CO_2 footprint

Report 2022

(Basic Year)

Smart Locking Group B.V.

Preface

This report presents the CO2 footprint and other CO2-relevant results of the Envirometer of Smart Locking Group BV.

The CO2 footprint meets SKAO's requirements for CO2 Performance Ladder level 3. The CO2 footprint includes Scope 1 plus scope 2 & Business Travel. The CO2 emission factors correspond to the factors of CO2-emissiefactoren.nl.
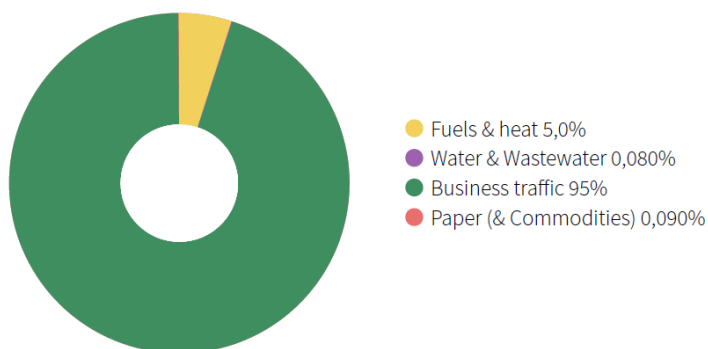
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CO2

Total

2022

The pie chart shows the distribution of CO2 emissions over the themes. The larger the slice, the more this theme contributes to the overall CO2 footprint of the company.
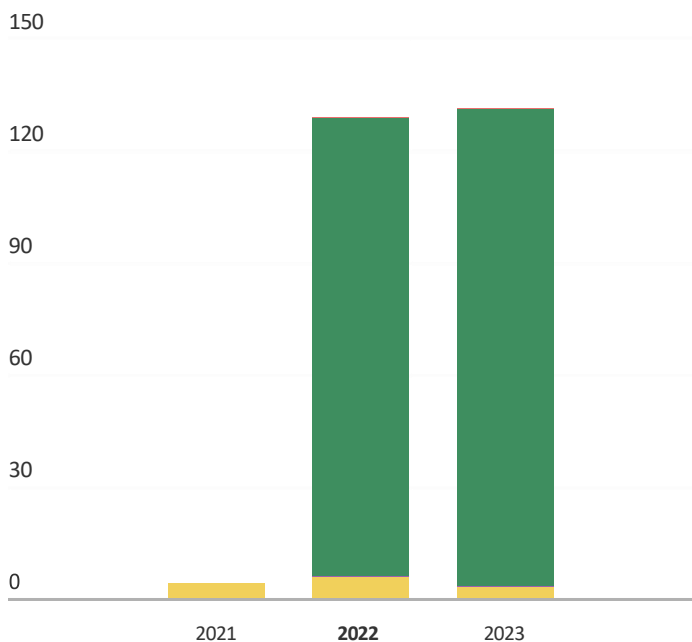

- Fuels & heat 5,0%
- Water & Wastewater 0,080%
- Business traffic 95%
- Paper (& Commodities) 0,090%

CO2

Multiyear graph - Total

Tonne CO_2

This chart is a graphical representation of the CO2 footprint in tonnes of CO2 per year. The larger a theme in this graph, the greater the contribution of that theme to the emission of greenhouse gases. No CO2 emission is allocated to waste.

If CO2 emissions are compensated, the CO2 offset is shown in the blue column.

- Electricity
- Fuels & heat
- Water & Wastewater
- Business traffic
- Paper (& Commodities)

