

# **Carbon Reduction Plan**

Supplier name: Meticuly

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## **Commitment to achieving Net Zero**

METICULY 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. We have established a new baseline in 2024 that is more comprehensive than the previous one.

Meticuly Company Limited is a patient-specific implant manufacturer specialised in 3D printing. Our main locations including office and manufacturing site are located in Bangkok, Thailand. The products are produced in a clean area according to ISO13485. The current factory does not need to use a power generator and the manufacturing process generates ultra-low waste and only slightly releases GHGs into the atmosphere. Therefore, our process estimated ultra-low emissions in scope 1 of carbon reduction under the Environmental Reporting Guidelines (March 2019).

Scope 2 emissions refer to the electricity purchased. In 2024, our new baseline year, we purchased 164,647.54 kWh in Thailand. Using the 0.39 kgCO2/kWh emission factor to calculate the carbon dioxide equivalent this comes out at 64.26 tons of carbon dioxide. Additionally, Meticuly has an office in the UK, where the electricity of 736 kWh was purchased. Using the provider's emission factor of 0.068 kgCO2/kWh the carbon dioxide equivalent comes out at 0.05 tons. Total carbon emissions for scope 2 emissions are 64.26 tons of carbon dioxide.

Scope 3 emissions refer to 5 topics that increased from our previous report, we have more concerns and try to record further information related to scope 3 which are employee commuting, business travel, waste generation in operation, upstream transportation and distribution, and downstream transportation and distribution cover our business operation in Thailand, America, Europe, and Asia. The total emissions in each topic are 63.29, 1,266.33, 2.62, 4,859.05, and 38,409.82 tCO<sub>2</sub>e, respectively. The overall emission is approximately 44,601.11 tCO<sub>2</sub>e.

### Baseline Year: 2024

#### Additional Details relating to the Baseline Emissions calculations

Our manufacturing site is built in a limited area in the capital of Thailand and we utilise highly effective manufacturing processes. Therefore, there are no identified scope 1 emissions in the baseline year.

Scope 2 emissions are related to the electricity we buy. It's around 164,647.54 kWh in 2024, The consumption is electricity for production, and office utilisation with 60 employees.

Scope 3 emissions are calculated based on employee commuting, business travel, waste generation in operation, upstream transportation and distribution, and downstream transportation and distribution for market expansion and business operation.

Baseline year emissions: 44,665.37 (tCO<sub>2</sub>e)



EMISSIONS	TOTAL (tCO <sub>2</sub> e)
Scope 1	N/A
Scope 2	64.26 (tCO₂e)
Scope 3 (Included Sources)	<ul> <li>44,601.11 (tCO<sub>2</sub>e)</li> <li>upstream transportation and distribution</li> <li>waste generated in operations</li> <li>business travel</li> <li>employee commuting</li> <li>downstream transportation and distribution</li> </ul>
Total Emissions	44,665.37 (tCO <sub>2</sub> e)

## **Current Emissions Reporting**

Reporting Year: 2024	
EMISSIONS	TOTAL (tCO <sub>2</sub> e)
Scope 1	N/A
Scope 2	64.26 (tCO <sub>2</sub> e)
Scope 3 (Included Sources)	<ul> <li>44,601.11 (tCO<sub>2</sub>e)</li> <li>upstream transportation and distribution</li> <li>waste generated in operations</li> <li>business travel</li> <li>employee commuting</li> <li>downstream transportation and distribution</li> </ul>
Total Emissions	44,665.37 (tCO₂e)

