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Ir	ndex	Tekna Hold	ing ASA						
	mate footprint at a glanc	00	December 31		nc	Acco	ount	inc	
	Restatements	93		55I (HLLL	Jun		
	External assurances Non GHG air emissions								
	Organisation chart								1
De	carbonization	94	Rep	DIT	(part of Appual	Bonort Tokna			
Ca	rbon Emissions	95			(part of Annua	Report Tekna C	soup)		
	Scope 1 and Scope 2								
Ko	Scope 3	96	Carbon an	d non-Gl	HG)				
Key	y figures GHG emissions	98							a state
	Energy								
	Energy consumption						and the second		and the second
Me	thodology	104				-	A MARKED		
	Sources								and the second second
	Abbreviations	106							



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Tekna's climate footprint at a glance

1 emissions by 2%, and even reducing scope 2 emissions by 29%.

Performance vs baseline FY19	r kg metal powder produced) within Tekna Ti64 and AlSiMg in kWh per kg	Tekna's cl (GHG protoco	Target 2030				
FY19: 16.3 kWh/kg	baseline		Purchased goods and services (scope 3)		Baseline estimations for upstream emissions (scope 3)		Reduce in absolute terms compared to baseline year
FY22: 13.1 kWh/kg	-20 % (vs FY19)		Capital goods (scope 3)		expected in 2024.		
FY23: 12.4 kWh/kg	-24 % (vs FY19)	Suppliers & Resources	Fuel— and energy-related activities (scope 3)	FY21 391 FY23 377	baseline -4% (vs FY21)		-50%, linked to scope 1 and 2
Our capacity improvement program increases the productivity of the plasma atomization systems, ie higher output for the same energy.			Upstream transportation and distribution (scope 3)	FY23 246 757 *n		*new in 2023*	under development
Renewable energy share			Production (scope 1 + scope 2)	FY21 619 FY23 619		baseline 0%² (vs FY21)	-50 %
70	vs 66% (+6 pp) in 2021 (Location based).	Tekna Operations	Employees (business travel + daily commute - scope 3)	FY22 351 FY23 328	baseline -7% (vs FY22)		under development
	vs 577 (+2%) in 2021. Tekna has added a third facility in Canada in 2022 increasing		Waste (scope 3)	FY22 19 FY23 21	*new in 2022 baseline		under development
E00	natural gas consumption for heating com- pared to baseline 2021.		Downstream transportation and distribution (scope 3)				
	vs 42 (-29%) in 2021. Tekna continues to improve energy efficiency in its powder production ² . It reduced operating hours in France by 50% reducing electricity consumption.	Customers	Processing of sold product (scope 3)	da	Baseline estimations for ownstream emissions (scope 3 expected in 2025.)	
	The total emissions number will continue to increase due to broader emissions mapping in scope 3 and improved data quality. Within subcategories reduction efforts have started.	End-users & End-of-life	Use of sold products (scope 3) End-of-life treatment (scope 3)		expected in 2023.		
SUSTAINABILITY STATEMENTS	1: Historical data should not change, but we always revise historica improved. 2: Tekna increased its production output by 32% since 2			OUNTING REPORT	7 2023 - ANNUAL REPORT 2023	1	

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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.

s report comprises the following organisational	Comment	Staff in 202
Tekna Holding ASA [THASA], Norway	holding, no staff	0
Tekna Holding Canada Inc [THC], Canada	holding, no staff	0
Tekna Plasma Systems Inc [TPS], Canada, HQ	operational headquarter, system production	133
Tekna Advanced Materials Inc [TAM], Canada	powder production	53
Tekna Microelectronics Unit [TMC], Canada	activity started end of 2021	0
Tekna Plasma Europe SAS [TPE], France	powder production, European sales office	31
Tekna Plasma Suzhou Co Ltd [TPZ], China	sales office, office move in Q1 2022	4
Tekna Plasma Korea Co Ltd [TPK], Korea	sales office, office move in Q1 2022	1
Tekna Inc [TCU], USA	no staff, activity started end of 2022	0

Only when specifically mentioned:

Imphytek Powders SAS [Imphytek], France, JV

JV, activity started in 2020

1

Restatements

Sustainability

Reporting

In 2022, for a leased building in Canada, Tekna (TMC) was incorrectly allocated an electricity meter. The consumption of ~75.000 kWh has been deducted from the energy consumption reported in 2022. No material impact on emissions as it concerns hydropower.

