



formerly **OBART**

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# PAS 2060

## QUALIFYING EXPLANATORY STATEMENT

### ACCREDITATIONS



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## 1. Introduction

Tsurumi Pumps UK has achieved operational carbon neutrality for the period 01 January 2022 – 31 December 2022. This included Scope 1 and 2 emissions as well as Scope 3 emissions originating from business travel, employee commuting, waste management, and water supply.

This document forms the Qualifying Explanatory Statement (QES) that demonstrates Tsurumi Pumps UK commitment to achieving carbon neutrality. The definition of carbon neutrality used in this report is in line with [PAS 2060:2014](#) reporting requirements. Carbon neutrality has been achieved via purchased and retired carbon credits that offset Tsurumi Pumps UK operational carbon footprint.

## 2. Declaration of carbon neutrality

Signed by



Pete McMurtrie  
Sales & Sustainability Director



Matthew Hill  
Managing Director



## 3. Summary

<b>Entity making PAS 2060 declaration:</b>	Tsurumi Pumps UK
<b>Subject of PAS 2060 declaration:</b>	Liphook Way, 20/20 Bus Park, Maidstone, Kent, ME16 0FZ
<b>Description of entity:</b>	Importer and distributor of pumps, hose and accessories. A subsidiary of Tsurumi Europe GmbH.
<b>Emissions reported:</b>	The Scope 1, 2 and company Scope 3 emissions (business travel, employee commuting, water, waste and generated in the business operations of Tsurumi Pumps UK
<b>Rationale for the selection of reported emissions:</b>	The Scope and subject of this PAS2060 includes all emissions based on the operational control principle defined in the <a href="#">WBCSD / WRI GHG Protocol – Corporate Standard</a> .
<b>Type of conformity assessment:</b>	Independent third party – Footprint and carbon neutrality certified by <a href="#">Plannet Zero</a> .
<b>Baseline period for PAS 2060 conformity assessment:</b>	01 January 2022 – 31 December 2022
<b>Achievement period:</b>	01 January 2022 - 31 December 2022
<b>Commitment period:</b>	01 January 2023 – 31 December 2023

#### 4. Scope

The commitment to achieve carbon neutrality covers all Scope 1, 2 and 3 emissions that arise from the operations of Tsurumi Pumps UK, whether staff related or from the company’s headquarters. These are emissions that Tsurumi Pumps UK has direct control over.

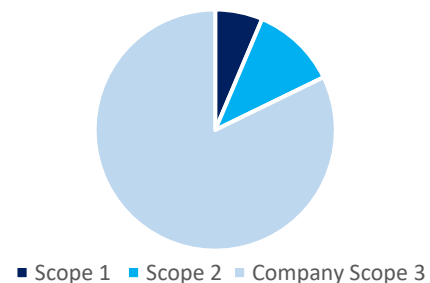
Scope 1	Scope 2	Scope 3
• 6.5%	• 11.5%	• 82%

#### 5. Quantified carbon footprint

The 2022 total carbon footprint of Tsurumi Pumps UK operations amounted to 39.76 tCO<sub>2</sub>e. This number has been calculated according to the methodology set out in this document.

##### Scope 1, 2 and 3 breakdown

Emission category	Total tCO <sub>2</sub> e
Scope 1	2.53
Scope 2	4.54
Company Scope 3	32.69



##### Carbon intensity metrics

Carbon footprint / Employee (currently 20 employees) – 1.988t CO<sub>2</sub>e

Carbon footprint / Office surface area (20,000f<sup>2</sup>) – 1.988t CO<sub>2</sub>e

Carbon footprint / £turnover – 0.00593t CO<sub>2</sub>e

As set out in the chart, most of Tsurumi Pumps UK emissions originate from activities covered by Scope 3. The main component of these during the baseline period is emissions for employee commuting. Emissions from Scope 1 and 2 amount to 18% of total emissions. This is largely as a result of the business having installed solar panels on its 20,000 sq ft head office building in 2012, helping to generate the electricity required, negating the need to purchase most of its operating energy for operations from the grid.

#### 6. PAS 2060 carbon neutrality

PAS 2060 is a BSI standard that stipulates the requirements for companies to demonstrate carbon neutrality.

