



# 2023 FY results

13<sup>th</sup> March 2024



# Executive Summary

## Sales in line with 2022

## Profitability Improvements

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### Economics

- In 2023, sales remained flat (-0.2% mainly due to volumes, +1.4% at constant FX, - 0.7% LFL)
- EBITDA adjusted grew by 1.7%% at € 80.1 M (13.0% of sales)
- Order book at € 156 M -17% vs. December 2022 due to normalization of order take-off times

### Financials

- Leverage at 1.57x EBITDA adj (vs 1.81x as of Dec 22), thanks to cash flow from operations (€ 71.2 M) and reduction of working capital, despite accelerated capex (€ 21.7 M above maintenance capex)
- Strong effect on P&L resulting from IFRS treatment of interest rate derivatives due to fluctuation of interest rates

### Strategy

- Resilient business model thanks to diversification of products applications
- Strong change of sales mix
- Profitability improvements, due to cost saving programs started in H2 23

# FY 2023 - Financial Highlights

## Resilient performance despite macroeconomic and regulatory headwind



€ millions	Q4 2022	Q4 2023	2021 FY	2022 FY	2023 FY
<b>Sales</b>	<b>151.0</b>	<b>152.8</b>	<b>492.0</b>	<b>618.6</b>	<b>617.3</b>
Growth %	12.9%	1.2%	22.6%	25.7%	-0.2%
<b>EBITDA adjusted</b>	<b>16.8</b>	<b>17.6</b>	<b>60.8</b>	<b>78.8</b>	<b>80.1</b>
EBITDA %	11.1%	11.5%	12.4%	12.7%	13.0%
Net income adjusted <sup>(1)</sup>	4.8	8.6	27.8	38.6	40.7
Net financial debt	-	-	121.9	142.3	126.3
NFD / EBITDA LTM	-	-	2.0x	1.8x	1.6x
Net cash generation adj.	-	-	21.2	37.1	45.1
Group net worth	-	-	172.1	211.5	229.2

- In Q4-23, sales grew by 1.2% YoY
- In Q4-23 EBITDA margin increased in line with full year improvement
- Net income adjusted in Q4-23 increased by 79% YoY

(1) Net income adjusted considers NRI and the depreciation of "purchase price allocation" resulting from M&A transactions concluded in past years

# FY 2023 – Revenues Breakdown

## New Market Opportunities and Diversification

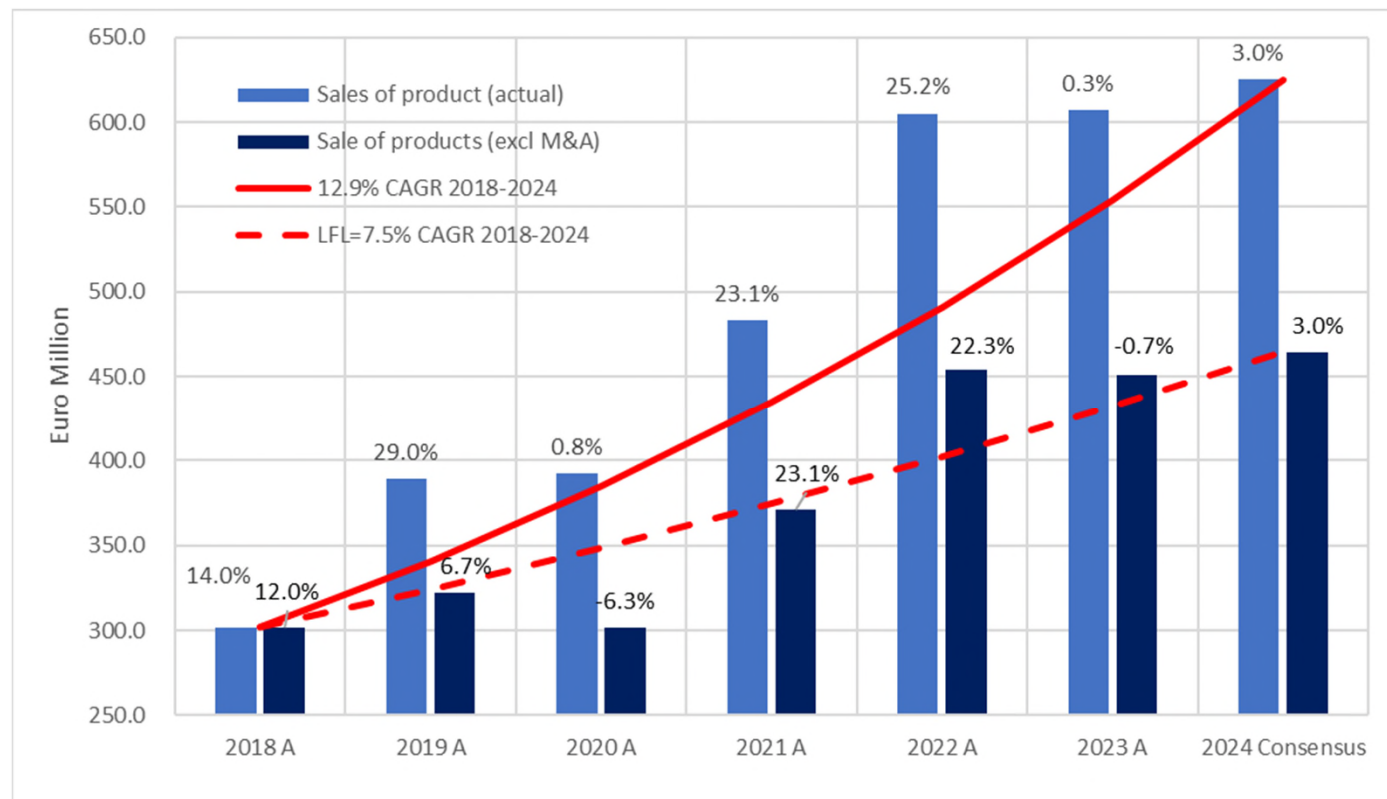


Products € 000	2022	%	2023	%	Δ %
Heat Exchangers	329.2	53.2%	305.0	49.4%	-7.3%
Air Cooled Equipment	257.5	41.6%	285.2	46.2%	10.7%
Glass Doors	18.3	3.0%	16.6	2.7%	-9.1%
<b>Total sales of products</b>	<b>605.0</b>	<b>97.8%</b>	<b>606.8</b>	<b>98.3%</b>	<b>0.3%</b>
Other revenues	13.6	2.2%	10.4	1.7%	-23.3%
<b>Total sales</b>	<b>618.6</b>	<b>100.0%</b>	<b>617.3</b>	<b>100.0%</b>	<b>-0.2%</b>

Applications € 000	2022	%	2023	%	Δ %
Refrigeration	311.8	50.4%	287.0	46.5%	-8.0%
Air Conditioning	138.9	22.4%	169.6	27.5%	22.1%
Special Applications	92.6	15.0%	79.7	12.9%	-13.9%
Industrial cooling	61.7	10.0%	70.5	11.4%	14.4%
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# 2018-2024 Consensus - Sales <sup>(1)</sup> Growth vs Guidance (HSD – M/LT)



- CAGR 2018-2023 (actual) = 15.0%
- CAGR 2018-2024 (consensus) = 12.9%
- In 2021/2022 a growth equivalent to the 4-year guidance target growth was achieved
- **Organic growth:**
  - CAGR 2018-2024 consensus = 7.5%
  - **Guidance: HSD**

Considering the consensus 2024, actual M/LT growth rate LFL is in line with M/LT guidance



