## Greenhouse Gas footprint 2021

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### Introduction

Otrium is committed to drive positive change through its business model and platform. Otrium's ultimate goal is to have a net positive impact. This means giving back more than we take through our business model, social and environmental impact

As part of this commitment, Otrium is looking into its own environmental impact and has conducted a carbon footprint analysis. The results of the analysis are depicted in this Greenhouse Gas report which is in accordance with the Greenhouse Gas Protocol. This report outlines the second greenhouse gas emission calculation for Otrium over the year 2021. Otrium conducted its first carbon footprint analysis based on the year 2020.



#### Carbon to climate

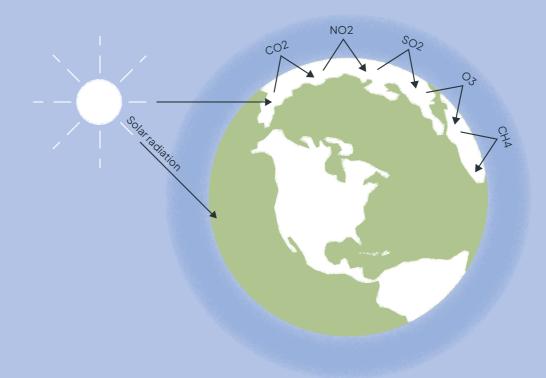
Carbon and climate change are interlinked, a carbon footprint represents the impact on climate change. Climate change refers to long-term shifts in temperatures and weather patterns. These shifts may be natural, such as through variations in the solar cycle. But since the 1800s, human activities have been the main driver of climate change, primarily due to burning fossil fuels like coal, oil and gas1.

Burning fossil fuels generates greenhouse gas emissions within the atmosphere that trap heat. They let sunlight pass through the atmosphere and they prevent the heat that the sunlight brings from leaving the atmosphere. They function as a blanket wrapped around Earth, trapping heat and raising temperatures.

Examples of greenhouse gas emissions that are causing climate change include carbon dioxide (CO2) and methane (CH4). These come from using gasoline for driving a car or coal for heating a building, for example. Clearing land and forests can also release carbon dioxide. Landfills for garbage are a major source of methane emissions. Energy, industry, transport, buildings, agriculture, and land use are among the main emitters.

Greenhouse gas emissions are consolidated and reported in CO2 - equivalent units, providing a measure of the footprint in carbon equivalents. This is why many reports and researches are called the carbon footprint report rather than green house gas report.

The carbon footprint represents the total volume of greenhouse gases (GHG) resulting from everyday economic and human activity. Knowing the carbon footprint of an activity, which is measured in tons of CO2 emissions, is important when it comes to taking measures and launching initiatives to reduce it to the lowest possible level.



### Organisational boundary

The organisational boundary is set in accordance with the Greenhouse Gas Protocol. Otrium consolidates emissions via the operational control approach. Otrium thus accounts for 100% of greenhouse gas emissions from operations over which it has operational control. For Otrium this implies in 2021 the two Amsterdam offices, London office, Paris office and New York office and the leased vehicles.

### Operational boundary

#### Scope 2 Scope 2

Direct greenhouse gas emissions occur from sources that are controlled by the company, for example, emissions from combustion in boilers and vehicles. For Otrium these are:

- Combustion of natural gas at the Amsterdam office (other offices don't use gas)
- Combustion of leased vehicles over which Otrium has operational control

Scope 2 emissions are indirect emissions from the generation of purchased electricity, steam, heating and cooling consumed by the Otrium. Scope 2 emissions physically occur at the facility where the energy is generated. For Otrium this relates to:

• Electricity usage, district heating and cooling at the Amsterdam, London, Paris and New York offices

In accordance with the Greenhouse Gas Protocol, Otrium is required to report on scope 2 emissions (location based and market-based).

#### Scope 3

Scope 3 emissions are a consequence of the activities of the company but occur from sources upstream or downstream in the supply chain and are not controlled by the Otrium. Otrium reports on absolute scope 3 emissions relating to:

- Category 1: Purchased Goods and Services
- Purchased electronic devices
- Purchased consumer packaging
- Server data. This entails the emissions coming from data centre-servers which we use to store all data and the architecture behind our e-commerce platform
- Category 3: Fuel and Energy Related Activities
- O Gas and electricity used by warehouses
- Category 4: Upstream Transportation and Distribution
- First Mile logistics
- Last mile logistics
- Customer returns

- Category 5: Waste Generated in Operations
- Waste generated from warehouses
- Category 6: Business travel
- Business related travel, such as flights, trains, taxis, rental cars and hotel stays
- Category 7: Employee commuting
- Commuting by employees working at offices
- Category 12: End-of-Life Treatment of Sold products
- Disposal of consumer packaging

### Calculation methodology

Scope 1, 2 and 3 emissions are calculated with supplier specific data where possible. Both a market-based approach and a location-based approach are used to calculate the emissions relating to scope 2. In table 1, the calculation methods are

explained. If only partial invoices are available, the data is extrapolated to a full year (if the asset was in operation for a full year). If an asset was introduced for use during a year, only data for that period is considered.

