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VERARCA

Carbon emission report

MDS Stainless ApS

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Carbon emission report

MDS Stainless ApS

Total purchase count

4734

Total CO_2e emissions

1.489,32 t CO2e

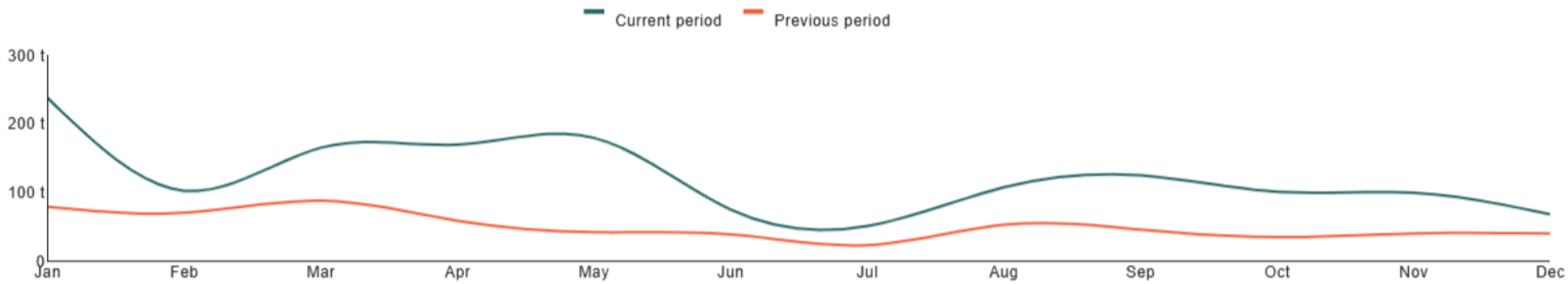
Emissions by scope

Scope 1	23,44 t	2%
Scope 2	25,47 t	2%
Scope 3	1.440,41 t	97%

Emissions by calculation method

Supplier-specific	19,12	0%
Average-data	43,24 t	3%
Spend-based	1.445,05 t	97%
Other	1,02 t	0%

Emissions over time



* The Scope 2 values are calculated using location-based electricity data. Please see the report for any market-based values.

Emissions by GHG category and Scope

GHG emissions	Unit	Previous period	Current period
Scope 1	t CO_2e	26,92	23,44
Company Facilities	t CO_2e	1,71	0,00
Company Vehicles	t CO_2e	25,21	23,44
Scope 2	t CO_2e	27,43	25,47
Purchased electricity Market Based	t CO_2e	0,00	0,00
Purchased electricity Location Based	t CO_2e	27,43	25,47
Steam, heating and cooling for own use	t CO_2e	0,00	0,00
Scope 3	t CO_2e	567,25	1.440,41
Purchased Goods and Services	t CO_2e	538,89	1.419,73
Capital Goods	t CO_2e	1,88	2,42
Fuel and Energy Related Activities		nr	nr
Upstream Transportation and Distribution	t CO_2e	4,31	1,18
Waste Generated in Operations	t CO_2e	2,40	0,01
Business Travel	t CO_2e	0,30	0,19
Employee Commuting		nc	nc
Upstream Leased Purchases	t CO_2e	19,45	16,87
Downstream Transportation and Distribution	t CO_2e	0,00	0,00
Processing of Sold Products		nc	nc
Use of Sold Products		nr	nr
End-of-Life Treatment of Sold Products		nr	nr
Downstream Leased Purchases		nr	nr
Franchises		nr	nr
Investments		nr	nr

nr = not relevant
nc = not calculated
* Totals under Scope 2 are calculated using location-based electricity data.

Scope 1 Scope 2 Scope 3

Emissions overview based on GHG categories

Purchased Goods and Services
95.33 %

Purchased electricity Location Based
1.71 %

Company Vehicles
1.57 %

Upstream Leased Purchases
1.13 %

Capital Goods
0.16 %

Upstream Transportation and Distribution
0.08 %

Business Travel
0.01 %

Waste Generated in Operations
0.00 %

Company Facilities
0 %

Purchased electricity Market Based
0 %

Steam, heating and cooling for own use
0 %

Fuel and Energy Related Activities
0 %

Employee Commuting
0 %

Downstream Transportation and Distribution
0 %

Processing of Sold Products
0 %

Use of Sold Products
0 %

End-of-Life Treatment of Sold Products
0 %

Downstream Leased Purchases
0 %

Franchises
0 %

Investments
0 %

* Due to rounding, the total percentages presented may not exactly sum to 100%.