# HEAT PUMPS - Focus



## The market<sup>(1)</sup>

- To align with all existing national energy and climate pledges worldwide, heat pumps will have to meet nearly 20% of global heating needs in buildings by 2030. Sales need to expand by well over 15% per year this decade if the world is to achieve net zero emissions by 2050 <sup>(2)</sup>
- **Within the realm of clean technologies (renewables, EVs, heat pump and batteries), Europe's stronghold lies in the domain of heat pumps (see IEA World Energy Outlook 2023)**
- After outstanding sales in 2022 (+ 39.9%), market sales figures for 2023 show a temporary decline (-5%)<sup>(1)</sup> due to impact of governments changing policies, particularly on subsidies and support for heat pump purchases and less favorable price ratio between electricity and gas

## LUVE strategy

- In 2023 heat pumps represent 10% of LUVE total sales
- Heat exchangers for HP are part of LUVE's core business
- LUVE intends to keep the share of HP around 15% of its turnover
- LUVE objective: to increase market share selectively through long-term partnerships with qualified customers
- Heat Exchanger represents the key components in HP's performance, but its cost has a limited incidence

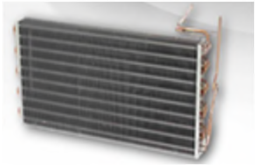


# Sales by application and market

## Benefit of diversification of applications



- SBU components -7.4%:



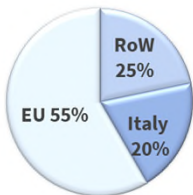
- Demand led by products with low environmental impact and high energy efficiency
- Strong demand for air conditioning only partially offset the decrease in commercial refrigeration, HORECA and dryers
- In H2 soft market for heat pumps due to lack of clear direction in incentives schemes in EU countries, despite the “REPowerEU” plan

- SBU cooling systems +10.7%:



- Demand led by products with low environmental impact and high energy efficiency
- Strong demand for refrigerated logistic centers, data centers and industrial cooling

- By geography:



- -1.7% in Europe. Germany first export market
- USA and China represents 4.2% and 2.3% of products sales respectively

- High customer diversification:

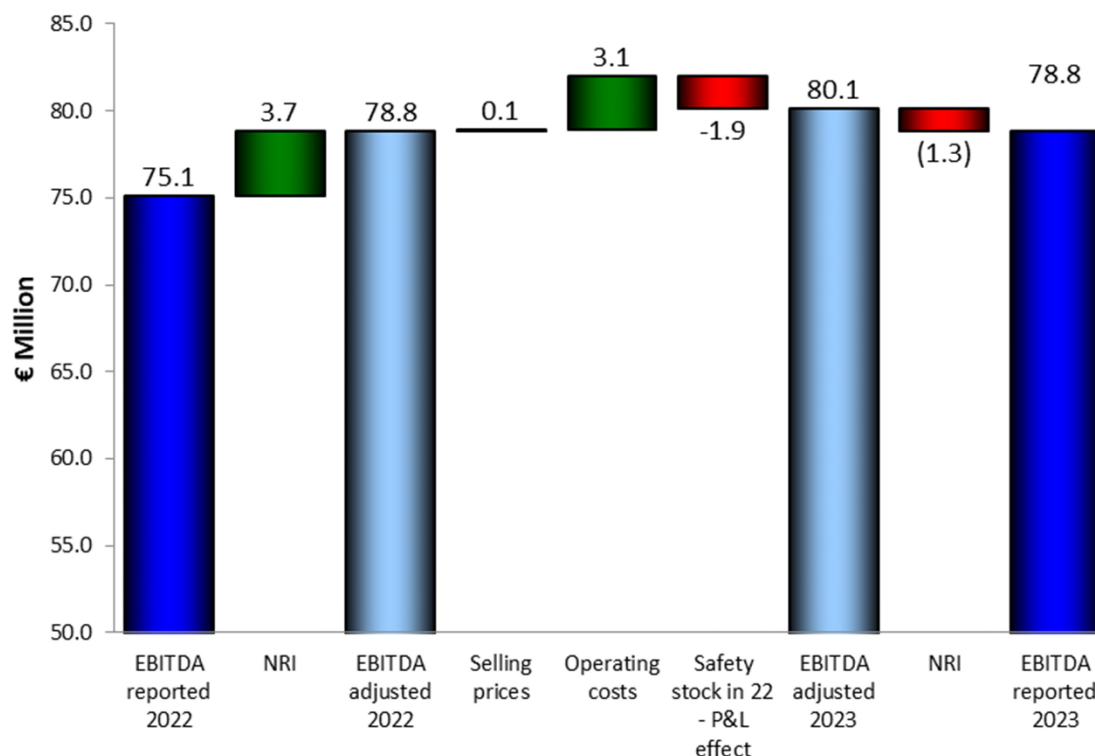
- Largest customer : 4.0% of total sales
- Largest 10 customers: 29.9% of total sales



# EBITDA Bridge Analysis

FY 2023 vs 2022 = + 1.7%

FY 2023 vs 2018 = + 108.6%



- EBITDA adjusted grew by 1.7% thanks to cost savings
- In 2023, non-recurring items are new plant in Belluno start-up costs and extraordinary contribution to flooded populations of Emilia Romagna

(1) Due to rounding, numbers presented throughout this chart may not add up precisely to the totals provided

(2) Source: management analysis of consolidated results as of 31/12/2023



# FY 2023- From EBITDA to Net Income

## EBIT adjusted +4.6 % and Net Income adjusted + 5.4%

€ millions	2021	2022	2023	
<b>EBITDA reported</b>	60.8	75.1	78.8	
D&A	30.1	32.7	32.4	
Gain (loss) of non current assets	(0.1)	(0.3)	(0.0)	
<b>EBIT</b>	30.6	42.1	46.4	
Capital gain		9.5		In 2022 capital gain on Tecnair divestiture
Net financial income (loss)	0.1	7.5	(10.1)	Strong volatility of financial results due to IFRS treatment of interest rate derivatives (market value of IRS to cover the interest rate risk)
<b>EBT</b>	30.6	59.0	36.4	
Income taxes	5.8	10.0	5.0	
Minorities	(1.0)	(1.4)	(1.6)	
<b>Group net profit</b>	<b>23.7</b>	<b>47.7</b>	<b>29.7</b>	
<b>EBIT reported</b>	30.6	42.1	46.4	
Depreciation on PPA	4.2	4.3	4.7	
NRI	0.0	3.7	1.3	
<b>EBIT adjusted</b>	<b>34.7</b>	<b>50.1</b>	<b>52.4</b>	In the last 3 years strong improving trend of EBIT adjusted
% of sales	7.1%	8.1%	8.5%	
<b>Net income reported</b>	24.8	49.1	31.4	
Depreciation on PPA net of tax	3.0	3.4	3.7	
NRI net of tax	0.0	3.0	0.9	
Gain on shareholding net of tax	0.0	(9.3)	0.0	
Fair value of derivatives net of depr cost	0.0	(7.5)	4.7	
<b>Net income adjusted</b>	<b>27.8</b>	<b>38.6</b>	<b>40.7</b>	Net income adjusted to exclude NRI +5.4% vs 2022 and + 46.4% vs 2021
% of sales	5.7%	6.2%	6.6%	

(1) Due to rounding, numbers presented throughout this chart may not add up precisely to the totals provided

(2) Source: management analysis of consolidated results as of 31/12/2023

(3) EBIT adjusted and Net income adjusted consider the depreciation of “purchase price allocation” resulting from M&A transactions concluded in past years