Source of emissions	Calculation method
Gasusage	greenhouse gas emissions = ≣ m3 gas purchased per annum per country * country specific emission factor
Petrol	greenhouse gas emissions = ≣ litre of petrol used per annum * country specific emission factor for combustion of 1 litre of petrol
Electricity (market based)	greenhouse gas emissions = ≣ kWh per annum * emission factor specified in energy contract
Electricity (location based)	greenhouse gas emissions =≣ kWh per annum * country specific emission factor
District heating	greenhouse gas emissions =≣ kWh per annum * country specific emission factor
District cooling	greenhouse gas emissions =≣ kWh per annum * country specific emission factor
Commuting	greenhouse gas emissions = ≣ km travelled * amount of employees commuting * emission factor per mode of transport
Business travel	greenhouse gas emissions = ≣km per type of class and distance range per annum * emission factor per type of class and distance range
First mile logistics	greenhouse gas emissions = ≣ amount of transports * km shipping distance * avg. weight * emission factor tonnes CO2 – eq/tonne km
Last mile logistics	greenhouse gas emissions = ≣ amount of shipped parcels per courier * emission factor per shipped parcel per courier
Packaging disposal	greenhouse gas emissions = ≣ amount of returned orders * emission factor per kg of disposed packaging material
Customer returns	greenhouse gas emissions = ≣ return rate * amount of CO2 emissions for shipped parcels
Waste from warehouse	greenhouse gas emissions = ≣ kg of waste per element * emission factor per kg wasted element

### Results

The total amount of greenhouse gases emitted for scope 1, 2 and 3 in 2021 was 2742.25 tons CO2 – eq. conform to the market-based approach and 2895 tons CO2 – eq. conform to the location based approach. In the graph below the emission sources and scopes are depicted (market based).

Scope	Tons CO2-eq.	Share
Scope1	73.3	2,66%
Scope 2	0.566	0.02%
Scope 3	2668.4	97.32%
Total	2742	100%



#### **Comparing 2021 to 2020**

Comparing our 2021 CO2 - eq. impact to our 2020 base year gives us a insight into where we've improved and where we need to focus on in terms of reducing our impact. Pictured below are the largest impact areas. With this in mind, our future efforts to reduce these numbers can be better targeted.

Legend

X means not included in the scope of this year's report

V means included in the scope of this year's report

Data-point	2020 scope	2021 scope	Notes		
First mile logistics	X	V	Data is gathered on the number of drops received per brand, assumptions are made regarding the locations of brand warehouses and the distances from these locations. For future GHG reports, improvements are going to be made regarding data gathering processes such as mode of transport during transportations, distance travelled, weight on transportations.		
Commuting	X	V	A survey was sent to employees to gather information regarding the distances they travel and the modes of transport they use to get to offices.		
Gas, Amsterdam office	V	V	One out of the two offices in Amsterdam uses gas (the Awarehouse office). Data is received from the landlords, which includes gas usage, this data is used to calculate emissions.		
Energy, Amsterdam office	V	V	A second office was opened in September 2021. Data is received from the landlords, which includes information on electricity usage alongside any renewable energy certifications, is then used to calculate emissions.		
Energy, London office	Х	V	The London office opened in December 2021. Data is received from the landlords, which includes information on electricity usage alongside any renewable energy certifications, is then used to calculate emissions.		
Energy, Paris office	X	V	The Paris office opened in August 2021. Data is received from the landlords, which includes information on electricity usage alongside any renewable energy certifications, is then used to calculate emissions.		
Energy, New York office	Х	V	The New York office opened in August 2021. Data is received from the landlords, which includes information on electricity usage, this data is used to calculate emissions. Emissions are based on assumptions due to the Co-Gen power plant generating heat, which makes the Industrious office not have any gas bills (since the gas/heat comes from the CoGeneration). The CoGen power plant is more energy efficient than the normal fuel-based energy sources.		
Gas & Energy, Warehouse in NL	V	V	The gas and energy used in our NL warehouse is tracked and measured by our partner Bleckmann and is sent to us through their annual report.		