Data source

Accounting system entries	Invoice / Files	Individual purchases	Different invoice suppliers	Accounting system accounts	Integrations	Distinctive emission factors
1443	1167	4734	156	38	1	108

Status	Purchase count	t CO_2e	% by emission	% by purchase amount
Total	4734	1.489,32	100.00	100.00
Verified	2646	1.286,05	86.35	55.89
defined	1982	179,10	12.03	41.87
undefined	106	24,17	1.62	2.24
Scope1	19	23,44	100.00	100.00
Verified	19	23,44	100.00	100.00
Scope2	6	25,47	100.00	100.00
Verified	6	25,47	100.00	100.00
Scope3	4709	1.440,41	100.00	100.00
Verified	2621	1.237,14	85.89	55.66
defined	1982	179,10	12.43	42.09
undefined	106	24,17	1.68	2.25

Verified - Emissions have been confirmed by human interaction **Defined** - Suitable emissions have been confirmed by AI

Undefined - No suitable emission factors have been found by AI. Generic emission factor based on average emissions is being used.

Emission characteristics

Top emission factor sources	Purchase count	t CO_2e	% by emission	% by purchase amount
EXIOBASE	3999	1.385,17	93.01	89.95
Verarca	280	36,50	2.45	6.30
Energinet	6	25,47	1.71	0.13
GLEC	14	22,11	1.48	0.31
Other	147	20,05	1.35	3.31

Top emission factor sectors	Purchase count	t CO_2e	% by emission	% by purchase amount
Materials and Manufacturing	2320	1.258,46	84.50	52.18
Equipment	504	61,35	4.12	11.34
organisational Activities	722	49,93	3.35	16.24
Energy	25	48,92	3.28	0.56
Other	875	70,64	4.74	19.68

Top emission factor categories

Category	Purchase count	t CO_2e	% by emission	% by purchase amount
Fabricated Metal Products	1450	751,41	50.45	32.61
Metals	667	476,93	32.02	15.00
Machinery	415	49,19	3.30	9.33
Organizational Activities	505	32,75	2.20	11.36
Electricity	6	25,47	1.71	0.13
Fuel	19	23,44	1.57	0.43
Generic	81	22,97	1.54	1.82
Mined Materials	59	17,29	1.16	1.33
Professional Services and Activities	213	17,06	1.15	4.79
Timber and Forestry Products	92	13,69	0.92	2.07
Vehicles	124	12,86	0.86	2.79
Equipment Rental	33	7,12	0.48	0.74
Building Materials	35	5,38	0.36	0.79
Ceramic Goods	7	4,22	0.28	0.16
Insurance Services	64	4,15	0.28	1.44
Construction	87	4,10	0.28	1.96
Electrical Equipment	42	4,07	0.27	0.94
Waste Management	31	3,20	0.21	0.70
Transport Services and Warehousing	47	2,94	0.20	1.06
Other	469	11,05	0.74	10.55