# Impact of IFRS on interest costs



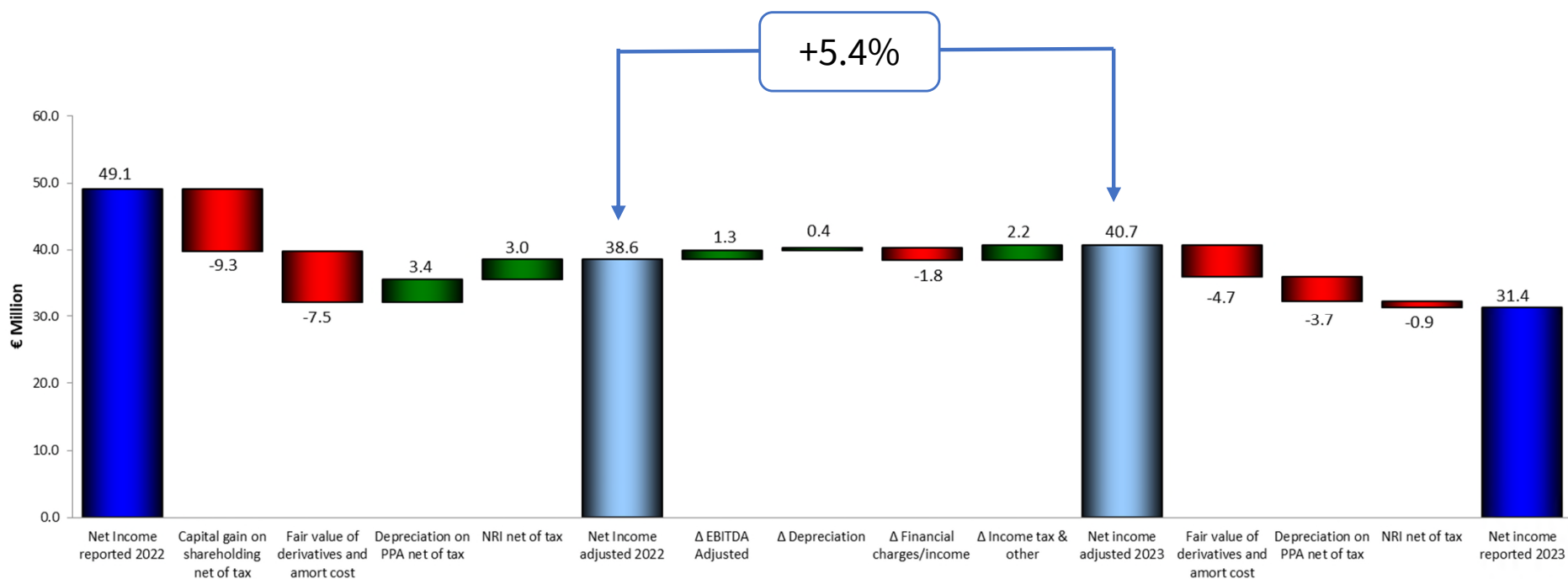
€ millions	2022	2023
Cash interest cost	(4.9)	(11.8)
Cash interest income	2.0	5.5
Net realized FX gain (cost)	(1.2)	2.0
<b>Net cash financial costs</b> (A)	<b>(4.1)</b>	<b>(4.3)</b>
Derivatives fair value	14.4	(7.7)
Amortization costs	(4.9)	1.5
Unrealized FX gain (loss)	2.0	0.4
<b>IFRS related financial charges</b> (B)	<b>11.6</b>	<b>(5.8)</b>
<b>Reported net financial charges (cost)</b> (A+B)	<b>7.5</b>	<b>(10.1)</b>

- Net cash financial cost nearly unchanged despite increase of interest rate on new loans
- «Accounting» financial charges strongly impacted by IFRS
- All financial debt are at medium term. Average duration 3.57 years
- All loans amortizing, no bullet
- 89% of loans covered by interest rate swaps



# Net Income – Net income Adjusted

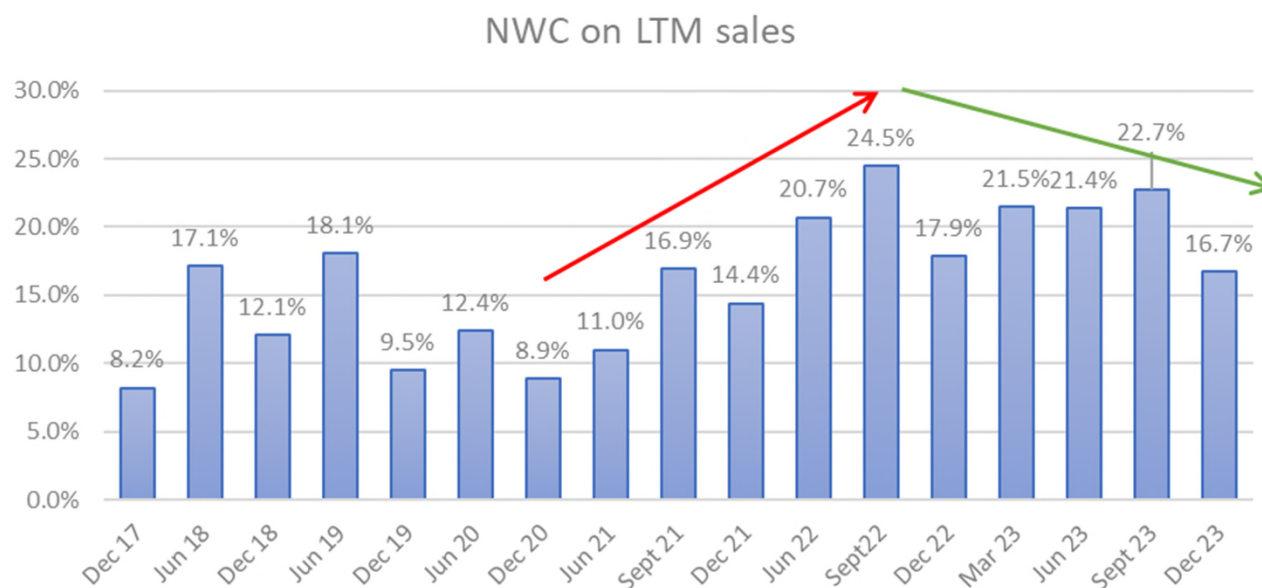
## Net income Bridge Analysis



- (1) Due to rounding, numbers presented throughout this chart may not add up precisely to the totals provided
- (2) Source: management analysis of consolidated results as of 31/12/2023
- (3) Net income adjusted considers the depreciation of “purchase price allocation” resulting from M&A transactions concluded in past years

# TNWC back in line with M/LT Guidance

€ Millions	31/12/2021	Days	31/12/2022	Days	31/12/2023	Days
Stock	111.1	81	134.2	78	110.8	65
A/receivable	74.1	54	83.3	48	87.8	51
Working capital	185.2		217.5		198.6	
A/payable	114.4	110	106.6	88	95.7	90
Net working capital	70.9	52	110.9	65	103.0	60
% on net sales LTM	14.4%		17.9%		16.7%	





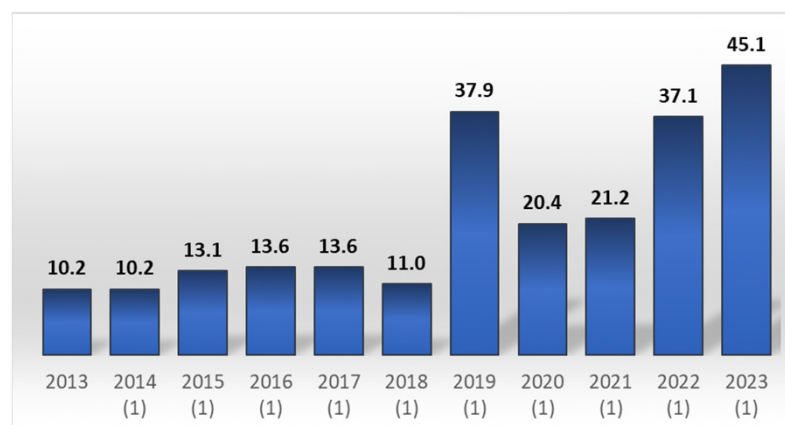
# Net Cash Generation Adjusted at Record Level