The baseline period of this statement corresponds to the period January 2022 to December 2022. Tsurumi Pumps UK has achieved operational carbon neutrality for the baseline period by offsetting its carbon footprint (measured in tonnes of CO<sub>2</sub>e) by permanently retiring a number of carbon offsets equivalent to the number of tonnes emitted. To maintain operational carbon neutrality status under PAS 2060, Tsurumi Pumps UK has established a target for reducing its carbon footprint by 5% year on year. However, some accommodation can be made to allow for planned growth.\* Should any changes occur that affect the validity of the statement, this QES shall be updated accordingly.

\*The emissions reduction plan may be demonstrated relative to company growth factors such as, operational surface area, number of employees or revenue.



## 7. Methodology

The method for quantification of Tsurumi Pumps UK carbon footprint is based on the documents listed below:

- [PAS 2060:2014](#)
- [DEFRA Conversion Factors 2020](#)
- [GHG Protocol Corporate Reporting and Accounting Standard](#)

Under the 2013 DEFRA reporting guidelines and the GHG Protocol Corporate Reporting and Accounting Standard, company footprints must include Scope 1 and Scope 2 emissions. There is flexibility when choosing which Scope 3 emissions to measure and report. This can be tailored, transparently, to reflect a company's environmental and commercial strategies and goals. Companies commonly include in their Scope 3 assessments the most readily traceable emissions from: waste sent to landfill, water usage and employee business travel. Including these emissions along with Scope 1 and 2 is described as an organisation's 'operational emissions'.

We have selected the GHG Protocol Corporate Reporting and Accounting Standard as it is one of the most recognised and frequently applied standards to quantify the climate impact of companies and, as such, is explicitly endorsed by PAS 2060. The carbon footprint of the selected organisation is calculated based on an operational control approach. Under the operational control approach, a company accounts for 100% of emissions from operations over which it or one of its subsidiaries has operational control. Emissions from electricity have been calculated using national grid fuel mix data.

The following greenhouse gases have been included in the calculations:

- Carbon dioxide (CO<sub>2</sub>)
- Methane (CH<sub>4</sub>)
- Nitrous Oxide (N<sub>2</sub>O)
- Hydrofluorocarbons (HFCs)
- Perfluorocarbons (PFCs)
- Sulphur hexafluoride (SH<sub>6</sub>)

The corresponding global warming potential of each gas is obtained from the IPCC Assessment report 5 (2014). Total emissions are measured in carbon dioxide equivalent (CO<sub>2</sub>e).

Greenhouse gas (GHG) emissions have been calculated based on a combination of direct measurement of energy use and employee surveys. Direct measurement has been achieved by assessing meter readings and utility bills. Employee commuting and working-from-home emissions were calculated using employee surveys.

### **Scope 1 emissions**

Scope 1 emissions are created by direct emissions from heating used in Tsurumi Pumps UK head office building and fuel used in vehicles for business travel.

### **Scope 2 emissions**

Scope 2 emissions calculations are based on the companies solar panels self generating the operational energy required.

### **Scope 3 emissions**

The following category of Scope 3 emissions are relevant and have been quantified:

- Category 5 – Waste generated in operations
- Category 6 – Business travel
- Category 7 – Employee commuting

## 8. Data

According to PAS 2060, primary data should be obtained for carbon footprint quantification. In the absence of primary data, secondary data can be used to create estimates or averages. In the quantification of Tsurumi Pumps UK carbon footprint, primary sources of data have been used. All activity data has been reported by Tsurumi Pumps UK and reviewed and verified by Plannet Zero.

Emission factors that have been used to quantify the carbon footprint of Tsurumi Pumps UK are sourced from databases and sources including DEFRA Data Services.

