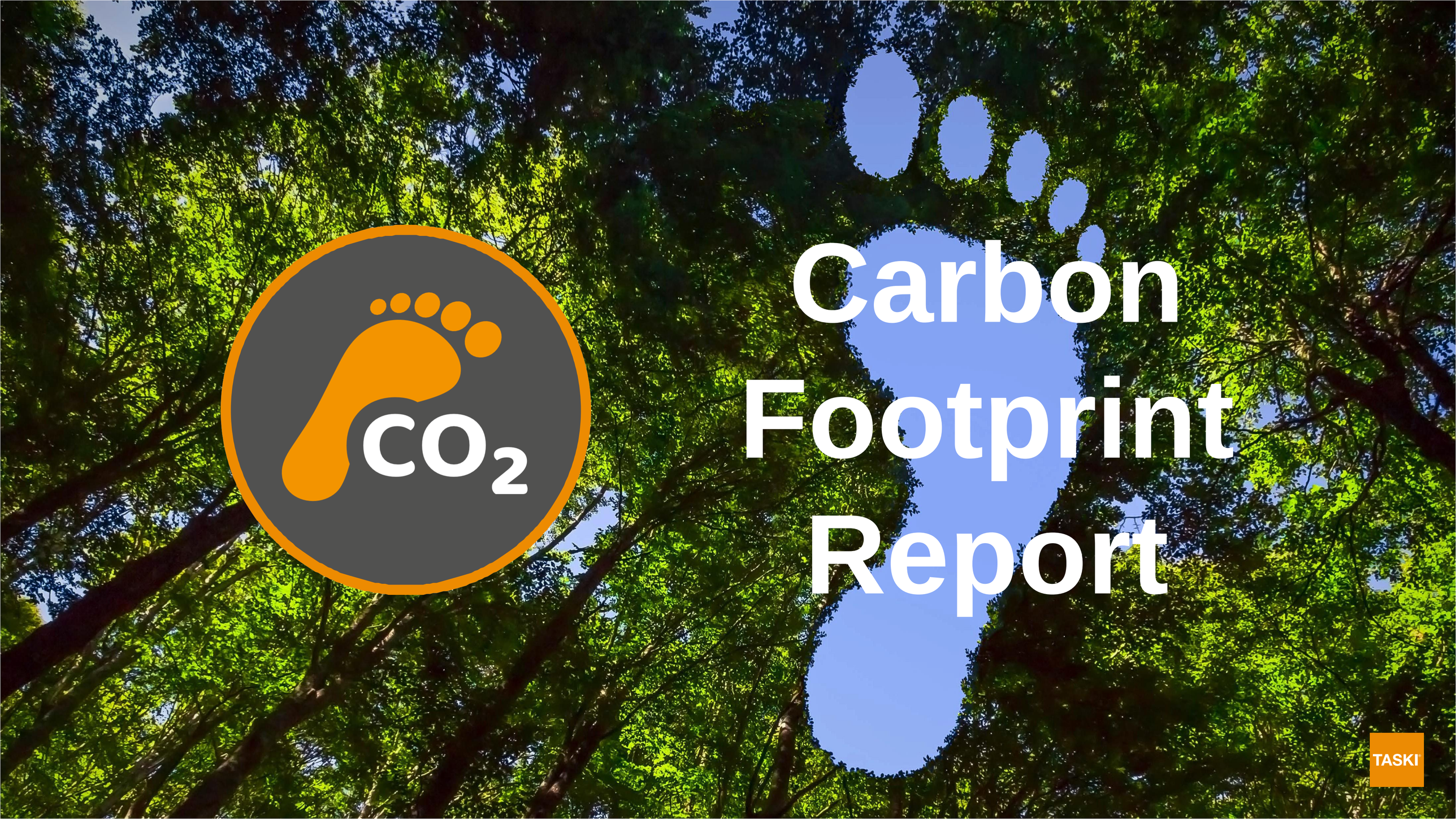

Sustainability
It isn’t just green, at TASKI it’s orange
TASKI

Innovate, Improve, Innovate Again

We’ve created a virtuous cycle. Starting with sustainable product design that comes to life through responsible manufacturing and utilizes a sustainable supply chain to deliver optimal machine performance.

The cycle begins again when our machines are periodically redesigned to take advantage of material and engineering innovations.


CO_2
Carbon
Footprint
Report
TASKI

Cradle to Grave Lifetime Analysis

Critical Review Statement

The "**Product Carbon Footprint Report. AUTO SCRUBBER MACHINES**" for the reference year 2021, final report dated 24 March 2023 has been verified against ISO 14040/44:2006 and 14067:2018.