## **Emissions reduction targets**

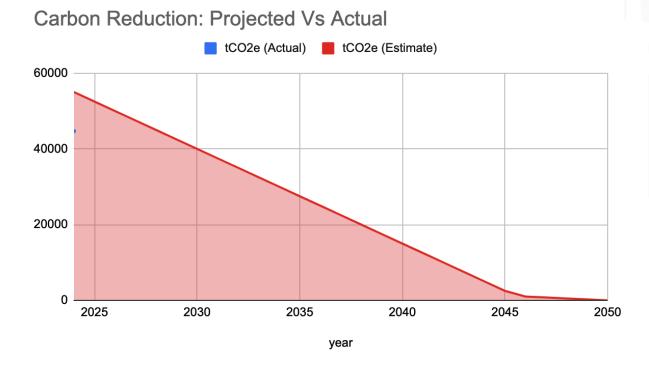
At present, we have estimated that carbon emissions start at  $55,000 \text{ tCO}_2\text{e}$  to achieve Net Zero in 2050. We use our 2024 emissions as the new baseline as it has more complete information than the previously reported data. It is higher than our previous baseline but it still has low carbon emissions when compared to other medical manufacturing companies. Our company is at a high growth rate and is scaling up in order to deliver more products to customers that increase with every year. In 2024, the company grew the number of products delivered and exported leading to an increase of carbon emission in scope 3. This might have a further impact on carbon emissions in the future but we will consider processes that are high-releasing and plan to reduce the carbon to net zero in 2050.

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



We project that carbon emissions will decrease over the next ten years to  $30,000 \text{ tCO}_2\text{e}$  by 2034. This is a reduction of 45%.

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



## **Carbon Reduction Projects**

### **Completed Carbon Reduction Initiatives**

The following environmental management measures and projects have been completed or implemented since 2022.

- Reduction of paper usage through implementation of e-signatures
- Recyclable waste collection
- Reduction of energy consumption through installation of LED lights
- Reduction of bottled water through installation of water refill stations
- Resource optimisation project was implemented to reduce consumable materials usage and import
- Reduced packaging project to use smaller outer box size for small implants
- Carbon Neutral deliveries to the UK

For the next year, we plan to keep track, and measure our KPI's, additionally our ESG committee will establish an intensive plan to reduce carbon emissions in the long term.

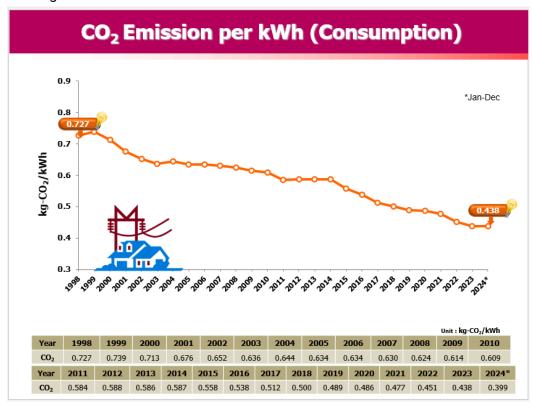


### Planned Carbon Reduction Initiatives

In the future, we hope to implement further measures such as: developing a sustainability delivery plan, reducing the purchasing of electricity and using electricity from green energy, decentralising factories, upgrading vehicles to ultra-low emissions, and raising awareness among employees on environmental aspects.

### • Reducing the purchasing of electricity

- We plan to install more renewable energy at our sites, such as solar panels and others that are suitable for our factory
- The electrical supplier has the trend to reduce carbon emissions according to the diagram below



Data from the Energy Policy and Planning Office, Ministry of energy, Thailand.

### • Decentralising factories

 We will try to install ultra-low GHG emissions factories in strategic locations in our target countries to reduce the direct emissions for transportation and delivery of our products to the end customers.

### • Transportation: Upgrading vehicles to ultra-low emissions

- We have a plan to use electric vehicles in our manufacturing site. We also have a policy for our employees to use ultra-low emission public vehicles and use public transportation instead of personal combustion vehicles.
- Reduce air travel by opting for remote meetings whenever feasible, and establishing local offices or employing local staff members.

### Supplier assessment

- We plan to review the carbon reduction plans and net zero targets of our suppliers
- Promoting employee awareness of carbon reduction and greenhouse effect



 We plan to build company policy for carbon reduction by promoting the usage of electric vehicles in public transportation to employees and plan corporate social responsibility programs to relate with our net zero mission.



## **Declaration and Sign Off**

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

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

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

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:

Date: ..... 07/03/2025

<sup>&</sup>lt;sup>1</sup>https://ghgprotocol.org/corporate-standard

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

<sup>&</sup>lt;u>ahttps://ghgprotocol.org/standards/scope-3-standard</u>