Data-point	2020 scope	2021 scope	Notes	
Gas & Energy Warehouse in the UK	X	V	The UK warehouse began its operations in 2021. The gas & energy used in our UK warehouse is tracked and measured by our partner Bleckmann and is sent to us through their annual report.	
Gas & Energy, Warehouse in the US	X	V	The US warehouse began its operations in 2021. The gas & energy used in our US warehouse is tracked and measured by our partner Bleckmann and is sent to us through their annual report.	
Waste, Warehouse in NL	X	V	The waste produced at our NL warehouse is tracked and measured by our partner Bleckmann and is sent to us through their annual report.	
Waste, Warehouse in the UK	Х	V	The UK warehouse began its operations in 2021. The waste produced at our UK warehouse is tracked and measured by our partner Bleckmann and is sent to us through their annual report.	
Waste, Warehouse in the US	Х	V	The US warehouse began its operations in 2021. The waste produced at our US warehouse is tracked and measured by our partner Bleckmann and is sent to us through their annual report.	
Electronics	Х	V	Emissions are calculated per purchased electronic device.	
Server data	Х	V	Server data emissions are calculated with a spend based method.	
Business travel	Х	V	Travel data is collected, and this data, which includes expenditure and fuel usage, is used to calculate emissions.	
Packaging	Х	V	Packaging emissions are calculated using data compiled in an Excel spreadsheet, which includes information from the Position Green dashboard. Position green is a platform used as a carbon dashboard which collects data and calculates this into emissions.	
Last mile logistics	V	V	Our Logistics team collects outbound data, including the number of deliveries per courier, which is then input into Position Green to extract emissions.	
Customer returns	Х	V	The inbound data is calculated using the return rate for the year 2021 times the number of total outbound deliveries.	



#### Results 2021 (market based approach)

Scope	Location	Category	Kg CO2-eq.
01	Anadandanahada	Natural gas	72,600
Scope1	Amsterdam hub	Fuelusage	709
0	New York hub	Electricity (market based)	496
Scope 2	Paris hub	District heating	70.29
		Packaging material (purchase and disposal of)	623,337
		Warehouse - gas	55,059
	Warehouse Almelo, the Netherlands	First mile logistics	279,371
		Waste	11,095
	Warehouse, the United Kingdom	Packaging material (purchase and disposal of)	29,596
		Warehouse - power	19,971
7		Warehouse - gas	408
Scope 3		First mile logistics	16,408
		Waste	572
		Packaging material (purchase and disposal of)	6,791
	Warehouse, the United States	Warehouse - power	26,567
		Warehouse - gas	17,933
		First mile logistics	191,472
		Waste	228



Scope	Location	Category	Kg CO2-eq.		
		Last mile logistics	1,011,821		
Scope 3	Emissions pertaining to multiple locations	Customer returns	237,410		
		Business travel	44,924		
		Natural gas Patural gas	72,600		
Scope 1	Amsterdam hub	Fuelusage	709		
	New York hub	Electricity (market based)	496		
Scope 2	Paris hub	District heating	70,29		
		Commuting	51,128		
		Servers	25,556		
		Electronic devices	27		
Total	Total				



		<b>2020</b> kg of CO2-eq.	<b>2021</b> kg of CO <sub>2</sub> -eq.	Explanation	Next steps
Scope 1	Natural gas	14,071	72,600	Increased number of offices from 1 to 5, however, all new offices do not use gas.	Continue transitioning to renewable energy sources to reduce reliance on traditional gas usage. Improve energy efficiency of existing and new facilities.
	Petroleum	1148	709	Decreased car use because of stricter lock- downs in The Netherlands due to the COVID-19 pandemic.	Switch to fully electric lease cars.
Scope 2	Electricity (market based)	0	496	Increased number of offices, where one is without renewable energy.	Introduce efforts on helping to change to renewable energy at all offices.
	District heating and cooling	N/A	70.29	Not in scope in 2020. Offices can be heated in several ways - most of Otrium's offices are heated through electricity or gas. District heating is one other option, which is only present in the Paris office.	Improve energy efficiency of existing and new facilities.
	Category 1: Purchased electronic devices	N/A	27	Not in scope in 2020.	Continue to reuse and repair old and used electronic devices as much as possible. When new devices are needed, try to only buy second-hand and recovered devices.
Scope 3	Category 1: Purchased consumer packaging	192 665	648,158	Increased inclusiveness of different types of packaging used in the data calculations thus the large increase in emissions. Additionally, > Increased number of orders: 107% > Increase packaging use: 76% Increase is due to sharp rise in sales and launching in several additional countries.	Where possible, eliminate the amount of packaging materials used, improve ability to reuse materials and introduce recyclable packaging materials.



