**Nelson and Colne College Group**

**Carbon Emissions**

01/08/2019 to 31/07/2020

| **Greenhouse gas emissions and energy use data for the period 1 August 2019 to 31 July 2020** | **2019/20** |
| --- | --- |
| Energy consumption used to calculate emissions (kWh) | 5,129,392 |
| **Energy consumption break down (kWh) (optional)**: |  |
| Gas | 3,170,818 |
| Electricity | 1,796,642 |
| Transport fuel | 161,932 |
| **Scope 1 emissions in metric tonnes CO2e** |  |
| Gas consumption | 583 |
| Owned transport | 39 |
| Total scope 1 | 622 |
| **Scope 2 emissions in metric tonnes CO2e** |  |
| Purchased electricity | 455 |
| **Scope 3 emissions in metric tonnes CO2e** |  |
| Business travel in employee owned vehicles | 104 |
| **Total gross emissions in metric tonnes CO2e** | **1181** |
| **Intensity ratio** |  |
| Tonnes CO2e per member of staff (735) | **1.60** |

Nelson and Colne College Group has 3 main sites, all with their own gas fuelled boilers and electricity is purchased from the grid network. The Group owns 11 vehicles, 7 diesel-powered mini-buses and 1 pool car, 1 petrol powered minibus and 2 pool cars and has approximately 285 members of staff who claim business mileage.

**Quantification and Reporting Methodology**

We have followed the ESFA Streamlined Energy and Carbon Reporting (SECR) 2020 Guidance. We have also used the GHG Reporting Protocol – Corporate Standard and have used the 2020 UK Government’s Conversion Factors for Company Reporting.

**Intensity measurement**

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

**Measures taken to improve energy efficiency**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Scope\*** | **Definition** | **Unit** | **Source Information** | **Total** | **GHG Factor 2020** | **TCO2e** |
| 1 | Purchased Gas | kWh | Verified Invoices | 3,170,818 kwh | 0.18387 | 583 |
| 1 | Petrol  (College Pool Vehicles) | Consumed Litre | Monthly Fuel Receipts | 1,535 litres | 2.16802 | 3.3 |
| 1 | Diesel  (College Pool Vehicles includes van and Minibuses) | Consumed Litre | Monthly Fuel Receipts | 13,933 litres | 2.54603 | 35.4 |
| 2 | Purchased Electricity | kWh | Verified Invoices | 1,796,642 kwh | 0.23314 Gen  0.02005 T&D | 455 |
| 3 | Business mileage | Miles | Finance travel claims paid | 370,364 miles | 0.28052 P | 104 |
|  | | | **Total** | **1,181 Tonnes of CO2e** | | |

We have installed a new boiler plant to one of our buildings. LED lighting to a significant proportion of the estate, consolidated teams to a single site to reduce travel costs, installed a solar array on 2 sites, procured energy efficient IT including desk top pc`s and server units. Introduced a cycle to work scheme and actively promoting car sharing.