Net cash / (net debt)	€ m	
Net financial position as of December 2022	( 142.3)	
Net financial position as of December 2023	( 126.3)	
Delta in net financial position	15.9	15.9
+ Dividends paid in 2023		9.1
+ Accelerated capex program		21.7
+ M&A net		0.0
+ Delta in safety stock		0.0
+ Change of IFRS 16 impact	( 2.9)	
Non recurring items		1.3
<b>= Total normalized net cash flow</b>		<b>45.1</b>

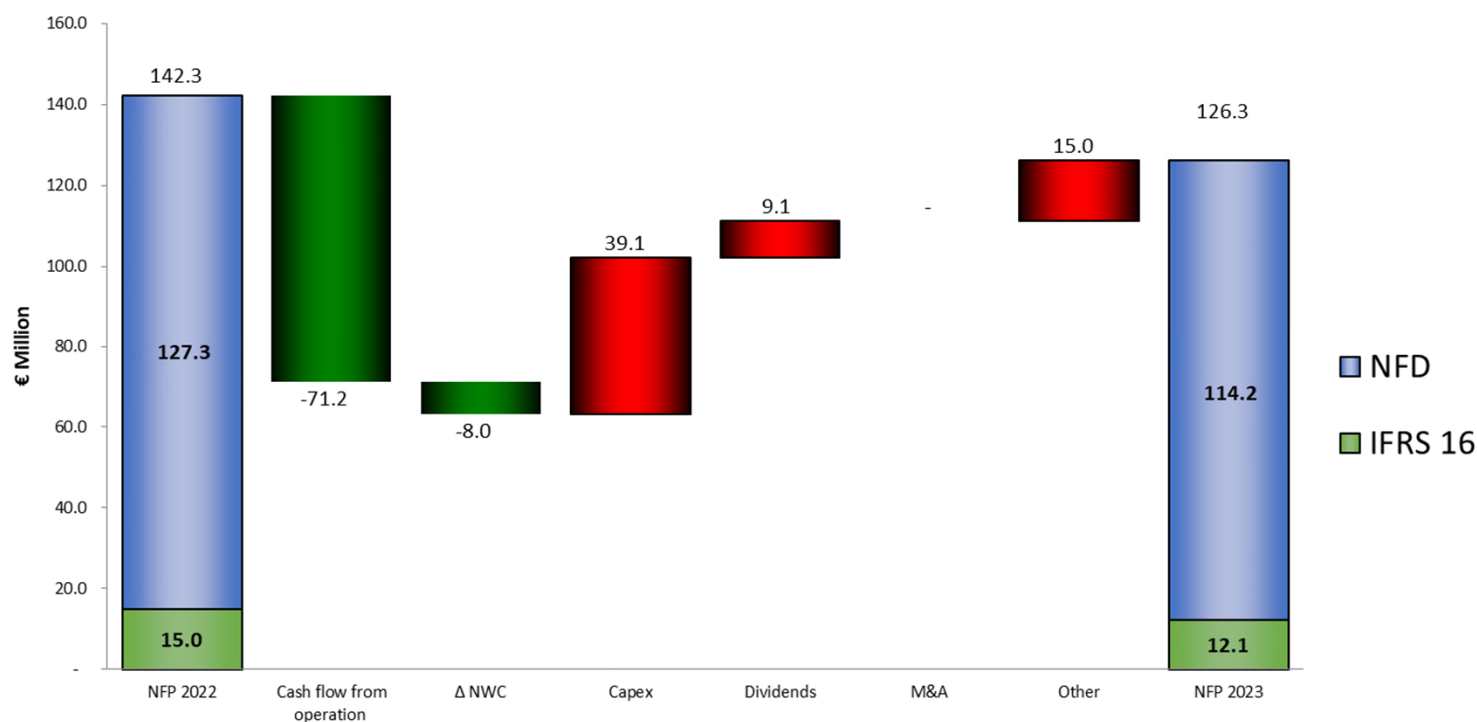
- Accelerated capex program above maintenance level
- In 2022 and 2023 temporary working capital increase due to higher safety stock of raw materials
- Normalization of TNWC already started in 2023
- Extraordinary level in LTM up to December 2019 due to working capital reduction

LTM net cash generation adjusted 2013 - FY 23 (€ m)



- All data in € millions
- (1) 2014-2023 based on IFRS – 2013 based on ITA GAAP

# Balance Sheet and Capital Allocation



- Cash flow from operations at 11.5% of sales (vs 9.2% in 2022)
- Change in NWC is due to decrease of stock which more than offsets increase of receivable and decrease of payable
- Other: includes delta other receivable /other payable, fair value of derivatives and other items

(1) Due to rounding, numbers presented throughout this chart may not add up precisely to the totals provided  
 (2) Source: management analysis of consolidated results as of 30/9/2022



# Future Developments and Closing Remarks

Strategy	<ul style="list-style-type: none"><li>• Focus on Datacenter and Industrial Projects</li><li>• Focus on automation, process optimization and cost reduction</li><li>• Focus on supply chain optimization</li><li>• Further product range rationalization</li><li>• Second stage of plant expansion in China and US</li><li>• New capex review according to markets developments</li></ul>
Markets	<ul style="list-style-type: none"><li>• M/L Term growth sustained by secular trends</li><li>• Since Q3 23 soft markets in heat pumps</li><li>• Potential upside in 2024 in more traditional application</li></ul>
M&A	<ul style="list-style-type: none"><li>• Business integration of Refrion completed</li><li>• Continuous search of M&amp;A opportunities with strong strategic rationale</li></ul>
Financials	<ul style="list-style-type: none"><li>• Focus on costs efficiency</li><li>• Focus on deleverage and further increase of debt average duration</li><li>• Focus on net cash generation</li></ul>

# Annexes





# Income Statement as of 31/12/2023



Consolidated Profit & Loss Reclassified (000 Euro)	2021	%	2022	%	2023	%	Delta %
<b>Sales and operating income</b>	<b>492.008</b>	100,0%	<b>618.612</b>	100,0%	<b>617.257</b>	100,0%	<b>-0,2%</b>
Purchases of materials	(309.733)	-63,0%	(353.637)	-57,2%	(302.368)	-49,0%	
Inventory increase (decrease)	51.931	10,6%	20.450	3,3%	(21.440)	-3,5%	
Services	(63.148)	-12,8%	(81.811)	-13,2%	(80.654)	-13,1%	
Labour cost	(106.683)	-21,7%	(125.552)	-20,3%	(129.413)	-21,0%	
Other operating costs	(3.534)	-0,7%	(2.927)	-0,5%	(4.543)	-0,7%	
<b>Total operating costs</b>	<b>(431.167)</b>	-87,6%	<b>(543.477)</b>	-87,9%	<b>(538.418)</b>	-87,2%	<b>-0,9%</b>
<b>EBITDA</b>	<b>60.841</b>	<b>12,4%</b>	<b>75.135</b>	<b>12,1%</b>	<b>78.839</b>	<b>12,8%</b>	<b>4,9%</b>
Depreciation	(30.140)	-6,1%	(32.729)	-5,3%	(32.371)	-5,2%	
Gain (loss) of non current assets	(147)	0,0%	(310)	-0,1%	(41)	0,0%	
<b>EBIT</b>	<b>30.554</b>	<b>6,2%</b>	<b>42.096</b>	<b>6,8%</b>	<b>46.427</b>	<b>7,5%</b>	<b>10,3%</b>
Net financial charges	68	0,0%	7.467	1,2%	(10.057)	-1,6%	
Capital gain on shareholding			9.473	1,5%			
<b>EBT</b>	<b>30.622</b>	<b>6,2%</b>	<b>59.036</b>	<b>9,5%</b>	<b>36.370</b>	<b>5,9%</b>	<b>-38,4%</b>
Income taxes	(5.847)	-1,2%	(9.971)	-1,6%	(5.007)	-0,8%	
<b>Net income</b>	<b>24.775</b>	<b>5,0%</b>	<b>49.065</b>	<b>7,9%</b>	<b>31.363</b>	<b>5,1%</b>	<b>-36,1%</b>
Minority interest	1.036		1.351		1.618		
<b>Group net income</b>	<b>23.739</b>	<b>4,8%</b>	<b>47.714</b>	<b>7,7%</b>	<b>29.745</b>	<b>4,8%</b>	<b>-37,7%</b>

