March 2024

LOW CARBON
Audit

Carbon Footprint Certificate

This certificate confirms that Adam, Rouilly Ltd has had a carbon emission audit carried out for the period 01.01.23 – 31.12.23 under GHG protocol standards and UK Government Conversion Factors

KENT INVICTA
CHAMBER OF COMMERCE

To renew this certificate please call 01233 503838

Tudor Price
Chief Executive Officer

Carbon Reduction Plan

Adam,Rouilly Ltd

Publication date: 2nd April 2024

Commitment to achieving Net Zero

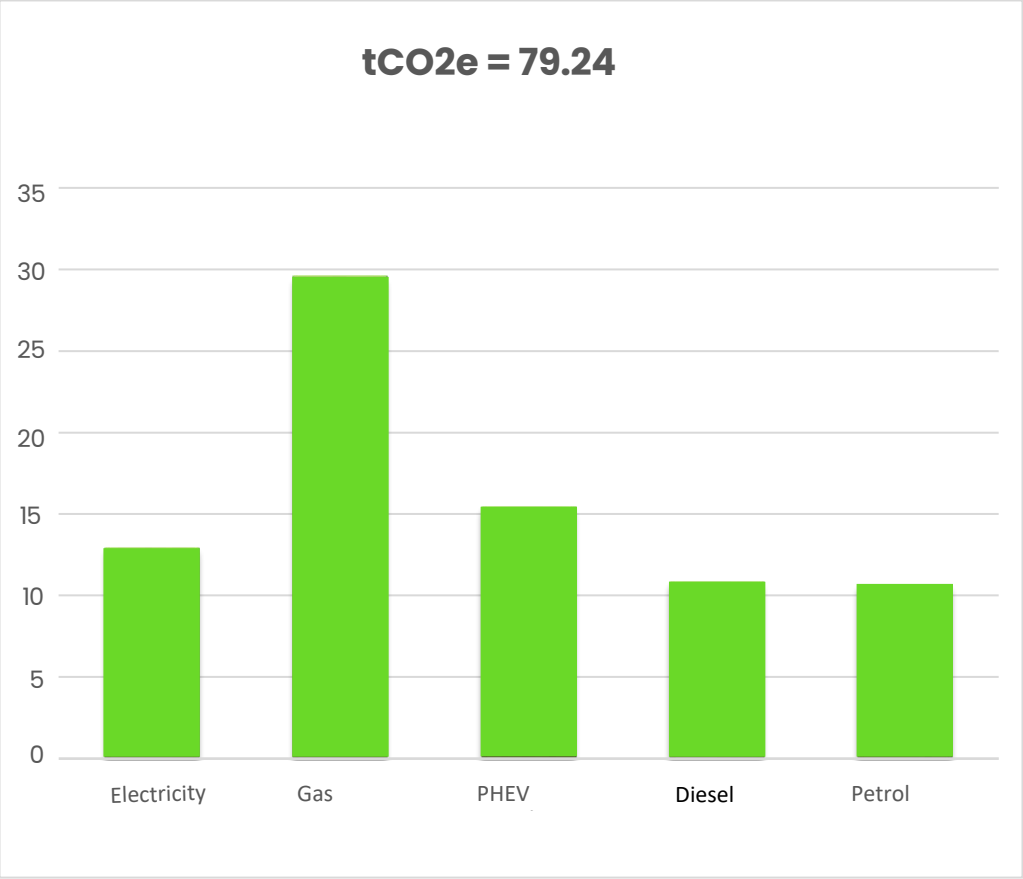
Adam,Rouilly Ltd is committed to achieving Net Zero emissions status by 2050.

Baseline Emissions Footprint

Baseline emissions are a record of the greenhouse gases that were produced in the past, prior to the introduction of any strategies to reduce emissions. Baseline emissions are the reference point against which emissions reduction can be measured.

