**Tekna Holding ASA** January 1—December 3

# **Carbon Accounting Report**

(part of Annual Report Tekna Group)

# one particle at a time... **WTEKNA**





Board of Directors' Report 2024 Financial Statements Auditors Report Corporate Governance Report Sustainability Report Appendix Contact Information

# Appendix V: Carbon accounting 2021-2024

Introduction

#### Contents

Introduction1	110
Noteworthy1	110
Restatements1	110
Climate footprint at a glance	111
Accounting principles1	112
Key figuresí	116

This report provides an overview of the organization's greenhouse gas (GHG) emissions, which is an integrated part of the organization's climate strategy.

Carbon accounting is a fundamental tool in identifying tangible measures to reduce GHG emissions. The annual carbon accounting report enables the organization to benchmark performance indicators and evaluate progress over time.

The input data is based on consumption data from internal and external sources, which are converted into tonnes CO2-equivalents (tCO2e). The carbon footprint analysis is based on the international standard; A Corporate Accounting and Reporting Standard, developed by the **Greenhouse Gas Protocol Initiative** (GHG Protocol). The GHG Protocol is the most widely used and recognised international standard for measuring greenhouse gas emissions and is the basis for the ISO standard 14064-I.

#### **External Assurances**

Internally the Audit Committee approves the Emissions Accounting report. This report was not externally assured on its publication date. Note that the CO2 metrics were internally audited.

## Noteworthy

Refer to footprint overview on the next page.

- 2030 Target to reduce scope 2 by 50% achieved!
- Tekna increased its production output by 68% compared to 2021 baseline, while only increasing scope 1 emissions by 3%, and even reducing scope 2 emissions by 67%
  - Energy intensity down 26% to 12.1 kWh/kg of powder<sup>1</sup> produced
- Closing production in France resulted in a shift away from Nuclear while increasing Hydro power.
  - Increased renewable energy percentage (+10pp)
  - Reduced scope 2 emissions significantly (-67%)
  - Total kWh increased by +32% as production in Canada increased
- Reduction in business travel (Cost-saving measure) has reduced related emissions (down 11%)<sup>2</sup>
- All material categories in scope 3 mapped (+4 additional baselines established)

## **Restatements**

2023 Scope 2 Electricity, France (Tekna Plasma Europe): Reduction of 10 000 kWh due to detected summation error (434.822 kWh should be 424.822 kWh). <u>Consequence:</u> Reduction of 0.5 tCO2e [former 22.7 tCO2e -restated 22.2 tCO2e].

Also updated in Scope 3 Fuel and Energy related activities. <u>Consequence:</u> Reduction of 0.2 tCO2e [former 10.3 tCO2e -restated 10.1 tCO2e].

2023 Scope 3.4 Upstream Transportation and Distribution: For those service providers that did not provide a CO2 report the impact is estimated based on type, distance and volume. In 2024 the estimation methodology was changed to the online transport emission calculator EcoTransit instead of calculating it with the distance-based formula of the GHG protocol. 2023 estimations were updated to this new methodology. <u>Consequence:</u> Reduction of 245 523.5 tCO2e [former 246 757.0 tCO2e -restated 1233.5 tCO2e].

2023 Scope 3.7 Employee Commute, global: Changed extrapolation methodology in 2024 and updated 2023 to this new methodology. <u>Conse-</u> <u>quence</u>: Increase of 23 tCO2e [former 205.6 tCO2e restated 228.6 tCO2e]

2022 Scope 3.3 Electricity Fuel- and Energy-Related Activities Not Included in Scope 1 or Scope 2, Canada (Tekna Microelectronics Corporation): Reduction of 74 580 kWh due to correction applied in Scope 2 results of 2022 for the 2023 report, which was not applied to this category. <u>Consequence</u>: Reduction of 2.6 tCO2e of [former 277.2 tCO2e – restated 274.6 tCO2e]

1: Ti64 and AlSiMg combined, compared to baseline 2019. 2: all numbers compare to baseline – see overview slide for year and figures.

 Contents	

Board of Directors' Report 2024

Financial Statements Auditors Report

Corporate Governance Report

Sustainability Report

Appendix Contact Information

# Appendix V: Carbon Accounting (continued)

# **Tekna's climate footprint**

# Energy Intensity per kg metal powder produced

Introduction

Performance vs baseline FY19

Direct electricity of plasma systems within Tekna | Ti64 and AlSiMg | in kWh per kg

FY19: <b>16.3</b> kWh/kg	baseline
FY23: <b>12.4</b> kWh/kg	<b>-24%</b> (vs FY19)
FY24: <b>12.1</b> kWh/kg	<b>-26%</b> (vs FY19)

Our capacity improvement program increases the productivity of the plasma atomization systems, ie higher output for the same energy. The Production output for Ti64 and AlSiMg powder has more than doubled since 2019.

# Renewable energy share

76 % vs 66% (+10 pp) in 2021 (Location based).

vs 577 (+3%) in 2021. Tekna has added a third facility in Canada in 2022 increasing natural gas consumption for heating com-**596** tCO2e pared to baseline 2021.

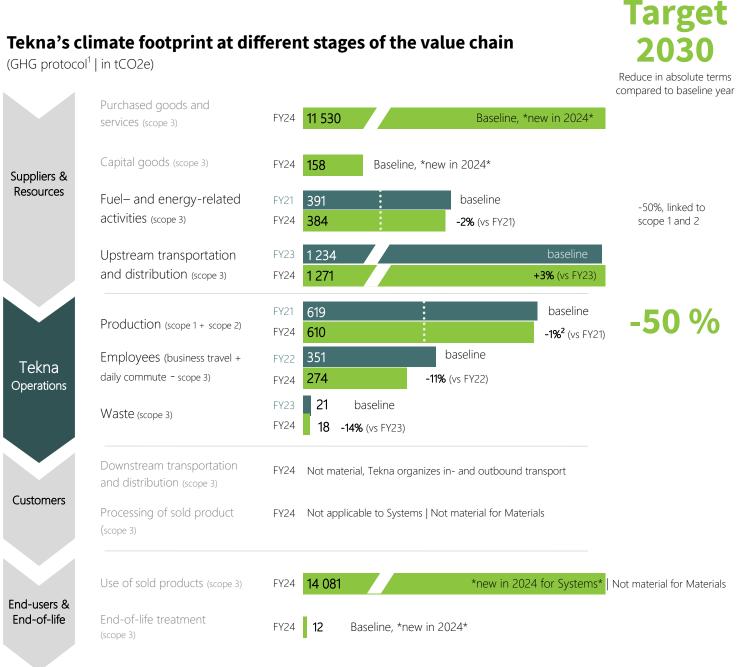
vs 42 (-67%) in 2021. Tekna continues to improve energy efficiency in its powder production<sup>2</sup>. By reducing production in France the **14** tCO2e consumption of nuclear electricity is reducing.