Commissioned by:	**Diversey Europe B.V., Utrecht Zweigniederlassung Münchwilen**
Carried out by:	**Grunver Sostenibilidad and SGS Tecnos S.A.**
References:	ISO 14067:2018: Greenhouse gases – Carbon footprint of products – Requirements and guidelines for quantification ISO 14040:2006: Environmental Management – Life Cycle Assessment – Principles and Framework ISO 14044:2006: Environmental Management – Life Cycle Assessment – Requirement and Guidelines

We hereby confirm:

Product Carbon Footprints:

ULTIMAXX 1900 DD 55: 3120 $\frac{Kg\ CO_2eq.}{\text{1 Auto scrubber machine with a shelf life of 7.5 years}}$

ULTIMAXX 2900 DD 55: 3928 $\frac{Kg\ CO_2eq.}{\text{1 Auto scrubber machine with a shelf life of 7.5 years}}$

Swingo 4000: 10521 $\frac{Kg\ CO_2eq.}{\text{1 Auto scrubber machine with a shelf life of 7.5 years}}$

Swingo 5000:10584 $\frac{Kg\ CO_2eq.}{\text{1 Auto scrubber machine with a shelf life of 7.5 years}}$

Product Carbon Footprints are calculated from the extraction of raw materials from the environment, including the purchase of raw materials and energy, until the end of the product's life cycle. Emissions resulting from the transport of the product to the users, the use of the products and the treatment of the end-of-life products are included ("cradle to grave").

This Critical Review Statement applies solely within the scope of work indicated, and Evaluation Criteria, as described on pages 2-4 of the following Critical Review Statement.

Bureau Veritas Industry Services GmbH
Product Conformity Assessment
Veritaskai 1, 21079 Hamburg

Hamburg, 30th March 2023

BUREAU VERITAS

TASKI

From Birth to Rebirth

ULTIMAXX and swingo Lifetime CO_2 Analysis

For detailed data please contact your TASKI representative

Product Carbon Footprint (total kg CO_2)

ULTIMAXX 900

ULTIMAXX 1900

ULTIMAXX 2900

Product Carbon Footprint (total kg CO_2)*

swingo 4000:

Product Carbon Footprint (g/m² CO_2)

ULTIMAXX 900

ULTIMAXX 1900

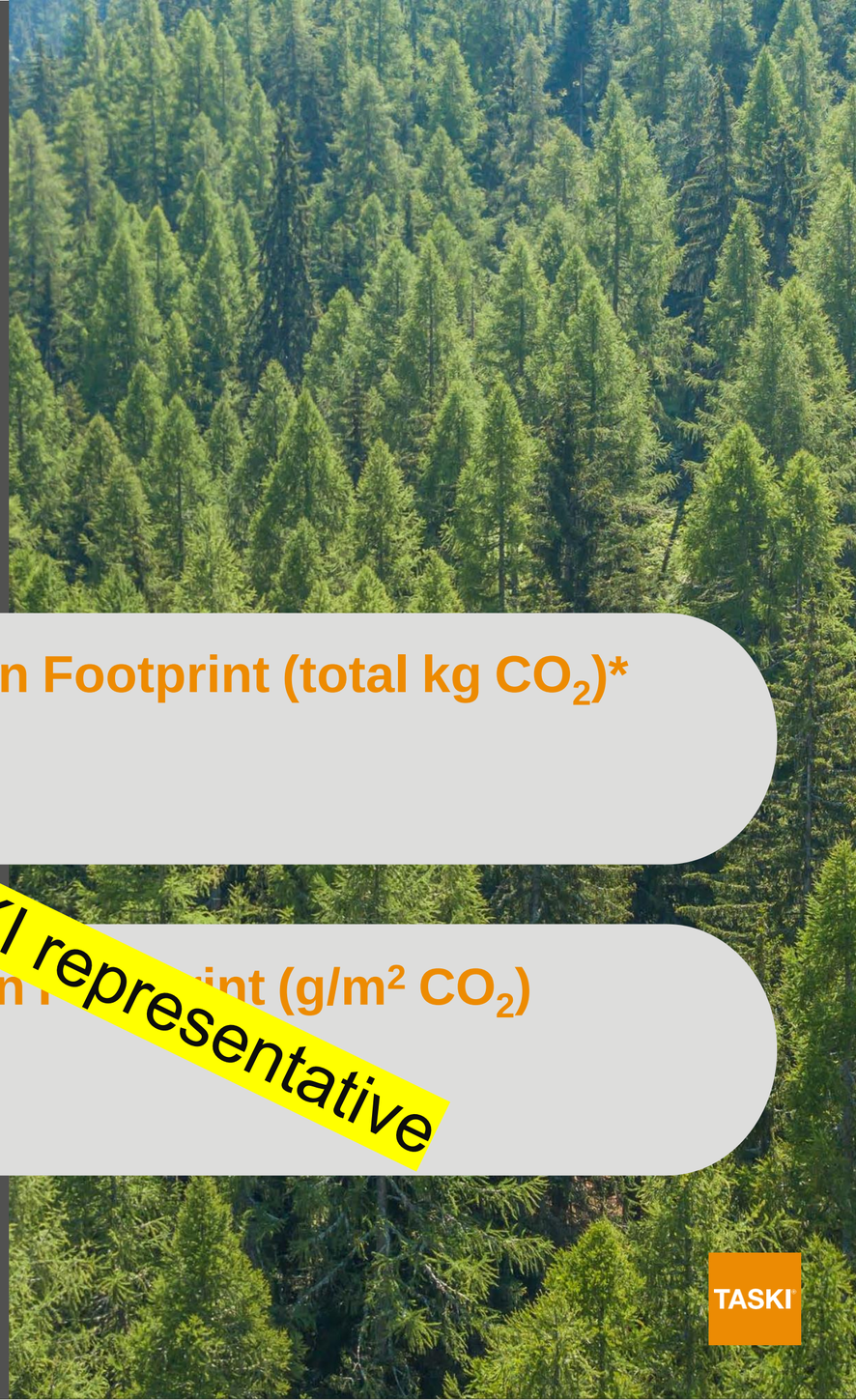
ULTIMAXX 2900

Product Carbon Footprint (g/m² CO_2)

swingo 4000:

swingo 5000:

LCA’s for all TASKI machines available



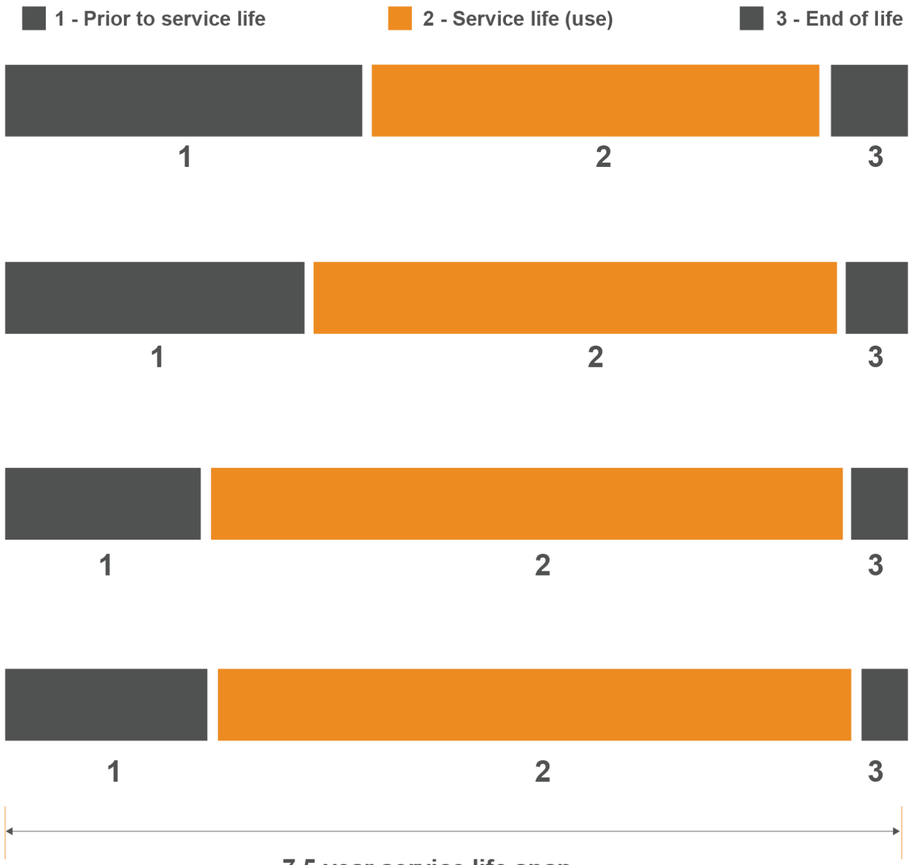
Carbon Footprint Model

ULTIMAXX 1900 DD 55

ULTIMAXX 2900 DD 55

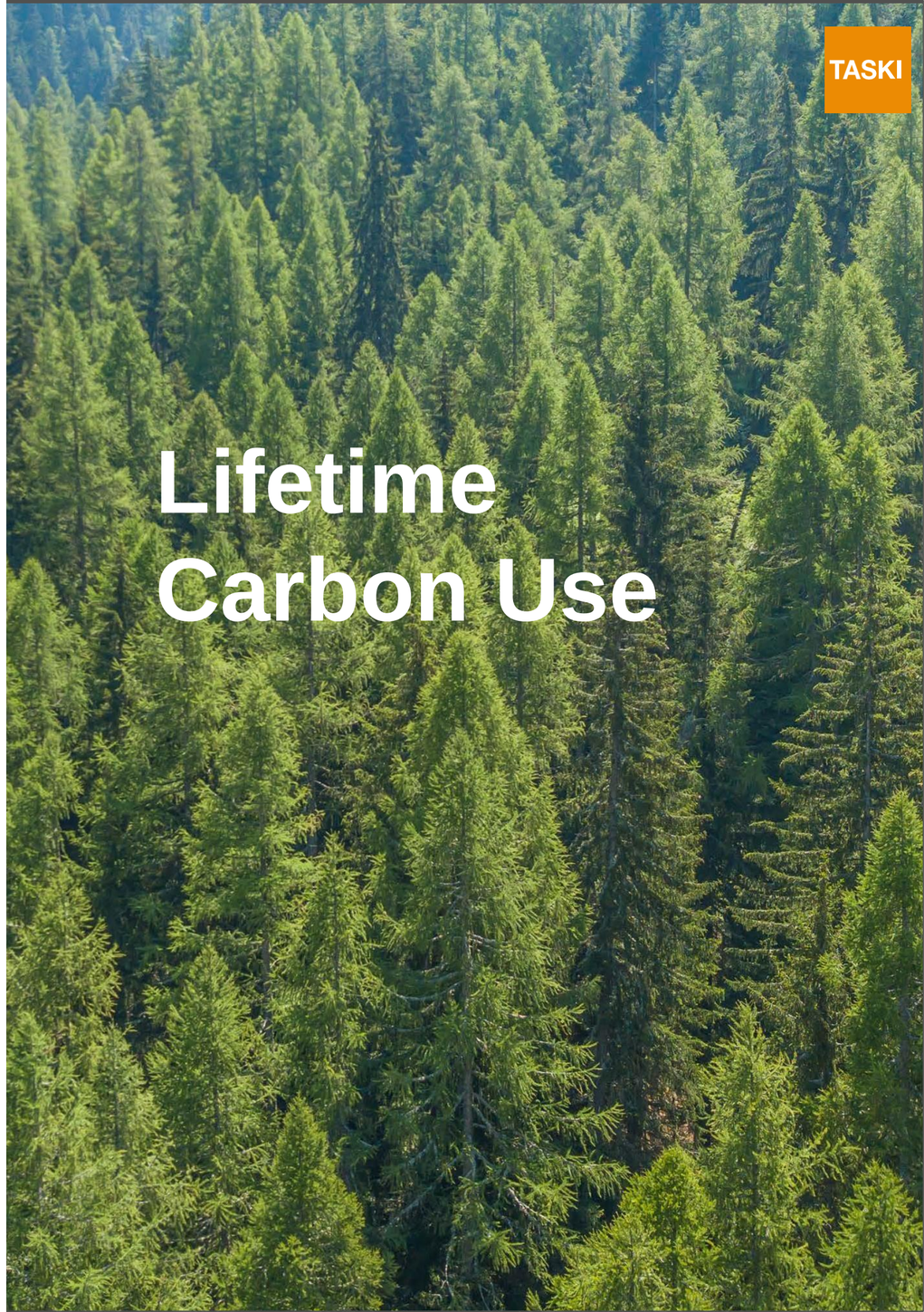
swingo 4000

swingo 5000



SUMMARY (TOTAL)

For detailed data please contact your TASKI representative



Step 1

Sustainable Product Design

TASKI

A Machine of Substance

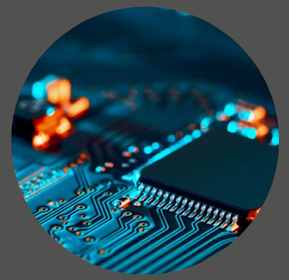
Top-three materials used in machines

45%

Plastic

33%

Steel and Aluminium



16%

Electronic

A machine always has value for recycling companies.