Baseline Year: 01.01.2021 to 31.12.2021	
Additional details relating to the baseline emissions calculations: We had our first report for the above Baseline Year in Oct 2022 – Scope 1 & 2 only	
Baseline year emissions:	
EMISSIONS	**TOTAL (tCO2e)**
Scope 1 - Direct greenhouse gas emissions that occur from sources that are controlled or owned by the reporting organisation, e.g., emissions associated with fuel combustion in boilers, furnaces and vehicles.	**66.37**
Scope 2 - Indirect greenhouse gas emissions associated with the purchase of electricity, steam, heat or cooling. They are accounted for by the reporting organisation as a result of the energy use.	**12.87**
Scope 3 - Includes all sources not within an organisation's scope 1 and 2 boundary. Scope 3 emissions often represent the majority of an organisation's total greenhouse gas emissions (included sources).	**To be calculated and reviewed in the future**
Total Emissions	**79.24**

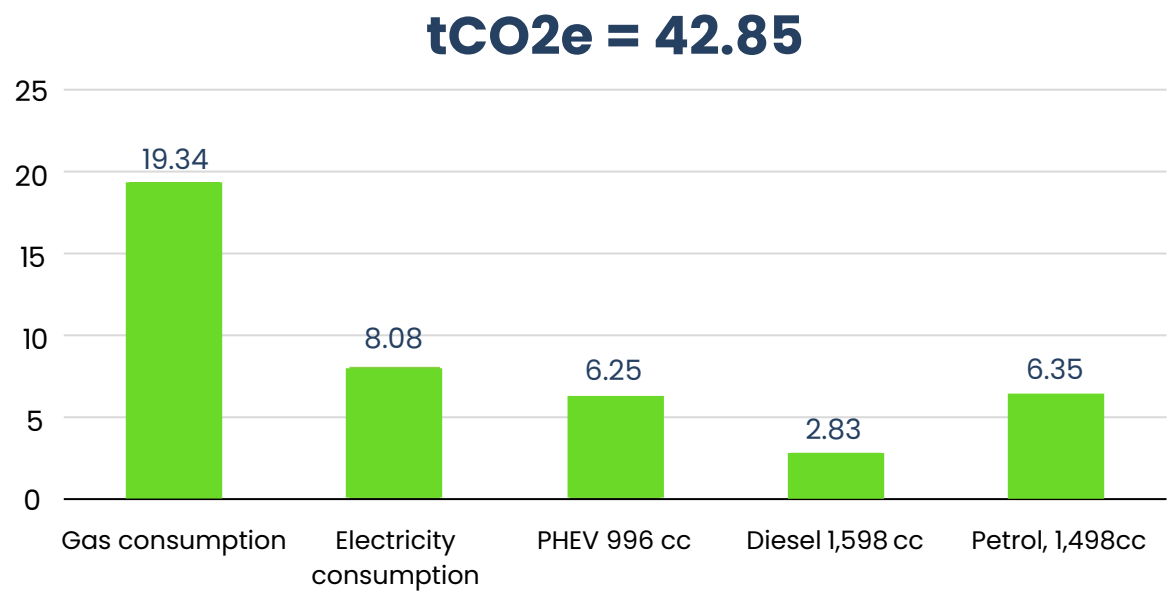
Baseline year: 01.01.2021 to 31.12.2021



Current Emissions Reporting

Reporting Year: January 2023 to December 2023 (estimated)	
EMISSIONS	**TOTAL (tCO2e)**
Scope 1 - Direct greenhouse gas emissions that occur from sources that are controlled or owned by the reporting organisation, e.g., emissions associated with fuel combustion in boilers, furnaces and vehicles.	**34.77**
Scope 2 - Indirect greenhouse gas emissions associated with the purchase of electricity, steam, heat or cooling. They are accounted for by the reporting organisation as a result of the energy use.	**8.08**
Scope 3 - Includes all sources not within an organisation's scope 1 and 2 boundary. Scope 3 emissions often represent the majority of an organisation's total greenhouse gas emissions (included sources).	**N/A**
Total Emissions	**42.85**

Reporting Year: January 2023 to December 2023



Emissions Reduction Targets

Introduction:

In pursuit of our commitment to achieving Net Zero emissions, we have implemented a comprehensive set of carbon reduction targets. This report outlines the measures taken and the progress achieved inour efforts to mitigate carbon emissions.