Scope 3 **27 730** tCO2e

Scope 1

Scope 2

This is the first year that we have a nearly complete estimation of the value-chain footprint. This creates a solid basis from which to focus our reduction effort.



ADDITIONAL INFORMATION

1 Historical data should not change, but we always revise historical figures if data quality or science has improved. 2: Tekna increased its production output by 68% compared to 2021 baseline, while only increasing scope 1 emissions by 3%, and even reducing scope 2 emissions by 67%.

ANNUAL REPORT 2024

Contents	Introduction	Board of Directors' Report 2024	Financial Statements Auditors Report	Corporate Governance Report	Sustainability Report	Appendix Contact Information

#### Appendix V: Carbon Accounting (continued)

#### Accounting principles

The input data is based on consumption data from internal and external sources, which are converted into tonnes CO<sub>2</sub>-equivalents (tCO<sub>2</sub>e). The carbon footprint analysis is based on the international standard; *A Corporate Accounting and Reporting Standard*, developed by the Greenhouse Gas Protocol Initiative (GHG Protocol). The GHG Protocol is the most widely used and recognised international standard for measuring greenhouse gas emissions and is the basis for the ISO standard 14064-I.

# Scope 1 and scope 2

Scope 1 includes all direct emission sources. This includes all use of fossil fuels for stationary combustion or transportation, in owned and, depending on the consolidation approach selected, leased, or rented assets.

Scope 2 includes indirect emissions related to purchased energy; electricity and heating/cooling where the organisation has operational control.

Baseline 2021 was chosen as it was the first year we collected data of our worldwide emissions instead of just Canada.

At Tekna, natural gas is only used for heating the buildings in Canada and Korea.

At the end of 2021 and throughout 2023 and 2024 Tekna has added Additive Manufacturing production equipment in Canada increasing electricity consumption. In France, it reduced operating hours in 2023 and then stopped producing in 2024 reducing electricity consumption in France.

Leased building emissions are included in scope 1

and 2. Lease car consumption is included in Scope 3 business travel.

Although we are working on replacing the refrigerants we consider the consumption non material for this report (~20lbs in TPS).

Tekna US office opened in October 2024. Tekna in

# Scope 1 and scope 2

Scope I and Scope Z	status	baseline	2030 commitment	ambition
Scope 1	included worldwide per entity	2021	-50% vs baseline	
Scope 2	included worldwide per entity	2021	-50% vs baseline	
Scope 3				
1: Purchased Goods and Services	Included for Canada and France	2024		-
2: Capital Goods	Included for Canada and France	2024		
3: Fuel- and Energy-Related Activi- ties Not Included in Scope 1 or Scope 2	Included upstream emissions of scope 1 and 2 consolidated per country	2021	50% (as scope 1 and 2)	carbon neutral
4: Upstream Transportation and Distribution	included consolidated worldwide	2023	TBC	Carbon neutrality is
5: Waste Generated in Operations	included for Canada and France	2023	TBC	achieved by reduc-
6: Business Travel	included consolidated worldwide	2022	TBC	ing our carbon footprint to zero
7: Employee Commuting	included consolidated worldwide	2022	TBC	through a combi-
8: Upstream Leased Assets	not relevant for Tekna			nation of efficiency measures in-house
9: Downstream Transportation and Distribution	not material for Tekna			and supporting external emission
10: Processing of Sold Products	not applicable to Systems, not material for Materials (at present)			reduction projects.
11: Use of Sold Products	included for Systems, not materi- al for Materials (at present)	2024	TBC	
12: End-of-Life Treatment of Sold Products	included for Systems and Materials	2024	TBC	
13: Downstream Leased Assets	not relevant for Tekna			
14: Franchises	not relevant for Tekna			
15: Investments	not relevant for Tekna			

South Korea moved offices in April 2024. Estimated TMC Q4, invoices not received.

2020

2050

# Scope 3

Scope 3 includes indirect emissions resulting from value chain activities. The scope 3 emissions are a result of the company's upstream and downstream activities, which are not controlled by the company, i.e. they are indirect.

For scope 3 the baseline year is chosen based on when we have worldwide data available for a category.

The scope 3 emissions compared to 2023 increased due to broader emissions mapping in scope 3 and improved data quality.

This report is now complete for material categories in scope 3.

The Greenhouse Gas Protocol considers 15 categories in scope 3 emissions. The table below includes an overview of the categories. Categories 8, 13, 14 and 15 are not relevant for Tekna and categories 9 and 10 are not material at present.

#### Scope 3 Upstream Purchased Goods and Services [1]

This category includes all upstream (i.e., cradle-togate) emissions from the production of products purchased acquired by the reporting company in the reporting year. Products include both goods (tangible products) and services (intangible products).