For 2022, the treatment of hazardous waste in Canada was reclassified due to new information. This has also not lead to a change in total emissions in the category.

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 in scope 1 and scope 2 were assured for our main shareholder Arendals Fossekompani ASA ("AFK"). Tekna aims to implement assurance for its next reporting period.

In	dex	Introduc	ction (continued)		Decarboni	ization			
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Non GHG air emissions

Tekna's standard process does not produce a significant amount of any of the common air pollutants, which includes NOx, SOx, volatile organic compounds (VOCs), hazardous air pollutants (HAPs), particulate matter (PM10), and persistent organic pollutants (POPs). We do not consider Non GHG air emissions to be a material topic for Tekna, but will report when we do emit air pollutants. As part of a nonstandard system test for a client, argon and air were combined in a research plasma system and produced an estimated 250g/h of NOx, for a total of 3750g.

Scope 1 emissions have been stable since baseline year 2021. The source of emissions is the natural gas heating system in the Canadian facilities. We are looking to solidify the decision for the best alternative with lower emissions, which we plan to budget for before 2030.

Scope 2 emissions are down by 29%. We are approaching scope 2 in the two obvious ways, ie a) by moving consumption to renewable energy sources, and b) reducing consumption. The renewable energy share (a) is up by 6 percentage points since 2021 baseline (2023: 72%).

In reduction (b) we are focusing on increasing the productivity of our powder production. Compared to 2019 we have reduced by 24% the kWh required to produce 1 kg of powder (2023: 12.4 kWh/kg).

By the partial emissions information we have gathered for scope 3 up to 2023, it is clear that this is where the most significant emissions are. Tekna has yet to communicate reduction targets for the scope 3 categories. Nonetheless, as you can read in the Carbon Emission section of this report, we have started taking actions to reduce those emissions.

Replacing single-use packaging

Additive manufacturing ("AM") materials are typically transported in single-use packaging, with aluminum powder being shipped in 5kg plastic drums and titanium powder in metallic bottles of 2.5kg each. Unfortunately, once they have been used, the single-use packaging are left with small quantities of residual metal powder making them not easily reusable nor recyclable.

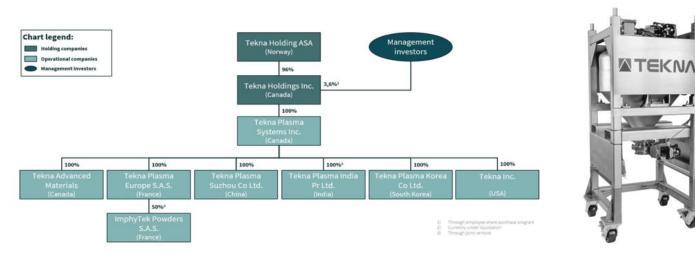
As the volumes of AM materials are increasing, the business case for returning the powder to Tekna for reconditioning will become stronger.

In order to reduce single-use packaging, Tekna has developed a Universal and Reusable CONTAINER for Additive Materials together with industry partners (see image). One container replaces 25 single-use plastic drums or 80 metallic bottles.

The key benefits of this solution:

- Enabling resource efficiency, circularity and GHG reduction: the sturdy containers can be reused "indefinitely" and will be used to deliver pristine powder to the customer and the customer can return degraded material back to Tekna
- Eliminating the use of single-use packaging and disposal activities

Organization chart per 31.12.2023



Index		Decarbo	Decarbonization (continued)			Carbon Emissions			
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Climate footprint at a glance..92

• Allowing for safer handling both during transportation and at the point of use. This means 1) reducing the risk of exposure to powder, 2) since the container has wheels, eliminating the risk of drops and lifting related injuries, and 3) based on the plug-andplay nature of the container solution, increasing user -friendliness and reducing the risk of handling mistakes

• Increasing efficiency as more material is loaded to the machine per packaging unit

The container is ready to be put into operation. Given Tekna's projected volumes, the company will avoid ~1 Million tCO2e over the next 5-years in the category Purchased goods & services (upstream) and the category Use of sold products (downstream as single-use waste)

Reducing logistics emissions

In 2023, we completed the assessment of the category Upstream transportation and distribution and with 246.7k tCO2e it is substantially higher than any of our other categories. Initial meetings have taken place with the logistics team to identify which part we can influence and reduction opportunities worth pursuing.

