



Carbon Reduction Plan

Supplier name: TOVALI LIMITED.....

Publication date: 14 March 2023... .. Revision date: 14 March 2024

Commitment to achieving Net Zero

Tovali Ltd 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: Jan – Dec 2022	
Additional Details relating to the Baseline Emissions calculations.	
Our direct Scope 1 and Scope 2 indirect emissions have been captured as part of our initial GHG reporting. We have sought to include Scope 3 indirect emissions as part of our initial baselining exercise.	
Baseline year emissions: 2022	
EMISSIONS	TOTAL (tCO₂e)
Scope 1	61,605 + Business Travel: 1,593
Scope 2	11,774
Scope 3 (Included Sources)	a) Upstream transportation and distribution: 41,892 b) Waste generated in operations: 85,176 c) Business Travel: Nil d) Employee commuting: 5,314 e) Downstream transportation and distribution: Not Known
Total Emissions	207,354

Current Emissions Reporting

Reporting Year: Jan – December 2023	
EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	53,940 + Business Travel 1,476
Scope 2	9,255
Scope 3 (Included Sources)	a) Upstream transportation and distribution: 56,920 b) Waste generated in operations: 66,617 c) Business Travel: Nil d) Employee commuting: 4,518 e) Downstream transportation and distribution: No haulier figures available for 2023. From 1/4/24 the UPN pallet network have signed up to being carbon neutral and will have objectives / commitments.
Total Emissions	192,726

Emissions reduction targets

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

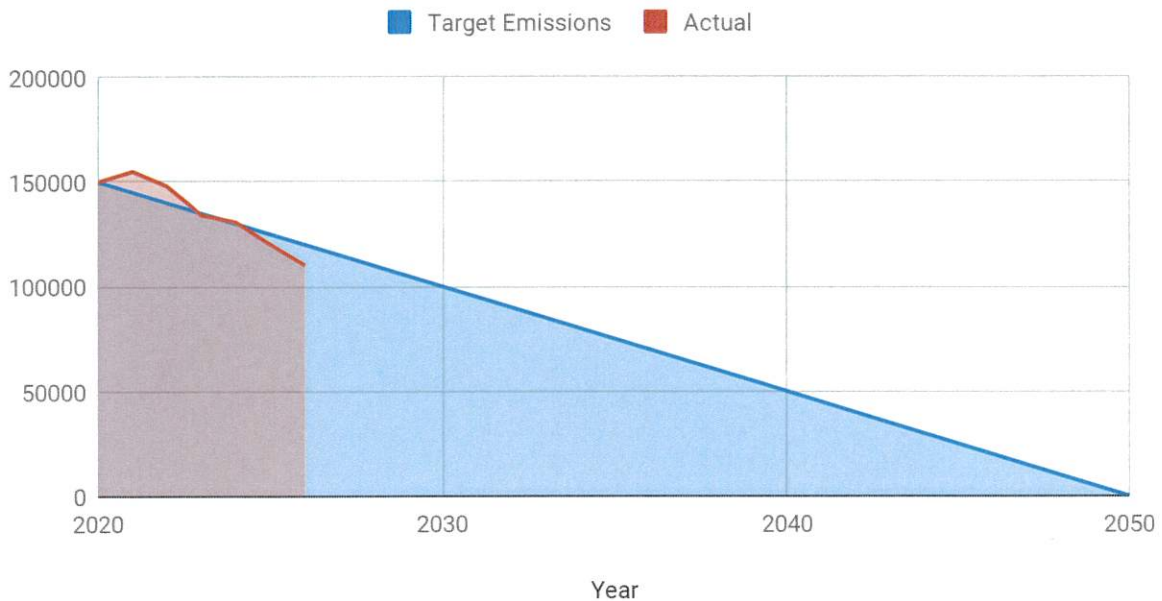
We project that carbon emissions will decrease over the next five years to 171,482 tCO₂e by 2028. This is a reduction of 17.3%

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

- Scope 1** - we have made some reductions in our scope 1 footprint from baseline to current, through improved planning and transport management, we will continue with these improvements. When planning any car, van and HGVs purchases to replace and update our fleet assuming normal efficiency improvements in models available, we will always look at embracing greener options in the first instance. We are therefore targeting a reduction in our scope 1 footprint within 5 years of **15%**
- Scope 2** - we have installed solar panels on our factory roof which will generate a significant amount of our energy usage. These were installed at the very beginning of 2023. This installation will reduce our scope 2 footprint over the course of the next year by **35%**. We will look to build upon this in our drive to be net zero by 2050 by completing further improvements as detailed in the 'Carbon Reduction Projects' section below
- Scope 3** - the biggest footprints are derived from upstream transportation and distribution, and waste. We have proactively targeted these areas, aiming for an improvement of **15%** in upstream transportation and distribution, and **20%** in waste over the next 5 years. This is a combined Scope 3 target reduction of **17%**

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

Carbon Reduction: Projected vs. Actual



Carbon Reduction Projects

Completed Carbon Reduction Initiatives

The following environmental management measures and projects have been completed since the 2022 baseline. The carbon emission reduction achieved by these schemes equate to **192,726 tCO₂e**, a **7%** reduction against the **2022** baseline and the measures will be in effect when performing the contract.