		<b>2020</b> kg of CO <sub>2</sub> -eq.	<b>2021</b> kg of CO <sub>2</sub> -eq.	Explanation	Next steps
Scope 3	Category 1: Server data This entails the emissions coming from data cen- tre-servers which we use to store all data and the archi- tecture behind our e-com- merce platform	N/A	25,556	Not in scope in 2020.	Restructure our architecture to consume less energy from server providers.
	Category 4: First mile logistics This entails the logistics from goods from the warehouse of the fashion brand to warehouse of Otrium	N/A	487,252	Not in scope in 2020.	Improve data gathering to get more exact emissions. Introduce policy on more efficient and less emitting transportation vehicles, only work with transportation companies which are constantly improving environmental footprint with less carbon emissions.
	Category 4: Last mile logistics This entails logistics from Otrium's warehouse to the end-customer	338,531	1,011,821	Increase due to sharp rise in sales and launching in additional countries. We used a larger variety of couriers where we did not have specific information on the CO2 per shipped parcel for Otrium's operations. We calculated through worst-case scenarios resulting in a higher total of CO2 – eq.	Improve data gathering to get more exact emissions. Introduce policy on more efficient and less emitting transportation vehicles, only work with transportation companies which are constantly improving environmental footprint with less carbon emissions.
	Category 4: Customer returns This entails return transport from end-customer to Otri- um's warehouse	N/A	237,410	Not in scope in 2020.	Improve data gathering to get more exact emissions. Introduce policy on more efficient and less emitting transportation vehicles, only work with transportation companies which are constantly improving environmental footprint with less carbon emissions.

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		<b>2020</b> kg of CO <sub>2</sub> -eq.	<b>2021</b> kg of CO <sub>2</sub> -eq.	Explanation	Next steps
	Category 3: Warehouse utilities usages (gas and electricity)	211,669	138,233	Decrease due to the largest warehouse switched to renewable electricity.	Continue switching to green energy and work together with suppliers to incentivise this. Help to improve energy efficiency of existing and new facilities.
	Category 5: Waste from warehouses	N/A	11,895	Not in scope in 2020.	Eliminate waste, our warehouse suppliers are currently working on a zero-waste target.
Scope 3	Category 6: Business travel	N/A	44,924	Not in scope in 2020.	Introduce the travel policy and carbon budget.  > Usage of train over plane  > Only travel when necessary (virtual meetings) Introducing an app where all travel related data is stored for better and more accurate data gathering.
	Category 7: Employee Commuting	N/A	51,128	Not in scope in 2020.	Incentivise train travel (or other public transport), biking instead of driving your own car.
	Category 12: Disposal of consumer packaging	N/A	11,566	Not in scope in 2020. In scope in 2021, meaning the emissions from end-of-life disposal is included.	Apart from to reduce, reuse and recycle; improve knowledge on what happens with packaging used, create incentives on getting packaging back to improve certainty of recycled materials.
Total kg of CO2-eq.		758,084	2,742,252		

	Tons of CO <sub>2</sub> – eq. per source								
Last mile logistics Packaging material First mile logistics Customer returns Warehouse gas Offices Commuting Wa							Warehouse power		
36.9%	24.1%	17.8%	8.7%	3.4%	2.7%	1.9%	1.7%		

### Responsibilities

The Sustainability Team is responsible for the correct reporting of the greenhouse gas footprint.

The Sustainability team is supported by the Logistics team, the Partnerships team and the Finance team which assists in gathering the data and assures completeness regarding the locations in scope. The data is gathered in the ESG reporting platform tool of Position Green. Willow Sustainability (an advisory consultancy firm) reviewed the calculations and the final report before publication. They provided valuable feedback and recommendations for improvement. The calculation is done annually, and the results are disclosed on the website of Otrium. The methodology used is in line with the Greenhouse Gas Protocol, a Corporate Accounting and Reporting Standard.

# Thank you

Our sustainability partners and accreditations

Position Green\*

Sustainalize

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