This category is based on Tekna's ERP system, which generates a report containing all supplier invoices for the given period. The total expenditure per supplier is then calculated. Tekna's procurement team manually assigns a category to each supplier based on their industry and primary business relationship

Contents	Introduction	Board of Directors' Report 2024	Financial Statements Auditors Report	Corporate Governance Report	Sustainability Report	Appendix Contact Information

#### Appendix V: Carbon Accounting (continued)

with Tekna. Categories include Employee Expenses, Capex, Feedstock, Warehousing & Transportation, Packaging, and Government-related costs (such as taxes and licenses). Utilities (gas, electricity) and metal feedstock are excluded from this process. The next step is to assess the percentage of spending for suppliers in the categorized, non-excluded group and continue categorizing until at least 70% of the total non-excluded spending is covered. Spending is then grouped by category, and the total for categorized non-excluded spend is summed up. Finally, the categorized percentage of each category is applied to the total non-excluded spend to extrapolate the total spend per category.

#### Capital Goods [2]

This category includes all upstream (i.e., cradle-togate) emissions from the production of capital goods purchased or acquired by the reporting company in the reporting year. Emissions from the use of capital goods by the reporting company are accounted for in either scope 1 (e.g., for fuel use) or scope 2 (e.g., for electricity use), rather than scope 3.

This category follows the same method as the one used for Scope 3 category 1: Purchased Good and Services. A report is pulled from Tekna's ERP systems, suppliers are summed and assigned a category.

#### Fuel and energy related activities Not Included in Scope 1 or Scope 2 [3]

This category includes emissions related to the production of fuels and energy purchased and consumed by the reporting company in the reporting year that are not included in scope 1 or scope 2. Includes exactly the same consumption data as reported in scope 1 and 2.

#### **Upstream Transport and Distribution [4]**

All transportation paid by the company, inbound and outbound, as well as if the customer is billed for the transport and in addition also inbound transportation not paid by the company (upstream).

This category was calculated based on transaction reports received from transportation and distribution companies Tekna has contracted in the past year. Most reports directly provided the estimated CO2 emissions. In 2024, we used the online transport emission calculator EcoTransit (https://www.ecotransit.org/fr/calculateur-demissions/) for all companies and transactions that did not provide the CO2 emissions (5/11 company reports). Inbound transportation not paid by Tekna is not material. See also restatements as 2023 was recalculated with this new methodology.

# Scope 3 @Tekna Waste Generated in Operations [5]

Includes emissions from third-party disposal and treatment of waste generated in the reporting company's owned or controlled operations in the reporting year. This category includes emissions from disposal of both solid waste and wastewater.

In 2022, we estimated how waste from Canada was treated after pick-up. In 2023, we have obtained clear data with significant shifts in volumes and emissions. We have therefore made 2023 the baseline for waste.

The increase in hazardous waste is due to new Health and Safety measures (single-use protective equipment) and R&D. The rest waste or municipal waste category for Canada or France does not exist in CEMASys as of yet. We have used the closest description to it, in essence "Residual waste, landfill". The emissions are expected to be in the same range.

Composition of hazardous waste: (flammable) metallic powder, rags, acids, coolants and non-chlorine solvents and single-use protective equipment from the nano sector.

Waste for manufacturing sites in Canada is based on facility managments' estimation. In France, the weight and emissions are provided by the service provider per category. Waste from sales offices is estimated using a calculator provided by Arendals Fossekompani (main shareholder) based on following sources: Avfall Sverige, Handbok för avfallsutrymmen (2018); Norsk Gjenvinning, Volum- og vektinformasjon (2015); Avfall Sverige, Volymvikter för avfall (2013)

Total waste reduced by 14% due to the stopped nickel production in France. Waste collected during the annual Sherbrooke industrial park cleaning included in Canada.

#### **Business Travel** [6]

Transportation of employees for business-related activities in vehicles owned or operated by third parties, such as aircraft, trains, buses, and passenger cars.

Employees were requested to complete a form per business trip, including km travelled by car (incl taxi) and train, flights (using ICAO Carbon Emissions Calculator ) and hotel nights. We created this form by using the ICAO tool and recommendations from Microsoft Sustainability Calculator.

In 2024, travel reduced considerably as cost-reduction measure.

#### Employee Commute [7]

Transportation of employees between their homes and their worksites during the reporting year (in vehicles not owned or operated by the reporting company).

Employees were requested to complete a form detailing how many days per week they are in the office on average and what their commute is like on average. Adjustments were made upon indication of employees around "significantly greener summer commutes" and carpooling. We obtained 104 answers out of 185 (56%), which we considered a sufficient bases to extrapolate to 100%. We created this form based on the recommendations of the Greenhouse Gas Protocol and Cemasys categories.

In 2024, the rule of 3 method was introduced for extrapolation as it is more accurate: y=(total number of employee at year-end\*x)/total employee answers.

See also restatements as 2023 was recalculated with this new methodology.

#### Scope 3 Downstream Transport and Distribution [9]

All outbound transportation not paid by the company. More specifically, emissions that occur from transportation and distribution of sold products in vehicles Contents

Introduction

Board of Directors' Report 2024 Fin A

Financial Statements Auditors Report Corporate Governance Report Sustainability Report Appendix Contact Information

#### Appendix V: Carbon Accounting (continued)

and facilities not owned or controlled by the reporting company.

It was found to be not material as we organise the incoming and outgoing transport.

#### Processing of Sold Products [10]

This category includes emissions from processing of sold intermediate products by third parties (e.g., manufacturers) subsequent to sale by the reporting company. Intermediate products are products that require further processing, transformation, or inclusion in another product before use, and therefore result in emissions from processing subsequent to sale by the reporting company and before use by the end consumer.

#### Systems: not relevant

Materials: Tekna has deemed the category immaterial at present. Tekna's products represent only a small proportion of the ultimate products sold and used both in weight and in functionality, so it is not significant to attribute to Tekna any scope 3 emissions of the ultimate use of the end sold product

#### Use of Sold Products [11]

This category includes emissions from the use of goods and services sold by the reporting company in the reporting year. A reporting company's scope 3 emissions from use of sold products include the scope 1 and scope 2 emissions of end users. End users include both consumers and business customers that use final products.

