



MEMBRAPURE GMBH

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2022

# Sustainability Report

Non-financial  
(Corporate) Report

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CREATED BY

Dr. Erdmann Flindt & Corinna Horn

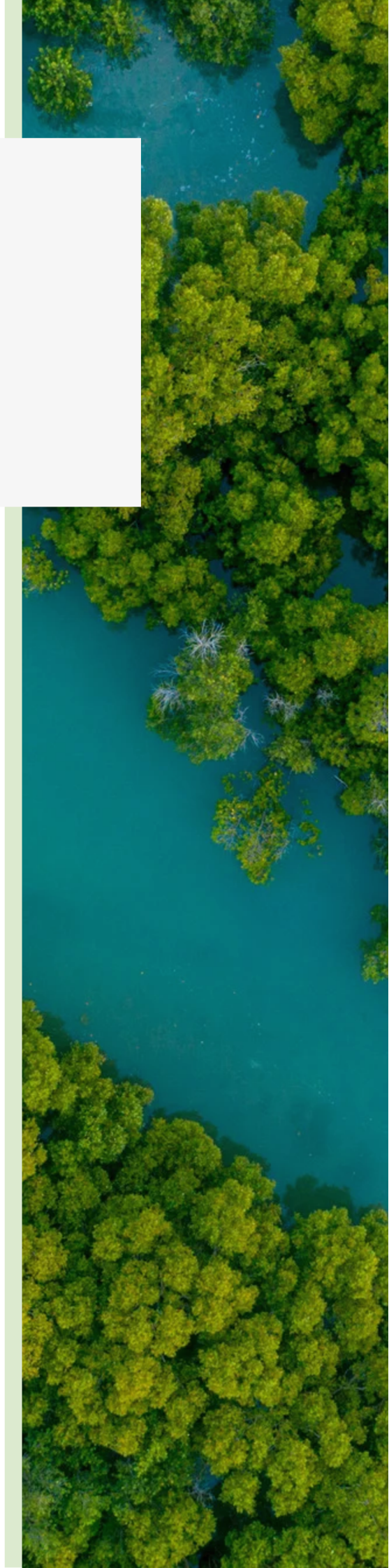
# Sustainability at membraPure

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Environmental pollution caused by the company's activities must be reduced and offset as far as possible. The associated measures must be implemented in a compatible and realistic manner. An important part of our corporate culture is to take responsibility for our environment, which for all of us means much more than just "greenwashing".

Therefore, in 2020 we started to take a closer look at our company and brought experts from the company CO2-positiv! on board.

Since 2021 membraPure has received the certificate **"Climate-neutral company through CO2 neutralization via reforestation"**.







Sustainability has long since moved from being a marketing issue to a core theme of any corporate strategy, and it will not lose its long-term importance even in these difficult times.

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Dr. Erdmann Flindt, CEO





# Preface

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Dear Readers,

In 2022, we prepared our report with Scope 1, 2 and 3. We had reached the milestone of “climate-neutral company with offset” in 2021.

It shows a continuous development in the topic of sustainability. We have expanded our solar plant and numerous other small projects have been initiated.

Even in the current environment, sustainability and resource conservation remain important to us, long-term issue,

so that our products and our behavior continue to fit the times in the future.

We were able to lower our CO2 emissions by 20.3% from the previous year (Scope 1, 2 + 3). Particularly the emissions from purchasing and transportation were significantly lower.

I hope you enjoy reading this report.

Hennigsdorf, September 2023



Dr. Erdmann Flindt  
CEO

# Our Sustainability Strategy

Sustainability is an investment in the future. In cooperation with our employees and CO2-positiv! we have worked out the 4 basic pillars of our sustainability strategy.



**CO2-Emissions**



**CO2-Reduction**



**Employees**



**CO2-Balance**

MembraPure is committed to continuing to operate and grow the business with integrity and responsibility, while protecting and investing in the environment and our people.

Not only have we taken a closer look at our energy consumption and sources, but we have also our operations and even our office life.

As a company, we need to reduce our environmental footprint as much as possible.

membraPure encourages and supports its employees to participate in local projects such as "Stadtradeln - Radeln für ein gutes Klima".





# What are climate-relevant emissions?

membraPure pays attention to the materiality principle in all measures to improve the sustainability of the company. This means that we focus on the projects that have the greatest positive impact.

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## What are climate-relevant emissions?