CO2-footprint

CO₂ Performance Ladder

CO₂ footprint Smart Locking Group B.V. 2022

	Theme		CO₂-parameter	CO₂-equivalent
CO₂ Scope 1				
Natural gas used for heating	Fuels & heat	3.068 m3	2,09 kg CO₂ / m3	6,40 tonnes CO₂
Refrigerant - R32	Emissions	0 kg	- kg CO₂ / kg	0 tonnes CO₂
Refrigerant - R407c	Emissions	0 kg	- kg CO₂ / kg	0 tonnes CO₂
Refrigerant - R410a	Emissions	0 kg	- kg CO₂ / kg	0 tonnes CO₂
Passenger car (in litres) gasoline	Business traffic	17.286 litre	2,78 kg CO₂ / litre	48,1 tonnes CO₂
Delivery van (in litres) diesel	Business traffic	14.235 litre	3,26 kg CO₂ / litre	46,4 tonnes CO₂
			Subtotal	*101* tonnes CO₂
CO₂ Scope 2 and business travel				
Self generated electricity - solar	Electricity	19.179 kWh	- kg CO₂ / kWh	0 tonnes CO₂
Returned self-generated electricity	Electricity	4.872 feed-in kWh	- kg CO₂ / feed-in kWh	0 tonnes CO₂
Purchased electricity	Electricity	50.547 kWh	0,523 kg CO₂ / kWh	26,4 tonnes CO₂
Of which green electricity - wind power	Electricity	50.547 kWh	-0,523 kg CO₂ / kWh	-26,4 tonnes CO₂
Charge cards road transport (market mix)	Business traffic	263 kWh	0,427 kg CO₂ / kWh	0,112 tonnes CO₂
Aeroplane medium distance (750-2500 km)	Business traffic	40.825 passenger km	0,172 kg CO₂ / passenger km	7,02 tonnes CO₂
Aeroplane long distance (>2500 km)	Business traffic	133.857 passenger km	0,157 kg CO₂ / passenger km	21,0 tonnes CO₂
			Subtotal	*28,1* tonnes CO₂
			CO₂ Emissions	129 tonnes CO₂
CO₂ Scope 3				
Drinking-water	Water & Wastewater	366 m3	0,298 kg CO₂ / m3	0,109 tonnes CO₂
Environmentally certified paper	Paper (& Commodities)	92,8 kg	1,21 kg CO₂ / kg	0,112 tonnes CO₂
			Subtotal	*0,221* tonnes CO₂

This CO2 footprint is consistent with the requirements for the CO2-Performance Ladder. The CO2 emission is divided into scopes:

- Scope 1
- Scope 2 & business traffic (from scope 3)
- Other scope 3 items (if included)

Scope 1 contains all direct greenhouse gas emissions. Scope 2 & Business Traffic contains indirect GHG emissions from consumption of energy like electricity, heat and steam plus business kilometres like private cars, public transport and air traffic. Scope 3 are other indirect emissions caused by your activities.

Indicators

		2021	2022	2023
Energy				
Percentage night or off-peak electricity	%	7,38	18,9	16,9
Electricity consumption	kWh	59.473	64.854	69.975
Electricity consumption per employee	kWh/fte	3.717	2.494	2.333
Electricity consumption per floor area	kWh/m2	43,3	47,3	51,0
Fuels & Heat & Cold				
Fuel plus heat consumption	m3 gas eq.	2.391	3.068	1.805
Heating energy consumption per building volume	m3 gas eq./m3	0,402	0,515	0,303
Heating fuel per employee	m3 gas eq./fte	149	118	60,2
Building related energy				
building-related energy consumption (final) in kWh	kWh/m2	60,4	69,1	63,9
Water and waste water				
Tapwater consumption per office staff member	m3/fte		14,1	5,13
Waste				
Sorting of waste	%	61,5	60,9	60,9
Waste per employee	kg/fte	2.238	1.355	1.175
Paper waste per employee	kg/fte	1.140	705	611
Transport				
Commuter traffic mileage per employee	km/fte			
Share of public and unmotorised transport in commuter traffic	%			
Transport fuel for bussiness road traffic per employee	litre diesel eq./fte		1.127	1.070
CO2 and Compensation				
CO2-emission expressed in car kilometers	Turns around the world	0,576	16,7	17,0
m2 solar cells to offset CO2 emissions	m2	51,9	1.585	1.851
Building-related CO2 emissions per employee	tonne CO_2/fte	0,282	0,246	0,125
Business				
Floor area per employee	m2/fte	85,8	52,8	45,7
Average floor height	m	4,34	4,34	4,34
Raw materials				
Use of Cleaning products	l/m2			
Office Paper				
Paper purchases per employee	kg/fte			

These indicators translate annual data like 'total electricity' to more comprehensible numbers like 'kWh/m2 floor area' or 'sortingpercentage of waste'. Indicators also enable comparison with the environmental performance of larger or smaller organizations.