Designing a machine that’s going to be sustainable means starting with the idea that one day it won’t be a machine, responsible materials and interchangeable parts, reduce end of life waste by keeping materials in use.

TASKI

Elimination of Hazardous Substances

Banned Materials at TASKI

The substances listed below are restricted or banned from use in TASKI machines, packaging, and manufacturing Processes:

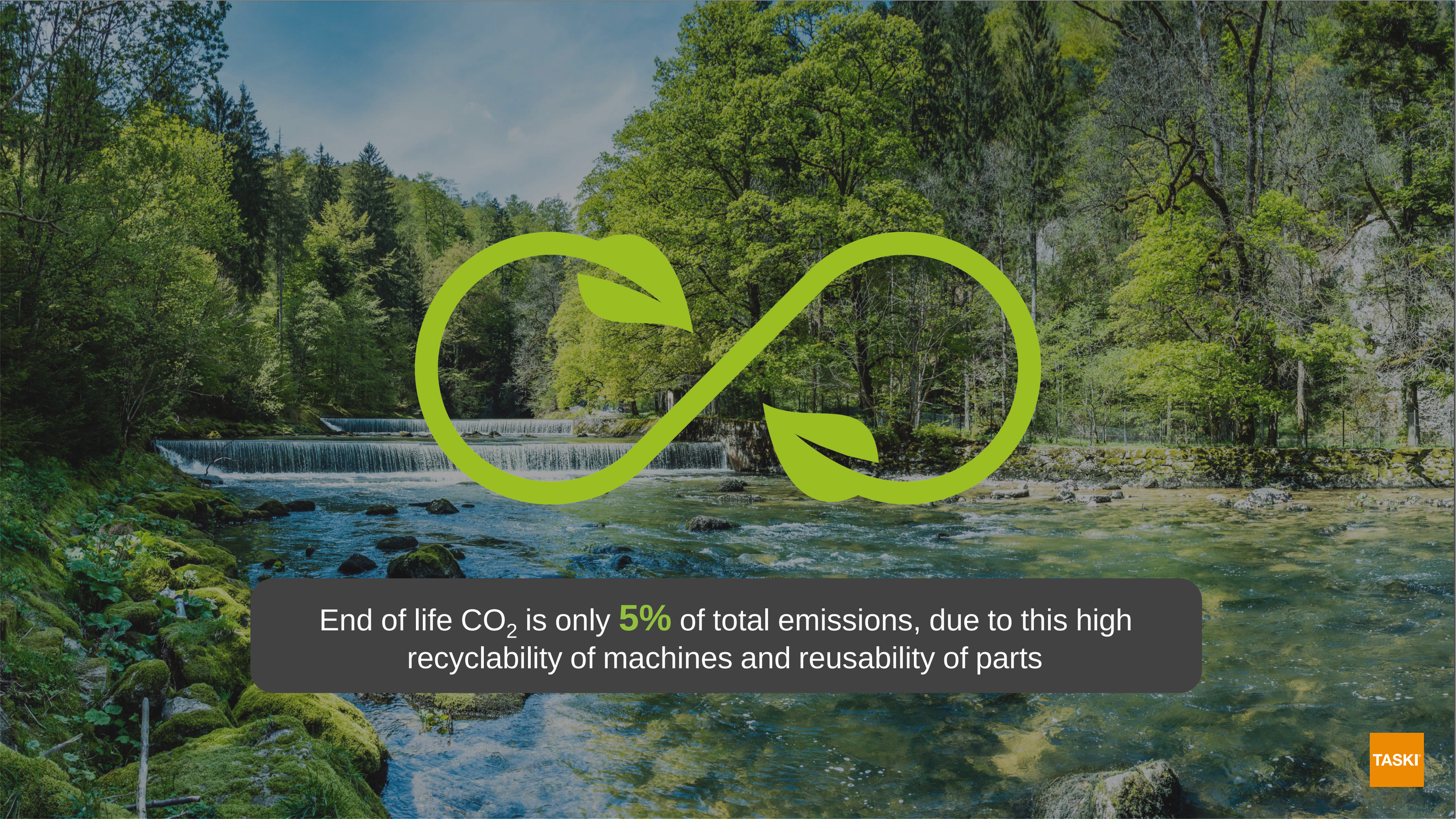
- Asbestos
- Cadmium (Cd)
- Hexavalent Chromium (CrVI)
- Polybrominated biphenyls (PBBs)
- Polybrominated diphenyl ethers (PBDEs)
- Polychlorinated biphenyls (PCBs)
- Polychlorinated dibenzofurans (PCDFs)
- Polychlorinated terphenyls (PCTs)