High level thoughts:

- Reduce air transport in favor of boat or train
- Divert transport to carriers with a "green" fleet
- Consolidate shipments
- Improve packaging to reduce shipping "air"

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 Tekna has added Additive Manufacturing production equipment in Canada increasing electricity consumption. It reduced operating hours in TPE by 50% 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).

Actions taken in 2023:

- Optimization of temperature in the offices.
- Firming up decarbonization plan

Scope 1 and scope 2	status	baseline	2030 commitment	2050 ambition
Scope 1	included worldwide per entity	2021	-50% vs baseline	carbon
Scope 2	included worldwide per entity	2021	-50% vs baseline	neutral ¹

1 Carbon neutrality is achieved by reducing our carbon footprint to zero through a combination of efficiency measures in-house and supporting external emission reduction projects.

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h	ndex	Carbon	Emissions (continue	ed)						
	Introduction		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.			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.				Distribution [4] the company, inbound and customer is billed for the lso inbound transportation stream).
Ca	Non GHG air emissions Organisation chart ecarbonization arbon Emissions Scope 1 and Scope 2 Scope 3 ey figures GHG emissions	For scope we have w 94 The scope to broadel data qualit 95 This repor 96 up-and do egories wh included.	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 2022 increased due to broader emissions mapping in scope 3 and improved data quality. This report is incomplete in scope 3. Multiple categories up-and downstream have still to be assessed. Only cat- egories which we can substantiate with data have been			stream related activities Not ope 2 [3] des emissions related to ergy purchased and cons in the reporting year or scope 2. e same consumption data	the produc- sumed by the that are not	This category was calculated based on transaction re- ports received from transportation and distribution companies Tekna has contracted in the past year. Most reports directly provided the estimated CO2 emissions. The reports from two service providers only included departure and arrival location and cargo mass. There- fore those emissions were calculated via cemasys by using the tkm unit (cargo mass * distance in km). The distances were estimated based on information provid-		
	Energy Energy consumption	102 1: Purcha 2 [:] Capita	ategories in GHG prot sed Goods and Services I Goods	cocol:	status In progress, to be a In progress, to be a		Ł	oaseline	2030 commitment	2050 ambition
Me	Methodology104 Sources105 Abbreviations106		 3: Fuel- and Energy-Related Activities Not Included in Scope 1 or Scope 2 4: Upstream Transportation and Distribution 5: Waste Generated in Operations 6: Business Travel 7: Employee Commuting 8: Upstream Leased Assets 9: Downstream Transportation and Distribution 			emissions of scope 1 a ted worldwide a and France ted worldwide ted worldwide	and 2 consoli-	2021 2023 *new* 2023 2022 2022	50% (as scope 1 and 2 TBC TBC TBC TBC TBC	2) carbon neutral
		10: Proce	essing of Sold Products f Sold Products		planned for 2024 planned for 2024					

