



Airfields // Highways // Off-Highways // Civils & Maintenance

# JOINTLINE CARBON FOOTPRINT: SCOPES 1, 2 & PARTIAL SCOPE 3 FOOTPRINT 2024

Innovative Solutions for Airfields, Highways  
and Off-Highways Infrastructure



Safely Marking  
The Way Ahead  
[jointline.co.uk](https://jointline.co.uk)





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# EMISSIONS SUMMARY



## Jointline Baseline Scopes 1 & 2 Carbon Emissions 2024

| Category          | GHG Source      | Annual quantity | Units  | Emission Factor (KgCO2e/unit) | Annual emissions (tonnes) |
|-------------------|-----------------|-----------------|--------|-------------------------------|---------------------------|
| Scope 1           |                 |                 |        |                               |                           |
| Vehicle Fuel      | Diesel          | 460,562.82      | Litres | 2.51                          | 1,157.30                  |
|                   | Unleaded Petrol | 9,479.31        | Litres | 2.08                          | 19.76                     |
|                   | Propane         | 119,084.00      | Litres | 1.54                          | 183.87                    |
|                   |                 | 19              | Kg     | 3.00                          | 8.48                      |
| Buildings Heating | Natural Gas     | 46,373.85       | kWh    | 0.18                          | 2.54                      |
|                   | Keroene         | 1,000           | Litres | 2.54                          | 2.54                      |

### Scope 2

|                  |             |            |     |         |       |
|------------------|-------------|------------|-----|---------|-------|
| Grid Electricity | Electricity | 124,156.85 | kWh | 0.20705 | 25.71 |
|------------------|-------------|------------|-----|---------|-------|

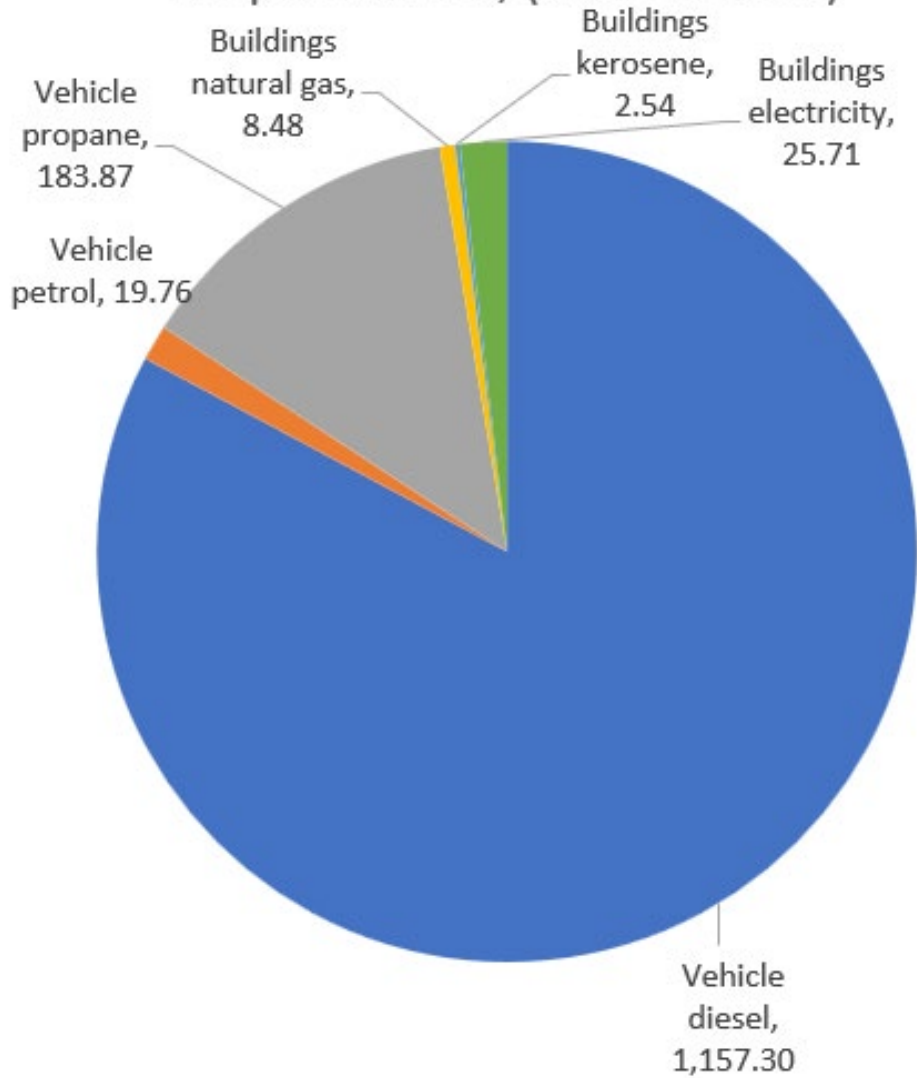
Scope 2 Total tonnes/CO2e 25.71

**Scope 1 and Scope 2 Total tonnes/CO2e 1,397.66**

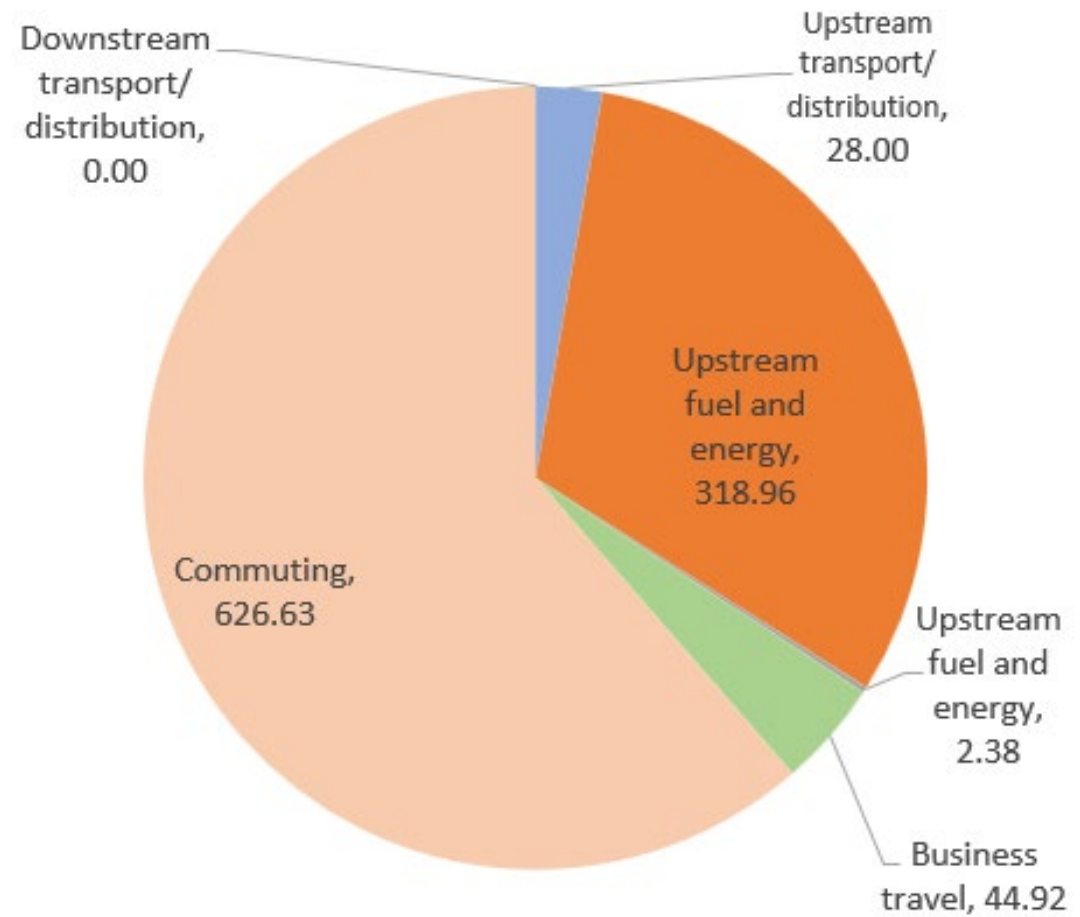
## Jointline Baseline Scopes 1 & 2 Carbon Emissions 2024

| Category                                            | GHG Source                  | Annual Quantity                                                                                                       | Units    | Emission Factor (KgCO2e/unit) | Annual emissions (tonnes) |
|-----------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------|----------|-------------------------------|---------------------------|
| Scope 3                                             |                             |                                                                                                                       |          |                               |                           |
| Upstream transportation and distribution            | Delivery vehicles emissions | 287,119                                                                                                               | tonne.km | 0.09752                       | 28.00                     |
| Upstream fuel and energy                            | Supply chain emissions      | Various fuels and electricity values, units and emission factors - see Sheet Scope 3 Fuel and energy                  |          |                               | 318.96                    |
| Waste generated in operations                       | Various                     | 1,332.92                                                                                                              | tonnes   | Various                       | 2.38                      |
| Business travel                                     | Public transport            | 79,066                                                                                                                | Km       | Various                       | 2.38                      |
| Employee commuting                                  | Individual car emissions    | 2,332,953                                                                                                             | Miles    | 0.2686                        | 626.63                    |
| Downstream transportation and distribution          | Delivery vehicles emissions | Jointline provides a service at client locations so there are no downstream transportation and distribution emissions |          |                               | 0                         |
| Scope 3 Total tonnes/CO2e                           |                             |                                                                                                                       |          |                               | 1,020.88                  |
| Total Scopes 1, 2 & 3 (selected) emissions for 2024 |                             |                                                                                                                       |          |                               | 2,418.54                  |

Jointline 2024 Carbon Footprint,  
Scopes 1 and 2, (Tonnes CO2e)



Jointline 2024 Carbon Footprint,  
Scope 3, (Tonnes CO2e)



# APPROACH



Jointline recognises the urgency of the climate crisis and the need to reduce carbon emissions, and has developed a net zero emissions reduction plan.

The first stage in that process was to calculate its baseline emissions, with 2022 being selected as the base year, as it was considered to be representative of typical business conditions, post-covid, marking a return to business as usual.

The organisational boundary includes all activities of Jointline Limited, a private limited company registered in the UK at Companies House. This includes operations at its depots at Lincoln and Bradford, and carrying out its line marking, construction, forestry and related projects. The same boundaries have been used for the 2024 footprint.

In calculating its footprint, Jointline has adopted the approach set out by the Greenhouse Gas Protocol in its “Corporate Accounting and Reporting Standard”, which is widely referenced in UK Government guidance for corporate reporting.

The GHG Protocol sets out three categories (or

“Scopes”) of emissions, which are included in the baseline and subsequent annual footprints:

- direct emissions of greenhouse gases from Jointline’s activities (Scope 1 emissions)
- indirect emissions associated with electricity purchased by Jointline (Scope 2 emissions)
- indirect emissions related to activities in the value chain (Scope 3 emissions), in the categories explained below.

The UK Government’s Cabinet Office has set out reporting requirements for suppliers to government, which includes specific categories of Scope 3 emissions. These are included in the 2022 baseline and subsequent footprint reports:

- Upstream transportation and distribution emissions, from top tier suppliers to Jointline’s own operations
- Emissions from the disposal and treatment of waste generated in Jointline’s operations
- Emissions from business travel
- Emissions from employee commuting
- Downstream transportation and distribution emissions associated with Jointline’s products (this is zero, as all transportation associated with Jointline’s delivery of its

services is under the control of the company (so is included in Scope 1).

In addition, Jointline has included in this 2024 carbon footprint Scope 3 upstream fuel and energy emissions (those released in the production and delivery of fuel and energy used by Jointline).

The 2022 and 2023 values have been calculated retrospectively to allow comparison.

Jointline compares each of its annual footprints to those of previous years, to allow trends in performance to be identified, to compare performance against the baseline and to demonstrate progress towards its Net Zero target milestones. This comparison is presented in the “Comparison with the Baseline” section of this report and relevant data are also presented in Jointline’s annual Net Zero report to illustrate progress made towards the Net Zero target.

