

Cleaning Technology
Municipal Technology
Waterjet Technology



Sustainability

Update 2025

Our Four Pillars of Sustainability



Sustainable Products



Ecological Responsibility



Sustainable Business Models



Social Responsibility

1 Sustainable Products



Producing durable, high-quality products is in Hako's DNA – and this goes hand in hand with strengthening the circular economy and protecting the environment and resources. Our machines are designed for a long service life: robust construction, maintenance-friendly design, and high-quality components ensure reliable performance over many years – even in intensive continuous use. We also attach great importance to energy efficiency: intelligent energy-saving modes reduce the power consumption of our machines by up to 30% without compromising cleaning performance. In addition, our AquaStop system enables precise water supply and saves up to 50% water in daily use – an important contribution to water efficiency and resource conservation. A current example of our sustainable innovative strength is the fully electric Citymaster 1650 ZE: it operates locally emission-free, almost silently, and particularly efficiently – ideal for use in sensitive inner-city areas.



We are systematically pushing ahead with the electrification of our product range in order to offer electric alternatives in all categories in the near future.



We can provide certified product carbon footprints for the majority of our product portfolio.



We already manufacture the waste and fresh water tanks for the Scrubmaster B25 from 100% industrial recycled plastic – other devices will follow.

1

In Detail:

Comparing CO₂-Emissions: CM 1650 & CM 1650 ZE



Total Emissions:***
128,436 kg CO₂e

Citymaster 1650 2B Sweeper*

Usage**

112,708 kg CO₂e

Material extraction & Preprocessing

13,760 kg CO₂e

Other

1,968 kg CO₂e

*The underlying calculation methodology for the product carbon footprint of Hako GmbH products is based on DIN EN ISO 14067 and has been externally verified by GUTcert GmbH. Emission factors were primarily taken from the ecoinvent 3.11 database.

**Calculation based on an assumed service life of 8,000 h and 0.38 kg CO₂e per kWh for the CM 1650 ZE

***The functional unit (FU) refers to 100 m² of cleaned area.
CM 1650: 0.116 kg CO₂e per FU
CM 1650 ZE: 0.043 kg CO₂e per FU

Citymaster 1650 ZE 2B Sweeper*

Usage**

23,612 kg CO₂e

Material extraction & Preprocessing

21,978 kg CO₂e

Other

2,048 kg CO₂e



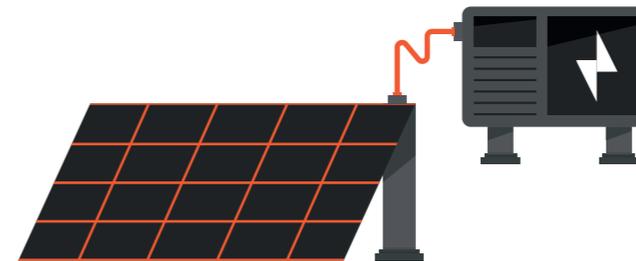
Total Emissions:***
47,638 kg CO₂e

The Citymaster 1650 ZE offers a sustainable alternative to the traditional combustion engine model. By using green electricity, emissions during the usage phase can be further reduced.

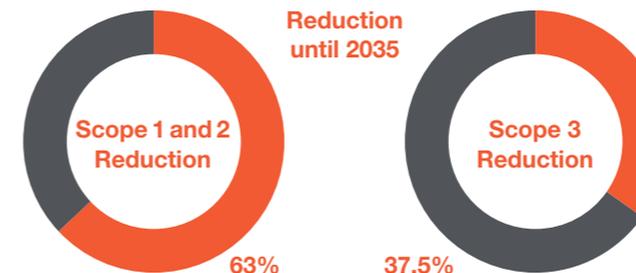
2 Ecological Responsibility



We take our environmental responsibility very seriously. Our commitment ranges from the consistent reduction of CO₂ emissions along the entire value chain (Scope 1–3) to the efficient use of energy and water and the avoidance and sustainable recycling of waste. Wherever possible, we use returnable packaging and are also systematically pushing ahead with the electrification of our vehicle fleet.



Over 600 kWp are generated and utilised by our photovoltaic system in Bad Oldesloe.

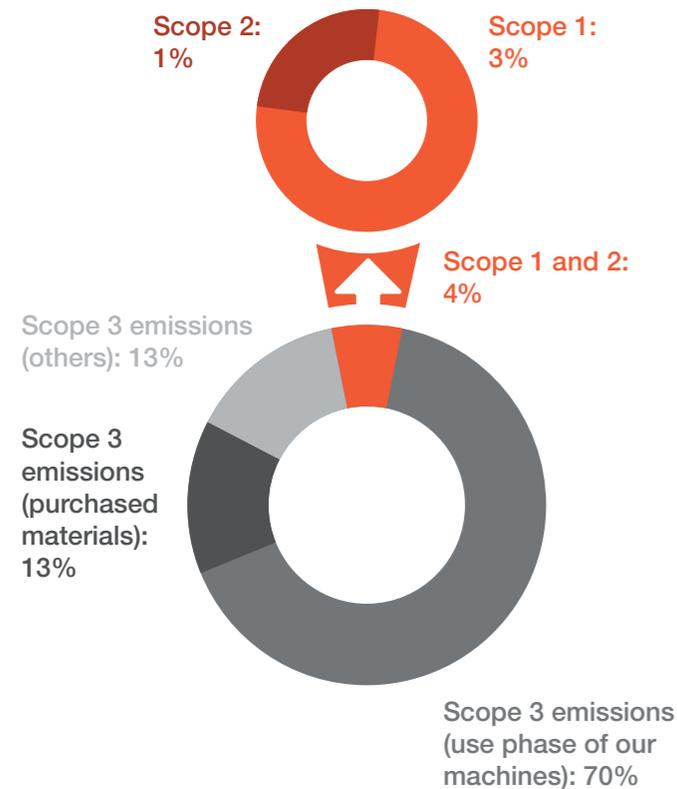


We will reduce our Scope 1 and 2 emissions by 63% and 37.5% of our Scope 3 emissions by 2035.



