

**Greenhouse Gas Emissions Inventory  
of  
Takoni Sp z o.o.**

**Inventory year 2022**

Have any facilities, operations and/or emissions sources been excluded from this inventory? If yes, please specify.

The report concerns only at Takoni Sp z o.o. Other business entities related to the company were not included in the report.

Reporting period covered by this inventory

2022-01-01 - 2022-12-31

ORGANIZATIONAL BOUNDARIES

Which consolidation approach was chosen (check each consolidation approach for which your company is reporting emissions.) If your company is reporting according to more than one consolidation approach, please complete and attach an additional completed reporting template that provides your company's emissions data following the other consolidation approach(es).

Equity Share <input type="checkbox"/>	Financial Control <input type="checkbox"/>	Operational Control <input checked="" type="checkbox"/>
--	---	--

OPERATIONAL BOUNDARIES

Are Scope 3 emissions included in this inventory?

NO

If yes, which types of activities are included in Scope 3 emissions?

Not applicable

INFORMATION OF EMISSIONS

The table below refers to emissions independent of any GHG trades such as sales, purchases, transfers, or banking of allowances

EMISSIONS	TOTAL	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs	PFCs	SF <sub>6</sub>
	(MgCO <sub>2</sub> e)	(MgCO <sub>2</sub> e)	(MgCO <sub>2</sub> e)	(MgCO <sub>2</sub> e)	(MgCO <sub>2</sub> e)	(MgCO <sub>2</sub> e)	(MgCO <sub>2</sub> e)
Scope 1	125,536	74,426	0,087	0,672	0,000	0,000	0,000
Scope 2 Location	4 820,117	4 820,117	0,000	0,000	0,000	0,000	0,000
Scope 2 Market	3 879,721	3 879,721	0,000	0,000	0,000	0,000	0,000
Scope 3 (optional)							

Direct CO<sub>2</sub> emissions from Biogenic combustion (MgCO<sub>2</sub>)

0,000 MgCO<sub>2</sub>

BASE YEAR

Year chosen as base year

2022

Clarification of company-determined policy for making base year emissions recalculations

Not applicable

Context for any significant emissions changes that trigger base year emissions recalculations

Not applicable

Base year emissions

EMISSIONS	TOTAL	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs	PFCs	SF <sub>6</sub>
	(MgCO <sub>2</sub> e)	(MgCO <sub>2</sub> e)	(MgCO <sub>2</sub> e)	(MgCO <sub>2</sub> e)	(MgCO <sub>2</sub> e)	(MgCO <sub>2</sub> e)	(MgCO <sub>2</sub> e)
Scope 1							
Scope 2 Location							
Scope 2 Market							
Scope 3 (optional)							

## METHODOLOGIES AND EMISSION FACTORS

Methodologies used to calculate or measure emissions other than those provided by the GHG Protocol. (Provide a reference or link to any non-GHG Protocol calculation tools used)

### **1. Basic information on the methodology of calculating greenhouse gas emissions and the emission factors used**

GHG Scope 1 have been calculated using the methodology The GHG Protocol Corporate Accounting and Reporting Standard

- for natural gas: based on DEFRA data.
- for diesel and petrol: based on DEFRA data.

GHG Scope 2 have been calculated using the methodology The GHG Protocol Corporate Accounting and Reporting Standard with GHG Protocol Scope 2 Guidance and amendment to the GHG Protocol Corporate Standard.

- Location based-method: electricity in Poland - based on KOBIZE data
- Market based-method: FORTUM S.A Due to the lack of data on energy sellers for electric car chargers, it was assumed that the reported emission factors are the same as the energy sellers for the surveyed company.
- Heating in Poland - based on URE data

### **2. Information on source data and estimates**

Calculations of consumption of fuels and energy carriers refer to 2022. Consumption measured on invoices and billing meters for fuels and energy was reported

#### 2.1 Electricity

It was assumed that the consumption values measured on invoices for the next 12 months reflect the annual electricity consumption.

#### 2.2 Natural gas

It was assumed that the consumption values measured on invoices for the next 12 months reflect the annual consumption of natural gas.

#### 2.3 Mobile combustion

It was assumed that the consumption values measured on invoices for the next 12 months reflect the annual consumption of natural gas.

#### 2.4 Refrigerants

It was assumed that the consumption values measured on invoices for the next 12 months reflect the annual consumption of refrigerants.

#### 2.5 Process emissions

As part of maintaining production, ad hoc welding works are carried out. It was assumed that the acetylene consumption values measured or forecasted on the invoices for the next 12 months reflect the annual acetylene consumption. In 2022, direct measurements of emissions from production processes were carried out. The obtained results do not indicate the emission of greenhouse gases.

Shielding gas mixtures - proportional emissions to the mass share of CO<sub>2</sub> in the mixture are entered.