# Balance Sheet as of 31/12/2023



Consolidated Balance Sheet Reclassified (000 Euro)	31/12/2021	% net invested capital	31/12/2022	% net invested capital	31/12/2023	% net invested capital
Net intangible assets	90.517		98.474		92.863	
Net tangible assets	167.594		189.264		205.412	
Pre-paid taxes	6.509		6.992		11.039	
Financial assets	236		1.473		969	
<b>Non current assets (A)</b>	<b>264.856</b>	<b>90,1%</b>	<b>296.203</b>	<b>83,7%</b>	<b>310.283</b>	<b>87,3%</b>
Inventory	111.077		134.237		110.831	
A/receivable	74.131		83.265		87.790	
Other receivables and current assets	14.233		13.273		14.116	
<b>Current assets (B)</b>	<b>199.441</b>		<b>230.775</b>		<b>212.737</b>	
A/payable	114.358		106.587		95.659	
Other payable and current liabilities	30.773		40.913		46.577	
<b>Current liabilities (C)</b>	<b>145.131</b>		<b>147.500</b>		<b>142.236</b>	
<b>Working capital (D=B-C)</b>	<b>54.310</b>	<b>18,5%</b>	<b>83.275</b>	<b>23,5%</b>	<b>70.501</b>	<b>19,8%</b>
Personnel provisions	5.770		5.299		5.363	
Deferred taxes	13.909		14.955		14.109	
Risk provisions	5.541		5.492		5.735	
<b>Long term liabilities (E)</b>	<b>25.220</b>	<b>8,6%</b>	<b>25.746</b>	<b>7,3%</b>	<b>25.207</b>	<b>7,1%</b>
<b>Net invested capital (A+D-E)</b>	<b>293.946</b>	<b>100,0%</b>	<b>353.732</b>	<b>100,0%</b>	<b>355.577</b>	<b>100,0%</b>
Group net worth	167.501		206.748		223.677	
Minority interest	4.586		4.712		5.554	
<b>Total group net worth</b>	<b>172.087</b>	<b>58,5%</b>	<b>211.460</b>	<b>59,8%</b>	<b>229.231</b>	<b>64,5%</b>
M/L term net financial position	213.631		338.014		264.632	
Short term net financial position	(91.772)		(195.742)		(138.286)	
<b>Net financial position</b>	<b>121.859</b>	<b>41,5%</b>	<b>142.272</b>	<b>40,2%</b>	<b>126.346</b>	<b>35,5%</b>
<b>Net worth and net financial position</b>	<b>293.946</b>	<b>100,0%</b>	<b>353.732</b>	<b>100,0%</b>	<b>355.577</b>	<b>100,0%</b>



**LU-VE**  
**GROUP**

*leadership with passion*



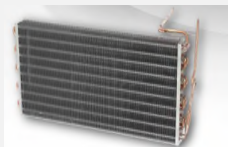

# Short company profile





# Business Highlights



Business Unit	Products	% of Sales (1)	Applications	Type of Customer
Business Unit Components	Heat exchangers 	50%	<ul style="list-style-type: none"> <li>Refrigeration (food cold chain)</li> <li>Commercial air conditioning and ventilation</li> <li>Special applications (<i>whitegoods</i>, <i>"mobile applications"</i> etc.)</li> </ul>	OEM
	Glass doors for refrigerated display cabinets	3%	Refrigeration (food cold chain)	OEM
Business Unit Cooling Systems	Air-cooled equipment / Radiators 	47%	<ul style="list-style-type: none"> <li>Refrigeration (food cold chain)</li> <li>Commercial air conditioning and ventilation</li> <li>Industrial process cooling</li> <li>Power Generation</li> <li>Data centers</li> </ul>	Distributors / Installers / OEM / EPC / End users  Contractors / End users

(1) FY 2023 data on total sales of product

# Diversification to Avoid Cyclicity



- Diversified applications, segments and markets with **uncorrelated business cycles**
- Focus on markets with expected **high potential growth**
- Business growth **sustained by megatrends**



REFRIGERATION AND CONSERVATION OF FRESH AND PACKAGED FOOD AND FLOWERS



AIR CONDITIONING, HEAT PUMPS AND HOUSEHOLD APPLIANCES



TRANSPORTATION, TRAIN AND MOBILE AIR CONDITIONING AND REFRIGERATION



AIR CONDITIONING FOR DATA CENTERS



POWER GENERATION, OIL & GAS, STEEL-MAKING AND MINING



FRESH FOOD CONSERVATION AND PERISHABLE FOOD BLAST FREEZING



REFRIGERATION FOR COUNTERS AND DISPLAY CABINETS AND AIR CONDITIONING



GLASS DOORS, CLOSING SYSTEMS AND DIGITAL SIGNAGE SOLUTIONS

# Seculars Trends Increase the Addressable Market

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Cold chain and refrigeration



Electrification  
(heat pumps /  
district heating)



Digitalization  
(data centers, IOT)



Food safety



Decarbonization



Industrial Cooling  
and Processes



Urbanization &  
consumer habits



Global warming



Regulations (F-gas etc.)



Safety in supply chains



Air treatment & ventilation



# Secular Trends Increase total Addressable Market



Drivers and trends	What LUBE does
<p>Acceleration of the transition to “green capex” by major customers to:</p> <ul style="list-style-type: none"> <li>• Adopt refrigerants with low GWP</li> <li>• Reduce energy consumption and noise level</li> <li>• Comply with EU regulations and with similar regulations introduced in the USA, China, and other countries</li> </ul>	<ul style="list-style-type: none"> <li>• LUBE was a <b>first mover in green technologies</b> applied to heat exchangers</li> <li>• Currently, ≈ 53.5% of sales are already based on refrigerants with low GWP to stem climate change</li> <li>• New <b>Eurovent</b> certification for CO<sup>2</sup></li> <li>• ESG rating</li> </ul>
<ul style="list-style-type: none"> <li>• Electrification</li> <li>• Decarbonization</li> </ul>	<ul style="list-style-type: none"> <li>• Heat exchangers for <b>heat-pump</b> applications</li> <li>• Special application for <b>district heating</b></li> </ul>
Acceleration of digitalization	<ul style="list-style-type: none"> <li>• Focus on data center market</li> <li>• Application of IoT to all range of products</li> </ul>
The increasing value of food security, pharma storage and e-commerce	Focus on mobile applications and logistic centers
Major attention to comfort and indoor air quality in public and private buildings	Special solutions for indoor air quality optimization
Reassess international supply chains	LUBE production footprint provides clients with resilient supply without sacrificing competitiveness

# Track Record of Profitable Organic Growth and Acquisitions



\* LU-VE fondata nell'ottobre del 1985  
Metalluve assorbita da LU-VE nel 2016  
LU-VE Changshu sostituita da LU-VE Tianmen nel 2018  
Tecnair ceduta nel 2022