Systems: This category is based on assumptions

since Tekna does not collect how its customers use the sold systems. What is known: the number of systems sold, the purpose it was sold for, their power levels and their material composition. What is assumed: the annual operating conditions, including the annual usage, the electrical input, and the quantity of process gases used. As systems are sold across the globe, the emission factor for electricity for average Asia was chosen as a conservative choice.

Materials: Tekna has deemed the category immaterial at present. Tekna's products represent only a small proportion of the ultimate products sold and used both in weight and in functionality, so it is not significant to attribute to Tekna any scope 3 emissions of the ultimate use of the end sold product.

#### End-of-Life Treatment of Sold Products [12]

This category includes emissions from the waste disposal and treatment of products sold by the reporting company (in the reporting year) at the end of their life.

Systems: Tekna has a guide for customers detailing how a system's different materials should be disposed of. The data is then calculated by multiplying the system's various materials by the number of systems shipped during the reporting period.

Materials: The data comes from the total kilograms of powders sold in 2024.

# **Methodology CEMASYS**

(reporting system)

The Greenhouse Gas Protocol initiative (GHG Protocol) was developed by the World Resources Institute (WRI) and World Business Council for Sustainable Development (WBCSD). This analysis is done according to *A Corporate Accounting and Reporting Standard Revised edition*, currently one of four GHG Protocol accounting standards on calculating and reporting GHG emissions. The reporting considers the following greenhouse gases, all converted into  $CO_2$ equivalents:  $CO_2$ ,  $CH_4$  (methane),  $N_2O$  (laughing gas), SF<sub>6</sub>, HFCs, PFCs and NF3.

For corporate reporting, two distinct approaches can be used to consolidate GHG emissions: the equity share approach and the control approach. The most common consolidation approach is the control approach, which can be defined in either financial or operational terms.

The carbon inventory is divided into three main scopes of direct and indirect emissions.

**Scope 1** includes all direct emission sources. This includes all use of fossil fuels for stationary combustion or transportation, in owned and, depending on the consolidation approach selected, leased, or rented assets. It also includes any process emissions, from e.g. chemical processes, industrial gases, direct methane emissions etc.

**Scope 2** includes indirect emissions related to purchased energy; electricity and heating/cooling where the organisation has operational control. The electricity emission factors used in Cemasys are based on national gross electricity production mixes from the International Energy Agency's statistics (IEA Stat). Emission factors per fuel type are based on assumptions in the IEA methodological framework. Factors for district heating/cooling are either based on actual (local) production mixes, or average IEA statistics.

In January 2015, the GHG Protocol published new guidelines for calculating emissions from electricity consumption. Primarily two methods are used to "allocate" the GHG emissions created by electricity generation to the end consumers of a given grid. These are the location-based and the market-based methods. The location-based method reflects the average emission intensity of the grids on which energy consumption occurs, while the market-based method reflects emissions from electricity that companies have purposefully chosen (or not chosen).

Organizations who report on their GHG emissions will now have to disclose both the location-based emissions from the production of electricity, and the marked-based emissions related to the potential purchase of Guarantees of Origin (GoOs) and Renewable Energy Certificates (RECs).

The purpose of this amendment in the reporting methodology is on the one hand to show the impact of energy efficiency measures, and on the other hand to display how the acquisition of GoOs or RECs affect the GHG emissions. Using both methods in the



Introduction

Board of Directors' Report 2024 Final Au

Financial Statements Auditors Report Corporate Governance Report Sustainability Report Appendix Contact Information

#### Appendix V: Carbon Accounting (continued)

emission reporting highlights the effect of all measures regarding electricity consumption.

<u>The location-based method</u>: The location-based method is based on statistical emissions information and electricity output aggregated and averaged within a defined geographic boundary and during a defined time period. Within this boundary, the different energy producers utilize a mix of energy resources, where the use of fossil fuels (coal, oil, and gas) result in direct GHG-emissions. These emissions are reflected in the location-based emission factor.

The market-based method: The choice of emission factors when using this method is determined by whether the business acquires GoOs/RECs or not. When selling GoOs or RECs, the supplier certifies that the electricity is produced exclusively by renewable sources, which has an emission factor of 0 grams CO<sub>2</sub>e per kWh. However, for electricity without the GoO or REC, the emission factor is based on the remaining electricity production after all GoOs and RECs for renewable energy are sold. This is called a residual mix, which is normally substantially higher than the location-based factor. As an example, the market-based Norwegian residual mix factor is approximately 7 times higher than the locationbased Nordic mix factor. The reason for this high factor is due to Norway's large export of GoOs/RECs to foreign consumers. In a market perspective, this implies that Norwegian hydropower is largely substituted with an electricity mix including fossil fuels.

**Scope 3** includes indirect emissions resulting from value chain activities. The scope 3 emissions are a result of the company's upstream and downstream activities, which are not controlled by the company, i.e. they are indirect. Examples are business travel, goods transportation, waste handling, consumption of products etc.

In general, the carbon accounting should include information that users, both internal and external to the company, need for their decision making. An important aspect of relevance is the selection of an appropriate inventory boundary which reflects the substance and economic reality of the company's business relationships.

# Sources CEMASYS

(reporting system)

<u>Department for Business, Energy & Industrial Strate-</u> gy (2022). Government emission conversion factors for greenhouse gas company reporting (DEFRA)

IEA (2022). Emission Factors database, International Energy Agency (IEA), Paris.

IMO (2020). Reduction of GHG emissions from ships - Third IMO GHG Study 2014 (Final report). International Maritime Organisation, <u>http://www.iadc.org/</u> <u>wp-content/uploads/2014/02/MEPC-67-6-INF3-2014</u> <u>-Final-Report-complete.pdf</u>

IPCC (2014). IPCC fifth assessment report: Climate change 2013 (AR5 updated version November 2014). <u>http://www.ipcc.ch/report/ar5/</u>

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WBCSD/WRI (2004). The greenhouse gas protocol. A corporate accounting and reporting standard (revised edition). World Business Council on Sustainable Development (WBCSD), Geneva, Switzer-World Resource Institute (WRI), Washington DC, USA, 116 pp.