# JOINTLINE'S EMISSIONS SOURCES



The following emissions sources have been included within the footprint:

| Category                   | Sources                                                                                                                                                                                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Scope 1 Direct Emissions   | <ul style="list-style-type: none"><li>• Vehicle fuel (petrol and diesel purchased from service stations or delivered to the Lincoln Depot)</li><li>• Propane used in line marking</li><li>• Heating oil used at Lincoln Depot</li><li>• Natural gas used for heating at Bradford</li></ul>                                    |
| Scope 2 Indirect Emissions | <ul style="list-style-type: none"><li>• Electricity consumption at Lincoln and Bradford</li></ul>                                                                                                                                                                                                                             |
| Scope 3 Indirect Emissions | <ul style="list-style-type: none"><li>• Transportation of lining products to Jointline</li><li>• Upstream fuel and energy</li><li>• Emissions from the disposal of waste generated by Jointline's operations</li><li>• Business travel emissions (flights, ferries)</li><li>• Employee commuting by private vehicle</li></ul> |

The methods used and sources of data are explained in the following report sections.

# SCOPE 1 DIRECT EMISSIONS

*Vehicle Fuel - Diesel*



Road vehicles and some items of vehicle-mounted equipment such as compressors and generators are fuelled with diesel.

Vehicles either are filled from filling stations or from a diesel tank located in the yard at Lincoln.

| Item                                       | Detail                                                                                                                                                                                                                                                | Explanation                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GHG Source                                 | Diesel – road vehicles and other plant (Note: the use of red diesel used for some other plant ceased in early 2002)                                                                                                                                   | Includes use in cars, vans and HGVs, plus equipment such as vehicle-mounted compressors, generators, etc                                                                                                                                                                                                            |
| Data Type                                  | <ol style="list-style-type: none"> <li>Weekly returns from fuel cards</li> <li>Invoices for bulk diesel delivered to the Lincoln depot for refuelling road vehicles and other plant</li> </ol>                                                        | <ol style="list-style-type: none"> <li>These are compiled into monthly spreadsheets, itemising quantities purchased per transaction (includes vehicle registration number)</li> <li>List of invoices for diesel deliveries, totalled for the year and adjusted to account for opening and closing stocks</li> </ol> |
| File name                                  | <ol style="list-style-type: none"> <li>Spreadsheet “Master Report new Carbon Emissions/Full data fuel”</li> <li>Spreadsheet “ Master Report new Carbon Emissions YourNRG”</li> </ol>                                                                  |                                                                                                                                                                                                                                                                                                                     |
| Emission Factor                            | 2.51279 kgCO <sub>2</sub> e/litre                                                                                                                                                                                                                     | UK Govt GHG Reporting Factors 2024 – Fuels, Diesel (average biofuel blend)                                                                                                                                                                                                                                          |
| Source Quantity (Litres)                   | <ol style="list-style-type: none"> <li>357,523</li> <li>103,037</li> </ol> Tot. 460,563                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                     |
| Emissions (kg CO <sub>2</sub> e)           | <ol style="list-style-type: none"> <li>1,898,387</li> <li>258,910</li> </ol> Tot. 1,157,298                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                     |
| Emissions (tonnes CO <sub>2</sub> e)       | 1,157.30                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                     |
| Assumptions/<br>Potential Sources of Error | 1. As in the previous year, there is a small discrepancy between the total for bulk deliveries of diesel (“YourNRG”), used here, and that recorded in “Bulk Fuel Analysis (ULSD)”, which reports each filling of a vehicle from the bulk diesel tank. |                                                                                                                                                                                                                                                                                                                     |
| Future improvements                        | 1. Investigate the discrepancy between the data for the filling of and deliveries from the Lincoln bulk diesel tank.                                                                                                                                  |                                                                                                                                                                                                                                                                                                                     |

# SCOPE 1 DIRECT EMISSIONS

*Vehicle Fuel - Unleaded Petrol*



| Item                                    | Details                                                           | Explanation                                                                                                                                     |
|-----------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| GHG Source                              | Unleaded Petrol - road vehicles                                   | Includes use in cars and vans                                                                                                                   |
| Data Type                               | Weekly returns from fuel cards                                    | These are compiled into monthly spreadsheets, itemising quantities purchased per transaction (includes vehicle registration number)             |
| File name                               | Spreadsheet " Master Report new Carbon Emissions /Full data fuel" |                                                                                                                                                 |
| Emission Factor                         | 2.0844 kgCO2e/litre                                               | UK Govt GHG Reporting Factors 2024 – Fuels, Petrol (average biofuel blend). Note, this is a reduction from the 2023 figure of 2.10 kgCO2e/litre |
| Source Quantity (Litres)                | 9,479                                                             |                                                                                                                                                 |
| Emissions (kg CO2e)                     | 19,759                                                            |                                                                                                                                                 |
| Emissions (tonnes CO2e)                 | 19.76                                                             |                                                                                                                                                 |
| Assumptions/ Potential Sources of Error | N/A                                                               | N/A                                                                                                                                             |
| Future improvements                     | None needed                                                       | None needed                                                                                                                                     |

# SCOPE 1 DIRECT EMISSIONS

## *Line Marking - Propane*

Bulk propane is stored in tanks at Lincoln and Bradford, and used primarily to fill propane bottles carried on vehicles for use in line marking operations. Propane from the Lincoln bulk tank is also used in the combi-boiler at the Lincoln office and for fuelling forklifts.

| Item                                          | Details                                                                                                                                                                                                                                                                                                                                                                         | Explanation                                                                                                                                                                                                         |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GHG Source                                    | Propane stored in bulk tanks at Lincoln and Bradford                                                                                                                                                                                                                                                                                                                            | The propane from the bulk tanks is used to fill gas bottles for line marking heaters, etc. Also, propane from the bulk tank is used for the combi-boiler at Lincoln office, plus for fuelling forklifts at Lincoln. |
| Data Type                                     | <ol style="list-style-type: none"> <li>1. Invoices from Flogas for bulk deliveries</li> <li>2. Invoices from Flogas for deliveries of propane bottles</li> </ol>                                                                                                                                                                                                                | <ol style="list-style-type: none"> <li>1. List of invoices for bulk propane deliveries to Lincoln and Bradford, totalled for the year</li> <li>2. List of invoices for propane bottle deliveries</li> </ol>         |
| File Name                                     | <ol style="list-style-type: none"> <li>1. Spreadsheet " Master Report new Carbon Emissions /Flogas Bulk Propane"</li> <li>2. Spreadsheet " Master Report new Carbon Emissions /Gas Bottles"</li> </ol>                                                                                                                                                                          |                                                                                                                                                                                                                     |
| Emission Factor                               | <ol style="list-style-type: none"> <li>1. 1.54357 kgCO<sub>2</sub>e/litre</li> <li>2. 2.99763 kgCO<sub>2</sub>e/kg (from 2997.63 kgCO<sub>2</sub>e/tonne)</li> </ol>                                                                                                                                                                                                            | <ol style="list-style-type: none"> <li>1. UK Govt GHG Reporting Factors 2024 – Fuels, Propane</li> <li>2. As above</li> </ol>                                                                                       |
| Source Quantity                               | 119,084 litres<br>19 kg                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                     |
| Emissions (kg CO <sub>2</sub> e)              | <ol style="list-style-type: none"> <li>1. 183,814</li> <li>2. 57</li> </ol> Tot. 183,871                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                     |
| Emissions (tonnes CO <sub>2</sub> e)          | 183.87                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                     |
| Assumptions/<br>Potential Sources of<br>Error | <ol style="list-style-type: none"> <li>1. The spreadsheet does not include opening and closing stocks for the propane tanks at the beginning and end of the year</li> <li>2. Individual bottles of propane may have been bought on occasion for use at Lincoln and Bradford as a contingency measure. This is an extremely small quantity and has not been recorded.</li> </ol> |                                                                                                                                                                                                                     |
| Future<br>improvements                        | <ol style="list-style-type: none"> <li>1. Measure or estimate tank opening and closing stocks</li> </ol>                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                     |

## Building Heating - Natural Gas

## Building Heating - Natural Gas

The buildings at the two main depots use different fuels for heating:

- Lincoln – kerosene, stored in a tank, and bulk propane (see Line Marking – Propane)
- Bradford – natural gas

| Item                                    | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Explanation                                                              |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| GHG Source                              | Natural gas used for heating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | For the Bradford site                                                    |
| Data Type                               | Monthly invoices from the landlord                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | These are compiled into an annual spreadsheet                            |
| File Name                               | Spreadsheet " Master Report new Carbon Emissions/Bradford Gas and Electricity"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                          |
| Emission Factor                         | 0.1829 kgCO <sub>2</sub> e/kWh                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | UK Govt GHG Reporting Factors 2024 – Fuels, Natural Gas (Gross CV basis) |
| Source Quantity (kWh)                   | 46,374                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                          |
| Emissions (kg CO <sub>2</sub> e)        | 8,482                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                          |
| Emissions (tonnes CO <sub>2</sub> e)    | 8.48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                          |
| Assumptions/ Potential Sources of Error | <p>The landlord charges Jointline for 90% of utilities consumed at the site. It is not clear how accurately this represents Jointline's consumption.</p> <p>Note that in the 2022 baseline footprint, a conversion factor of 0.20 was used. That was the factor for Net CV rather than Gross CV, which it is understood is how the provider rates the product.</p> <p>The landlord is now providing the invoices, so now it is possible to record the actual consumption amounts, in kWh, rather than only being given the costs and having to assume a charge rate to convert to kWh.</p> |                                                                          |
| Future improvements                     | Explore how to confirm the proportion of total site gas usage attributable to Jointline (potentially installing sub-metering).                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                          |