planned for 2024

not relevant for Tekna

not relevant for Tekna

not relevant for Tekna

12: End-of-Life Treatment of Sold Products

13: Downstream Leased Assets

14: Franchises

15: Investments

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In	ndex	Carbon	e Emissions (continue	ed)					
	mate footprint at a glance roduction Restatements External assurances Non GHG air emissions	93 included. 93 Actions t 93 • Globa	 ed. Inbound transportation not paid by Tekna is not yet ncluded. Actions taken in 2023: Global data collection and consolidation to establish the baseline of emissions 		obtained and corre Manufacturing sites included.	ail of how it is being pr cted for 2022 and 2023. s only, waste from sales ring the annual Sherbroo ded in Canada.	• offices is not oke industrial Er	for Asia Pacific to Japan nployee Commute [7]	
Dec	Organisation chart carbonization	94 • Sched	duled first meeting with log ng a reduction plan	gistics team to start	Actions taken in 20	23:	the		eporting year (in vehicles not
Кеу	rbon Emissions Scope 1 and Scope 2 Scope 3 / figures GHG emissions Energy Energy consumption thodology Sources Abbreviations	95 Scope 96 Waste G Includes ment of owned of owned of 101 This cate solid was 102 In 2022, treated a 106 data with have the The increase and R&E for Cana yet. We	e 3 @Tekna Senerated in Operation emissions from third-part waste generated in the or controlled operations in egory includes emissions fi te and wastewater. we estimated how wast after pick-up. In 2023, we is significant shifts in volum refore made 2023 the base ease in hazardous waste i ety measures (single-use p D. The rest waste or mun da or France does not ex have used the closest de tesidual waste, landfill". Th	y disposal and treat- reporting company's in the reporting year. from disposal of both the from Canada was have obtained clear es and emissions. We eline for waste. s due to new Health protective equipment) icipal waste category tist in CEMASys as of scription to it, in es-	 disposed of via Residual waste H vidual offices to to improve corr Improved comm Annual spring c brooke (CA) by included in scop not a direct emi Business Travel Transportation of e ties in vehicles own as aircraft, trains, based of 6%	pins have been removed encourage central collect ect separation. nunication of what to rec leaning of the industrial p employees. The waste co be 3 of Tekna, even thous ssion by Tekna.	from indi- trion points ycle where. bark in Sher- pollected is gh this was elated activi- parties, such for the substance of	Ind hybrid cars has increated hybrid cars has increated its entry and the provided for free at its Canact and the provided for the provided fo	to complete a form detailing hey are in the office on aver- ute is like on average. Adjust- dication of employees around ner commutes" and carpool- vers out of 221 (68%), which bases to extrapolate to 100%. d on the recommendations of col and Cemasys categories.
		pected to Composi powder,	esidual waste, landfill . If b be in the same range. ition of hazardous waste: rags, acids, coolants and l gle-use protective equipn	(flammable) metallic non-chlorine solvents	business trip, incluc train, flights (using and hotel nights.	requested to complete ling km travelled by car (ICAO Carbon Emissions We created this form k commendations from M	incl taxi) and Calculator) by using the		

tainability Calculator.

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In	ndex	Key fi	gures missions						•		
Clir	mate footprint at a glance		1115510115		Unit	2019	2020	2021	2022	2023	▲ to base year
Intr	roduction	93 Summary	1		+6020	452.4	474.1	576.6	E0E 1	580.0	2%
		Total Scope			tCO2e tCO2e	453,4 4,1	474,1 3,5	576,6 41,7	585,1 33,7	589,0 29,6	-29%
	Restatements	Total Scope			tCO2e	-,1	135,7	434,3	755,4	247 482,0	n/a
	External assurances	93 Total	-		tCO2e	457,5	613,3	1 052,7	1 374,2	248 100,5	n/a
	Non GHG air emissions	94									
	Organisation chart	94									
Dec	carbonization			Category	Unit	2019	2020	2021	2022	2023	▲ to base year
Car	rbon Emissions	Scope 1									
Car				Stationary combustion Natural gas	tCO2e	453,4	474,1	576,6	585,1	589,0	
	Scope 1 and Scope 2	95		Stationary combustion T		453,4	474,1	576,6	585,1	589,0	2%
	Scope 3	96		stationally compastion i		455,4		570,0	505,1	505,0	270
Кеу	/ figures			Scope 1 Total	tCO2e	453,4	474,1	576,6	585,1	589,0	2%
	GHG emissions	98									
	Energy	101 Scope 2									
	Energy consumption			Electricity location-based	d						
Mo	thodology	10.4		Electricity France	tCO2e			32,1	26,6	22,7	
IVIE	0,			Electricity China	tCO2e	-	-	5,0	1,9	1,5	
	Sources	105		Electricity Korea	tCO2e	-	-	0,6	0,5	0,4	
	Abbreviations	106		Electricity location-based	d Total tCO2e	-	12	37,6	29,0	24,7	-34%
				Electricity general							-
				Hydropower, Quebec	tCO2e	4,1	3,5	4,1	4,7	4,9	-
				Electricity general Total	tCO2e	4,1	3,5	4,1	4,7	4,9	20%
				Scope 2 Total	tCO2e	4,1	3,5	41,7	33,7	29,6	-29%
4											