All TASKI machines are fully compliant with RoHS and WEEE

Decommission, Recommission, Circular Parts Economy

99% of parts can be disassembled and reused
95% of materials can be recycled

Full documentation on material used and recyclability of components available per machine



End of life CO_2 is only **5%** of total emissions, due to this high recyclability of machines and reusability of parts

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Step 2

Responsible Manufacturing Processes

All lights in the machine factory / warehouse are LED Lights

96% hydropower

4% solar power

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neutral wood chip heating system in place on site (Energie Münchwilen AG)

Investment into new heating system by using energy source that reduces carbon footprint and eliminates dependence on fossil energy.

- Heating system with intelligent operation and control systems (also remote)
- Modified oil tank is now wood chip silo (saving materials)
- Permanently eliminating fossil fuel reliance
- Eliminating 200,000 litres of fuel oil

Reduced greenhouse gas emissions by the equivalent of approximately 600 metric tons of carbon dioxide.

Responsible Manufacturing Processes

- Efficient Production
- Reduced Energy Consumption
- Recycling at Every Stage
- Elimination of Hazardous Substances
- Reduced Air Pollution

Since 2001, TASKI's manufacturing site has been certified to the ISO 9001 standard demonstrating the ability to consistently provide products and services that meet customer and regulatory requirements.

Additionally, the site is certified at ISO 14000 for its effective environmental management system and ISO ISO45001 for its occupational health and safety management systems.

TÜVNORD

Certificate

TÜVNORD TÜV NORD CERT GmbH DIN EN ISO 9001 tuev-nord.de

Management system as per
EN ISO 9001:2015

The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

Diversey Europe Operations B.V.
Maarssenbroeksedijk 2
3542 Utrecht
Netherlands

operates a management system in accordance with the requirements of EN ISO 9001:2015 at the location

Diversey Switzerland Production GmbH
Eschlikonerstrasse
9542 Münchwilen TG
Switzerland

Diversey

will be assessed for conformity within the 3 year term of validity of the certificate.

Scope

Production and assembling of TASKI floorcare machines and global supply of spare parts

Certificate Registration No. 44 100 172159-011 Valid from 2023-06-27
Audit Report No. 3533 9682 Valid until 2024-02-05

Essen, 2023-06-27
Certification Body at TÜV NORD CERT GmbH

Visit our database to verify the validity of this certificate.

This certificate is valid in conjunction with the main certificate.

TÜV NORD CERT GmbH
Am TÜV 1, 45307 Essen
www.tuev-nord-cert.com

IAF DAkkS Deutsche akkreditierungsstelle D-ZM-12037-01-00

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Certificate

TÜVNORD TÜV NORD CERT GmbH DIN ISO 45001 tuev-nord.de

Management system as per
ISO 45001:2018

The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

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Diversey Switzerland Production GmbH
Eschlikonerstrasse
9542 Münchwilen TG
Switzerland

Diversey

will be assessed for conformity within the 3 year term of validity of the certificate.