# SCOPE 1 DIRECT EMISSIONS

*Building Heating - Kerosene*



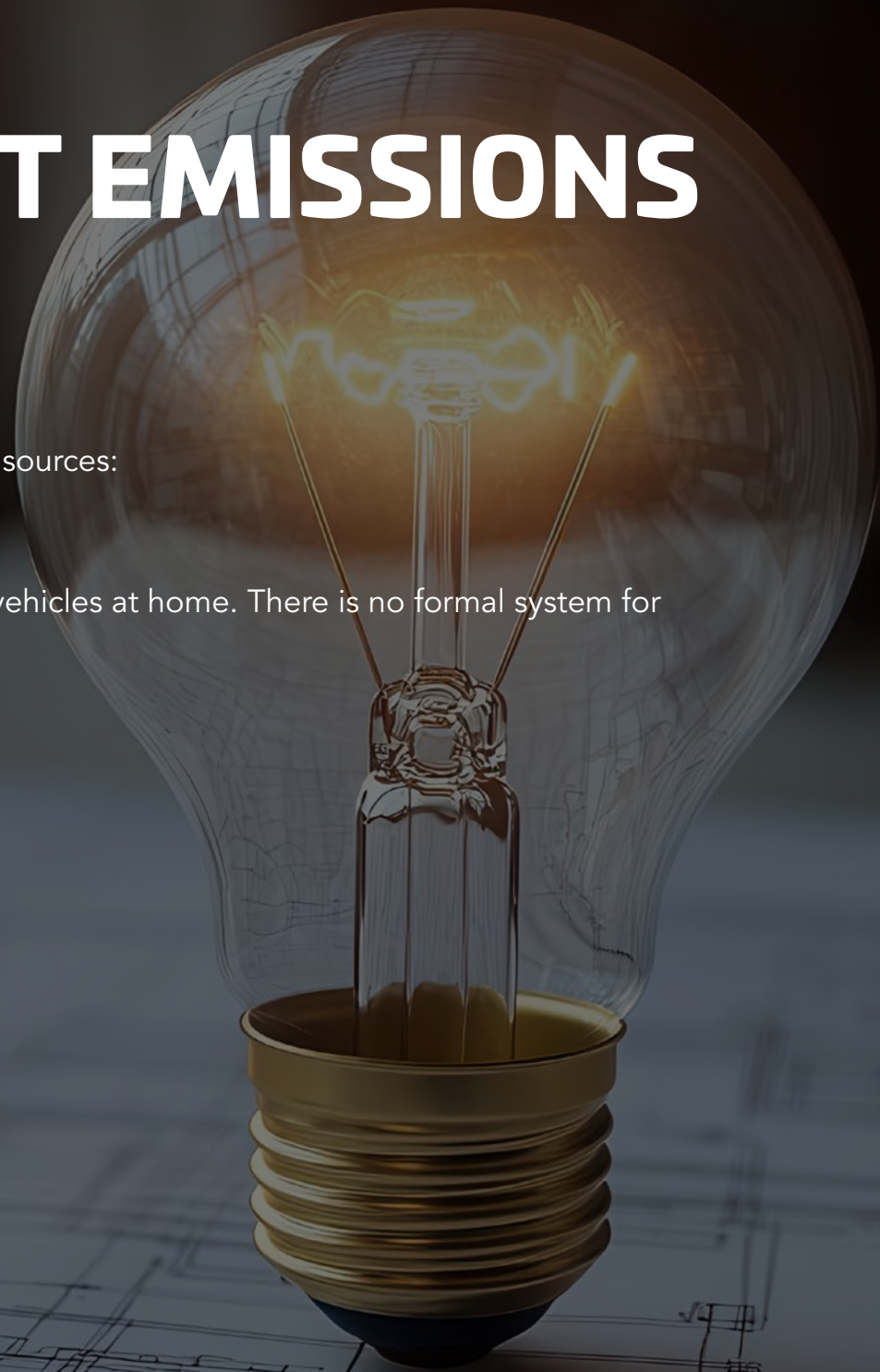
| Item                                    | Details                                                                                                                                                                                                                | Explanation                                             |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| GHG Source                              | Kerosene used in heating                                                                                                                                                                                               | For the Lincoln site                                    |
| Data Type                               | Periodic invoices                                                                                                                                                                                                      | These are compiled into an annual spreadsheet           |
| File Name                               | Spreadsheet " Master Report new Carbon Emissions /YourNRG"                                                                                                                                                             |                                                         |
| Emission Factor                         | 2.54015 kgCO <sub>2</sub> e/litre                                                                                                                                                                                      | UK Govt GHG Reporting Factors 2024 – Fuels, Burning Oil |
| Source quantity (litres)                | 1,000                                                                                                                                                                                                                  |                                                         |
| Emissions (kg CO <sub>2</sub> e)        | 2,540                                                                                                                                                                                                                  |                                                         |
| Emissions (tonnes CO <sub>2</sub> e)    | 2.54                                                                                                                                                                                                                   |                                                         |
| Assumptions/ Potential Sources of Error | There was only one delivery in 2024, and there are no details of opening and closing stocks at the beginning and end of the year. The purchased quantity may not realistically reflect actual consumption in the year. |                                                         |
| Future improvements                     | Measure or estimate tank opening and closing stocks                                                                                                                                                                    |                                                         |

# SCOPE 2 INDIRECT EMISSIONS (ELECTRICITY)

Electricity consumption data for the depots is from the following sources:

- Lincoln – utilities invoices, and
- Bradford – invoices from the landlord's providers.

Minor quantities of electricity are used by staff charging electric vehicles at home. There is no formal system for recording this.



| Item                                    | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Explanation                                                                                                                                                                             |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GHG Source                              | Electricity consumed at Lincoln and Bradford                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Used for building operations and car charging                                                                                                                                           |
| Data Type                               | <ol style="list-style-type: none"> <li>1. Lincoln – Monthly invoices from the utility provider</li> <li>2. Bradford - Monthly invoices from the landlord's providers</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p>1&amp;2. These are compiled into separate annual spreadsheets.</p> <p>Note that the Bradford invoices are for the entire site. Jointline is deemed to use 90% of the site total.</p> |
| File Name                               | <ol style="list-style-type: none"> <li>1. Spreadsheet " Master Report new Carbon Emissions /Lincoln Electricity"</li> <li>2. Spreadsheet " Master Report new Carbon Emissions /Bradford Gas and Electric"</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                      | <ol style="list-style-type: none"> <li>1. Invoices from utilities provider</li> <li>2. Invoices from landlord</li> </ol>                                                                |
| Emission Factor                         | 0.20705 kgCO <sub>2</sub> e/kWh                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | UK Govt GHG Reporting Factors 2024 – UK Electricity                                                                                                                                     |
| Source Quantity (kWh)                   | <ol style="list-style-type: none"> <li>1. 91,542</li> <li>2. 32,615</li> </ol> <p>Tot. 124,157</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                         |
| Emissions (kg CO <sub>2</sub> e)        | <ol style="list-style-type: none"> <li>1. 18,953.72</li> <li>2. 6,752.96</li> </ol> <p>Tot. 25,707</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                         |
| Emissions (tonnes CO <sub>2</sub> e)    | 25.71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                         |
| Assumptions/ Potential Sources of Error | <ol style="list-style-type: none"> <li>1. Monthly meter readings are provided on utility invoices, with the reading on the 15th of each month. The amounts provided in the January 2024 and 2025 invoices were halved to provide quantities for the first part of January 2024 and in the second half of December 2024.</li> <li>2. The landlord charges Jointline for 90% of utilities consumed at the site. It is not clear that this is a representative proportion of total site consumption.</li> <li>3. The invoices for October and November were missing. The amounts from the September and December invoices were used respectively.</li> </ol> |                                                                                                                                                                                         |
| Future improvements                     | <ol style="list-style-type: none"> <li>1. Explore how to confirm the proportion of total Bradford site electricity usage attributable to Jointline (potentially installing sub-metering).</li> <li>2. Capture data for employees' use of home electricity for vehicle charging.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                         |

# SCOPE 3 INDIRECT EMISSIONS

*Upstream Transportation and Distribution*



This category includes emissions from transportation and distribution (in vehicles and facilities not owned or controlled by Jointline) of products purchased by Jointline between selected tier 1 suppliers and its own operations. The “tonne kilometre” method was used, i.e. multiplying distances travelled and tonnages carried, and applying the relevant emission factor.

Data are for the eight top suppliers of road lining materials used by Jointline: Walker Sealants Ltd (Hope Valley, Derbyshire), Swarco Hitex (Ellesmere Port), Kestrel Thermoplastics Ltd (Coleraine, Northern Ireland), Leeson Polyurethanes Ltd (Leamington Spa), Pronto (Chesterfield), Fosroc (Fazeley, Tamworth), Reflecting Roadstuds Ltd (Halifax) and Solidlux (Holland). Emissions are based on the tonnages of materials supplied by these companies to the Jointline depots at Lincoln and Bradford. Distances between the suppliers and the depots were obtained from the AA Route Planner. The journeys from Kestrel and Solidlux include ferry crossings, but the routes and distances are not known.

| Item                                    | Details                                                                                                                                                                                                                  | Explanation                                                                                                   |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| GHG Source                              | Emissions from vehicles transporting road lining materials from suppliers to Jointline depots                                                                                                                            | The “tonne kilometre” method was used, based on distances travelled and quantities of raw materials delivered |
| Data Type                               | Tonnages from invoices, distances estimated from AA Route Planner                                                                                                                                                        |                                                                                                               |
| File name                               | Spreadsheet “Jointline Carbon Data 2024/ Raw materials distance”                                                                                                                                                         |                                                                                                               |
| Emission Factor                         | 0.09752 kgCO <sub>2</sub> e/tonne.km                                                                                                                                                                                     | UK Govt GHG Reporting Factors 2024 – Freightng Goods, all HGVs, average laden                                 |
| Source quantity (tonne.km)              | 287,118.60                                                                                                                                                                                                               |                                                                                                               |
| Emissions (kg CO <sub>2</sub> e)        | 27,999.81                                                                                                                                                                                                                |                                                                                                               |
| Emissions (tonnes CO <sub>2</sub> e)    | 28.00                                                                                                                                                                                                                    |                                                                                                               |
| Assumptions/ Potential Sources of Error | 1. The AA Route Planner provides distances for a selection of routes. The routes driven may vary.<br>2. No details are available of the type of goods vehicle or how laden, so the average emission factor was selected. |                                                                                                               |
| Future improvements                     | 1. Continue to extend the data to a large number of suppliers<br>2. Confirm route details (including ferry crossings)                                                                                                    |                                                                                                               |

# SCOPE 3 INDIRECT EMISSIONS

## *Upstream Fuel and Energy*

These emissions in the supply chain are from the production and delivery of fuel and energy used by Jointline. This includes:

- Emissions from the production and delivery of fuel to Jointline depots or to filling stations); and
- Emissions from the fuel used by power stations feeding the national grid and emissions associated with transmission and distribution losses occurring in the delivery system.

The emissions are calculated using the data for the quantities of fuel and energy consumed and by applying the relevant emissions factors provided in the UK Government GHG Reporting Factors 2024.

| Item                                    | Details                                                                                                                                                                                                                                                                                                                                                                                                                                          | Explanation                                                                                                      |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| GHG Source                              | Emissions from supply of fuel and energy                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                  |
| Data Type                               | Fuel and energy data used for Scope 1 and Scope 2 emissions                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                  |
| File Name                               | The same sources referenced in the Scope 1 and Scope 2 fuel and energy sections.                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                  |
| Emission Factor (kgCO2e)                | Diesel, WTT - fuels/Diesel (average biofuel blend) 0.61101<br>Unleaded, WTT - fuels/Petrol (average biofuel blend) 0.58094<br>Propane, WTT - fuels/Propane 0.1817<br>Propane, WTT - fuels/Propane 0.35267<br>Natural gas, WTT - fuels/Nat Gas (mains), Gross CV 0.03021<br>Kerosene, WTT - fuels/Burning oil 0.53078<br>Grid electricity, Transmission & distribution UK 0.018<br>Grid electricity, WTT- UK electricity (generation+T&D) 0.04987 | UK Govt GHG Reporting Factors 2024 – Well-to-tank (WTT) fuels, Transmission and distribution, WTT UK electricity |
| Source Quantity (tonnes)                | Diesel 460,562.82 Litres<br>Unleaded 9,479.31 Litres<br>Propane 119,084.00 Litres<br>Propane 19.00 Kg<br>Natural gas 46,373.85 kWh<br>Kerosene 1,000.00 Litres<br>Grid electricity 124,156.85 kWh                                                                                                                                                                                                                                                |                                                                                                                  |
| Emissions (kg CO2e)                     | 318,955.17                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                  |
| Emissions (tonnes CO2e)                 | 318.96                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                  |
| Assumptions/ Potential Sources of Error | 1. As for the calculations for Scope 1 and Scope 2 fuel and energy emissions                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                  |
| Future improvements                     | 2. As for the calculations for Scope 1 and Scope 2 fuel and energy emissions                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                  |

# SCOPE 3 INDIRECT EMISSIONS

*Disposal and Treatment of Waste*



Waste disposal and management documentation is collated at Lincoln, and includes waste collections from the depots and project locations.

The collected data include waste descriptions, EWC codes, individual load quantities (mostly by weight) and, for most loads, details of the fate. Waste collections from site operations typically are arranged by site staff, with copies of waste transfer notes collated at head office. However, in 2024, due to staff changes, these were not collated for the first half of the year. Totals for the second half of the year have been doubled to provide an annual estimate. In addition, some of the required details are missing for a small number of the loads. In addition, Biffa provides accurate weight data for collections of mixed recyclable and general waste from Lincoln and Bradford.

The UK Government emission factors for waste (2023) have been used to calculate emissions. These cover a relatively small number of waste categories, so the different waste types reported by Jointline have been aggregated into the most applicable category for which there is an emission factor; these are: average construction, mixed WEEE (includes batteries), commercial and industrial, green waste (organic: garden waste), mixed scrap metal and paints/oils/lining materials (the generic emission factor for disposal by combustion was used), mixed recycling and general wastes.