According to the Kyoto Protocol, these six greenhouse gases are climate-relevant: Carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), and nitrous oxide (N<sub>2</sub>O), as well as the fluorinated greenhouse gases (F-gases): hydrogen-containing hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF<sub>6</sub>). From 2015, nitrogen trifluoride (NF<sub>3</sub>) will also be included.

In Germany, carbon dioxide accounts for 87.1% of greenhouse gas emissions, methane for 6.5%, nitrous oxide for 4.6% and F-gases for around 1.7% (in 2020).

Climate change has been influenced by humans since the beginning of industrialization.

Greenhouse gas emissions are mainly caused by the consumption of resources and the combustion of fossil fuels, but also by industrial processes.

Companies can reduce their CO<sub>2</sub> emissions in particular by cutting back on fossil fuels. This applies in particular to energy consumption in production, buildings and transport.

# Preparation of the CO2 balance

In cooperation with the company CO2-positiv! membraPure has created a CO2 balance for the year 2021 based on the "Greenhouse Gas Protocol" (also known as "GHG Protocol") for balancing greenhouse gas emissions.

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The carbon footprint serves as a means to calculate the climate impact of corporate activities.

The GHG Protocol covers all gases of the Kyoto Protocol and consists of 3 parts: Scope 1 (direct emissions), Scope 2 (indirect emissions) and Scope 3 (other indirect emissions).

For 2022, scope 1, 2 + 3 were calculated and the unavoidable emissions incurred were offset with high quality CO2 allowances. Thus, membraPure is a climate neutral company through CO2 neutralization via reforestation in 2022.



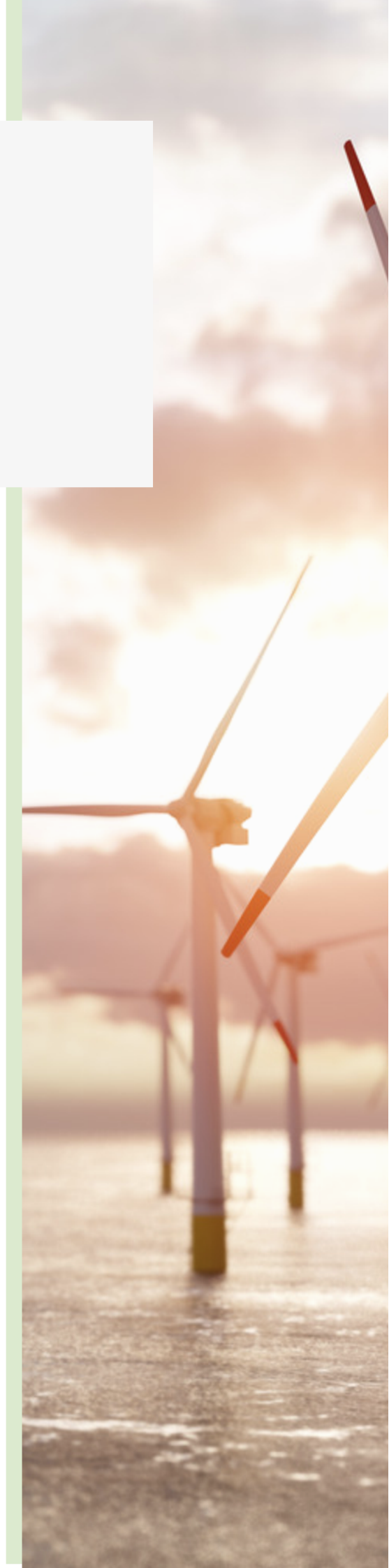
# Ecology

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## Use of natural resources

Corporate greenhouse gas emissions are categorized into three different scopes. The standards of the GHG Protocol distinguish:

- **Scope 1:** all direct greenhouse gas emissions caused by the company's own processes.
- **Scope 2:** all indirect emissions caused by grid-bound energy within a company. These emissions are strongly dependent on the electricity mix.
- **Scope 3:** This area includes all other indirect emissions from upstream and downstream activities. These include, for example, business travel, events,