For 2023 we invested in:

Renewable energy (Scope 2) - proactively installed Solar panels in January, followed by Solar batteries in September 2023, due the inclement weather in the Autumn / Winter coupled with a fault on the batteries we are yet to see the full benefit of the installation, so expect our electricity emissions to further reduce into 2024.

Waste (Extended Packaging Requirements – Scope 3) - moved to packing our products in packs of 6 x 1 Litre from 12 x 1 Litre, negating the need for cardboard trays which will reduce the waste footprint to our customers, importantly the impact on our trees/ woodlands.

Changed our Energy provider to one that sources energy from 100% renewables.

For 2024 our plans are to:

- Invest in our Production Machinery by installing a new Washer/Filler which sees our bottling per hour move from 4,000 to 6,200, which would provide 55% uplift in our daily production, bringing efficiency and sustainability. Invest in our Packing machinery which would increase our hourly productivity from 3,000 to 6,000 bottles, having a positive impact on our **Scope 2 emissions**.
- Partner with Boxruse who will collect any cardboard boxes from our raw materials that would normally of gone into our cardboard waste, so that they can be re-purposed and used which will reduce our **Scope 3 emissions**.
- Export electricity back to the National grid for energy that is created via our Solar panel batteries and unused, enabling us to contribute from a renewables perspective.

For 2025 onwards:-

Scope 1

- Vehicle Fleet - looking to replace our HGVs with more energy efficient options, we are committed to using non-zero carbon HGV's in future, in line with the government target of fully zero emissions by 2040. This is of course dependant on technology enabling and facilitating this, we are monitoring development such as Tevva and DAF electric and hydrogen powered options with great interest.

Scope 2

- As solar technology improves, we envisage reinstalling new solar panels in 2043 (after 20 years of the existing panels), assuming standard efficiency improvement, these will be even more effective than our current ones, and should provide 100% of our electricity by 2043.
- Also re-install batteries in 2043 to take advantage of improved capability in this crucial energy storage area, which will ensure that a huge part of our electricity comes from solar power.
- In line with this, and taking advantage of our operating hours, we will be able to feed electricity from our solar panels into the grid (at weekends and evenings during six months of the year), thus offsetting any remaining carbon footprint from scope 1 or scope 3. Our desire and drive is not only to be carbon neutral by 2045, but to be carbon negative.
- We will have an ongoing replacement lighting programme to convert to LED lighting, when existing bulbs require replacement.

Scope 3

- A substantial footprint comes from upstream transport and distribution, we plan our journeys meticulously, and will always operate our HGV's fully laden. For 2024 we are considering increasing our minimum orders to 3 pallets, so that Customers

consider their sustainability responsibilities when ordering. This helps with maximising our and/or a hauliers capacity and efficiency at locations.

- In respect of **downstream transportation** – we have engaged with our 3rd Party Haulier, asking them to share their current carbon footprints and net-zero strategies with us;
 - They have confirmed that from 1st April 2024 as part of their membership of the UPN Pallet network, they commit to being carbon neutral and to contribute to sustainability actions such as tree planting.
 - Their existing haulage fleet every vehicle is Euro 6, and they are in discussions re trialling a hydrogen powered vehicle.
 - They plan their routes meticulously to maximise their efficiency and to reduce unnecessary journeys / fuel wastage.
- These ongoing commitments will be used as part of our Supplier procurement process to:
 - Form a substantial part of our decision making process in awarding contracts to our suppliers – we are committed that if we can get the same quality of product at a similar price from a different supplier with a better footprint and carbon reduction plan, we will do this
 - Share best practise in both directions – providing advice and guidance to our suppliers where possible, and learning from our suppliers' achievements whenever we can.

From a Waste Perspective we embrace all UK Packaging reforms which cover:

- **DRS (Deposit Return Scheme)** for plastic bottles. This is due to be introduced across the UK in October 2025, following the delay of the Scottish Scheme in August 2023.
- **Extended Producer Responsibility** - under the Gov.uk guidelines we generate less than 25 tonnes we are not in scope to report our data.
- **Plastic Packaging tax** having checked using the Government site, plastic packaging does not apply to our component.
- **Segregated Waste Collections** – from 6 April 2024 in Wales all waste collections within workplaces must be separated for recycling. We will work with our Waste carrier to ensure that we proactively comply with the regulations.

We signed up to the **Business Wales Green Growth Pledge**.

We **achieved the Green Dragon Environmental Standard – Level 5**, which is the equivalent to (and in fact requires a greater environmental commitment in respect to public reporting and carbon emissions than) ISO14001 and EMAS.

We have signed up to the Welsh Government pilot around Carbon Reduction Plans for Food and Drink manufacturers in Wales, which starts in May 2024 for 12 months.

As part of our **Social value commitment** in 2024 we have proactively partnered with **Fareshare Cymru** with a mutual aim to reducing / eliminating food poverty, our squash donations will support breakfast / after school clubs / foodbanks / day centres and a variety of charities that support local communities in Wales.

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 Board of Directors:

Karen Davies.....

Date: 14 March 2024

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

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

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

(Greenhouse gas reporting: conversion factors 2023 - GOV.UK (www.gov.uk))