# Strategy

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## Create sustainable competitive advantage through:

- Product focus and innovation
- Technology enhancements
- Production plants efficiency and flexibility
- First mover in "green tech"

## Reduce risk profile through:

- Widening product applications in uncorrelated sectors
- Increasing internationalization

## Geographical focus

- USA
- Asia
- Developing countries

## Disciplined M&A activity (industrial focus and valuation)



# LU-VE's Medium Term Value Creation Framework

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- High Single Digit growth in sales volume (organic)
- EBITDA margin toward 14/15% thanks to scale and efficiency capex
- NWC on sales: Mid Double Digit (net of extraordinary fluctuation)
- Growth capex: € 20/30 m p.a.
- Tax rate: 20-21%
- ESG targets in progress
- Capital allocation
  - NFD/EBITDA <2
  - Growth capex
  - Steady / smooth dividend policy
  - M&A: up to 3x leverage if required by strategic M&A (dry powder: € 70/80 m + target debt capacity)



# Pillars of a Sustainable Competitive Advantage



Sources	LU-VE business model
Technological Advantage	<ul style="list-style-type: none"> <li>• Patent and tech innovation</li> <li>• Leadership in R&amp;D: laboratories / CFD / nanotechnologies / IOT</li> </ul>
Cost advantage	<ul style="list-style-type: none"> <li>• Market leadership: ca. 50% <sup>(1)</sup> of sales are in market segments where Lu-Ve is market leader</li> <li>• Production plants in LCC: Poland, India, China, Russia and Czech Republic</li> <li>• The highest level of capex in the sector to increase productivity, automation, product quality</li> </ul>
Switching costs	<ul style="list-style-type: none"> <li>• Co-design with clients</li> <li>• Long term customer cooperation: customers with more than 5 years of business relationship represent 65/70% of total sales</li> <li>• Lu-Ve supplies performance critical components, but with limited cost incidence vs customers machineries/installations total costs</li> </ul>
Efficient scale	<ul style="list-style-type: none"> <li>• One of the 3 largest worldwide producers of air heat exchangers</li> <li>• Leader in Europe in heat exchanger</li> </ul>
Network effect	<ul style="list-style-type: none"> <li>• Lu-Ve customers benefit from Lu-Ve experience in thousand of applications fields of air heat exchangers, helping them to identify specific solutions for their refrigeration/cooling problems</li> </ul>

(1) Company's estimates





OVER 600 YEARS OF EXPERIENCE  
IN HEAT EXCHANGER TECHNOLOGY





# Organization: 20 Production Units



## PRODUCTION UNITS



Czech Republic  
Italy  
India  
Poland  
Russia  
USA



Italy  
Poland  
Russia  
China



Italy  
Finland  
Poland  
India



Sweden



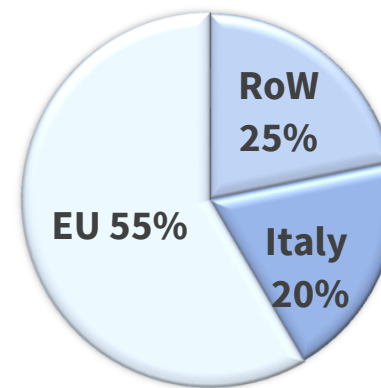
Italy



Italy



- Over 1.080.000 sqm. total surface area (300,000 sqm. covered)
- Over 3,605 sqm. of R&D Laboratories, and a large climatic chamber
- About 4000 employees
- LU-VE sells its products in more than 100 countries
- Diversified blue-chip customers









Breakdown of sales  
by geographical area  
(2023)

## 34 SALES COMPANIES

- AUSTRIA – VIENNA
- BENELUX – BREDU-UCCL
- CHINA – TIANMEN-CHANGZHOU
- CZECH REPUBLIC - NOVOSLEDY
- DENMARK - AARHUS
- FINLAND - VANTAA
- FRANCE - LYON
- GERMANY – STUTTGART
- INDIA – NEW DELHI/PUNE
- ITALIA
- NORWAY - OSLO
- POLAND – WARSAW/GLIWICE
- RUSSIA – MOSCOW / LIPETSK
- SOUTH KOREA -SEUL
- SPAIN – MADRID
- SWEDEN - ASARUM
- UK/EIRE – LONDON/FAREHAM HANTS
- THAILAND – BANGKOK
- VIETNAM – HCM CITY
- UAE – DUBAI
- USA – JACKSONVILLE

# Metal Price Impact on Profitability

Sale contract	Main application	Metal influence on product price	Metal fluctuation management
Frame contracts	Mainly in the Components SBU	Mechanical price adjustment through formulas linked to the metal publicly available quotation  Impact 	<ul style="list-style-type: none"> <li>Price adjusted through formulas linked to metal publicly available quotation (average last quarter / half a year)</li> <li>Profitability protection through systematic physical hedging (short order-to-delivery cycle)</li> </ul> Impact 
Predetermined delivery date	Project driven orders ( <i>mainly cooling system SBU: industrial application, power gen etc.</i> )	Technology and design are the main elements of the solution offered Lower impact by metal price  Impact 	<ul style="list-style-type: none"> <li>Pricing locked-in at order intake</li> <li>Profitability protection through systematic physical hedging (long order- to-delivery cycle)</li> </ul> Impact 
Standard products	Products sold by catalogs with zero or limited customization	Higher impact of metal prices  Impact 	<ul style="list-style-type: none"> <li>Pricing managed through price lists, thus leading to some delay</li> <li>Competitive pressure may impact on the delay of price adjustment</li> <li>Hedging based on forecasted volumes rather than orders</li> </ul> Impact 