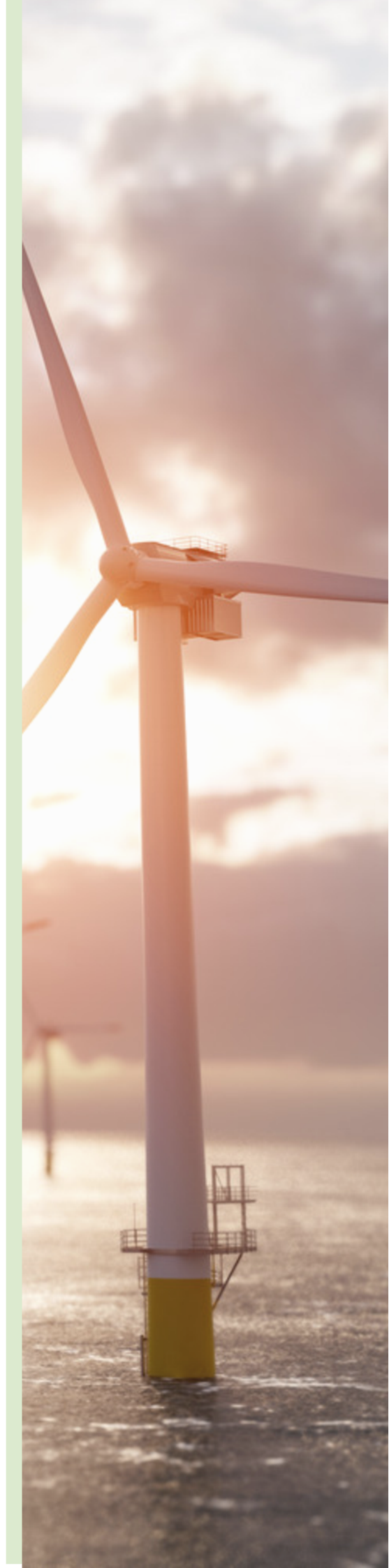




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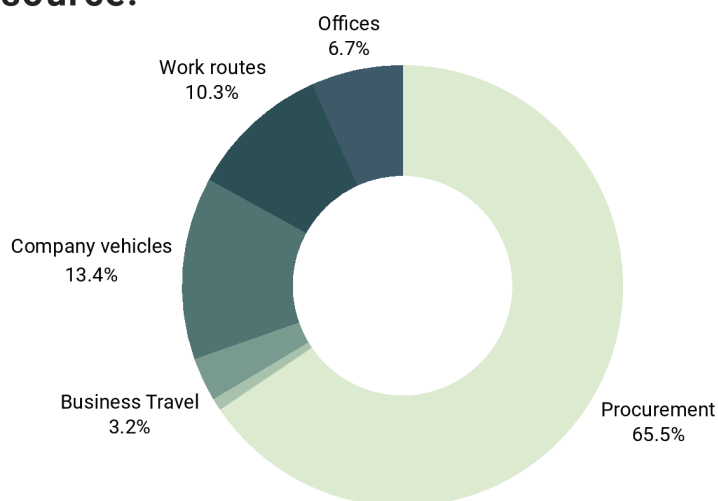
paper consumption or goods and services purchased by the company as well as their transport and distribution.

In addition, Scope 3 includes emissions caused by employee commuting, business travel, the use of products sold, and the disposal of waste.



# CO2-Balance 2022

## membraPure CO2 balance 2022 by emission source:



Purchasing of intermediate products as the biggest driver. Compared to the previous year, however, transport and electricity consumption were reduced significantly.

## CO2-Balance 2022: ~198 t CO2

CO2 Balance	Unit	t CO2	Percentage %
<b>Scope 1</b>			<b>13,4 %</b>
Fuels	Liter	24,1	13,4 %
<b>Scope 2</b>			<b>3 %</b>
District heating	kWh	1,8	1 %
Gray Power	kWh	3,6	2 %
<b>Scope 3</b>			<b>83,7 %</b>
Upstream emissions		6,7	3,7 %
Total business trips		5,8	3,2 %
Work routes		18,5	10,3 %
Procurement		118,3	65,6 %
Transport	t/km	1,5	0,9 %
<b>Total with markup</b>		<b>198,3</b>	<b>100 %</b>

# Employees

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First and foremost, it is our employees who make membraPure. Without their contributions, ingenuity and team spirit, we would not be where we are today.

That's why the following projects have been launched for employees:

- Public transport tickets for employees
- Reusable meal containers for food orders
- Incentives to use bicycles

Attractive working time models and the possibility to work in a home office enable employees to achieve a good work-life balance and to save CO<sub>2</sub>.

membraPure is proud of the proportion of women in STEM professions in the company. Entry-level opportunities such as thesis/master's thesis are offered on a regular basis.