According to the UK Government's guidance for using the emission factors ("2023 Government Greenhouse Gas Conversion Factors for Company Reporting Methodology Paper for Conversion factors, Final Report", June 2023), the emission factors for waste materials destined for recycling and waste-to-energy include only the estimated emissions for transporting the waste (as the beneficial use of the waste negates the negative impacts from the emissions caused by processing it). The emission factors for landfilling do include emissions from the actual disposal of the waste, in addition to its transport. The emission factors use assumed journey distances for the various categories of waste.

| Item                     | Details                                                                                                                                                                                                 | Explanation                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GHG Source               | Emissions from disposal and treatment of waste from Jointline depots and project locations                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                    |
| Data Type                | Tonnages from waste transfer notes and reports from Biffa                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                    |
| File Name                | Spreadsheet " Jointline 2024 WTN and WCN " and "Biffa 2024 Service-history-report_27012025"                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                    |
| Emission Factor          | <ul style="list-style-type: none"> <li>Average construction - 0.985 kgCO<sub>2</sub>e/tonne</li> <li>Mixed WEEE, mixed scrap, and paints/oil/lining materials – 6.41 kgCO<sub>2</sub>e/tonne</li> </ul> | <p>UK Govt GHG Reporting Factors 2024 – Waste disposal, construction waste (average), wood, mixed scrap and mixed WEEE - recycled</p> <p>Refuse - Commercial and industrial waste – combustion (for paints etc), landfill and closed loop recycling (for mixed recycling and general wastes collected by Biffa)</p> <p>Water treatment (for septic tank waste)</p> |
| Source Quantity (tonnes) | Total waste = 1,332.92                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                    |

| Item                                          | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Explanation |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Emissions (kg CO2e)                           | 2,376.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |
| Emissions (tonnes CO2e)                       | 2.38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |
| Assumptions/<br>Potential Sources of<br>Error | <ol style="list-style-type: none"> <li>1. Details for waste collected from operational sites for the first half of the year were not available. The figures for the second half of the year were doubled to estimate the annual total</li> <li>2. Assumes all loads of waste collected, other than by Biffa) are full loads</li> <li>3. Uncertainty regarding fate of some of the wastes, so assumptions are made</li> <li>4. The emission factor used for septic tank waste is the Defra factor for waste water treatment, which does not include the transport of septic tank waste</li> <li>5. Note, Defra emission factors assign emissions from treatment of the waste to the users of the recycled or recovered materials, in line with the GHG Protocol. Those emission factors are based solely on transport to waste facilities.</li> </ol> |             |
| Future improvements                           | <ol style="list-style-type: none"> <li>1. Records could be kept to show how full skips/lorries are at time of waste collection (for example 25%, 50%, 75%, 100%)</li> <li>2. Request details of waste fates from waste contractors</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |

# SCOPE 3 INDIRECT EMISSIONS

*Business Travel Emissions*



As in previous years, a substantial proportion of business travel is in company-owned vehicles (reported as Scope 1 emissions for petrol/ diesel and Scope 2 for charging of electric vehicles).

In addition to these, business travel is also undertaken by air and ferry, within the UK and to various destinations in Europe and further afield. Data for business travel involving rail, taxi and rental vehicles are not available.

For business travel, emission factors are available for emissions from travel itself and also for “well to tank” (WTT), which accounts for the emissions associated with the production and delivery of the fuel used for travel. In the table below, totals are provided with and without WTT emissions.

| Item                                    | Details                                                                                                                                                                                                                                                                                                                                  | Explanation                                                                                                                                                                                  |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GHG Source                              | Emissions from business travel                                                                                                                                                                                                                                                                                                           | For travel within the UK, Europe and the Americas, by air and ferry                                                                                                                          |
| Data Type                               | Travel bookings                                                                                                                                                                                                                                                                                                                          | These are compiled into an annual spreadsheet. The data provided include individual journey origin and destination, plus numbers of passengers and vehicles/ flight class                    |
| File Name                               | Spreadsheet “Jointline Carbon Data 2024/ Overseas travel”                                                                                                                                                                                                                                                                                |                                                                                                                                                                                              |
| Emission Factor                         | Various – see spreadsheet                                                                                                                                                                                                                                                                                                                | UK Govt GHG Reporting Factors 2024 – Business travel, air, economy class and business class (plus WTT), Business travel, international rail (plus WTT) and – Business travel, sea (plus WTT) |
| Source Quantity                         | Various – see spreadsheet                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                              |
| Emissions (kg CO2e)                     | Without WTT<br>39,979.49                                                                                                                                                                                                                                                                                                                 | With WTT<br>44,917.47                                                                                                                                                                        |
| Emissions (tonnes CO2e)                 | 39.98                                                                                                                                                                                                                                                                                                                                    | 44.92                                                                                                                                                                                        |
| Assumptions/ Potential Sources of Error | 1. For flights, <a href="https://www.greatcirclemapper.net">https://www.greatcirclemapper.net</a> was used to calculate distances. For ferry journeys, <a href="https://sea-distances.org/">https://sea-distances.org/</a> or operators’ data was used. When calculating the 2022 emissions, these websites were checked against others. |                                                                                                                                                                                              |
| Future improvements                     | 1. Determine mechanisms to capture other forms of business travel data.                                                                                                                                                                                                                                                                  |                                                                                                                                                                                              |

# SCOPE 3 INDIRECT EMISSIONS

## *Employee Commuting*

Emissions for employee commuting have been estimated using the following assumptions:

- Each individual's commute requires the use of a car
- The distance travelled daily by each individual is twice the distance from the individual's home to the designated work location (Lincoln or Bradford depots)
- Staff work at their designated locations five days per week and on average 45 weeks per year (this includes an allowance for annual leave, bank holidays and sickness, etc.)

This approach is likely to over-estimate actual emissions, as staff may have other reasons for not attending their designated places of work. Also, some staff may share journeys, although no information is currently available to quantify this.

| Item                                    | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Explanation                                               |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| GHG Source                              | Emissions from individuals' journeys to their designated places of work                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Designated work locations are Lincoln and Bradford depots |
| Data Type                               | Distance in miles from homes to places of work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                           |
| File Name                               | Spreadsheet "Commuting mileage 2024"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                           |
| Emission Factor                         | Average car unknown fuel = 0.2686 kg CO2e/mile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UK Govt GHG Reporting Factors 2024 – Passenger vehicles   |
| Source quantity (tonnes)                | Total miles = 2,332,953                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Sum of individual's daily return mileage x 5 x 45         |
| Emissions (kg CO2e)                     | 626,631                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                           |
| Emissions (tonnes CO2e)                 | 626.63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                           |
| Assumptions/ Potential Sources of Error | 1. Assumes all staff travel to work by car, with no lift-sharing<br>2. Potential double counting of company petrol cars<br>3. Potential double counting of electric company cars<br>4. Assumes all staff commute to their designated workplace every working day (no allowance for other activities such as travel to project sites or meetings, etc.)<br>5. Fuel type not known<br>Note: The mileage data were calculated based on the proportion of the year that individuals were employed (i.e., taking into account starting and leaving dates). |                                                           |
| Future improvements                     | 1. Undertake research into individuals' commuting patterns, potentially by survey<br>2. Ensure that double counting is avoided for vehicles fuelled by Jointline (i.e. Scopes 1 and 2)                                                                                                                                                                                                                                                                                                                                                                |                                                           |

# SCOPE 3 INDIRECT EMISSIONS

*Downstream Transportation and Distribution*



There are no emissions to report in this category, as Jointline's operations involve road lining, construction or related projects, with no products transported or distributed to customers, other than materials used in these operations. The emissions associated with these activities are included in Jointline's Scope 1 direct emissions.

# EMISSION TRENDS

*Approach and Data*



The tables in this section provide details of the various categories of emissions in Scopes 1, 2 and 3 for the 2022 baseline and the 2023 and 2024 calendar years, allowing comparisons to be made on an annual basis and against the baseline.

This year, an additional category of Scope 3 emissions, upstream fuel and energy not included in Scopes 1 and 2 (i.e. supply chain emissions associated with the production and delivery of fuel and energy), was included for the first time. These figures are calculated from the fuel and energy consumption data already collected, so it was possible to calculate the same category of emissions for previous years. The Scope 3 totals for 2022 and 2023 have been adjusted accordingly.

# EMISSION TRENDS

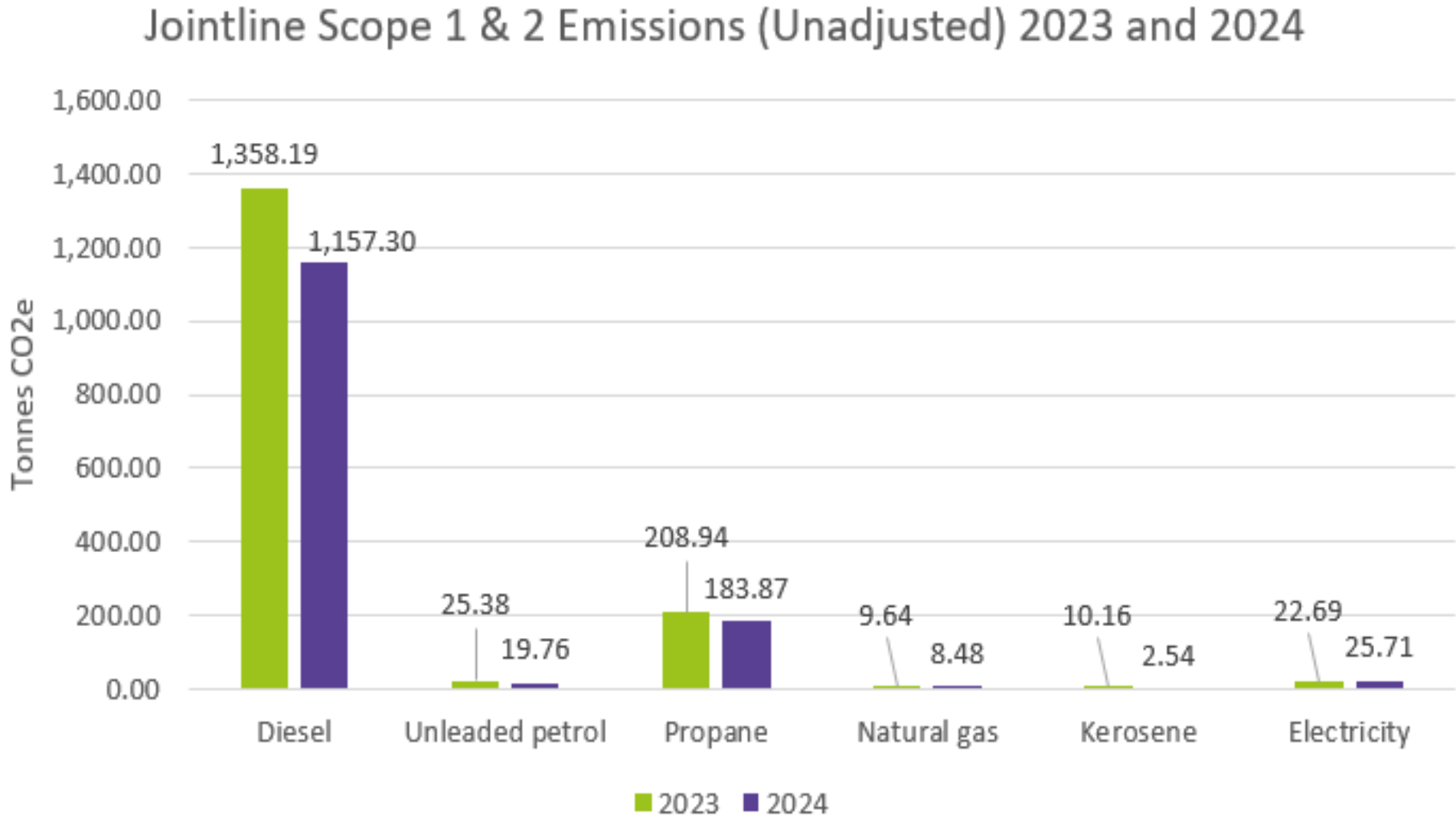
*Comparison with the Previous Year*



Overall, the total emissions for the reported Scopes 1, 2 and 3 categories included in the footprints fell from the total for 2023 by 13.71% in 2024 in absolute terms, with the direct Scope 1 and electricity Scope 2 emissions, over which Jointline can exercise control, falling by 18.74%.

