

Carbon Reduction Plan



Supplier name: **Melius Homes Limited**

Publication date: November 2021 – Revision November 2023

Commitment to achieving Net Zero

Melius Homes is committed to achieving Net Zero emissions by 2050.

Baseline Emissions Footprint

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

| | |
|--|---------------------------------|
| Baseline Year: 2020-21 | |
| Additional Details relating to the Baseline Emissions calculations. | |
| Our carbon emissions baseline was established by Nottingham Trent University's Sustainability Team as part of the ERDF Sustainability in Enterprise programme. Whilst it is best practice to measure carbon emissions across a specific calendar or financial year, data was not available for a full year due to disruption from the Covid-19 pandemic and a newly opened premises. Instead, data has been used during the months the business has been operational and then scaled up to represent an estimation across a 12-month period. As a result, our carbon emission baseline is for a typical year. For areas where data was incomplete estimates have been made. | |
| Baseline year emissions: 2020-21 | |
| EMISSIONS | TOTAL (tCO₂e) |
| Scope 1 | 34.82 |
| Scope 2 | 4.96 |
| Scope 3 (Included Sources) | 22.46 |
| Total Emissions | 64.10 |

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Current Emissions Reporting

| Reporting Year: 2022-23 | |
|-------------------------------|----------------------------|
| EMISSIONS | TOTAL (tCO ₂ e) |
| Scope 1 | 62.04 |
| Scope 2 | 0.65 |
| Scope 3 (Included Sources) | 38.3 |
| Total Emissions | 100.99 |

Emissions reduction targets

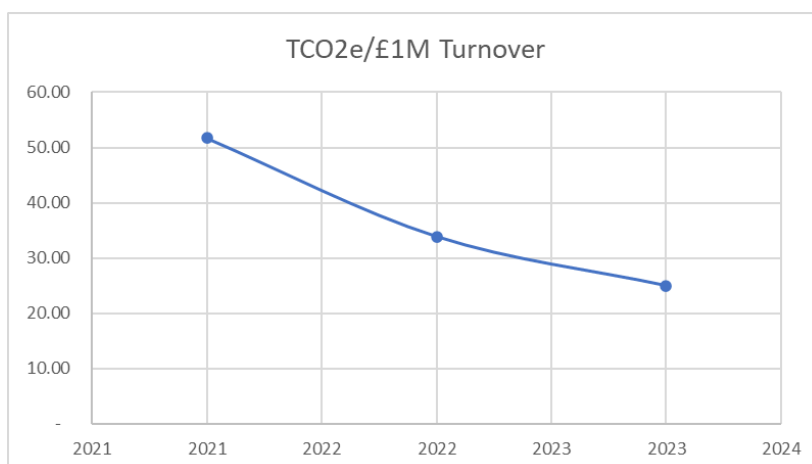
In order to continue our progress to achieving Net Zero, we have adopted the following carbon reduction targets.

We are planning to grow the business activity in the next five years which is expected to result in an increase in absolute carbon emissions. We will therefore be focused on reducing our carbon emissions intensity and will measure this against tCO₂e per £100k revenue.

Our baseline intensity for emissions within scope is 51.69tCO₂e / £1M.

We project that relative carbon emissions will decrease over the next five years to 42.73 tCO₂e / £100k by 2026. This is a reduction of 20 %

Progress against these targets can be seen in the graph below:



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Carbon Reduction Projects

Completed Carbon Reduction Initiatives

The following environmental management measures and projects have been completed or implemented prior to the 2020-21 baseline. The carbon emission reduction achieved by these schemes equate to 15.9 tCO₂e, and the measures will be in effect when performing the contract.

Brief details of some of our completed carbon reduction projects.

1. We have signed up to Race to Zero
2. We have replaced all existing halogen lighting within our factory and offices with LED lighting.
3. We have created a roof light to the production facility to increase natural daylight.
4. We have implemented waste management plans on site and in our factory process
5. We have selected materials with low embodied carbon for our offsite panel manufacture, namely timber and mineral wool insulation.
6. We have reduced business travel through the increased use of virtual meetings

We plan to implement the following carbon reduction measures:

7. Establish visibility of business mileage emissions and set an internal target to reduce business miles.
8. Set an internal target to reduce employee commuting miles by car.
9. Ensure all site accommodation uses LED lighting.
10. Install water meters on all temporary supplies.
11. Transition to a lower carbon heating system.
12. Run an Employee Energy Engagement Campaign

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Declaration and Sign Off

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

Emissions have been reported and recorded in accordance with the published reporting standard for Carbon Reduction Plans and the GHG Reporting Protocol corporate standard¹ and uses the appropriate Government emission conversion factors for greenhouse gas company reporting².