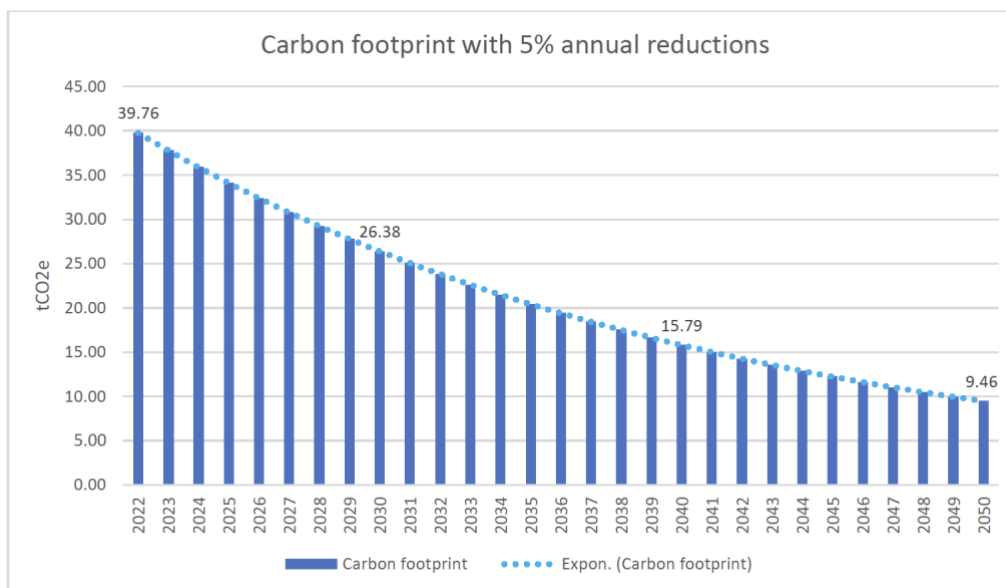
## 9. Margin of error

Uncertainty in the quantification of a carbon footprint arises mainly from assumptions and estimations that must be made whenever actual activity data is not available. Where uncertainty exists Tsurumi Pumps UK has erred on the side of caution and has overestimated its carbon footprint.

## 10. Emissions reduction pathway

In accordance with BSI PAS 2060 guidance for reporting carbon neutrality, businesses should reduce their annual emissions by 5% year on year. The graph below shows Tsurumi Pumps UK targeted emissions reduction pathway. Planned means of achieving and maintaining GHG emissions reduction consist of:

- Communicating with supply chain manufacturers and courier / transport companies
- Implementation of electric & hybrid only company vehicles ( adopted early 2023 )
- Engaging with staff on best practice for commuting-to-work options inc. cycle purchase scheme benefits
- Creation of company ESG taskforce to report on internal departmental initiatives
- Adopting renewable energy green tariffs on any surplus requirements not generated by solar panels
- Analysing waste and implementing recycling more where at all possible



## 11. Carbon offsetting plan

For the first year of its PAS 2060 compliant carbon neutrality process, Tsurumi Pumps UK has offset its total carbon footprint plus an additional 10% to cover any uncertainty. Therefore, the total volume that has been offset is 44t CO<sub>2</sub>e. In addition, Tsurumi Pumps UK invested in purchasing 58 trees within the Redshaw UK Tree Planting Project in association with Green the UK and the Royal Forestry Society.

The total amount of carbon offset and the projects that the carbon offsets come from are detailed below:

- 44 tCO<sub>2</sub>e – Larimar Wind Farm Project, Dominican Republic – Project ID: 1644  
29 wind turbine generators with installed capacity 97.8MW  
Project activity will supply an average of 370 GWh per year [Verra Registry](#)
- 58 Trees Planted – Tree Planting – Green The UK  
*To protect against pests and diseases by replacing dead and diseased stands. To optimise the climate resilience of the woods by increasing the species diversity and moving away from monoculture crops.*  
Offset Standard: Gold Standard [Plannet Zero Tree Planting](#)

12. Carbon offset retirement certification



**Tsurumi Pumps UK**

has purchased,

**44tCO<sub>2</sub>e**

of verified carbon credits to rebalance the organisation's operational greenhouse gas emissions for **2022**.

**Tsurumi Pumps UK** has invested in carbon credits from the following projects:

**Larimar Wind Farm Project, Dominican Republic**

**Project Highlights:**

29 wind turbine generators with installed capacity 97.8MW  
 Project activity will supply an average of 370 GWh per year  
 207,566 tCO<sub>2</sub>e fossil fuel derived emissions avoided each year



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