| Comparison of Emissions 2023-2024, Unadjusted for Turnover or Inflation |             |          |           |
|-------------------------------------------------------------------------|-------------|----------|-----------|
| Emission Scopes                                                         | Tonnes CO2e |          | % Change  |
|                                                                         | 2023        | 2024     | 2023-2024 |
| Scope 1 (t CO2e)                                                        | 1,612.30    | 1,371.95 | -19.11    |
| Scope 2 (t CO2e)                                                        | 22.69       | 25.71    | 7.69      |
| Scope 3 (t CO2e)                                                        | 1029.24     | 1,020.88 | -5.72     |
| Scopes 1 & 2 (t CO2e)                                                   | 1,634.99    | 1,397.66 | -18.74    |
| All Scopes (t CO2e)                                                     | 2,664.22    | 2,418.54 | -13.71    |

However, Jointline’s workload increased again from 2023-2024, so in order to provide a more meaningful comparison, it is good practice to apply a normalising factor to the data. In this case, turnover is used (turnover increased by 5.2% 2023-2024). If turnover is not adjusted to account for inflation, then the comparison can be misleading. The Building Cost Information Service (BCIS) inflation rate of 2.3% for 2024 was used.



The table below provides a summary of the Scopes 1, 2 and 3 data for 2023 and 2024, normalised by applying turnover unadjusted for inflation.

| Comparison of Emissions 2023-2024, Normalised by Turnover, Unadjusted for Inflation) |             |          |                               |        |          |
|--------------------------------------------------------------------------------------|-------------|----------|-------------------------------|--------|----------|
| Emission Scopes                                                                      | Tonnes CO2e |          | Tonnes CO2e/£million Turnover |        | % Change |
|                                                                                      | 2023        | 2024     | 2023                          | 2024   | 2023-24  |
| Scope 1 (t CO2e)                                                                     | 1,612.30    | 1,371.95 | 103.41                        | 83.65  | -19.11   |
| Scope 2 (t CO2e)                                                                     | 22.69       | 25.71    | 1.46                          | 1.57   | 7.69     |
| Scope 3 (t CO2e)                                                                     | 1,029.24    | 1,020.88 | 66.01                         | 62.24  | -5.72    |
| Scopes 1 & 2 (t CO2e)                                                                | 1,634.99    | 1,397.66 | 104.87                        | 85.21  | -18.74   |
| All Scopes (t CO2e)                                                                  | 2,664.22    | 2,418.54 | 170.88                        | 147.45 | -13.71   |

On this basis, other than emissions from electricity, unadjusted, normalised reductions in emissions of 5-19% were achieved (-13.71% average for all Scopes).

Using an inflation figure of 2.3%, turnover in 2023 can be adjusted (i.e. increased by 2.3%, to provide a more meaningful comparison with 2024 normalised data, as shown below.

| Comparison of Emissions by Scope 2023-2024, Normalised by Turnover (5.2% increase), 2023 data Adjusted for Inflation (2.3%) |             |            |                               |        |          |
|-----------------------------------------------------------------------------------------------------------------------------|-------------|------------|-------------------------------|--------|----------|
| Emission Scopes                                                                                                             | Tonnes CO2e |            | Tonnes CO2e/£million Turnover |        | % Change |
|                                                                                                                             | 2023        | 2024       | 2023                          | 2024   | 2023-24  |
| Scope 1 (t CO2e)                                                                                                            | 1,612.30    | 1,371.95   | 101.09                        | 83.65  | -17.25   |
| Scope 2 (t CO2e)                                                                                                            | 22.69       | 25.71      | 1.42                          | 1.57   | 10.17    |
| Scope 3 (t CO2e)                                                                                                            | 1,029.24    | 1,020.88   | 64.53                         | 62.24  | -3.55    |
| Scopes 1 & 2 (t CO2e)                                                                                                       | 1,634.99    | 1,397.66   | 102.51                        | 85.21  | -16.87   |
| All Scopes (t CO2e)                                                                                                         | 2,664.22    | 2,418.54   | 167.04                        | 147.45 | -11.73   |
| Turnover (£)                                                                                                                | 15,949,676  | 16,402,000 |                               |        | 2.84     |

1. 2022 turnover adjusted by 11.1% to allow for inflation

Using turnover, adjusted for inflation, the normalised data show an average decrease in emissions across all three Scopes of 11.73%, considerably ahead of the yearly reduction target of 5.5%. The table below shows changes in the key categories of Scopes 1 and 2 emissions. These include reductions of 18-27% for vehicle fuels and propane, but increases in buildings electricity emissions of 5.5% (with reductions in emissions from gas and kerosene). The buildings emissions are a far smaller part of the overall carbon footprint than vehicle emissions.

| Comparison of Scopes 1 & 2 Emissions Categories 2023-2024, Normalised by Turnover and Adjusted for Inflation |                    |                    |                     |                                  |
|--------------------------------------------------------------------------------------------------------------|--------------------|--------------------|---------------------|----------------------------------|
| Scopes 1 & 2 Emissions Categories                                                                            | 2023 (tonnes CO2e) | 2023 (tonnes CO2e) | Absolute Change (%) | Normalised (Adjusted) Change (%) |
| Diesel                                                                                                       | 1,358.19           | 1,157.30           | -14.79              | -20.63                           |
| Unleaded Petrol                                                                                              | 25.38              | 19.76              | -22.14              | -27.48                           |
| Propane                                                                                                      | 208.94             | 183.87             | -12.00              | -18.03                           |
| Natural Gas                                                                                                  | 9.64               | 8.48               | -11.97              | -18.01                           |
| Kerosene                                                                                                     | 10.16              | 2.54               | -75.00              | -76.71                           |
| Electricity                                                                                                  | 22.69              | 25.71              | 13.30               | 5.53                             |

# EMISSION TRENDS

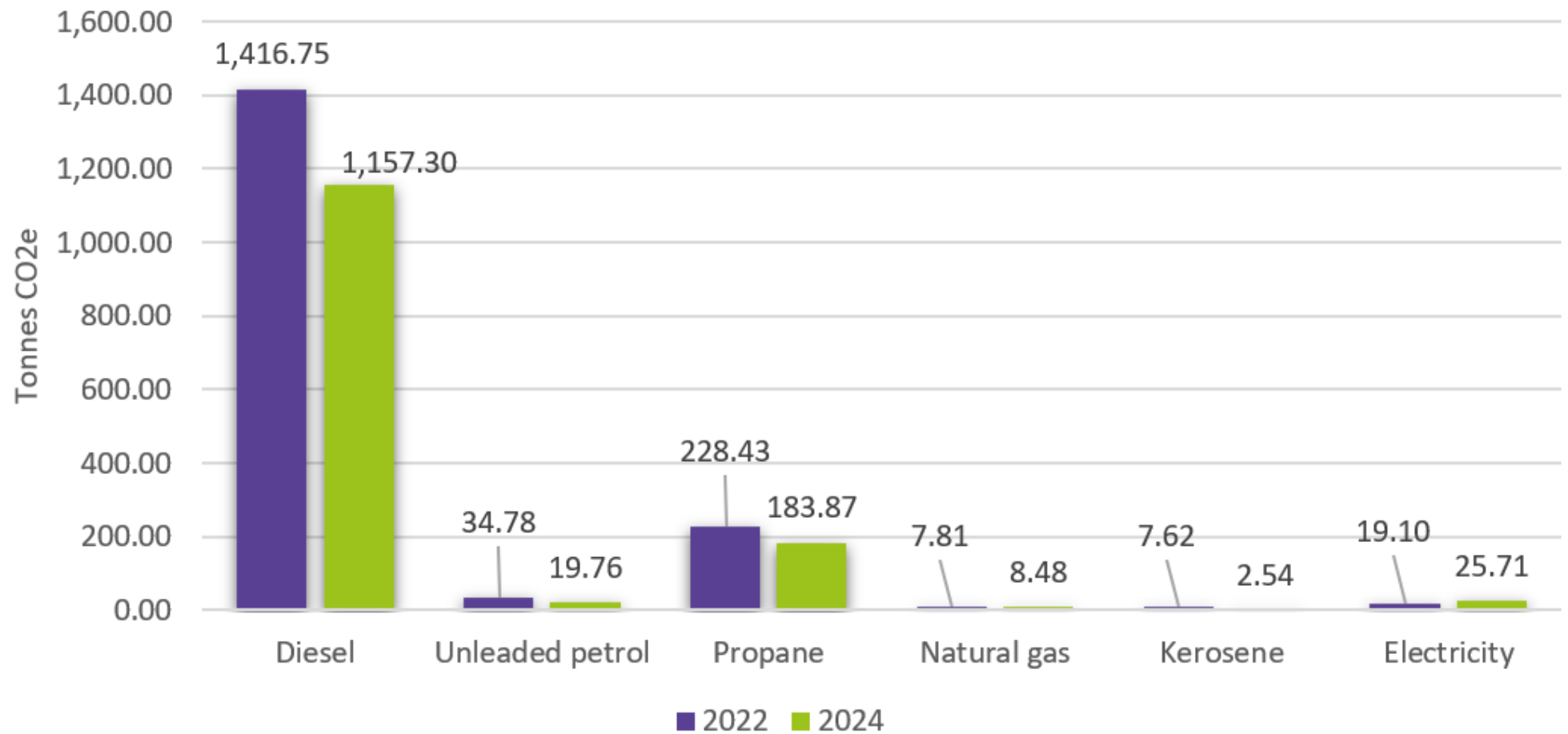
*Comparison with the baseline*



Overall, the total emissions for the reported Scopes 1, 2 and 3 categories included in the footprints fell from the total for 2022 4 by 11.29% in 2024 in absolute terms, with the direct Scope 1 and electricity Scope 2 emissions, over which Jointline can exercise control, falling by 18.48%.

| Comparison of Emissions 2022-2024, Unadjusted for Turnover or Inflation |             |          |           |
|-------------------------------------------------------------------------|-------------|----------|-----------|
| Emission Scopes                                                         | Tonnes CO2e |          | % Change  |
|                                                                         | 2022        | 2024     | 2022-2024 |
| Scope 1 (t CO2e)                                                        | 1,695.39    | 1,371.95 | -19.08    |
| Scope 2 (t CO2e)                                                        | 19.10       | 25.71    | 34.57     |
| Scope 3 (t CO2e)                                                        | 1,011.94    | 1,020.88 | 0.88      |
| Scopes 1 & 2 (t CO2e)                                                   | 1,714.49    | 1,397.66 | -18.48    |
| All Scopes (t CO2e)                                                     | 2,726.44    | 2,418.54 | -11.29    |

## Jointline Scope 1 & 2 Emissions (Unadjusted) 2022 and 2024



However, Jointline's workload increased from 2022-2024, so in order to provide a more meaningful comparison, it is good practice to apply a normalising factor to the data. In this case, turnover is used (turnover increased by 22.66% 2022-2024). If turnover is not adjusted to account for inflation, then the comparison can be misleading. The Building Cost Information Service (BCIS) inflation rates of 8.6% for 2023 and 2.3% for 2024 were used.