Scope 1 and Scope 2 emissions have been reported in accordance with SECR requirements, and the required subset of Scope 3 emissions have been reported in accordance with the published reporting standard for Carbon Reduction Plans and the Corporate Value Chain (Scope 3) Standard³.

This Carbon Reduction Plan has been reviewed and signed off by the board of directors (or equivalent management body).

Signed on behalf of the Supplier:



Robert Lambe FCIOB

Managing Director

Date: 14 November 2023

¹ <https://ghgprotocol.org/corporate-standard>

² <https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>

³ <https://ghgprotocol.org/standards/scope-3-standard>

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Appendix A: BASELINE DATA

| Energy Consumption | | | |
|----------------------|---|---|---|
| Scope | Data Required | Sources | Additional notes/questions |
| Scope 1 | Natural gas - consumption (kWh) and spend | Utility bills/ landlord | This can be estimated as a proportion of total kWh consumed across the shared premises based on proportion of occupied floor area for Melius Homes) |
| Scope 1 | Quantities of any other fuels used at manufacturing facility AND at construction site such as diesel, biofuels, LPG etc and spend. | Purchasing records | An estimated annual figure can be calculated from a few months of data if that is all that is available |
| Scope 2 | Electricity consumption (kWh) and spend | Sub meter reads/invoices | An estimated annual figure can be calculated from a few months of data if that is all that is available |
| | Electricity generated on-site i.e. solar panels and used on-site (kWh) | Landlord | This might be available on your electricity invoices; however if not, it is worth asking Nottingham City Homes if they have any information about how much onsite generation is being used by your area of the building as this is counted as a carbon reduction for your baseline operational carbon emissions |
| Travel and Transport | | | |
| Scope | Data Required | Suggested sources | Additional notes/questions |
| Scope 1 | Company owned or leased vehicles - fuel type, quantity consumed (litres) and spend OR mileage if known. | Purchasing records and/or mileage from vehicles | An estimated annual figure can be calculated from a few months of data if that is all that is available |
| Scope 3 | Business Travel - fuel type and quantity (litres) or mileage claimed by type of travel – car/train/ flight. | Purchasing records or expenses claims | An estimated annual figure can be calculated from a few months of data if that is all that is available |
| Scope 3 | Staff commuting – approximation of staff commuting modes (car/public transport/walk or cycle) and average distance. | Info from staff | It would be helpful to know how many staff are commuting to the main site and project site by car and roughly the distance |

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Better living

travelled. We can help estimate this using average commuting distances if need be.

Waste Management

| Scope | Data Required | Suggested sources | Additional notes/questions |
|---------|--|---|---|
| Scope 3 | <p>Waste disposal tonnage by waste stream (if known) and spend.</p> <p>If unknown, we can help you calculate tonnage if you're able to provide:</p> <ul style="list-style-type: none"> • Container type/size • Waste type and disposal method (e.g. recycled, composted, landfilled) • Frequency of collection | Invoices or waste management contractor | It is worth asking your waste contractor for total tonnage to date and the end-of-life treatment (i. e. is it taken for recycling, landfill or incineration). An estimated annual figure can be calculated from a few months of data if that is all that is available |
| Scope 3 | Business Travel - fuel type and quantity (litres) or mileage claimed by type of travel – car/train/ flight. | Purchasing records or expenses claims | An estimated annual figure can be calculated from a few months of data if that is all that is available |
| Scope 3 | Staff commuting – approximation of staff commuting modes (car/public transport/walk or cycle) and average distance. | Info from staff | It would be helpful to know how many staff are commuting to the main site and project site by car and roughly the distance travelled. We can help estimate this using average commuting distances if need be. |

Water Consumption

| Scope | Data Required | Suggested sources | Additional notes/questions |
|---------|---|-------------------|---|
| Scope 3 | <p>Water consumption (m3 or million litres) and spend.</p> <p>Water discharged (m3 or million litres) and spend</p> | Invoices | If this is not known, we can estimate total annual water consumption based on industry average of 50 litres water used per day per FTE for general usage such as toilet, kitchen etc. |