Scope

Manufacturing of industrial and institutional cleaning products

Certificate Registration No. 44 126 172159-011 Valid from 2023-06-27
Audit Report No. 3533 9684 Valid until 2024-02-05

Essen, 2023-06-27
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TÜVNORD TÜV NORD CERT GmbH DIN EN ISO 14001 tuev-nord.de

Management system as per
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The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

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will be assessed for conformity within the 3 year term of validity of the certificate.

Scope

Manufacturing of industrial and institutional cleaning products

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Audit Report No. 3533 9683 Valid until 2024-02-05

Essen, 2023-06-27
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Step 3

Sustainable Supply Chain

Sustainable Procurement and Supply

Sustainable Supply Chain

Strict production processes to reduce wastage

Local suppliers toreduce carbon miles/KMs

Establish robust raw material sourcing policies to minimise environmental impact

Consideration to recycled and renewable content at every stage

Drive out excess weight and packaging

Energy efficient transport vehicles

Reduced energy for heating and lighting, superior insulation

2015 Münchwilen facility moved from oil fired to wood chip heating

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Step 4

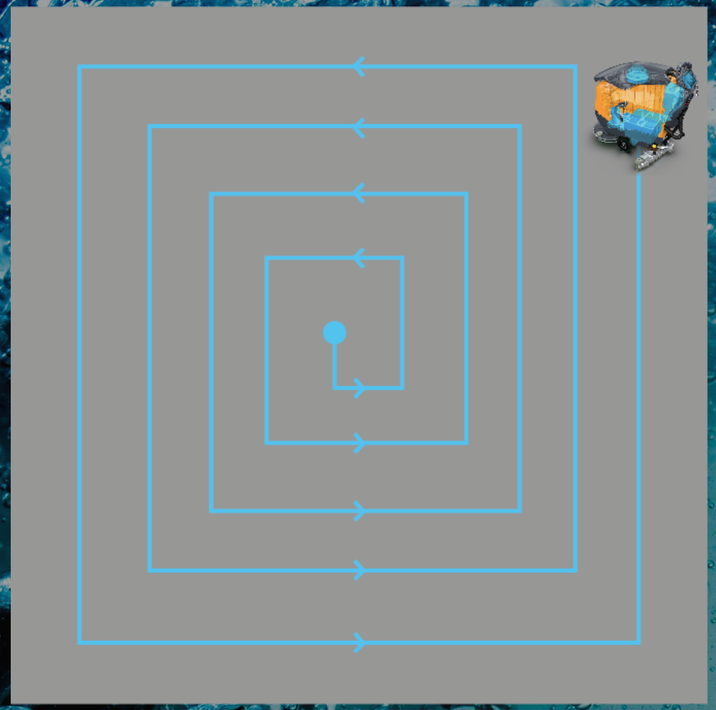
Optimal Machine Perfomance

TASKI

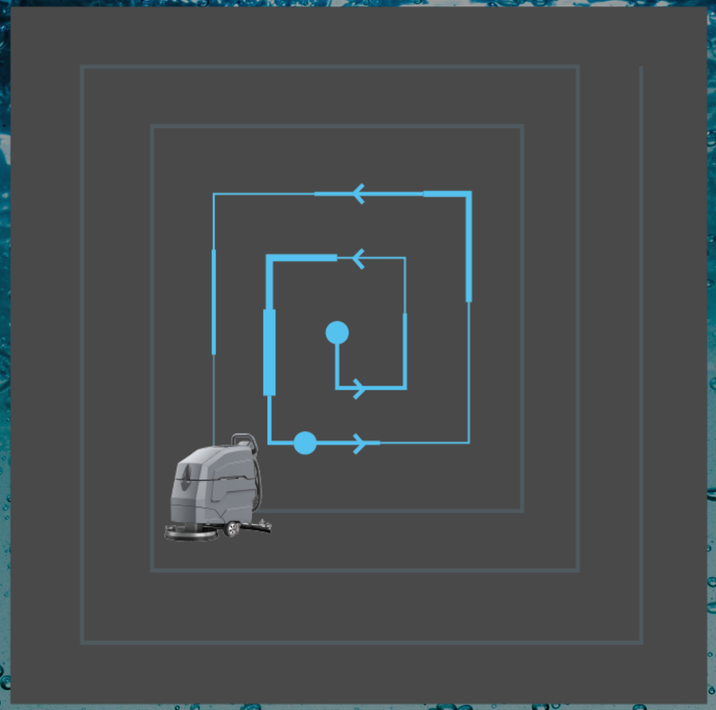
Machine Efficiency for Sustainability

IntelliFlow is our patented precision water flow control system

Integrated directly into the machine, it delivers operational efficiencies exceeding **40%**



Surface area covered by **IntelliFlow**



Surface area covered by **standard water flow system**

Validated Improvements

TASKI floor scrubbers with IntelliFlow save an average of **76%** cleaning solution per year compared to TASKI floor scrubbers without an advanced dosing system

TASKI

TASKI IntelliTech Drives Sustainability in Use

25% to 30% lower CO_2 emissions with ULTIMAXX IntelliDose

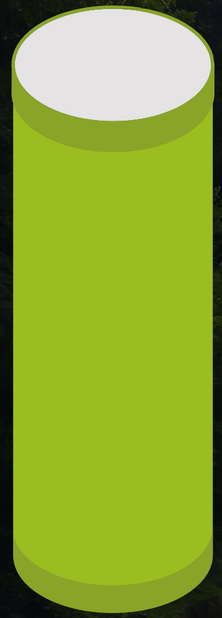
ULTIMAXX Standard → **ULTIMAXX IntelliDose**

The IntelliDose system reduces carbon footprint significantly for all four machines tested.