The table below provides a summary of the Scopes 1, 2 and 3 data for 2022 and 2024, normalised by applying turnover unadjusted for inflation.

| Comparison of Emissions 2022-2024, Normalised by Turnover, Unadjusted for Inflation) |             |            |                               |        |          |
|--------------------------------------------------------------------------------------|-------------|------------|-------------------------------|--------|----------|
| Emission Scopes                                                                      | Tonnes CO2e |            | Tonnes CO2e/£million Turnover |        | % Change |
|                                                                                      | 2022        | 2024       | 2022                          | 2024   | 2022-24  |
| Scope 1 (t CO2e)                                                                     | 1,695.39    | 1,371.95   | 126.79                        | 83.65  | -34.03   |
| Scope 2 (t CO2e)                                                                     | 19.10       | 25.71      | 1.43                          | 1.57   | 9.71     |
| Scope 3 (t CO2e)                                                                     | 1,011.94    | 1,020.88   | 75.68                         | 62.24  | -17.75   |
| Scopes 1 & 2 (t CO2e)                                                                | 1,714.49    | 1,397.66   | 128.22                        | 85.21  | -33.54   |
| All Scopes (t CO2e)                                                                  | 2,726.44    | 2,418.54   | 203.89                        | 147.45 | -27.68   |
| Turnover (£)                                                                         | 13,371,871  | 16,402,000 |                               |        | 22.66    |

On this basis, other than emissions from electricity, unadjusted, normalised reductions in emissions of 17-34% were achieved (-22.66% average for all Scopes).

Using a compound inflation figure of 11.1%, turnover in 2022 can be adjusted (i.e. increased by 11.1%, to provide a more meaningful comparison with 2024 normalised data, as shown below.

| <b>Comparison of Emissions by Scope 2022-2024, Normalised by Turnover<br/>(22.66% increase), 2022 data Adjusted for Inflation (11.1%)</b> |                         |            |                                  |        |          |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------|----------------------------------|--------|----------|
| Emission<br>Scopes                                                                                                                        | Tonnes CO2e             |            | Tonnes CO2e/£million<br>Turnover |        | % Change |
|                                                                                                                                           | 2022                    | 2024       | 2022                             | 2024   | 2022-24  |
| Scope 1 (t CO2e)                                                                                                                          | 1,695.39                | 1,371.95   | 114.12                           | 83.65  | -26.71   |
| Scope 2 (t CO2e)                                                                                                                          | 19.10                   | 25.71      | 1.29                             | 1.57   | 21.88    |
| Scope 3 (t CO2e)                                                                                                                          | 1,011.94                | 1,020.88   | 68.12                            | 62.24  | -8.63    |
| Scopes 1 & 2 (t CO2e)                                                                                                                     | 1,714.49                | 1,397.66   | 115.41                           | 85.21  | -26.16   |
| All Scopes (t CO2e)                                                                                                                       | 2,726.44                | 2,418.54   | 183.53                           | 147.45 | -19.66   |
| Turnover (£)                                                                                                                              | 14,855,854 <sup>1</sup> | 16,402,000 |                                  |        | 10.41    |

2. 2022 turnover adjusted by 11.1% to allow for inflation

Using turnover, adjusted for inflation, the normalised data show an average decrease in emissions across all three Scopes of 19.66%, considerably ahead of the two-yearly reduction target of 11%. The table below shows changes in the key categories of Scopes 1 and 2 emissions. These include reductions of 10-32% for vehicle fuels and propane, but increases in buildings energy emissions of 10-24%. The buildings emissions are a far smaller part of the overall carbon footprint than vehicle emissions.

| Comparison of Scopes 1 & 2 Emissions Categories 2023-2024, Normalised by Turnover and Adjusted for Inflation |                    |                    |                     |                                  |
|--------------------------------------------------------------------------------------------------------------|--------------------|--------------------|---------------------|----------------------------------|
| Scopes 1 & 2 Emissions Categories                                                                            | 2022 (tonnes CO2e) | 2024 (tonnes CO2e) | Absolute Change (%) | Normalised (Adjusted) Change (%) |
| Diesel                                                                                                       | 1,416.75           | 1,157.30           | -18.31              | -23.91                           |
| Unleaded Petrol                                                                                              | 34.78              | 19.76              | -43.19              | -47.08                           |
| Propane                                                                                                      | 228.43             | 183.87             | -19.51              | -25.03                           |
| Natural Gas                                                                                                  | 7.81               | 8.48               | 8.63                | 1.18                             |
| Kerosene                                                                                                     | 7.62               | 2.54               | -66.68              | -68.96                           |
| Electricity                                                                                                  | 19.10              | 25.71              | 34.57               | 25.34                            |

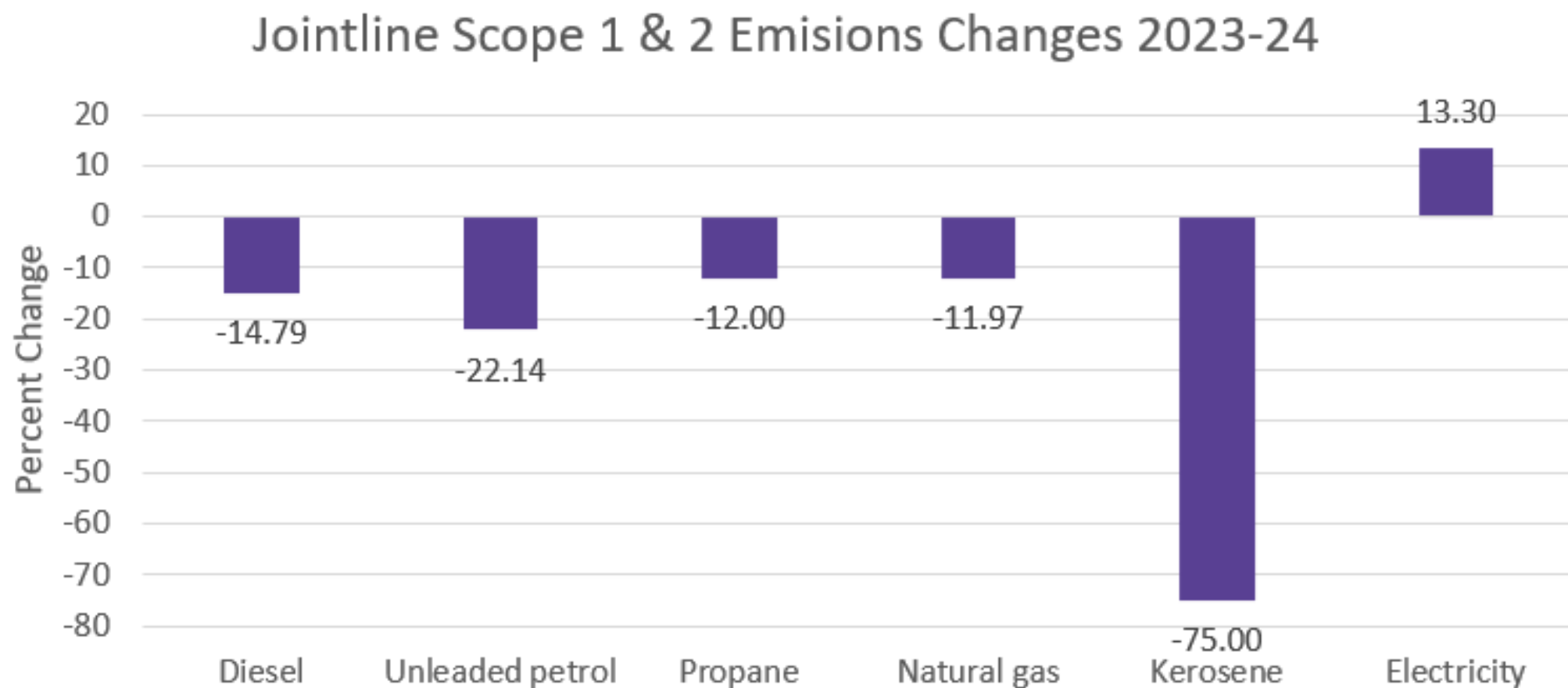
# CONCLUSION



Jointline has achieved a substantial reduction in carbon emissions in from 2022 to 2024. The absolute reduction in Scopes 1 and 2 (18.48%) is well ahead of the net zero pathway (based on an annual emissions reduction target of 5.5%). Scope 3 emissions increased by less than 1%, primarily due to an increase in commuting emissions in 2023, the largest by far of the Scope 3 source categories, and business travel in 2024. This resulted in an overall reduction of Scopes 1, 2 and 3 emissions of 11.29%, again head of the net zero pathway%. Buildings electricity consumption has increased, and this potentially is due to the ongoing transition to battery electric cars, and corresponds with a reduction in petrol consumption.

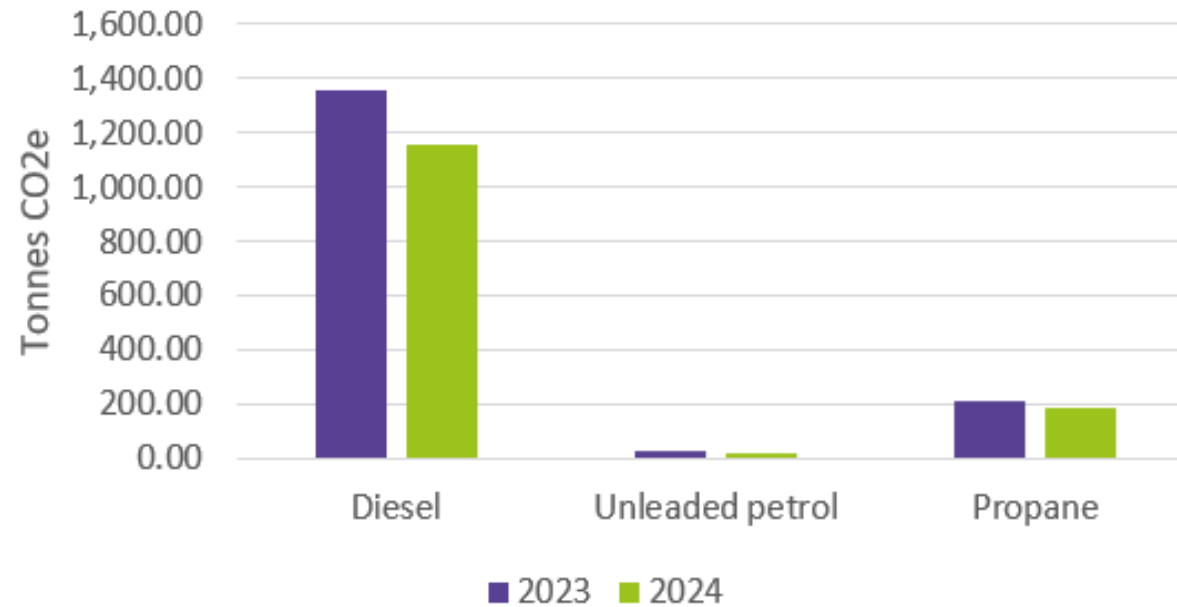
When normalisation (adjusted for inflation) is taken into account, the reduction in emissions is more pronounced, at 19.66% overall, significantly ahead of the 5.5% annual target. Scope 1 emissions (primarily from vehicle fuel) are down by over 26%. Scope 2 (electricity primarily in buildings) increased by almost 22% and Scope 3 emissions are reduced by 8.63%.

The following figures illustrate elements of absolute emissions performance.

