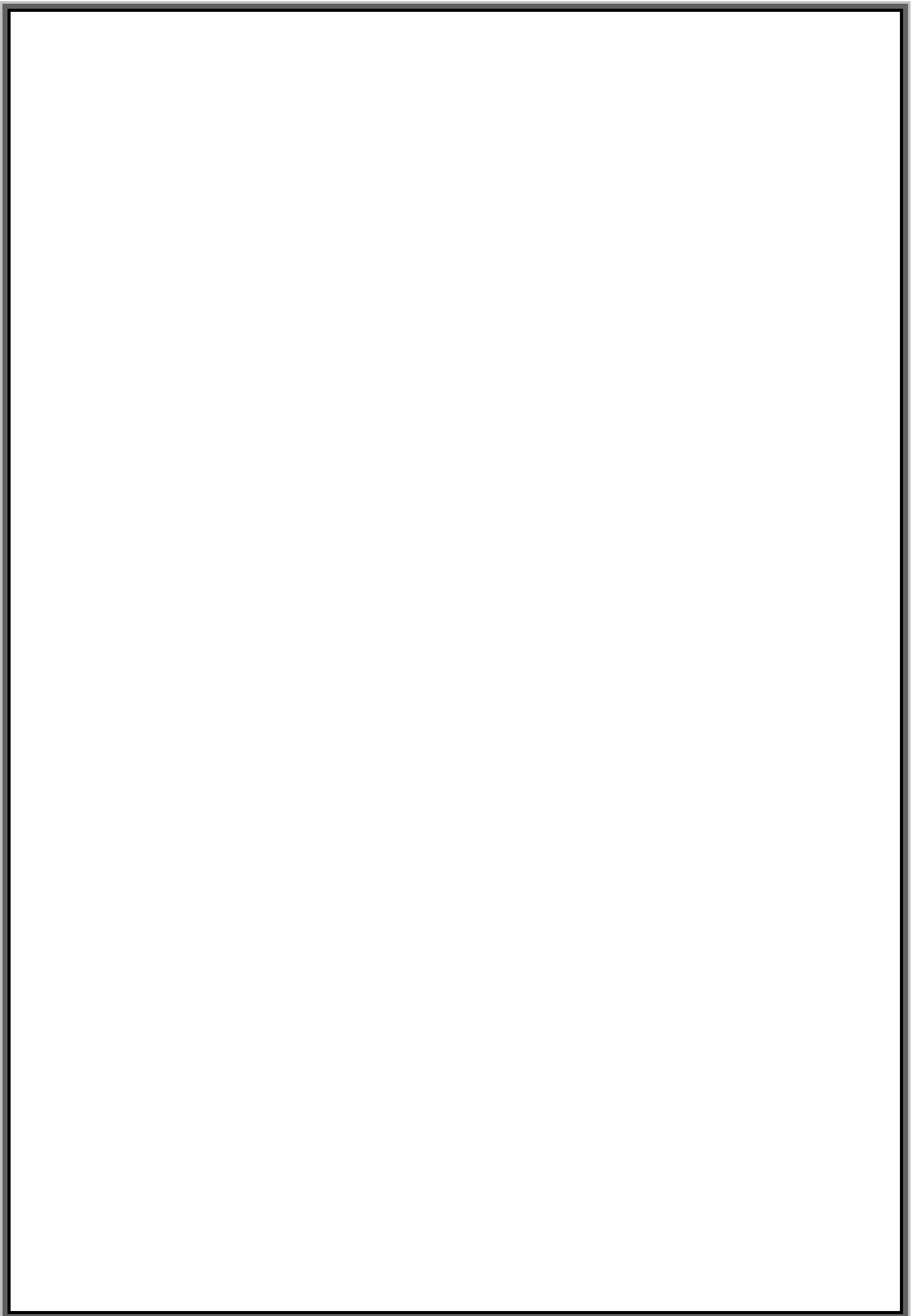
- Allowed Microsoft Teams meetings between apprentices and assessors to reduce need to travel
- Reduced the number of onsite meetings
- Held on-line progression evenings
- On-line enrolment piloted to reduce paper usage

Recycling

- Additional recycling bins have been provided
- Developed an action plan to ensure the College is moving along the FE roadmap
- More signage to recycle has been introduced

Energy usage

- Covid impact meant less gas/electric consumption as parts of the site were closed.
- Began the introduction of LED lighting
- Distance Learning and HR forms and contracts have moved to electronic only
- Understanding current usage/data to better build up a profile of sustainability for the future
- Microwave sensors have been installed in the UCN, saving Energy
- Lights on external bollards have been changed to LED
- During nightly checks, electrical items are switched to off
- Heating has been reduced by 1-2 degrees



Appendices

Methodology

Floor Area:	9861m
Staff FTE:	169
Student FTE:	1273
Number of staff:	296
Miles:	24,209
No of Vehicles:	8

- Data collected from a mixture of profile and invoice data for gas and electricity
- Fleet vehicles usage compiled from mileage logbooks
- Grey fleet figures based on the number of miles claimed (converted to kms) through our expenses then converted using DEFRA conversion factor for average petrol and diesel combined