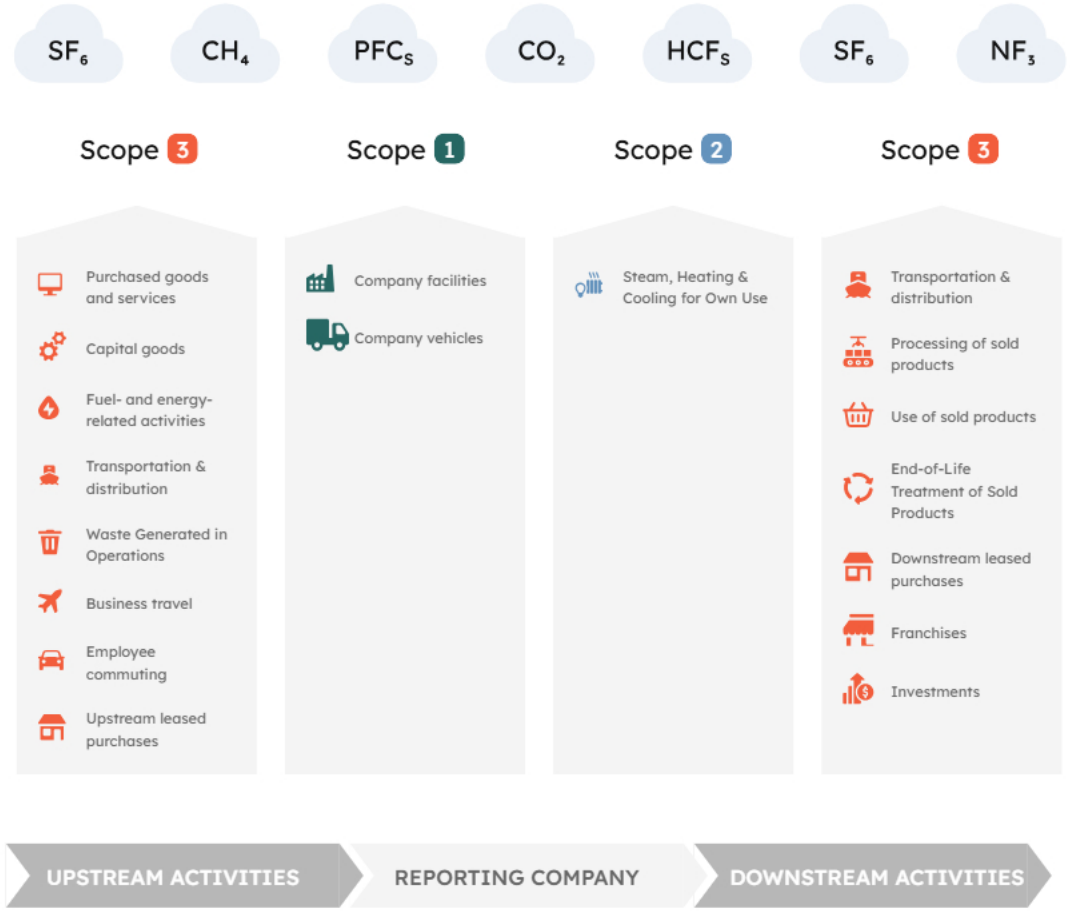
The Three Scopes

The GHG Protocol divides an organization's emissions into three main categories

Scope 1
covers emissions from sources that an organisation owns or controls directly - for example from burning fuel in company vehicles (if they're not electrically-powered).

Scope 2
represents indirect emissions from the production of purchased energy from a utility company. In other words, it includes all greenhouse gas emissions released into the atmosphere as a result of consuming purchased electricity, steam, heating, and cooling.

Scope 3
represents indirect emissions that occur within a company's value chain, including both upstream and downstream emissions. In other words, these emissions are associated with a company's operations. According to the GHG Protocol, scope 3 emissions are divided into 15 categories.



Worth knowing

CO_2e

CO_2e is a unit of measurement that makes it easier to compare the impact of different greenhouse gases. It indicates the amount of CO_2 that would have the same global warming effect as the particular greenhouse gas in question.

Total emissions

The total amount of greenhouse gas emissions, usually measured in units such as tons of CO_2e or kg CO_2e, represents the overall impact of climate change for an organization or business.

Calculation Method

There are several methods for calculating CO_2, including Supplier-specific, Average-data, and Spend-based methods. Verarca's system is designed to select the most accurate method based on the available data provided by the company.

Supplier-specific

This method is based on supplier-provided data, allowing for specific CO_2 footprint to be directly derived from the supplier's invoice or other documentation. In other words, the supplier has calculated the CO_2 footprint for a specific product, service, or offering.

Average-data

Is a calculation method that estimates emissions for goods and services by collecting data on quantity (e.g. kg, hours, liters or kWh) or other relevant units for purchased goods and services and multiplying it by relevant secondary emission factors. This method can be used when dealing with raw materials such as gasoline or electricity.

Spend-based

This method estimates emissions for goods and services by collecting data on the purchase price of acquired goods and services and multiplying it by relevant secondary (e.g. industry averages) emission factors. This calculation method is applicable in cases where neither Supplier-specific nor Average-data methods can be utilized.

The GHG Protocol

GHG Protocol establishes comprehensive global standardized frameworks to measure and manage greenhouse gas (GHG) emissions from private and public sector operations, value chains and mitigation actions. Building on a 20-year partnership between World Resources Institute (WRI) and the World Business Council for Sustainable Development (WBCSD), GHG Protocol works with governments, industry associations, NGOs, businesses and other organizations.

Why Verarca uses the GHG Protocol?

GHG Protocol supplies the world's most widely used greenhouse gas accounting standards. The Corporate Accounting and Reporting Standard provides the accounting platform for virtually every corporate GHG reporting program in the world.

Companies and Organizations

In 2016, 92% of Fortune 500 companies responding to the CDP used GHG Protocol directly or indirectly through a program based on GHG Protocol.

Countries and Cities

Through their commitment to the Compact of Mayors, hundreds of cities across the globe have committed to using the GHG Protocol for Cities. The GHG Protocol also work with partners in key countries to develop national GHG emissions programs based on the GHG Protocol.

The database

Our data in numbers:

48k+
emission calculations

300+
global regions

31
sources of data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