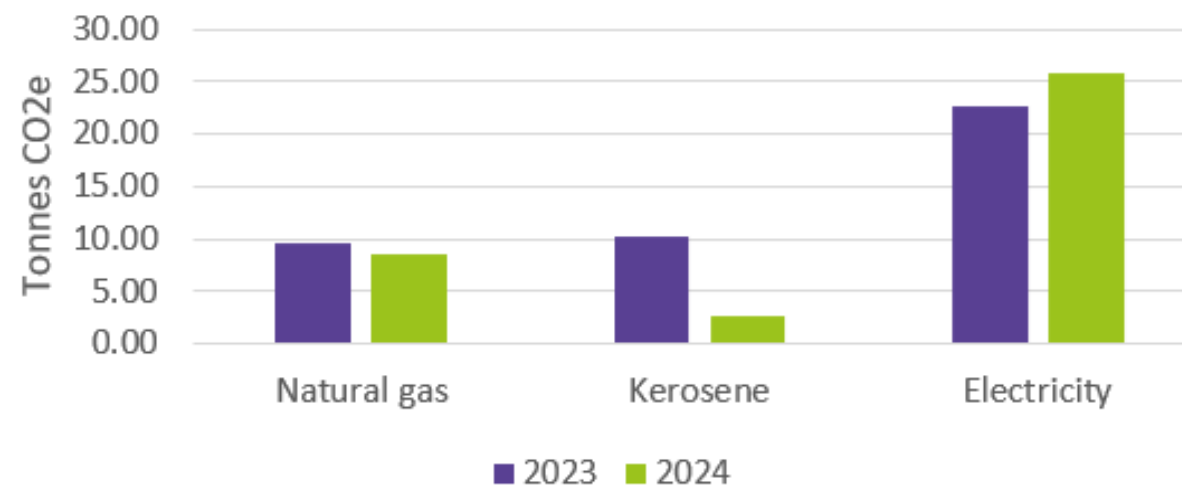


Note: The dramatic reduction in kerosene us may be due to inconsistencies in stock measurements.

## Jointline Vehicle and Plant Emissions 2023 and 2024



## Jointline Depot Emissions 2023 and 2024

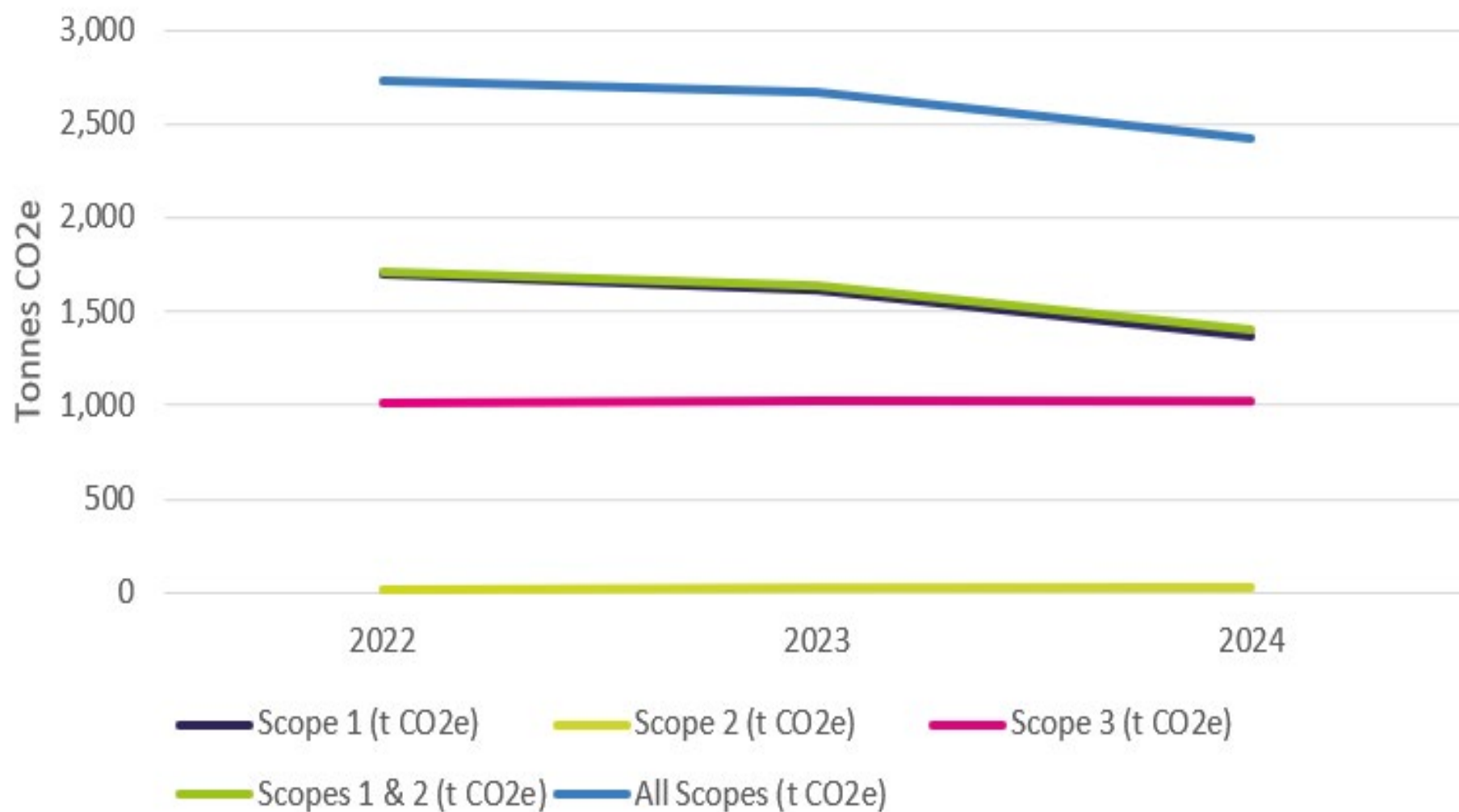


The following demonstrate the reductions achieved annual 2022-2024.

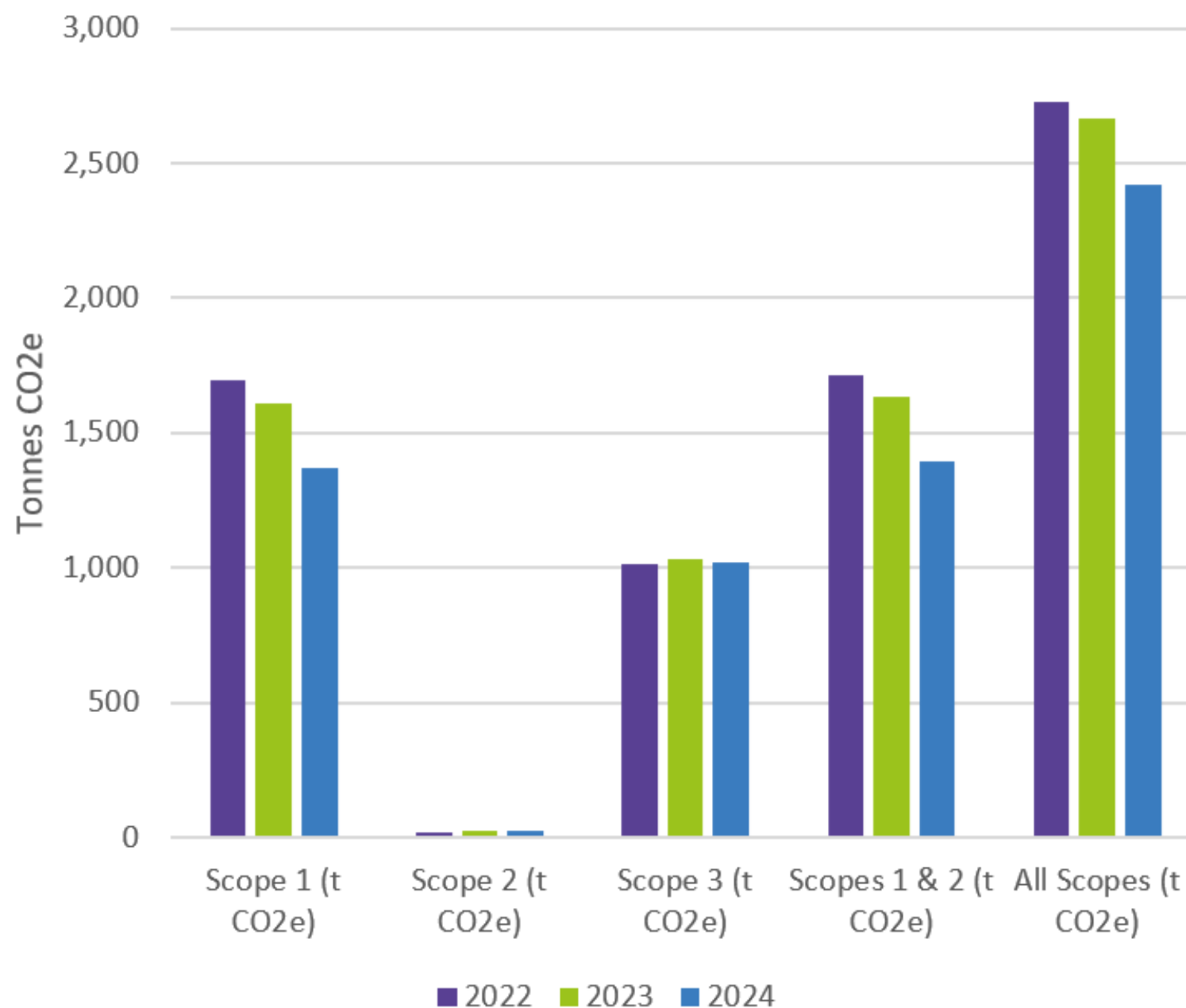
Absolute (unadjusted)

| Comparison of Scopes 1, 2 and 3 Emissions 2022, 2023 and 2024<br>(Absolute, unadjusted) |             |          |          |
|-----------------------------------------------------------------------------------------|-------------|----------|----------|
| Emissions Scope                                                                         | Tonnes CO2e |          |          |
|                                                                                         | 2022        | 2023     | 2024     |
| Scope 1 (t CO2e)                                                                        | 1,695.39    | 1,612.30 | 1,371.95 |
| Scope 2 (t CO2e)                                                                        | 19.10       | 22.69    | 25.71    |
| Scope 3 (t CO2e)                                                                        | 1,011.94    | 1,029.24 | 1,020.88 |
| Scopes 1 & 2 (t CO2e)                                                                   | 1,714.49    | 1,634.99 | 1,397.66 |
| All Scopes (t CO2e)                                                                     | 2,726.44    | 2,664.22 | 2,418.54 |