(1) Impact: hig



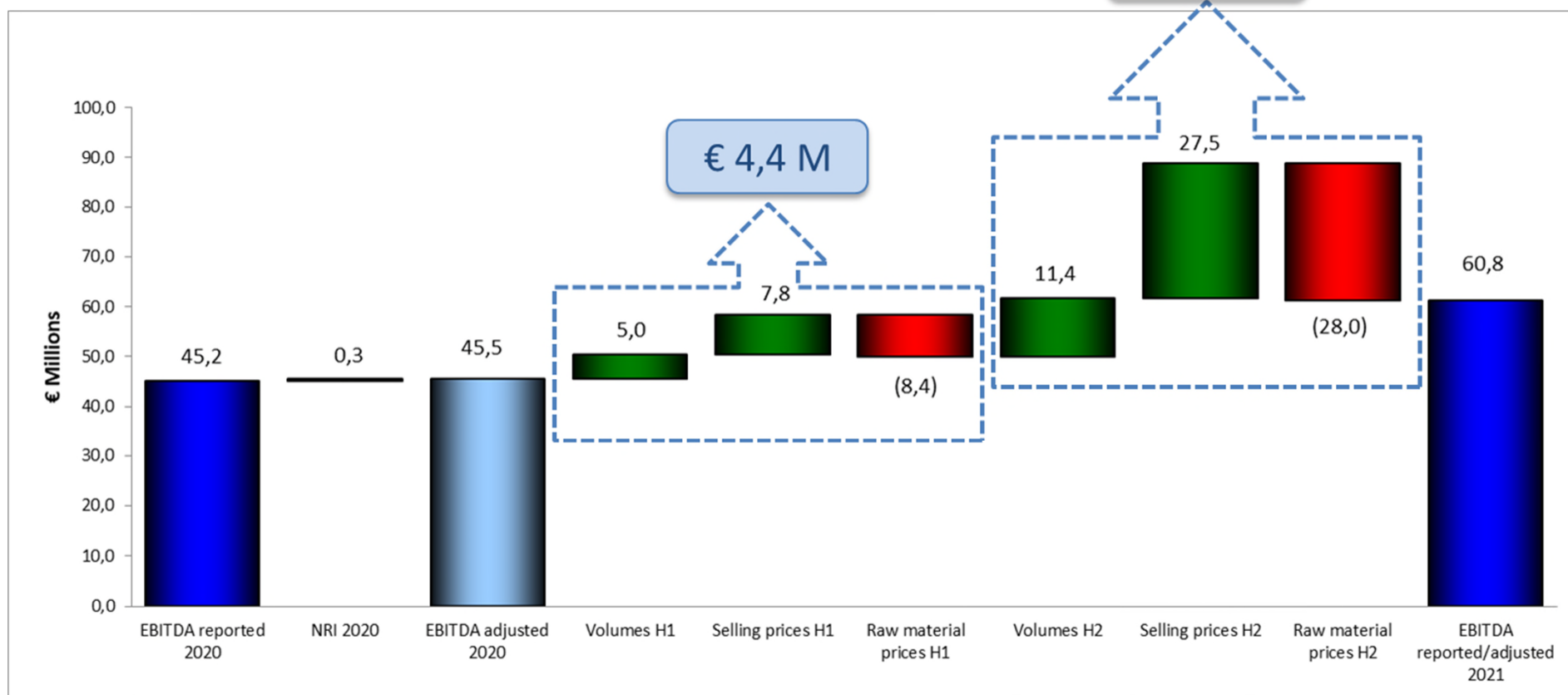
Lov



# The Pricing Power in 2021



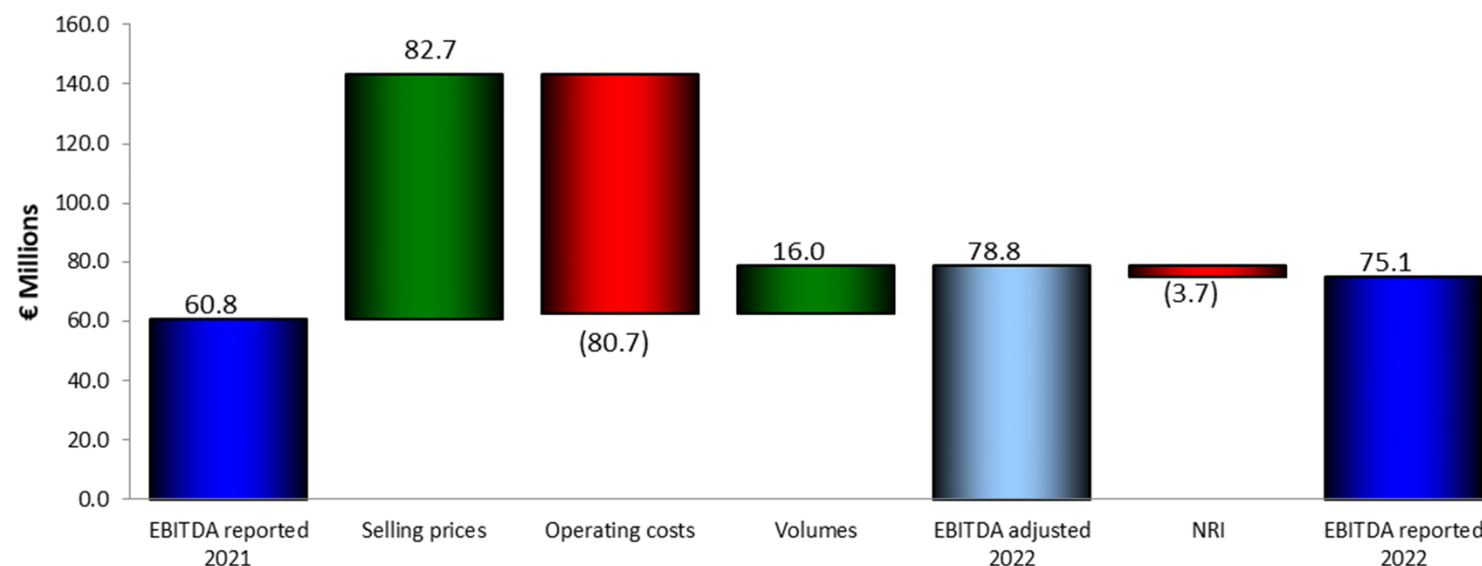
H1 + H2 2021





# The Pricing Power in 2022

## EBITDA FY 2022 vs 2021 + 29.6%

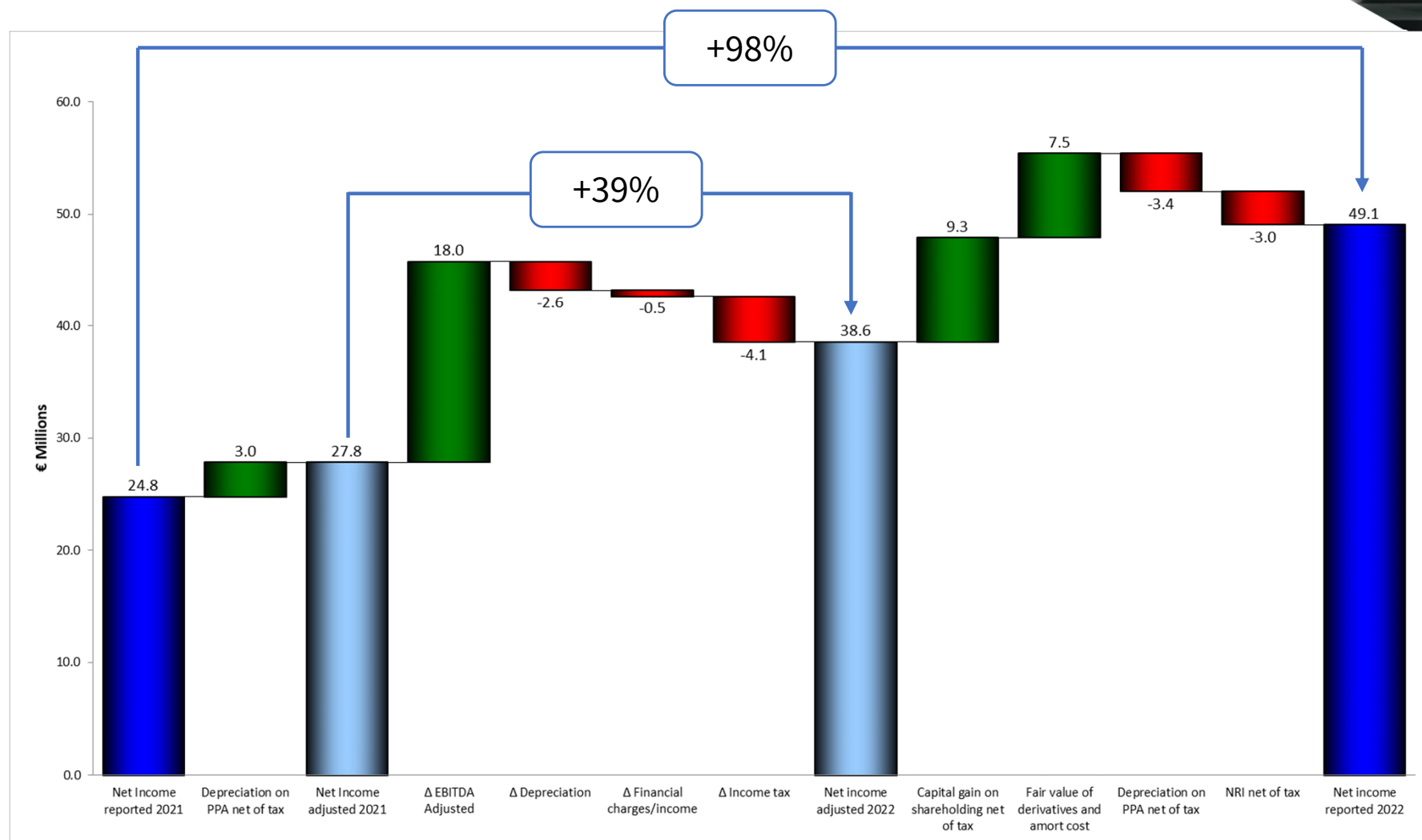


- EBITDA adjusted grew by 29.6% thanks to volumes increase and pricing power
- In 2022, non-recurring items are M&A transaction costs and extraordinary bonuses to employees (no adjustments in 2021)