Carbon Reduction Targets:

To facilitate our journey towards Net Zero, we have set forth the following carbon reduction targets:

- **Baseline Year Calculation**: To establish a reference point for our carbon emissions reduction efforts, we have focused on the baseline year spanning January 2023 to December 2023. We have extrapolated data from these dates to calculate the twelve-month outputs for the baseline year. This data has enabled us to perform an assessment of our carbon emissions.

- **Year-on-Year Comparison**: Comparing the most recent data available from January 2021 to December 2021, we have observed a notable reduction in carbon emissions across different scopes. Specifically, there has been a decrease of **47.61%** in Scope 1 fuels and a decrease of **37.22** in Scope 2 electricity consumption. This combined reduction equates to a decrease of thirty six metric tons of CO2 equivalent (tCO2e).

- **Projected Emissions Reduction**: Our forward-looking analysis anticipates a consistent downward trajectory in carbon emissions. We project an annual reduction of approximately 10% year on year over the next five years. By the year 2028, we estimate carbon emissions to reach **26.91** tCO2e. This projected value represents a substantial reduction of **37.20%** compared to the baseline year, thereby underlining our commitment to a substantial carbon footprint reduction.

Carbon Reduction Initiatives

Our carbon reduction strategy encompasses the following initiatives, each targeted at achieving substantial reductions in carbon emissions:

- **Transition to Electric Vehicles**: Transition to Electric Vehicles: There is an ongoing electrification of company fleet (as per schedule already submitted) and the remaining diesel vehicle will be replaced within the next year with an electric vehicle (EV). This strategicshift not only aligns with environmental goals but also supports the adoption of cleaner and more sustainable transportation options.

- **Energy-efficient Equipment Replacement**: A cornerstone of our strategy is to prioritise energy efficiency during equipment replacements. As equipment reaches "end of life" we actively source more energy efficient replacements with the lowest energy rating possible to minimise energy usage and reduce carbon emissions e.g. replacement microwave cookers and dishwasher in the Staff Canteen. By sourcing replacements with the highest energy efficiency rating possible, we ensure that energy consumption is minimised over the entire lifecycle of the equipment.

- **Optimised Electric Heating**: Optimised Electric Heating: The implementation of thermostatically controlled electric heaters for Assembly Staff which are thermostatically controlled at individual work stations and temperature regulated maintaining an energy-efficient level of approximately 19 degrees Celsius. This temperature regulation contributes to both comfort and energy conservation.

- **Smart Power Management**: We emphasise responsible power management by enforcing the practice of switching off electronic equipment when not in use. Electrical equipment is not left on standby it is turned off at the end of the day as part of the End of Day routine. This proactive approach avoids unnecessary energy consumption associated with equipment left on standby.

- **Passive Infrared Sensors (PIRs) Installation**: Where feasible, Passive Infra-red Sensors (PIRs) have been installed throughout the Factory and in the new Warehouse/Distribution buildings to control lighting systems. This smart technology detects motion and presence, enabling the efficient operation of lighting and significantly reducing energy wastage.

- **Future Considerations for Expansion:** In the event of business expansion beyond the original Baseline Year (January 2022 to December 2022), our strategy is adaptable to incorporate a carbon emission 'unit cost'. This entails introducing a metric known as the 'Carbon Emission Intensity Factor". This factor enables the calculation of carbon emissions per job carried out in subsequent years, such as comparing emissions in 2021 to those in 2023.

- **Achievements and Progress:** The environmental management measures and projects out-lined above have been progressing according to plan. Notably, the installation of 168 EU sourced Solar Panels in September 2022 on the main Factory/Office building, the installation of 3 electric charging points, the replacement of all non-LED lighting with LED alternatives throughout existing Office/Factory building, replacement of 7 hand dryers and 2 hot air blowers. Collectively, these initiatives have yielded a carbon emission reduction of approximately **36.39** tCO2e This achievement represents a commendable reduction of **45.92%** against the 2021 Baseline. Importantly, these measures will be in full effect during contract execution, reinforcing our dedication to sustainable practices throughout our operations.

