

# Warwickshire College Group

## Streamlined Energy and Carbon Reporting.



|                              |  |
|------------------------------|--|
| <b>Date created:</b>         | 24 March 2021  |
| <b>Reported prepared by:</b> | Matthew Sumners  |
| <b>Statement:</b>            | Warwickshire College Group was responsible for the collection of activity and qualitative energy efficiency actions data. The figures in this report relating to emissions, energy consumption and intensity ratios have been calculated by the Planet Mark using the data provided. |
| <b>Reporting period:</b>     | 01 August 2019 – 31 July 2020  |
| <b>Emission sources:</b>     | Electricity, gas, other fuels, waste, water, fleet and grey fleet  |
| <b>Methodology:</b>          | GHG Protocol Corporate Accounting and Reporting Standard, EMA SECR Methodology June 2019, Planet Mark code of practice   |
| <b>Yearly comparison:</b>    | No comparison, first year of submission  |
| <b>Yearly reduction %:</b>   | No comparison, first year of submission  |

| Source                               | Scope | Unit           | 1 August 2019 to 31 July 2020 |                               |                                      |
|--------------------------------------|-------|----------------|-------------------------------|-------------------------------|--------------------------------------|
|                                      |       |                | Amount                        | Amount (kWh)                  | Total Emissions (tCO <sub>2</sub> e) |
| <b>Building</b>                      |       |                |                               |                               |                                      |
| Electricity (location based)         | 2     | kWh            | 4,913,396.0                   | 4,913,396.0                   | 1,145.5                              |
| Transmission and distribution losses | 3     | kWh            | 4,913,396.0                   |                               | 98.5                                 |
| Natural gas                          | 1     | kWh            | 8,252,397.0                   | 8,252,397.0                   | 1,517.4                              |
| Other fuels                          | 1     | litres         | 199,237.8                     | 1,658,343.1                   | 422.1                                |
| Woodchip                             | 1     | tonnes         | 56.5                          | 213,721.2                     | 3.3                                  |
| <b>Waste</b>                         |       |                |                               |                               |                                      |
| Landfill                             | 3     | tonnes         | 1,177.5                       |                               | 515.0                                |
| Recycled                             | 3     | tonnes         | 1,048.3                       |                               | 22.3                                 |
| <b>Water</b>                         |       |                |                               |                               |                                      |
| Landfill                             | 3     | m <sup>3</sup> | 54,037.2                      |                               | 18.6                                 |
| Recycled                             | 3     | m <sup>3</sup> | 54,037.2                      |                               | 38.3                                 |
| <b>Travel</b>                        |       |                |                               |                               |                                      |
| Vehicle - fleet                      | 1     | litres         | 38,759.2                      | 381,764.5                     | 97.0                                 |
| Vehicle - grey fleet - average       | 3     | km             | 886,214.7                     | 612,649.1                     | 151.9                                |
| <b>Total</b>                         |       |                |                               | <b>16,032,270.9</b>           | <b>4,030.0</b>                       |
| <b>Intensity Metrics</b>             |       |                |                               |                               |                                      |
| <b>Intensity Metric</b>              |       |                | <b>Total</b>                  | <b>Total tCO<sub>2</sub>e</b> | <b>Intensity</b>                     |
| Total staff and students             |       |                | 13,144.6                      | 4,030.0                       | 0.3                                  |
| Turnover per £1m                     |       |                | 49.3                          | 4,030.0                       | 81.8                                 |

## Energy Efficiency actions

Warwickshire College Group have successfully certified to The Planet Mark for the reporting period 1 August 2019 – 31 July 2020 which is Warwickshire College Group's seventh year of certification. The Planet Mark is a sustainability certification which recognises continuous improvements, encourages action, and builds an empowered community of like-minded individuals. Warwickshire College Group also make a commitment upon certification of The Planet Mark to achieve a minimum 2.5% reduction in their measured carbon footprint year on year.

Through the Planet Mark Warwickshire College Group have taken action to protect one acre of rainforest with Cool Earth. The Planet Mark has delivered workshops to key members of staff at the Warwickshire College educating and encouraging staff members to be conscious of their energy use and impact on the environment.

Warwickshire College Group have a detailed environmental policy which is fundamental to its business strategy, please see attached Sustainability Policy. Warwickshire College Group are currently reviewing their Estates Strategy which will include a more detailed approach to energy and sustainability.

The estates team are responsible for utilities and energy management and the procurement manager has top level oversight to ensure they are monitored throughout the year to identify any areas of significant usage. Local site facilities managers use a range of building management systems to regulate the energy use associated with heating the different buildings across the different properties and ensure energy savings are made where possible.

As part of their heat decarbonisation plan Warwickshire College Group are looking into various options for end-of-life replacement over time including air and ground source heat pumps, biomass, and other technologies such as hydrogen as they become available.

Warwickshire College Group have a policy to replace older lamps which have come to their end of life with more efficient LED lighting where possible, which results in both energy and emission savings compared to standard lighting equipment.