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Ir	ndex		gures (continued) Emissions								
Clir	mate footprint at a glanc	e92		Category	Unit	2019	2020	2021	2022	2023	
Int	roduction	Scope 3									
IIIU				Fuel-and-energy-relat				08.0	00.0	06.5	
	Restatements	93		Natural gas (WTT)	tCO2e	-	-	98,0		96,5	
	External assurances	93		Electricity Canada (up Electricity France (ups		-	135,7	284,2		269,5 10,3	
				Electricity China (upst		-		7,1 1,6		0,3	
	Non GHG air emissions	94		Electricity Korea (upst		-	12	0,2		0,1	
	Organisation chart	94		Fuel-and-energy-relat		-	135,7	391,2		376,8	-4%
De	carbonization	94									
				Upstream transporta							
Ca	rbon Emissions	95		Sea Cargo Avg load	tCO2e	-	-	-	-		
	Scope 1 and Scope 2	95		Truck avg.	tCO2e	-	-	-	-	36,1	
				Air freight avg. (WTT)		-		1 ⁷	100 C	67 541,1	
	Scope 3	96		Rail freight	tCO2e tCO2e	-			4 5 .0	3,2	
Key	y figures			Sea ship avg. (WTT) Transportation	tCO2e	-	-	-	-	179 169,0 7,6	
,				SCOPE3_UPSTREAM_		-	-		-	246 757,0	n/a
	GHG emissions	98		SCOPES_OFSTREAM_	TRANSPORT, ICOZE			-	-	240737,0	n/a
	Energy	101		Waste							
	Energy consumption	102		Hazardous waste, rec	cycled tCO2e	8 7 9.	(.)	-	(-)	1,3	
				Hazardous waste, re-	used tCO2e	-	-	-	-	-	
Me	ethodology	104		Hazardous waste, trea	ated tCO2e	-	-	-	1,0	0,1	
	Sources	105		Hazardous waste, lan		-	-	0,3	0,2	0,4	
				Residual waste, landf		2	6.22	2,5	14,4	16,3	
	Abbreviations	106		Cardboard waste, rec	13 C	-	-	-	0,3	0,3	
				Paper waste, recycled		17 - 31	0.7	0,1	0,1	0,1	
				EE waste, recycled	tCO2e	-	10.55	-	-	-	
				Plastic waste, recycled		-	-	-	-	-	
				Metal waste, recycled		-	-	-	0,1	0,2	
				Wood waste, recycleo Mineral oil waste, inci			25 <u>8</u>	0,1	0,2	0,4	
				Organic waste, compo		-		-	2,5	1,5	
				Sorted waste, recycled		57. -	-	-	0,2	0,2	
				Waste Total	tCO2e			2,9		20,7	n/a
				Waste Iotai	10026			2,5	15,1	20,7	1// d