In conclusion, our organisation remains dedicated to the pursuit of Net Zero emissions. Through diligent data extrapolation, emission calculations, and year-on-year comparisons, we have made notable strides in reducing carbon emissions. Our proactive projections highlight a promising path ahead, where continued efforts are poised to yield even greater reductions.

As we move forward, our commitment to sustainability remains unwavering, and we will adapt our strategies in response to actual consumption data to ensure the accuracy and effectiveness of our carbon reduction initiatives.

Future Initiatives:

- To accommodate the expansion in the Research and Development and Production departments, the Directors have embarked on an investment plan to maximise Adam, Rouilly's own production by better utilising its current factory with the erection of a Warehouse/Distribution facility on-site. This will be completed by the end of Q3 2024. Adam, Rouilly's own production is 97% manufactured in the UK utilising as many locally sourced suppliers as possible. 102 Solar panels on the new building will also feed the existing Office/Factory building.
- The Power Management Package allows for full recording and display of energy generation and usage to ensure that the complete system is performing at its maximum potential to enable optimisation of energy consumption in both buildings.
- Expansion of Company fleet in 2024 purchasing EV vehicles.
- The installation of a further 4 electric charging points
- Reduction in company travel by car for train travel be will be actively supported
- Proactively seek expert consultants to advise on further reduction measures to accelerate progress to Net Zero

Declaration and Sign Off

This Carbon Reduction Plan has been completed in accordance with PPN 06/21 and associated guidance and reporting standard for Carbon Reduction Plans.

Emissions have been reported and recorded in accordance with the published reporting standard for Carbon Reduction Plans and the GHG Reporting Protocol corporate standard[1] and uses the appropriate Government emission conversion factors for greenhouse gas company reporting[2].

Scope 1 and Scope 2 emissions have been reported in accordance with SECR requirements, and the required subset of Scope 3 emissions have been reported in accordance with the published reporting standard for Carbon Reduction Plans and the Corporate Value Chain (Scope 3) Standard[3].

This Carbon Reduction Plan has been reviewed and signed off by the Board of Directors

Signed on behalf of Adam,Rouilly Ltd: Jennifer A Whitebread

Name: Jennifer A Whitebread

Date: 2 April 2024

[1] https://ghgprotocol.org/corporate-standard
[2] https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting
[3] https://ghgprotocol.org/standards/scope-3-standard

Statement

7.7 (a)	Please confirm that you have detailed your environmental management measures by completing and publishing a Carbon Reduction Plan which meets the required reporting	**YES**
7.7 (b)	Provide a link to your most recently published Carbon Reduction Plan here:	**www.adam-rouilly.co.uk/carbon-reduction-plan/**
7.7 (c)	Please confirm that your organisation is taking steps to reduce your GHG Emissions over time and is publicly committed to achieving Net Zero by 2050	**Yes**
7.7 (d)	Please provide your current Net Zero Target Date:	**2050**
7.7 (e)	Please provide your Carbon Reduction Plan	
7.7 (f)	Supplier Emissions Declaration	**Completed**

7.7 (f) (i)	Baseline Year:	**Jan 21 to Dec 21**
7.7 (f) (ii)	Scope 1 emissions:	**66.37 tCO2e**
7.7 (f) (iii)	Scope 2 emissions:	**12.87 tCO2e**
7.7 (f) (iv)	Scope 3 emissions:	**N/A**
7.7 (g) (i)	Current/Most Recent Reporting Year:	**Jan 23 to Dec 23**
7.7 (g) (ii)	Scope 1 emissions:	**34.77 tCO2e**
7.7 (g) (iii)	Scope 2 emissions:	**8.08 tCO2e**
7.7 (g) (iv)	Scope 3 emissions:	**N/A**