25-30% savings on detergent by avoiding overdosing (due to manual dosing) and no emptying of tank with water including detergent.

Use Dosing Systems

IntelliPower Drives Resource Reduction



ULTIMAXX Gel

30% to 50% lower CO_2 emissions

ULTIMAXX LI-ION

End of Life

The mass of a gel battery that needs to be recycled is higher than a lithium battery.

Lithium batteries are typically not recycled after their “1st life” but are repurposed to less intense tasks such as domestic power walls or as photovoltaic units.

Installing lithium batteries significantly reduces the carbon footprint over the entire lifecycle of a scrubber drier.

- Lifetime is four times longer
- Less replacements, less waste
- Less weight (transport emissions)
- Li Ion batteries have a “2nd life”

Lithium batteries contain higher charging efficiency: IntelliPower: 90% vs Gel: 80- 85% → energy savings.

TASKI lithium battery composition is LiFePO4, they do not contain cobalt; a material associated with child exploitation

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Sustainability Reporting

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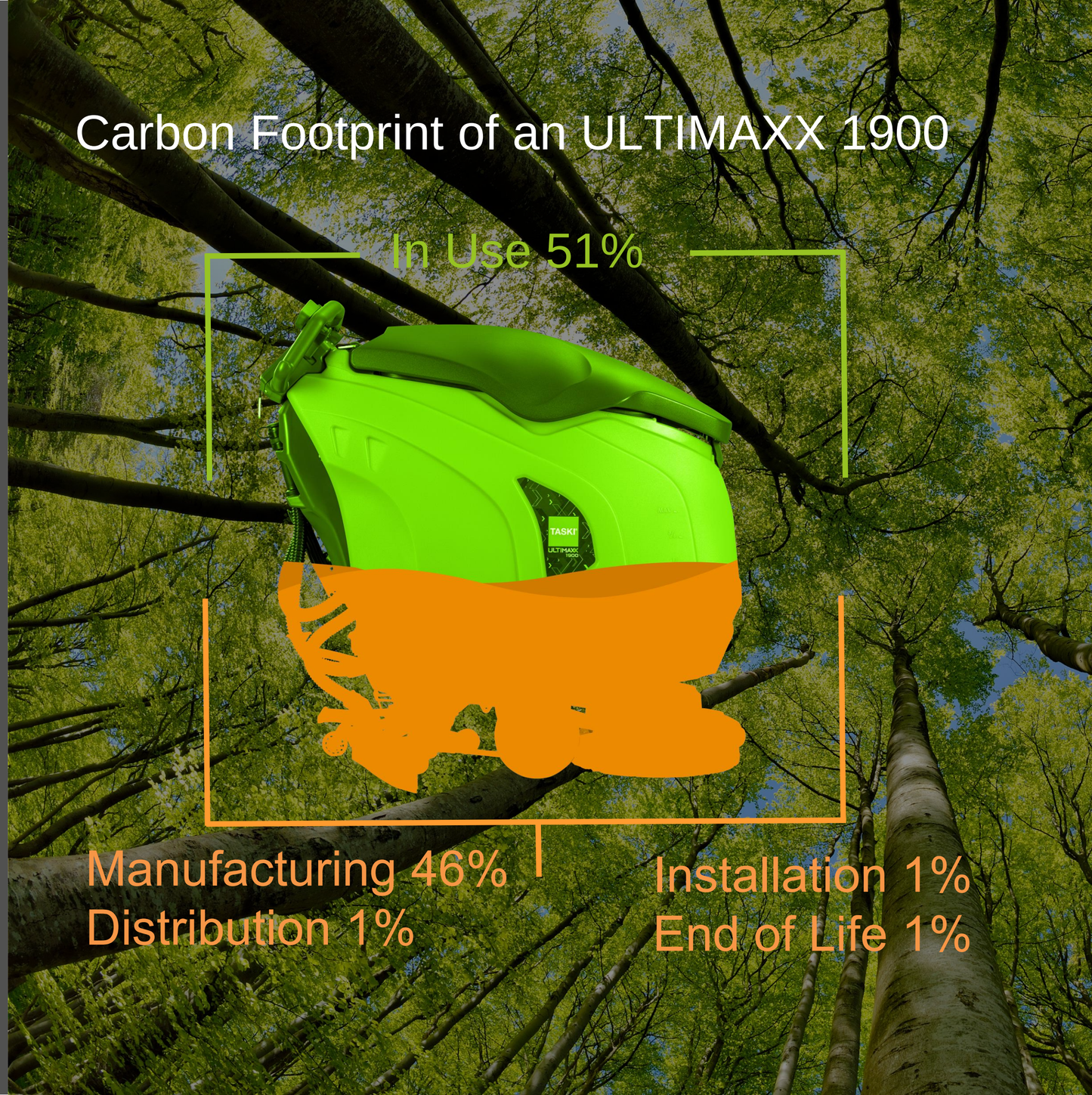
