



Carbon Reduction Plan

Supplier name: **Indaver Rivenhall Ltd**

Publication date: **April 2025**

Commitment to achieving Net Zero

Indaver Rivenhall Ltd is committed to achieving Net Zero emissions by 2050.

Baseline Emissions Footprint

Estimated Emissions Footprint	
Additional Details relating to the Estimated Emissions calculations.	
<p>Indaver Rivenhall Ltd is currently under construction with commissioning planned for October 2025. As the facility is not yet operational, there are no historical records available to establish a baseline emission footprint. Consequently, an estimated baseline emission footprint was developed by applying the GHG emission calculation methodology from the GHG Protocol guideline to calculated data based on the facility's design capacity.</p> <p>This facility is a combined heat and power plant with a total design capacity of 595,000 tonnes of municipal solid waste per year. Greenhouse gas emissions were calculated using the MSW stationary combustion emission factor from the 2006 IPCC guideline, assuming the plant operates at its full allowable capacity. Additionally, calculations for the required designed auxiliary fuel and the total power consumption were performed using the data of UK government conversion factors for GHG reporting 2024.</p> <p>The purpose of this approach is to establish reliable evidence for determining GHG baseline emission footprint, which will serve as the most appropriate indicator for ongoing emission monitoring and reporting in the future.</p>	
Estimated annual emissions	
EMISSIONS	TOTAL (tCO₂e)
Scope 1	548,982 (Estimated value)
Scope 2	9,491 (Estimated value)
Scope 3 (Included Sources)	4,423 (Estimated value) <p>This value is the sum of the following scope 3 emission sources, as selected for reporting by UK Government.</p> <ul style="list-style-type: none">▪ Upstream transportation & distribution: 3,654▪ Waste generated in operation: 563



	<ul style="list-style-type: none"> ▪ Business travel: Not quantified as yet. ▪ Employee commuting: 206 ▪ Downstream transport & distribution: Not applicable.
Total Emissions	558,473 (Scope 1 & 2 emissions only) 562,896 (Scope 1, 2 & 3 emissions from the included sources)

Baseline Year: To be 2026	
Additional Details relating to the Baseline Emissions calculations.	
<p>Indaver Rivenhall Ltd has yet to establish baseline data due to not yet being an operational facility. Commissioning is due to start in Q4 2025 with takeover due at the end of Q1 2026. Baseline data will be collected during 2026.</p> <p>Indaver Group has committed to assess and reduce its carbon emissions and Rivenhall will be included in these calculations once operational. Indaver has joined the Science Based Target initiative (SBTi) as part of the drive towards a carbon zero future.</p>	
Baseline year emissions: To be 2026	
EMISSIONS	TOTAL (tCO₂e)
Scope 1	Not yet available
Scope 2	Not yet available
Scope 3 (Included Sources)	Not yet available
Total Emissions	Not yet available

Current Emissions Reporting

Reporting Year: To be 2026	
EMISSIONS	TOTAL (tCO₂e)