We place great importance on maintaining a regional supply chain: around 70% of our suppliers are based in Germany, and another 20% come from Europe.

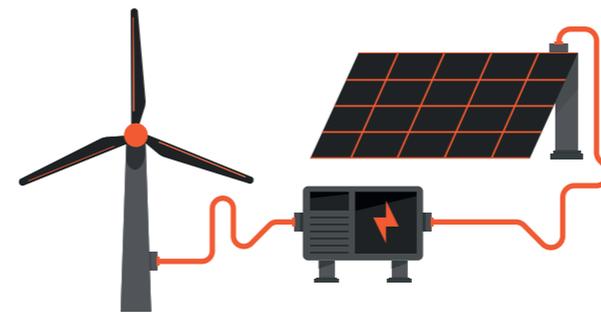
2 In Detail: Our CO₂-Emissions



Reducing CO₂ emissions is our most important contribution to climate protection. That is why we have recorded our emissions along the entire value chain.

Scope 1 (e.g., our own vehicles, heating systems) and Scope 2 (purchased electricity, heat) are not our biggest emission drivers, but we can directly influence them – for example, through renewable energies or the electrification of our fleet. Most emissions arise in Scope 3, primarily during the use phase of our products and through purchased materials. In accordance with the guidelines of the Science Based Targets initiative (SBTi), we want to significantly reduce our emissions over the next ten years:

- Scope 1 and 2 by 63% by 2035
- Scope 3 by 37.5% by 2035



To reduce our Scope 1 emissions, we will convert our entire fleet to electric vehicles. We have already started with company cars, and for our larger service vans, delivery vehicles, and trucks, we will be testing suitable electric models in everyday operations.

With the ongoing electrification of our operations, our Scope 2 emissions are expected to rise. To counter this, we are steadily increasing the share of green electricity in our energy mix and installing photovoltaic systems wherever possible.

70% of our emissions are generated during the use phase of our machines, with municipal machines powered by combustion engines having a significant impact. To reduce these emissions, we are expanding our range of electric alternatives. An important milestone in this effort will be the launch of the fully electric Multicar M31 ZE, scheduled for market release in 2026.

3 Sustainable Business Models



Our third pillar of sustainability is focusing on the extension of sustainable business models.

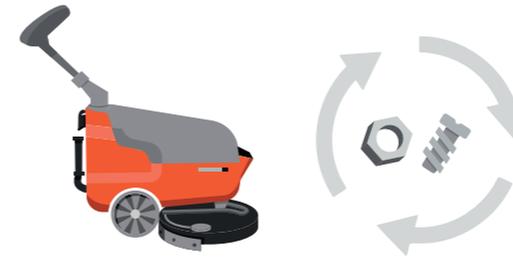
With our professional repair service, we extend the lifetime of our products. Thanks to high spare parts availability and efficient processes, service work can be carried out quickly and reliably at any time.

Our professional refurbishment locations give products a second life, and by adding rental options, we ensure that only new products that are certainly needed will be launched into the world.

We also create multipurpose products that are used for many different areas.



We offer a professional repair service that enables us to respond quickly and flexibly to service requests. This way, we keep downtime from repairs as low as possible.



By refurbishing used machines at our pre-owned machinery centre near Cologne, we give machines a second life.

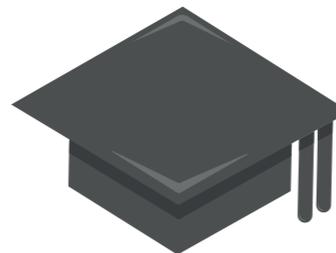


We provide digital services like our fleet management for our products. This enables service & maintenance tracking as well as the transmission of relevant data.

4 Social Responsibility



At Hako, people come first – strong cohesion and a family-like culture shape our working environment and create an atmosphere of trust and appreciation. We place great importance on supporting and developing our employees and continuously invest in their training to strengthen both their professional and personal skills. A special focus is placed on our apprenticeship programmes: we offer training in eleven different professions, including industrial clerks, warehouse specialists, and technical product designers. In addition, we provide opportunities for dual study programmes in technical fields.



Worldwide, more than 150 employees have participated in our management training programme, which is designed for both experienced leaders and future leadership talent.



We believe in equal opportunities for everybody, which is why we signed the Diversity Charter and stand for its benefits and beliefs. We also conduct diversity training sessions with all managers to sensitise them to this important topic.

**4-day
work week**



As part of a pilot project, our aim is to gain experience with the 4-day work week.

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For the sake of readability, Hako has opted for gender-neutral terminology throughout this document. This includes all people, regardless of their gender or identity.

Form, colour and design are subject to change without notice in favour of further technical development. Pictures may show optional equipment.



Blue Competence is an initiative of VDMA (www.vdma.org). By engaging in this partnership, we are committed to comply with the twelve sustainability principles applied in the field of mechanical and system engineering (www.bluecompetence.net/about).