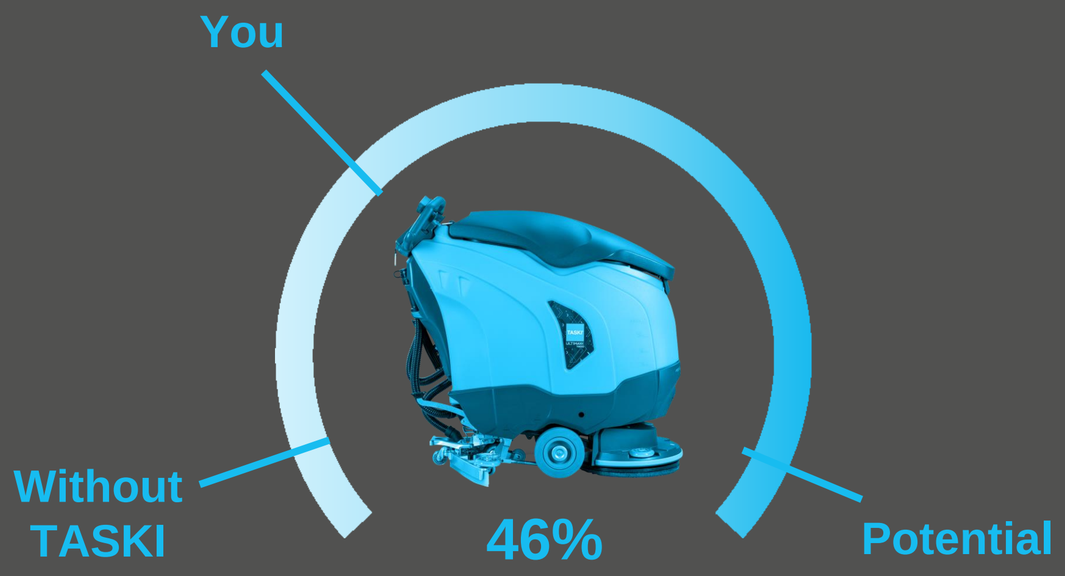
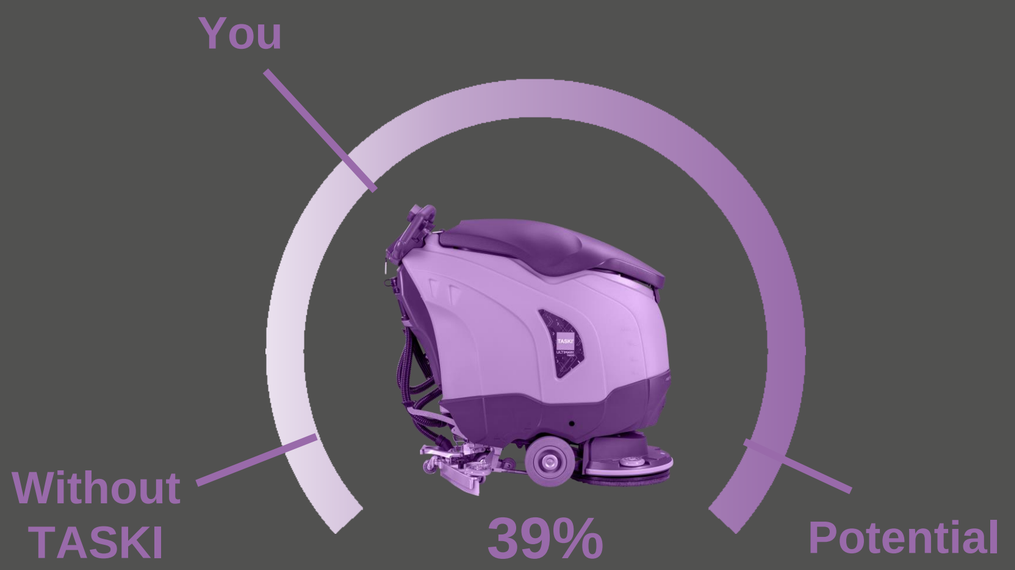
More than half of the ecological impact of an ULTIMAXX machine occurs during its operational life through its energy and resource usage such as water, chemicals and other consumables.

IntelliTrail 2.0 is a significant development in operational data collection that can improve resource usage in a machine's operational life.

In addition to CO_2 drivers, you can gain insight on machine resource use, as granular as per machine per shift, or at the highest level, understanding how your fleet is performing.







WATER

Current Use: 1200L

Potential Savings
With IntelliFlow: 900L
Low setting IntellliFlow: 1200L

>90 ml/m² Gravity Fed – High Settings
60 ml/m² Gravity Fed – Low Settings
40 ml/m² IntelliFlow – High Settings
22 ml/m² IntelliFlow – Low Settings

CHEMICAL

Current Use: 123L

Potential Savings
With IntelliDose: 75x5L
Low setting IntelliDose: 96x5L

Gravity Fed – Manual Dosing
Smart Pump – Manual Dosing
IntelliFlow – IntelliDose High Setting
IntelliFlow – IntelliDose High Setting

Thank you

www.taski.com