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In	ndex	-	igures (continued) Emissions								
Clir	mate footprint at a glance	e92		Category	Unit	2019	2020	2021	2022	2023	
Intr	roduction	Scope 3	3 (continued)								
1110				Business travel	+602-			6.2	12.1	10.5	
	Restatements	93		Hotel nights, world Train International	tCO2e tCO2e	-	-	6,2	42,1 0,1	40,6 0,1	
	External assurances	93		Mileage all. avg. car	tCO2e	-	-	11,3	21,4	16,1	
				Flights	tCO2e	(2)	12	22,8	51,7	64,9	
	Non GHG air emissions	94		Mileage all. el car EU		-	-	-	-	0,2	
	Organisation chart	94		SCOPE3_BUSINESS_T	RAVEL Total tCO2e		-	40,3	115,4	121,8	6%
Der	carbonization	94									
				Employee commutin							
Car	rbon Emissions	95		Car, petrol (avg.)	tCO2e	-	-	-	170,3	138,6	
	Scope 1 and Scope 2	95		Motorbike, small	tCO2e		-	-	-	0,2	
				Car, petrol (medium)		-	-		56,2	51,9	
	Scope 3	96		Car, Hybrid Electric V					-	3,0	
Кеу	y figures			Electric car EU27 Bus local avg.	tCO2e tCO2e	-	-		6,5 2,8	9,1 2,7	
	GHG emissions			SCOPE3_EMPLOYEE_			-	-	2,0	205,6	-13%
	GHG emissions	96		SCOPES_EMPEOTEE_	COMMOTING (COZE				233,8	203,0	-1370
	Energy	101		Scope 3 Total	tCO2e	-	135,7	434,3	755,4	247 482,0	
	Energy consumption	102									
Me	ethodology	104		Total (Scope 1 + 2)	tCO2e	457,5	477,6	618,4	618,8	618,6	2 790,8
	Sources	105		Total (Scope 1 + 2 + 3		457,5	613,3	1 052,7	1 374,2	248 100,5	2.00,0
		Percen	tage change			%	34.1%	71.6%	30.5%	17954.2%	
	Abbreviations		Market-Based GHG Emissions								
				Electricity Total (Scor	be 2) with Ma tCO2e	12 <u>-</u> 1		40,6	27,4	56,3	
				Scope 2 Total with M		4,1	3,5	44,7	32,1	61,3	
				Scope 1+2+3 Total wi	th Market-b; tCO2e	457,5	613,3	1 055,6	1 372,6	248 132,2	
				Percentage change		100%	34.1%	72.1%	30%	17977.1%	

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			ividilagement			Additors report					
Inde	ex	Ke	ey figures						•		
			ergy								
	6		ergy	Category	Unit	2019	2020	2021	2022	2023	
Climate	footprint at a glance	e92	pe 1	Category	Unit	2019	2020	2021	2022	2023	
Introduc	ction	93		Stationary combustio	n						
Rest	tatements	93		Natural gas	MWh	2 466,1	2 578,4	3 125,9	3 182,6	2 882,1	
				Stationary combustio	n Total MWh	2 466,1	2 578,4	3 125,9	3 182,6	2 882,1	
Exte	ernal assurances	93									
Non	n GHG air emissions	94		Scope 1 Total	MWh	2 466,1	2 578,4	3 125,9	3 182,6	2 882,1	
Org	anisation chart	94 Scor	pe 2								
Decarbo	onization	94		Electricity							
				Electricity France	MWh	-	-	593,6	521,3	434,8	
Carbon	Emissions	95		Electricity China	MWh	-	-	8,0	3,0	2,5	
Scor	pe 1 and Scope 2	95		Electricity Korea	MWh	-		1,1	1,1	1,0	
	pe 3			Electricity Total	MWh	-	10	602,7	525,4	438,3	
				Electricity general							
Key figu	res			Hydropower, Quebec	MWh	6 822,8	5 798,8	6 832,6	7 800,1	8 242,9	
GHC	G emissions	98		Electricity general Tot		6 822,8	5 798,8	6 832,6	7 800,1	8 242,9	
Ener	rgy	101		Scope 2 Total	MWh	6 822,8	5 798,8	7 435,4	8 325,5	8 681,2	
Ener	rgy consumption	102									
Method	ology	104		Total (Scope 1 + 2 + 3)		9 289,0	8 377,2	10 561,2	11 508,1	11 563,2	
			centage change		GJ	<u>33 440,3</u> %	30 158,1 -9.8%	38 020,4 26.1%	41 429,3 9%	41 627,6 0.5%	
Soul	rces	105	pe 1 renewable energy		MWh	-	-5.870	-	-	-	
Abb	previations	100	pe 1 renewable energy share		%	0%	0%	0%	0%	0%	
		Scor	pe 2 renewable energy (Location-ba	sed)	MWh	6 822,8	5 798,8	6 964,5	7 932,2	8 348,0	
			be 2 renewable energy share (Locati		%	100%	100%	93.7%	95.3%	96.2%	
			al renewable energy (Location-base		MWh	6 822,8	5 798,8	6 964,5	7 932,2	8 348,0	
			al renewable energy share (Location		%	73.5%	69.2%	65.9%	68.9%	72.2%	
		Scor	pe 2 renewable energy (Market-base	ed)	MWh	6 822,8	5 798,8	6 832,6	7 800,1	8 242,9	
			pe 2 renewable energy share (Marke		%	100%	100%	91.9%	93.7%	95%	
			al renewable energy (Market-based		MWh	6 822,8	5 798,8	6 832,6	7 800,1	8 242,9	
		Tota	al renewable energy share (Market-	based)	%	73.5%	69.2%	64.7%	67.8%	71.3%	