All data (100%) on natural gas, LPG, diesel and electricity is taken from source data.

The calculation of greenhouse gas emissions and data estimation was carried out by:

Ryszard Matusiak - Kierownik Działu Rozwoju Jakości Dostawców/Supplier Quality Development Manager, Product Safety and Conformity Representative

0

### ORGANIZATIONAL BOUNDARIES

List of all legal entities or facilities over which reporting company has equity share, financial control or operational control	Equity share in legal entity (%)	Does reporting company have financial control? (yes/no)	Does reporting company have operational control? (yes/no)
Takoni Sp z o. o.	100,00%	YES	YES

If the reporting company's parent company does not report emissions, include an organizational diagram that clearly defines relationship of the reporting subsidiary as well as other subsidiaries

Not applicable

### INFORMATION ON EMISSIONS

#### Emissions disaggregated by source types

Scope 1: Direct Emissions from Owned/Controlled Operations (MgCO <sub>2</sub> e)	
a. Direct Emissions from Stationary Combustion	0,000
b. Direct Emissions from Mobile Combustion	75,186
c. Direct Emissions from Process Sources	0,000
d. Direct Emissions from Fugitive Sources	50,351
e. Direct Emissions from Agricultural Sources	0,000
Scope 2: Indirect Emissions from the Use of Purchased Electricity, Steam, Heating and Cooling (MgCO <sub>2</sub> e)	
a1. Indirect Emissions from Purchased/Acquired Electricity - location based	4 110,819
a2. Indirect Emissions from Purchased/Acquired Electricity - market based	3 170,423
b. Indirect Emissions from Purchased/Acquired Steam	0,000
c. Indirect Emissions from Purchased/Acquired Heating	709,298
d. Indirect Emissions from Purchased/Acquired Cooling	0,000

Emissions disaggregated by facility (recommended for individual facilities with stationary combustion emissions over 10 000 Mg CO<sub>2</sub>e)

Facility	Scope 1 emissions
Not applicable	Neither site has emissions emitting a level more than 10 000 Mg CO <sub>2</sub> e

#### Emissions disaggregated by country (MgCO<sub>2</sub>e)

Country	Emissions (specify Scopes included)
Poland	Scopes 1 i 2 location based: 4 945,653
Poland	Scopes 1 i 2 market based: 4 005,257

Emissions attributable to own generation of electricity, heat, or steam that is sold or transferred to another organization

Not applicable

Emissions attributable to the generation of electricity, heat or steam that is purchased for re-sale to non-end users	
Not applicable	
GHG emissions not covered by the Kyoto Protocol (e.g., CFCs, NOx,)	
Not applicable	
Information on the causes of emissions changes that did not trigger a base year emissions recalculation (e.g., process changes, efficiency improvements, plant closures)	
Not applicable	
GHG emissions data for all years between the base year and the reporting year (including details of and reasons for recalculations, if appropriate)	
Data on GHG emissions for all years between the base year and the reporting year is an attachment to the report.	
Relevant ratio performance indicators (e.g. emissions per kilowatt-hour generated, sales, etc.)	
Scopes 1+2 (location based) per Mg product:	MgCO <sub>2</sub> e/Mg
Scopes 1+2 (market based) per Mg product:	MgCO <sub>2</sub> e/Mg
Emisje GHG Zakres 1+2 (location based) na przychód:	34,108 MgCO <sub>2</sub> e/mln zł
Emisje GHG Zakres 1+2 (market based) na przychód:	27,622 MgCO <sub>2</sub> e/mln zł

An outline of any GHG management/reduction programs or strategies

Strategy of management and reduction targets is in the process of being prepared

ADDITIONAL INFORMATION

Information on any contractual provisions addressing GHG-related risks and obligations
In 2022, the enterprise reported GHG emissions to KOBiZE.
Information on the quality of the inventory (e.g., information on the causes and magnitude of uncertainties in emission estimates) and an outline of policies in place to improve inventory quality
The emissions were estimated on the basis of the collected accounting data - energy and fuel invoices. The emissions factors used were selected in accordance with the best knowledge of the persons preparing the report. They relate directly to domestic fuel emissions and the energy used.
Information on any GHG sequestration
Not applicable

INFORMATION ON OFFSETS

Information on offsets that have been purchased or developed outside the inventory boundary		
Quantity of GHGs (MgCO <sub>2</sub> e)	Type of offset project	Were the offsets verified/certified and/or approved by an external GHG program (np. CDM)
0	Not applicable	Not applicable

Information on reductions inside the inventory boundary that have been sold/transferred as offsets to a third party		
Quantity of GHGs (MgCO <sub>2</sub> e)	Type of offset project	Were the offsets verified/certified and/or approved by an external GHG program (np. CDM)
0	Not applicable	Not applicable