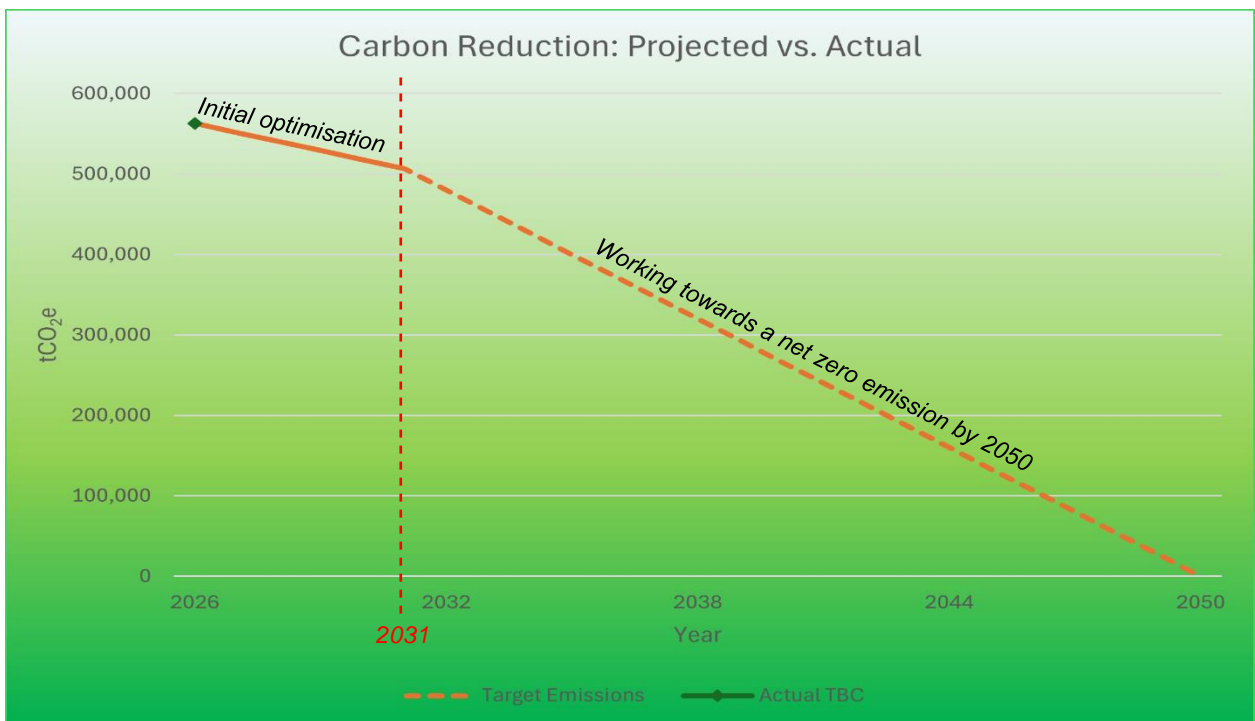
Scope 1	Not yet available
Scope 2	Not yet available
Scope 3 (Included Sources)	Not yet available
Total Emissions	Not yet available

Emissions reduction targets

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

We project that carbon emissions will decrease over an initial 5 year period from 2026 to 2031 by approximately 10%, in which optimisation strategy for operation of the plant was considered to predict the estimated carbon reduction over the period. Given the early operation phase of the plant, the estimation was conservatively anticipated for the first 5 years. This is a projection based on the target to net zero by 2050, incorporating future planning and technologies to achieve net zero.

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





Carbon Reduction Initiatives

The Indaver Rivenhall IWMF is currently under construction. Indaver has implemented the latest technology into the design and build for the plant, making it an already carbon efficient facility once operational. Some of the carbon reduction measures being implemented are the use of LED lights throughout the facility, the decision to purchase electric fork lift trucks and road going vehicles – all of which can be charged on site from our own power generation. Furthermore, the plan includes the installation of electric vehicle charging infrastructure that will accommodate the simultaneous charging of 8 EV vehicles in the staff/visitor parking area.

The project incorporates a sedum roof system covering an area of 9,789m² as part of the commitment to developing an environmentally sustainable facility, which is expected to reduce 29.92tCO₂ of the emission per year and to take approximately 8.2 years of payback time to offset its CO₂ emission in installation of 246.68tCO₂, based on the calculation from the research¹.

Tree planting is well underway with approximately 7,100 planted so far of native woodland mix and woodland edge mix, and a further 12,715 still to be planted. The extensive tree planting around the site is expected to have carbon sequestration effect.

The Rivenhall site has already achieved the ISO 14001 Environmental Management Certification and is subject to the ongoing UKAS audit process.

Indaver Group has signed up to the Science Based Targets initiative (SBTi) for which data collection has started Group wide during 2024. This information will form part of the reporting process according to the EU CSRD (Corporate Sustainability Reporting Directive) that will be mandatory from the 1st January 2026. Rivenhall will also be covered within this reporting.

In the future we hope to implement further measures such as:

At Indaver Rivenhall IWMF there are plans to build a carbon capture plant to further reduce CO₂ emissions to atmosphere. These plans are at advanced stages of development and consultation with prospective supply chains have been taking place.

In addition to carbon capture, Indaver Rivenhall are also in detailed talks locally about heat networks and supply to businesses and potential housing developments. This would reduce net carbon emissions from those using our heat supply and offsetting our own carbon footprint.

¹ Kuronuma, T., Watanabe, H., Ishihara, T., Kou, D., Touda, K., Ando, M., & Shindo, S. (2018). CO₂ Payoff of Extensive Green Roofs with Different Vegetation Species. *Sustainability*, 10(7), 2256. <https://doi.org/10.3390/su10072256>



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.

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:


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Date: 21st March 2025
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