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In	dex	Key	y figures							
		Ene	ergy consumption							
Clim	ate footprint at a gland	ce92		Category	Unit	2019	2020	2021	2022	2023
	. –	Scope	1							
Intro	oduction	93		Stationary combustion						
F	Restatements	93		Natural gas	m3	-	-	283 396	288 018	286 774
E	External assurances	93		Natural gas	tCO2e	453	474	-	-	-
1	Non GHG air emissions	s 94 Scope	2							
(Organisation chart			Electricity						
				Electricity France	kWh	. # 5		593 646	521 288	434 822
Deca	arbonization	94		Electricity China	kWh			7 950	3 034	2 470
Carb	oon Emissions	95		Electricity Korea	kWh	-	-	1 132	1 111	981
(Scope 1 and Scope 2	95		Electricity general						
(Scope 3	96		Hydropower, Quebec	kWh	6 822 817	5 798 792	6 832 642	7 800 094	8 242 881
Key	figures									
(GHG emissions		3							
				Fuel-and-energy-related	activities					
ł	Energy	101		Natural gas (WTT)	m3	141	-	283 396		286 774
[Energy consumption	102		Electricity Canada (upstr		-	5 798 792	6 832 642		8 242 881
				Electricity France (upstre		-	-	593 646		434 822
wetr	hodology	104		Electricity China (upstrea			3.70	7 950		2 470
	Sources	105		Electricity Korea (upstrea	am) kWh	-	-	1 132	1 111	981
/	Abbreviations	106		Upstream transportatio	n and distribution					
				Sea Cargo Avg load	tkm	1	12	2	-	-
				Truck avg.	tkm		12	-	-	82
				Truck avg.	tCO2e	-	-	-	-	36
				Air freight avg. (WTT)	tkm		-	-		294 168
				Air freight avg. (WTT)	tCO2e	-	-	-	-	67 451
				Rail freight	tCO2e	-	-	-	-	3
				Sea ship avg. (WTT)	tkm	(2)	12	-	(44)	16 113
				Sea ship avg. (WTT)	tCO2e	-	-	-	1 <u></u>	179 169
				Transportation	tCO2e	-	-	2	-	8

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In	dex	Key f	igures (continued)							
		Ene	rgy consumption							
Clim	nate footprint at a gland	ce92		Category	Unit	2019	2020	2021	2022	2023
	. –	Scope	3 (continued)							
Intro	oduction	93		Waste						
	Restatements	93		Hazardous waste, recy		17.5	8 	364	240	61 009
				Hazardous waste, re-u		-	-	-	948	-
	External assurances	93		Hazardous waste, trea		-	-	1 636	46 441	4 337
	Non GHG air emissions	5 94		Hazardous waste, land		-	-	12 976	11 457	19 866
				Residual waste, landfil		120	82	22	15	
	Organisation chart	94		Residual waste, landfil		-		-	28 620	32 738
Doc	arbonization	01		Cardboard waste, recy	/cled kg	17.0	5 7	-	13 207	13 207
Dec	ar bornization			Paper waste, recycled	m3	3.53	-	16	18	-
Cark	oon Emissions	95		Paper waste, recycled	kg	-	-	-	-	3 208
	Coope 1 and Coope 2	OF		EE waste, recycled	m3	143	2) — 2)	-	(1)	2
	Scope 1 and Scope 2	90		EE waste, recycled	kg	-	82	2	2 000	÷
	Scope 3	96		Plastic waste, recycled	m3	-	-	5	9	-
				Plastic waste, recycled	kg	-	-	-	-	776
Кеу	figures			Metal waste, recycled	kg	-	-	~	6 563	7 197
	GHG emissions	98		Wood waste, recycled	tonne	(*)	-	2	2	1
				Wood waste, recycled	kg	-	-	-	10 000	19 000
	Energy	101		Mineral oil waste, inci	nerated liters		820	-	1 000	600
	Energy consumption	102		Organic waste, compo	sting kg		122	-	1 1 3 9	2 254
	Lifergy consumption	102		Sorted waste, recycled		-	-	8	7 200	7 200
Met	hodology	104			5.75					
	Sources	105		Business travel						
	sources	103		Hotel nights, world	nights			137	1 067	1 025
	Abbreviations	106		Train International	pkm	-	-	3 035	29 886	23 829
				Mileage all. avg. car	km	-	-	67 103	125 445	96 339
				Flights	tCO2e	720	2	23	52	65
				Mileage all. el car EU2		-				3 381
				Employee commuting						
				Car, petrol (avg.)	km	-	-	-	998 903	845 838
				Motorbike, small	km	-	-	-	-	3 002
					and the second second					