WBCSD/WRI (2011). Corporate value chain (Scope 3) accounting and reporting standard: Supplement to the GHG Protocol corporate accounting and reporting standard. World Business Council on Sustainable Development (WBCSD), Geneva, Switzerland /World Resource Institute (WRI), Washington DC, USA, 149 pp.

WBCSD/WRI (2015). GHG protocol Scope 2 guidance: An amendment to the GHG protocol corportate standard. World Business Council on Sustainable Development (WBCSD), Geneva, Switzerland /World Resource Institute (WRI), Washington DC, USA, 117 pp.

The reference list above is incomplete but contains the essential references used in CEMAsys. In addition, several local/national sources may be relevant, depending on which emission factors are used.

Contents	Introduction	Board of Directors' Report 2024	Financial Statements Auditors Report	Corporate Governance Report	Sustainability Report	Appendix Contact Information
Appendix V: Carbon Key figures	Accounting (continued)					

# **GHG Emissions—Summary**

Category	Unit	2021	2022	2023	2024	▲ to base year	▲ to 2023	Target	▲ to target
Total Scope 1	tCO2e	576.6	585.1	589.0	595.9	3%	1%	288	307.64
Total Scope 2	tCO2e	41.7	33.7	29.1	13.9	-67%	-52%	21	-6.99
Total Scope 3	tCO2e	434.3	752.8	1 981.2	27 730.3	n/a	n/a	n/a	
Total	tCO2e	1 052.7	1 371.6	2 599.2	28 340.1	n/a	n/a	n/a	

# Key figures GHG Emissions

	Category	Unit	2021	2022	2023	2024	▲ to base year	▲ to 2023
Scope 1							-	
	Stationary combustion							
	Natural gas	tCO2e	576.6	585.1	589.0	595.9		
	Stationary combustion Total	tCO2e	576.6	585.1	589.0	595.9	3%	1%
	Total Scope 1	tCO2e	576.6	585.1	589.0	595.9	3%	1%
	· · · · · · · · · · · · · · · · · · ·							
Scope 2								
	Electricity location-based							
	Electricity France	tCO2e	32.1	26.6	22.2	5.9	-82%	-73%
	Electricity China	tCO2e	5.0	1.9	1.5	1.2	-77%	-24%
	Electricity Korea	tCO2e	0.6	0.5	0.4	0.2	-71%	-62%
	Electricity USA	tCO2e	-	-	-	0.8	n/a	n/a
	Electricity location-based Total	tCO2e	37.6	29.0	24.1	8.0	-79%	-67%
	Electricity general							
	Hydropower, Quebec	tCO2e	4.1	4.7	4.9	5.8	42%	18%
	Electricity general Total	tCO2e	4.1	4.7	4.9	5.8	42%	18%
	Total Scope 2	tCO2e	41.7	33.7	29.1	13.9	-67%	-52%

Contents	Introduction	Board of Directors'Financial StatementsReport 2024Auditors Report	Corporate C Rep		S	Sustainability Report			o <b>pendix</b> ct Informatic
Appendix V: Carbon (continued)	n Accounting	Category	Unit	2021	2022	2023	2024	to base year	▲ to 2023
	Sco	ope 3							
		3.01 Purchased goods and services							
		Architectural and engineering services	tCO2e				9.1		
		Building, repair and maintenance	tCO2e				115.6		
		Business Support Services	tCO2e				20.0		
		Chemicals, general	tCO2e				425.2		
		Cloud & facility management services	tCO2e				38.3		
		Compressed gases	tCO2e				1 824.0		
		Computer-related hardware	tCO2e				40.9		
		Dry-cleaning and laundry	tCO2e				15.5		
		Electronic components	tCO2e				73.9		
		Electronic components	tCO2e				19.6		
		Facility services	tCO2e				35.8		
		Insurance and brokerage	tCO2e				7.1		
		Laboratory instruments	tCO2e				21.3		
		Legal services	tCO2e				37.8		
		Machine tool manufacturing	tCO2e				79.0		
		Machinery, equipment, and supplies	tCO2e				63.1		
		Machinery, repair and maintenance	tCO2e				82.0		
		Measuring and Controlling Devices	tCO2e				6.1		
		Mechanical power trans.equipment	tCO2e				7.1		
		Metal structural products	tCO2e				14.4		
		Other electrical equipment	tCO2e				20.9		
		Pipes and pipe fittings	tCO2e				141.3		
		Plastic products	tCO2e				108.1		
		Postal service	tCO2e				11.0		
		Pumps and pumping equipment	tCO2e				48.2		
		Screws, nuts, and bolts	tCO2e				60.1		
		Software	tCO2e				13.9		
		Technical consulting services	tCO2e				12.3		
		Telecommunications	tCO2e				3.8		
		Waste management	tCO2e				71.4		
		Advertising and PR	tCO2e				24.1		
		Aluminium	tCO2e				774.1		
		Titanium	tCO2e				7 304.9		
		Total 3 01 Purchased goods and services	tCO2e				11 530 0	2024 is has a ve	aar

Total 3.02 Capital goods	tCO2e	<b>158.0</b> 2024 is base yea	ır
 Office furniture	tCO2e	4.0	
Computer-related hardware	tCO2e	1.0	
Machinery, equipment, and supplies	tCO2e	145.2	
Building, repair and maintenance	tCO2e	7.8	
 3.02 Capital goods			
 Total 3.01 Purchased goods and services	tCO2e	11 530.0 2024 is base yea	ir
	tCO2e	7 304.9	