Furthermore, employees have founded a working group that plans and implements sustainable projects. There were many good ideas on how the company can make internal procedures/ processes even more sustainable.

In addition, environmental projects were initiated, such as planting trees and a wildflower meadow for bees on the company premises.





# New internal projects to reduce CO2 emissions

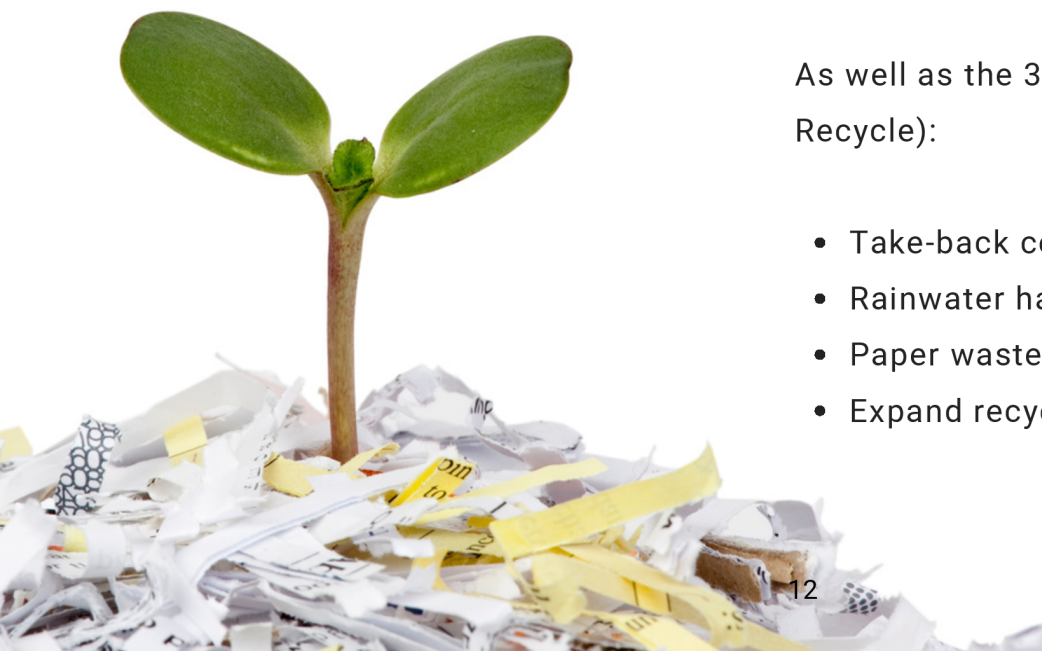
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As a consequence of the CO2 balance 2021, potentials and concrete measures were worked out and internal projects were launched to reduce the company's greenhouse gas emissions:

- Additional electric company cars + charging station
- Business trips by train if possible and more online meetings
- Expansion and increased use of solar energy

As well as the 3 R's (Reduce, Re-use, Recycle):

- Take-back concept
- Rainwater harvesting
- Paper waste prevention
- Expand recycling





# Carbon offset - reforestation project in Uchindile and Mapanda

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## About the project

Between the years 1990 and 2010, Tanzania lost 19.4% - about eight million hectares - of its forest cover. To reverse this trend, this reforestation project was launched in Tanzania's southern highlands, replanting pine and eucalyptus forests in Uchindile and Mapanda districts with active support from local communities.

Project activities support four villages with more than 1,000 households and secure jobs for more than 340 people. The project developer is committed to improving the social conditions of

the aim is to improve the quality of life in the participating communities, for example by providing villagers with better access to water through the construction of wells and by improving the infrastructure of schools and the local hospital.

Other social development activities include training women as entrepreneurs or distributing seedlings to neighboring communities.



**Climate neutral  
Company 2022**

through CO<sub>2</sub>e neutralization via reforestation

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# Certificate

Certification of climate neutrality for

**membraPure GmbH**

We hereby certify the climate neutrality based on the neutralization of CO<sub>2</sub>e emissions for the 2022 financial year through the Uchindile & Mapanda reforestation project in Tanzania registered by the VCS. The main emission sources were taken into account for the carbon footprint in accordance with the three scopes of the GHG Protocol Standard. The calculation was carried out using emission factors for CO<sub>2</sub> equivalents from recognized databases.

Hamburg, 10.10.2023

Ort, Datum

Chris Schleicher

**CO<sub>2</sub>-positiv!**  
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