km

km

km

pkm

Car, petrol (medium)

Electric car EU27

Bus local avg.

Car, Hybrid Electric Vehicle (HEV)

_

-

-

~

-

-

-

-

-

-

-

291 310

25 615

204 000

26 904

2

304 423

171 880

28 790

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Methodology (CEMASYS reporting system)

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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 CO2-equivalents: CO2, CH4 (methane), N2O (laughing gas), SF6, 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).

Organisations who report on their GHG emissions will now have to disclose both the location-based emissions from the production of electricity, and the markedbased 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 emission reporting highlights the effect of all measures regarding electricity consumption.

The location-based method: 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.

Sustainability

Reporting

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 CO2e 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 location-based 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.

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Climate factorist at a slaves 02

Sustainability

Reporting

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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.

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		to the prod	uction of the electricity and	rict heating/cooling, etc) is r d the transportation and dist locations (transmission loss	tribution			



USA

Tekna is a global leader in the development, manufacturing and sales of advanced micron and nano powders as well as plasma process solutions.

Since we started in 1990, Tekna has developed a unique and proprietary plasma technology platform for manufacturing micro and nano sized powders for a range of industries. Our business model relies on two revenue streams, both with synergistic effects:

- Development and sale of plasma systems: We develop and sell plasma systems customized for the purpose of research and development.
- Development and sale of advanced powders: We develop and operate our own proprietary plasma processes to produce and sell spherical powders and nano powders.

Tekna is developing in major market verticals thriving on global mega trends such as Space Exploration and Space Tourism, Deglobalization and Climate Change, Digitalisation & Connectivity as well as Demography & Health Care.

Tekna is headquartered in Québec, Canada, and has additional offices in France, China, Korea, USA, and seven distributors operating globally (Europe, Asia and North America).

1990

Systems | PlasmaSonic:

In the systems business we launched the PlasmaSonic Product line. This wind tunnel simulates hypersonic conditions to enable research for instance for space tourism.

We aim to sell at least 1 Plasma-Sonic system in 2024.

Plasma Systems

2014

Additive Manufacturing:

Tekna produces high quality micron-sized, spherical, highpurity metal powders. Its portfolio includes titanium, aluminum, nickel, tungsten and tantalum. Currently our fastest growing segment and this global market is on track to outperform, in terms of growth, traditional machining due to improved environmental efficiency, for instance through resource efficiency and speed of availability of parts.

We guide to grow in line with the market.

advanced development stage

Microelectronics:

INDIA

In close cooperation with selected customers, Tekna is in the final development stage nano nickel powders for the microelectronics industry. Nano powders below 100 nm are expected to become the new industry standard for high-end MLCC devices, and Tekna is one of only three producers that can deliver this.

We aim to secure industrial scale supply to global tier 1 customer.

future potential

JAPAN

Note: In India and Japan, Tekna has distri-

bution / sales representative agreements

KOREA

Energy Storage:

Nano silicon can be used to improve performance of rechargeable batteries. Tekna has developed and patented its industrial process to produce spherical silicon nano powder. This is an important part of Tekna's IP portfolio. The company maintains active dialogue with developing partners within the energy storage space.

Currently, resource priority is given to the significant opportunities in the other segments.

Advanced Materials



Founded in 1990 Tekna Holding ASA listed in OSLO 2022

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2030



Headquartered in Sherbrooke, QC, Canada



222 employees



90 active patents



3 manufacturing and research centers

Global reach

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