## Jointline Absolute (Unadjusted) Emissions, 2002, 2023 and 2024



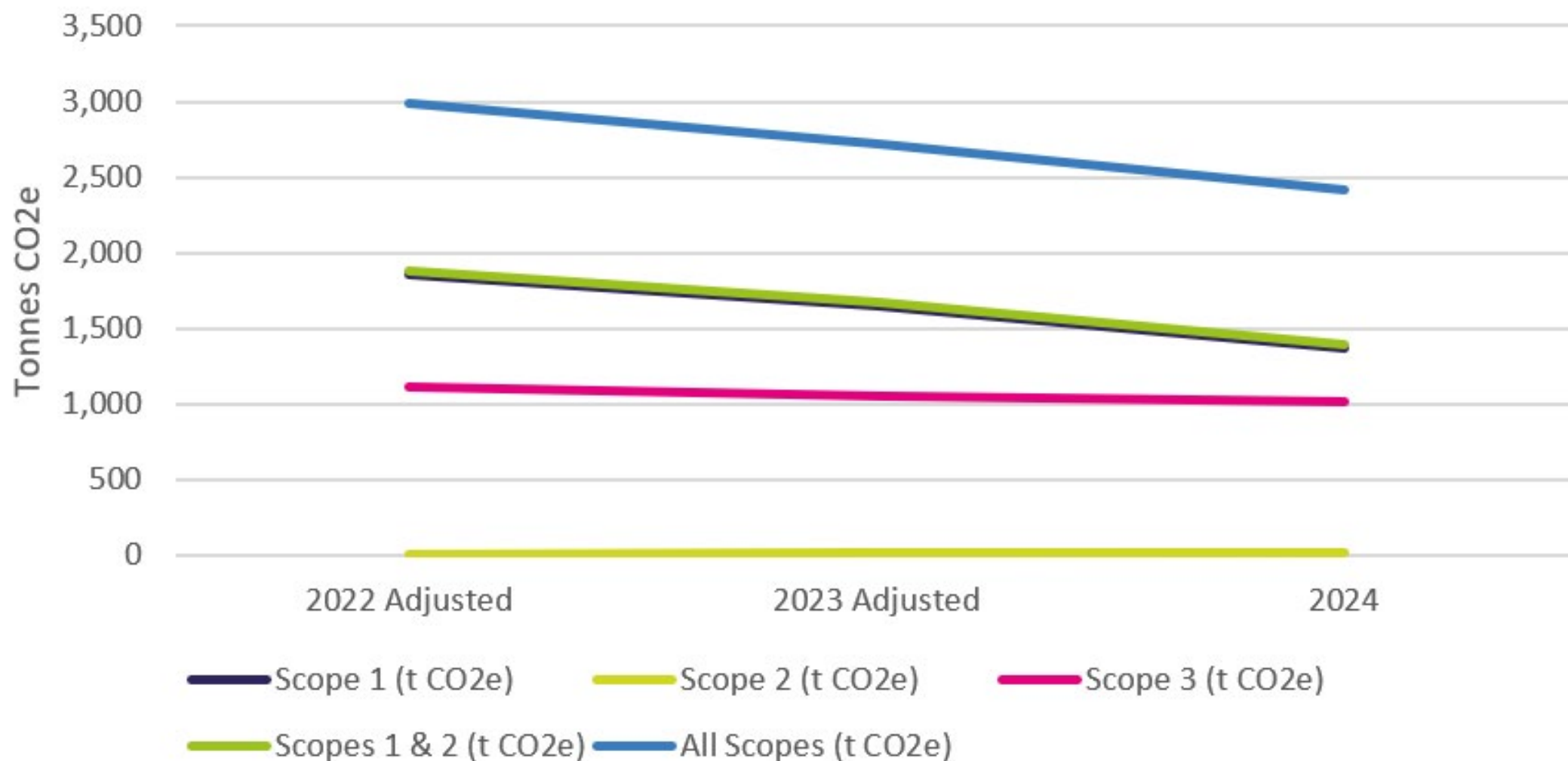
## Jointline Absolute (Unadjusted) Emissions, 2002, 2023 and 2024



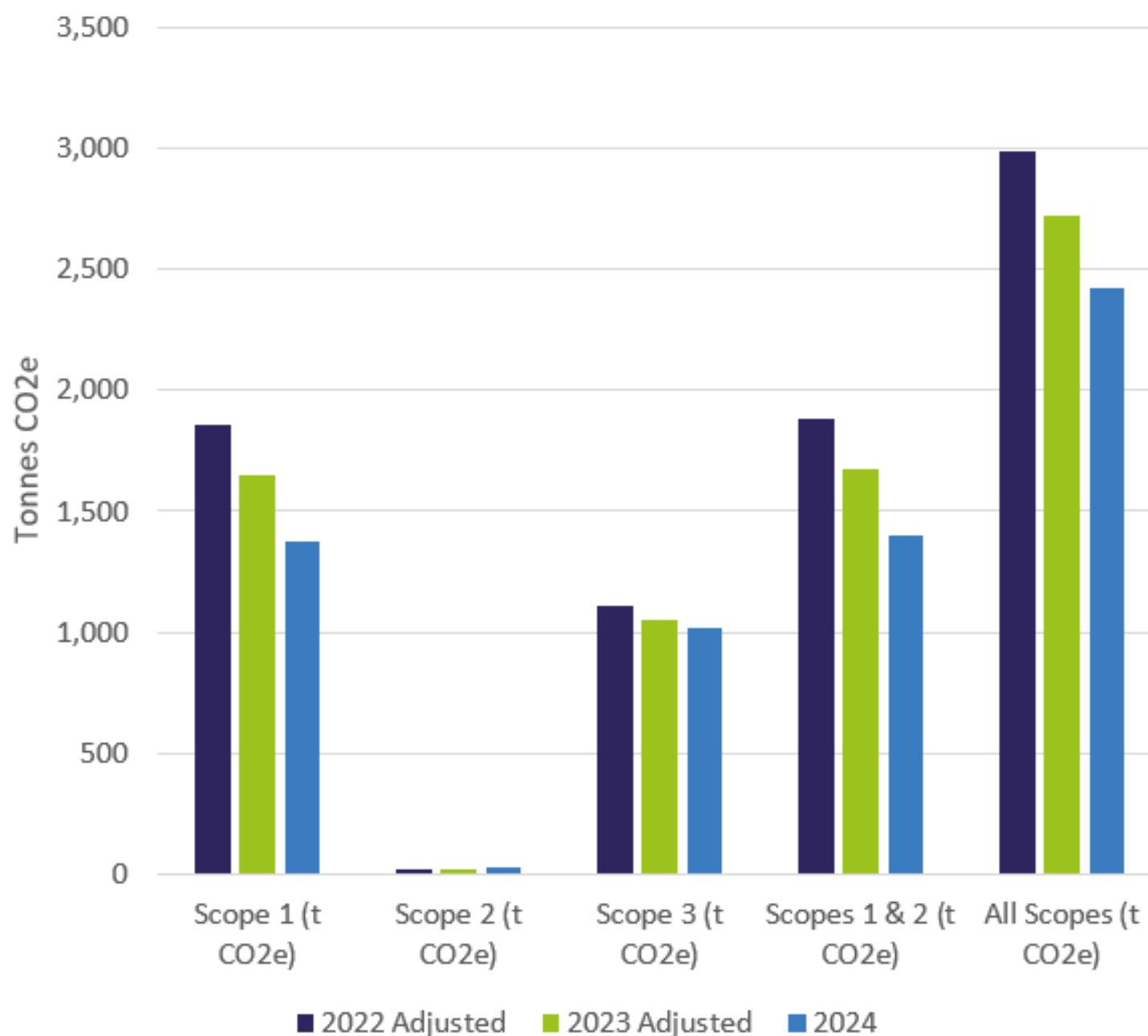
## Comparison of Scopes 1, 2 and 3 Emissions 2022, 2023 and 2024, Normalised by Turnover and Adjusted for Inflation

| Emissions Scopes      | Tonnes CO2e   |               |            |
|-----------------------|---------------|---------------|------------|
|                       | 2022 Adjusted | 2023 Adjusted | 2024       |
| Scope 1 (t CO2e)      | 1,859.17      | 1,648.41      | 1,371.95   |
| Scope 2 (t CO2e)      | 20.95         | 23.20         | 25.71      |
| Scope 3 (t CO2e)      | 1,109.70      | 1,052.29      | 1,020.85   |
| Scopes 1 & 2 (t CO2e) | 1,880.11      | 1,671.61      | 1,397.66   |
| All Scopes (t CO2e)   | 2,989.81      | 2,723.90      | 2,418.51   |
| Turnover              | 14,957,507    | 16,043,222    | 16,402,000 |

## Jointline Emissions Normalised by Turnover and Allowing For Inflation, 2002, 2023 and 2024



## Jointline Emissions Normalised by Turnover and Allowing For Inflation, 2002, 2023 and 2024



# FUTURE WORK



## 2024 Footprint

A quality control check of the 2024 footprint data will be undertaken internally by Jointline. In checking the 2022 and 2023 data, only some minor errors were identified, and it is anticipated that quality control checks of the data reported in this 2024 draft will not identify material discrepancies.

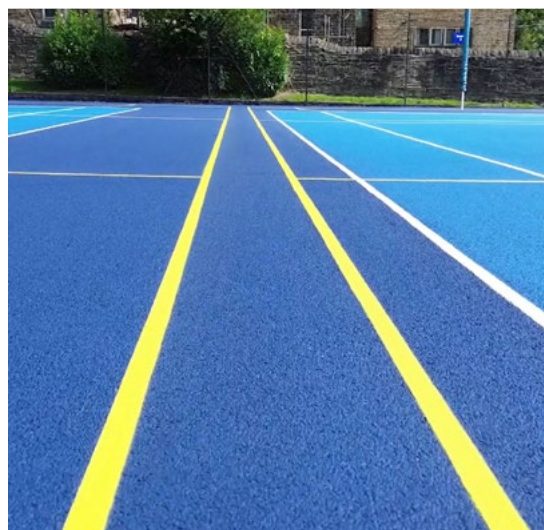
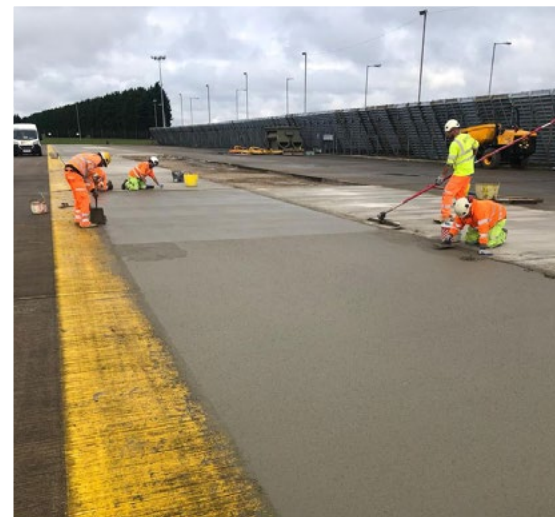
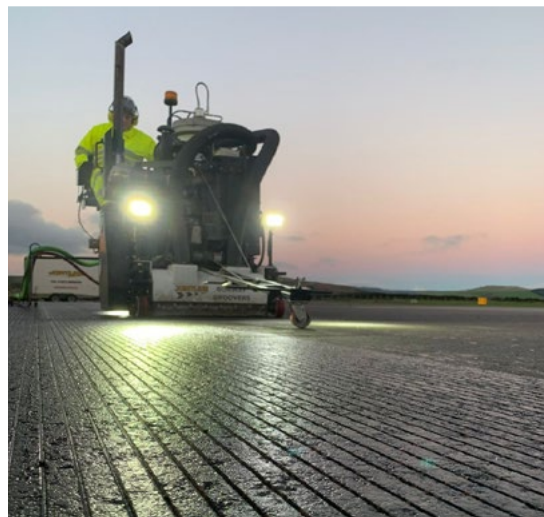
## The Jointline Net Zero Pathway

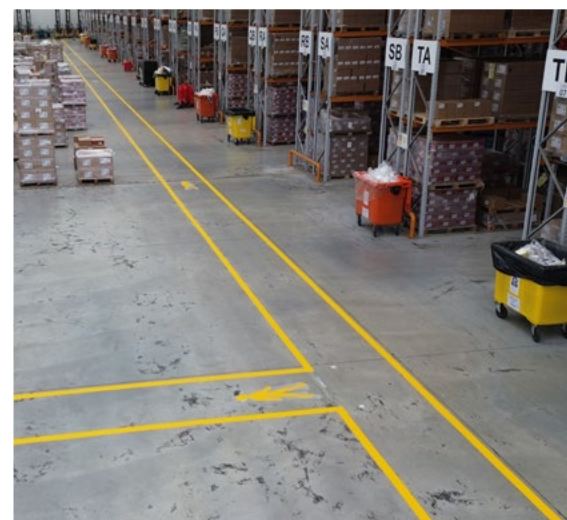
Jointline is committed to achieving Net Zero by 2040, ten years ahead of the Government target. This requires an annual reduction equivalent to approximately 5.5% of current emissions.

Substantial progress has been made in the last two years in developing initiatives to deliver substantial reductions in fuel consumption and resultant emissions. As demonstrated by the 2022-2024 emissions data, Jointline is firmly ahead of its net zero emissions reduction pathway.

More work is needed to forecast the extent to which these will help to achieve the Net Zero goal, and this will include a more detailed review of trends from 2022-2024. Work will continue to identify further reduction opportunities, including through collaboration with clients and suppliers.

Jointline's Net Zero plan is set out in its Net Zero plan report, which will be updated annually.







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The Way Ahead  
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