Contents	Introduction	Board of Directors' Report 2024	Financial Statements Auditors Report		Governance port		Sustainability Report			<b>pendix</b> ct Informatior
		·		-			nepere			
Appendix V: Carbon Ac	ccounting	Category		Unit	2021	2022	2023	2024	to base year	▲ to 2023
(continued)		3.03 Fuel-and-energy	-related activities							
		Natural gas (WTT)		tCO2e	98.0	98.9	96.5	97.2		
		Electricity Canada (upstream)		tCO2e	284.2	274.6	269.5	283.3		
		Electricity France (upstream)		tCO2e	7.1	8.3	10.1	2.5		
		Electricity China (upstream)		tCO2e	1.6	0.5	0.3	0.2		
		Electricity Korea (upstream)		tCO2e	0.2	0.1	0.1	0.0		
		Electricity USA (upstream)		tCO2e				0.2		
			nergy-related activities	tCO2e	391.2	382.4	376.8	383.6	-2%	29
		3.04 Upstream transportation and distribution								
		Truck avg. (WTW)		tCO2e			104.5	39.6		
		Air freight avg. (WTT)		tCO2e			89.7			
		Air transportation (WTW)		tCO2e			846.1	1 180.0		
		Rail freight		tCO2e			3.2			
		Sea ship avg. (WTW)		tCO2e			182.4	48.9		
		Transportation		tCO2e			7.6	2.6		
		Total 3.04 Upstream tr	tCO2e			1 233.5	1 271.0	3%	3%	
		3.05 Waste								
		Hazardous waste, landfill		tCO2e	0.3	0.2	0.4	0.0		-939
		Hazardous waste, treated		tCO2e	0.0	1.0	0.1	0.0		-639
		Hazardous waste, recycled		tCO2e	0.0	0.0	1.3	0.5		-62
		Hazardous waste, re-used		tCO2e		0.0	0.1	0.0		-81
		Paper waste, recycled		tCO2e	0.1	0.1		0.0		
		Cardboard waste, recycled		tCO2e	-	0.3	0.3	0.1		-74
		EE waste, recycled		tCO2e		0.0	0.0	0.0		-70
		Plastic waste, recycled		tCO2e	0.0	0.0	0.0	0.0		-89
		Metal waste, recycled		tCO2e		0.1	0.2	0.1		-51
		Wood waste, recycled		tCO2e	0.1	0.2	0.4	0.1		-81
		Glass waste, recycled		tCO2e				0.0		
		Mineral oil waste, incinerated (H)		tCO2e		2.5	1.5	2.5		67
		Organic waste, recycled		tCO2e				0.0		
		Organic waste, composting		tCO2e		0.0	0.0	0.0		-38
		Sorted waste, recycled		tCO2e		0.2	0.2	0.1		-66
		Residual waste, landfill		tCO2e	2.5	14.4	16.3	14.2		-13
		Residual waste, incinerated		tCO2e				0.2		
		Total 3.05 Waste		tCO2e	2.9	19.1	20.7	17.8	-14%	-149
		3.06 Business travel								
		Hotel nights, world		tCO2e	6.2	42.1	40.6	13.8	-67%	-669
		Train International		tCO2e	0.0	0.1	0.1	0.0	-74%	-67
		Mileage all. avg. car		tCO2e	11.3	21.4	16.1	9.7	-55%	-40
		Flights		tCO2e	22.8	51.7	64.9	41.3	-20%	-36
		Mileage all. el car EU27		tCO2e			0.2			
		Total 3.06 Business tra	avel	tCO2e	40.3	115.4	121.8	64.8	-44%	-479

ANNUAL REPORT 2024

Contents	Introduction	Board of Directors' Financial Statemer Report 2024 Auditors Report	corporate	Corporate Governance Report		Sustainability Report			<b>bendix</b> t Information
Appendix V: Carbon	Accounting	Category	Unit	2021	2022	2023	2024	▲ to base year	▲ to 2023
(continued)		3.07 Employee commuting							
		Car, petrol (avg.)	tCO2e		170.3	154.1	134.1	-21%	-13%
		Electric car EU27	tCO2e		6.5	10.1	15.3	134%	52%
		Motorbike, small	tCO2e			0.3	0.5		79%
		Bus local avg.	tCO2e		2.8	3.1	1.2	-58%	-62%
		Car, petrol (medium)	tCO2e		56.2	57.7	44.1	-22%	-24%
		Car, Hybrid Electric Vehicle (HEV)	tCO2e			3.4	13.9		314%
		Total 3.07 Employee commuting	tCO2e		235.8	228.6	209.0	-11%	-9%
		3.08 Upstream leased assets					incl. in 3.01	n/a	n/a
		3.09 Downstream transportation and Distributio	n	not mate				n/a	n/a
		3.10 Processing of sold products					omitted	n/a	n/a
		3.11 Use of sold products							
		Argon (liquid), Europe	tCO2e				3 029.9		
		Sodium hydrogen sulfite	tCO2e				9.2		
		Electricity Asia avg.	tCO2e			-	11 042.1		
		Total 3.11 Use of sold products	tCO2e			-	14 081.2	2024 is base yea	ar
		3.12 End-of-life treatment of sold products							
		Metal aluminium waste, recycled	tCO2e				0.3		
		Metal iron waste, recycled	tCO2e				-		
		Metal stainl steel waste, recycled	tCO2e				0.2		
		Metal copper waste, recycled	tCO2e				0.1		
		Metal waste, recycled	tCO2e				11.7		
		Wood waste, recycled	tCO2e				0.1		
		EE waste, recycled	tCO2e				-		
		Ceramic waste, recycled	tCO2e				-		
		Plastic PVC waste, recycled	tCO2e				-		
		Rubber waste, recycled	tCO2e				-		
		Plastic waste, recycled	tCO2e				-		
		Silicon waste, landfill	tCO2e				-		
		Plastic PE/PP waste, recycled	tCO2e tCO2e				-		
		Mineral oil waste, recycled (H) Total 3.12 End-of-life treatment of sold produc					12.4	2024 is base yea	ar
		3.13 Downstream leased assets				n	ot applicable	n/a	n/a
	<u> </u>								
		3.14 Franchises					ot applicable	n/a	n/a
		3.15 Investments				n	ot applicable	n/a	n/a
		Total Scope 3	tCO2e	434.3	752.8	1 981.2	27 730.3	n/a	n/a

Contents	Introduction	Board of Directors'Financial StatementsReport 2024Auditors Report	Corporate Governance Report		Sustainability Report			Appendix Contact Information	
Appendix V: Carbon A (continued)	ccounting	Category	Unit	2021	2022	2023	2024	▲ to base year	▲ to 2023
		Total Scope 3	tCO2e	434.3	752.8	1 981.2	27 730.3	n/a	n/a
		Total (Scope 1 + 2)	tCO2e	618.4	618.8	618.1	609.8	-1%	-1%
		Total (Scope 1 + 2 + 3)	tCO2e	1 052.7	1 371.6	2 599.2	28 340.1	n/a	n/a
		Annual Market-Based GHG Emissions							
		Electricity Total (Scope 2) with Market-based calculations	tCO2e	40.6	27.4	55.1	6.1		
=		Scope 2 Total with Market-based electricity calculations	tCO2e	44.7	32.1	60.0	11.9		
		Scope 1+2+3 Total with Market-based electricity calculations		1 055.6	1 370.0	2 630.2	28 338.1		

Contents	Introduction	Board of Directors'Financial StatementsReport 2024Auditors Report		Corporate Governance Report		Sustainability Report			Appendix Contact Informatio	
Appendix V: Carbon A (continued)	Accounting	Category		Unit	2021	2022	2023	2024	▲ to base year	▲ to 2023
	Sco	ope 1							-	
Key figures		Stationary combustion								
Energy		Natural gas		MWh	3 125.9	3 182.6	2 882.1	2 914.4		
		Stationary combustion Tota	al	MWh	3 125.9	3 182.6	2 882.1	2 914.4		
	_	Scope 1 Total		MWh	3 125.9	3 182.6	2 882.1	2 914.4	-7%	1%
	Sco	ope 2								
		Electricity								
		Electricity France		MWh	593.6	521.3	424.8	92.0		
		Electricity China		MWh	8.0	3.0	2.5	2.0		
		Electricity Korea Electricity USA		MWh MWh	1.1	1.1	1.0	0.4 2.2		
		Electricity Total		MWh	602.7	525.4	428.3	96.6		
		Electricity general								
		Hydropower, Quebec		MWh	6 832.6	7 800.1	8 242.9	9 739.1		
		Electricity general Total		MWh	6 832.6	7 800.1	8 242.9	9 739.1		
	_	Scope 2 Total		MWh	7 435.4	8 325.5	8 671.2	9 835.7	32%	13%
	TC	DTAL		MWh	10 561.2	11 508.1	11 553.2	12 750.1	21%	10%
				GJ	38 020.4	41 429.3	41 591.6	45 900.2		
	Pe	rcentage change			%	9%	0.4%	10.4%		
		Scope 1 renewable energy Scope 1 renewable energy sha	re	MWh %	- 0%	- 0%	- 0%	- 0%	-	-
		Scope 2 renewable energy (Lo	cation-based)	MWh	6 964.5	7 932.2	8 345.6	9 764.2		
		Scope 2 renewable energy sha		%	93.7%	95.3%	96.2%	99.3%	106%	103%
		Total renewable energy (L		MWh	6 964.5	7 932.2	8 345.6	9 764.2		
		Total renewable energy sh	are (Location-based)	%	65.9%	68.9%	72.2%	76.6%	111%	104%
		Scope 2 renewable energy (Ma	arket-based)	MWh	6 832.6	7 800.1	8 242.9	9 739.1		
		Scope 2 renewable energy sha		%	91.9%	93.7%	95.1%	99%	107%	104%
		Total renewable energy (M		MWh	6 832.6	7 800.1	8 242.9	9 739.1		
		Total renewable energy sh	are (Market-based)	%	64.7%	67.8%	71.3%	76.4%	112%	105%

Contents	Introduction	Board of Directors' Report 2024	Financial Statements Auditors Report		te Governance Report		Sustainability Report			<b>pendix</b> ct Information
Appendix V: Carbon Act	counting	Category		Unit	2021	2022	2023	2024	▲ to base year	▲ to 2023
(continued)	Sc	ope 1								
Key figures		Stationary combustion	ו							
Energy Consump	ption	Natural gas	·	m3	283 396.0	288 018.0	286 774.0	288 840.7	2%	1%
	Sc	ope 2								
		Electricity								
		Electricity France		kWh	593 646.0	521 288.0	424 822.0	91 987.0	-85%	-78%
		Electricity China		kWh	7 950.0	3 033.6	2 470.0	1 955.0	-75%	-21%
		Electricity Korea		kWh	1 132.0	1 110.7	981.0	395.0	-65%	-60%
		Electricity USA		kWh				2 241.0		
		Electricity general								
		Hydropower, Quebec		kWh	6832 642.0	7800 094.0	8242 881.0	9739 073.0	43%	18%
	Sc	cope 3								
		3.01 Purchased goods								
		Architectural and engineering s		CAD						
		Building, repair and maintenand	re	CAD						
		Business Support Services		CAD						
		Chemicals, general		CAD						
		Cloud & facility management se	rvices	CAD						
		Compressed gases		CAD						
		Computer-related hardware		CAD						
		Dry-cleaning and laundry		CAD						
		Electronic components		CAD						
		Electronic components		CAD			S	Spend based		
		Facility services		CAD				estimation		
		Insurance and brokerage		CAD				started in		
		Laboratory instruments		CAD CAD				2024, detail		
		Legal services						spend in		
		Machine tool manufacturing	plice	CAD				CAD not		
		Machinery, equipment, and sup Machinery, repair and maintena		CAD CAD				disclosed.		
		Measuring and Controlling Devi Mechanical power trans equipp		CAD CAD						
		Mechanical power trans.equipn Metal structural products		CAD						
		Other electrical equipment		CAD						
		Pipes and pipe fittings		CAD						
		Plastic products		CAD						
		Postal service		CAD						
		Pumps and pumping equipment	at	CAD						
		Screws, nuts, and bolts		CAD						
ADDITIONAL INFORMATION				0.0		ANNUAL REPO	RT 2024			(NA   122

Contents	Introduction	tion Board of Directors' Financial Statements Report 2024 Auditors Report		Corporate Governance Report		Sustainability Report			Appendix Contact Informatior		
Appendix V: Carbon A	ccounting	Category		Unit	2021	2022	2023	2024	to base year	▲ to 2023	
(continued)		Software		CAD							
		Technical consulting services		CAD							
		Telecommunications		CAD							
		Waste management		CAD				C 11 1			
		Advertising and PR		CAD				Spend based			
		Aluminium		kg				estimation			
		Titanium		kg				started in 2024, detail			
		3.02 Capital goods						spend in CAD not			
		Building, repair and maintenance		CAD				disclosed.			
		Machinery, equipment, and supplies		CAD				uisciusea.			
		Computer-related hardware		CAD							
		Office furniture		CAD							
		3.03 Fuel-and-energy-rela	ated activities								
		Natural gas (WTT)		m3	283 396.0	288 018.0	286 774.0	288 841.0			
		Electricity Canada (upstream)		kWh	6832 642.0	7800 094.0	8242 881.0	9739 073.0			
		Electricity France (upstream)		kWh	593 646.0	521 288.0	424 822.0	91 987.0			
		Electricity China (upstream)		kWh	7 950.0	3 033.6	2 470.0	1 956.0			
		Electricity Korea (upstream)		kWh	1 132.0	1 110.7	981.0	395.0			
		Electricity USA (upstream)		kWh				2 241.0			
		3.04 Upstream transportat	ion and distribution								
		Truck avg. (WTW)		tkm			81.9				
		Truck avg. (WTW)		tCO2e			104.5	39.6			
		Air freight avg. (WTT)		tkm			294 168.2				
		Air transportation (WTW)		tCO2e			846.1	1 180.0			
		Rail freight		tCO2e			3.2				
		Sea ship avg. (WTW)		tkm			16 112.5				
		Sea ship avg. (WTW)		tCO2e			182.1	48.9			
		Transportation		tCO2e			7.6	2.6			
		3.05 Waste									
		Hazardous waste, landfill		kg	12 976.0	11 457.0	17 586.0	4 135.0	-64%		
		Hazardous waste, treated		kg	1 636.0	46 441.0	3 735.0	4 590.0	-90%		
		Hazardous waste, recycled		kg	364.0	240.0	61 009.0	76 869.0	31929%		
		Hazardous waste, re-used		kg		948.0	2 882.0	1 854.0	96%		
		Paper waste, recycled		m3	16.0	18.0					
		Paper waste, recycled		kg				431.0			
		Cardboard waste, recycled		kg	-	13 207.0	16 414.6	14 078.0	7%		
		EE waste, recycled		m3		2.0	2.0	2.0			
		Plastic waste, recycled		m3	5.0	9.0					
		Plastic waste, recycled		kg			775.5	277.0			
		Metal waste, recycled		kg		6 563.0	7 197.0	11 666.0	78%		
		-							ATEK	~	

Contents	Introduction	Board of Directors' Report 2024	Financial Statements Auditors Report		e Governance Report		Sustainability Report			ppendix ct Information
Appendix V: Carbon	Accounting	Category		Unit	2021	2022	2023	2024	▲ to base year	▲ to 2023
(continued)		Wood waste, recycled		kg	2 400.0	11 500.0	19 600.0	12 320.0	7%	-37%
		Mineral oil waste, incinerated (H)		liters		1 000.0	600.0	1 000.0	0%	67%
		Glass waste, recycled		kg				11.0		
		Organic waste, recycled		kg				276.0		
		Organic waste, composting		kg		1 139.0	2 254.0	1 424.0	25%	-37%
		Sorted waste, recycled		kg		7 200.0	7 200.0	8 098.0	12%	12%
		Residual waste, incinerated		kg				414.0		
		Residual waste, landfill		m3	22.0	14.5				
		Residual waste, landfill		kg		28 620.0	32 738.4	28 620.0	0%	-13%
		3.06 Business travel								
		Hotel nights, world		nights	137.0	1 067.0	1 025.0	348.0	-67%	-66%
		Train International		pkm	3 035.0	29 886.0	23 829.0	7 752.0	-74%	-67%
		Mileage all. avg. car		km	67 103.0	125 445.0	96 339.0	57 838.0	-54%	-40%
		Flights		tCO2e	22.8	51.7	64.9	41.3	-20%	-36%
		Mileage all. el car EU27		km			3 381.0			
		3.07 Employee commuting								
		Car, petrol (avg.)		km		998 903.0	940 160.0	815 289.0	-18%	-13%
		Electric car EU27		km		171 880.0	226 749.0	322 879.0	88%	42%
		Motorbike, small		km			3 337.0	5 977.0		79%
		Bus local avg.		pkm		28 790.0	29 904.0	10 803.0	-62%	-64%
		Car, petrol (medium)		km		304 423.0	323 795.0	248 537.0	-18%	-23%
		Car, Hybrid Electric Vehicle (HEV)		km			28 471.0	110 175.0		287%
		3.11 Use of sold products								
		Argon (liquid), Europe		kg				2504 010.0		
		Sodium hydrogen sulfite		kg				10 398.0		
		Electricity Asia avg.		kWh			-	16980 000.0		
		3.12 End-of-life treatment of	of sold products							
		Metal waste, recycled		kg				240 163.2		
		Metal waste, recycled		m3				12 854.0		
		Wood waste, recycled		kg				13 646.8		
		EE waste, recycled		kg				1 131.4		
		Ceramic waste, recycled		kg				337.3		
		Plastic PVC waste, recycled		kg				83.2		
		Rubber waste, recycled		kg				117.4		
		Plastic waste, recycled		kg				2 203.6		
		Silicon waste, landfill		kg				136.4		
		Plastic PE/PP waste, recycled		kg				24.1		
		Mineral oil waste, recycled (H)		kg				88.6		

Contents	Introduction	Board of Directors' Report 2024	Financial Statements Auditors Report	Corporate Governance Report	Sustainability Report	Appendix Contact Information
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