(1) Due to rounding, numbers presented throughout this chart may not add up precisely to the totals provided  
(2) Source: management analysis of consolidated results as of 31/12/2022

# 2022 Net income – Net income adjusted

## Net income bridge analysis



- (1) Due to rounding, numbers presented throughout this chart may not add up precisely to the totals provided
- (2) Source: management analysis of consolidated results as of 31/12/2022

# Performance since IPO (2015)

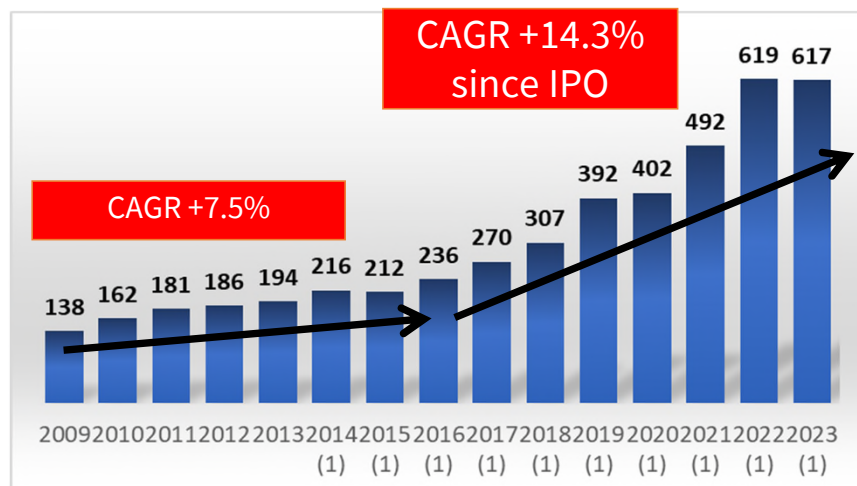


Strategic targets identified since 2015		Actual results: 2015 – 2023		
Organic growth (CAGR)	5/6% p.a.	CAGR	Organic	Total
		Sales	10.5%	14.3%
		EBITDA	11.2%	15.0%
NWC	Strict control	10-15% on sales In 22/23 temporary increase of safety stock due to uncertain supply chain		
Growth Capex		€ 113 M		
Geographic expansion	Asia - USA	5 new plants in Poland, China and USA Doubled plant in India		
Acquisitions		4 strategic acquisitions € 122 m invested		

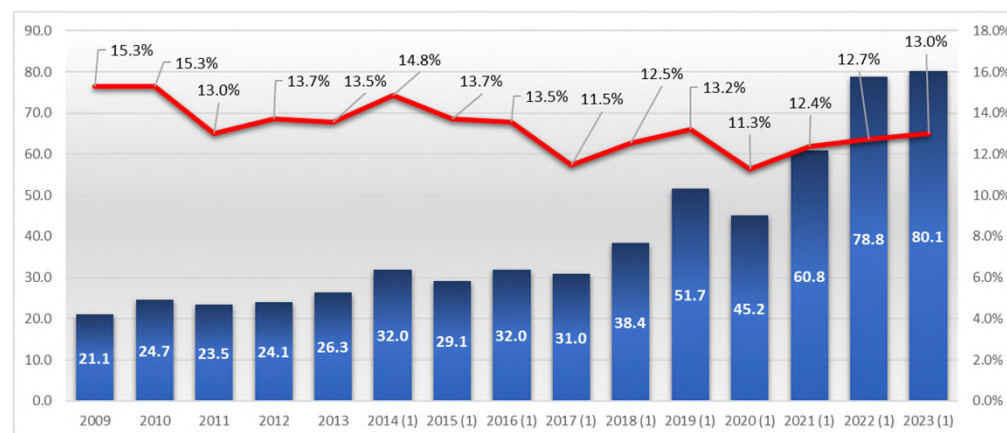


# Financial Highlights

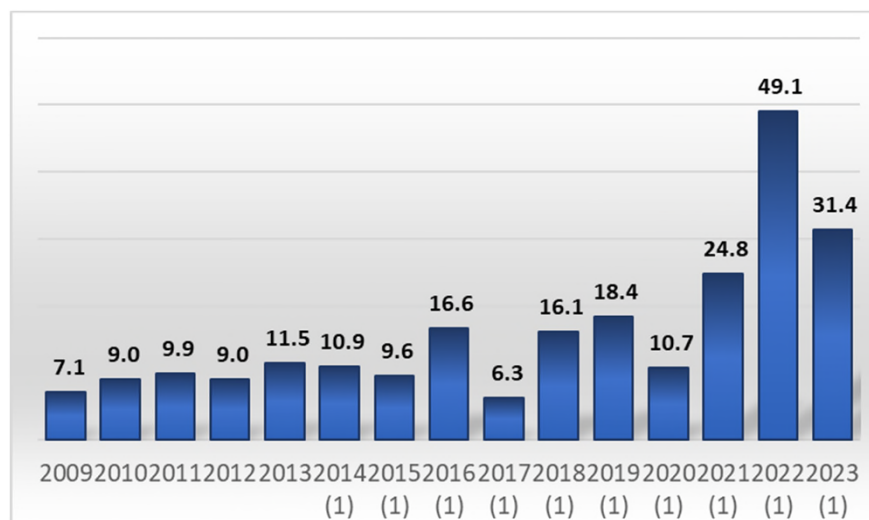
Turnover 2009-2023



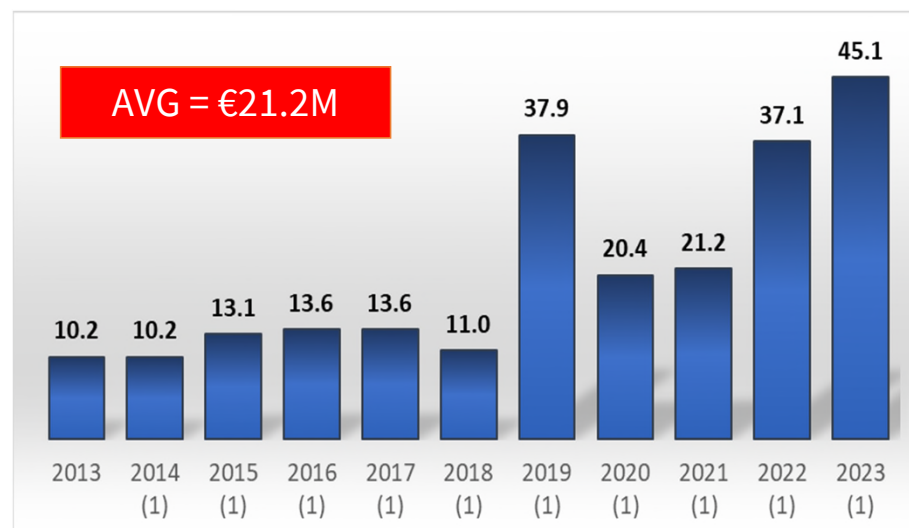
EBITDA ADJ <sup>(2)</sup> 2009-2023



Net Income reported 2009-2023

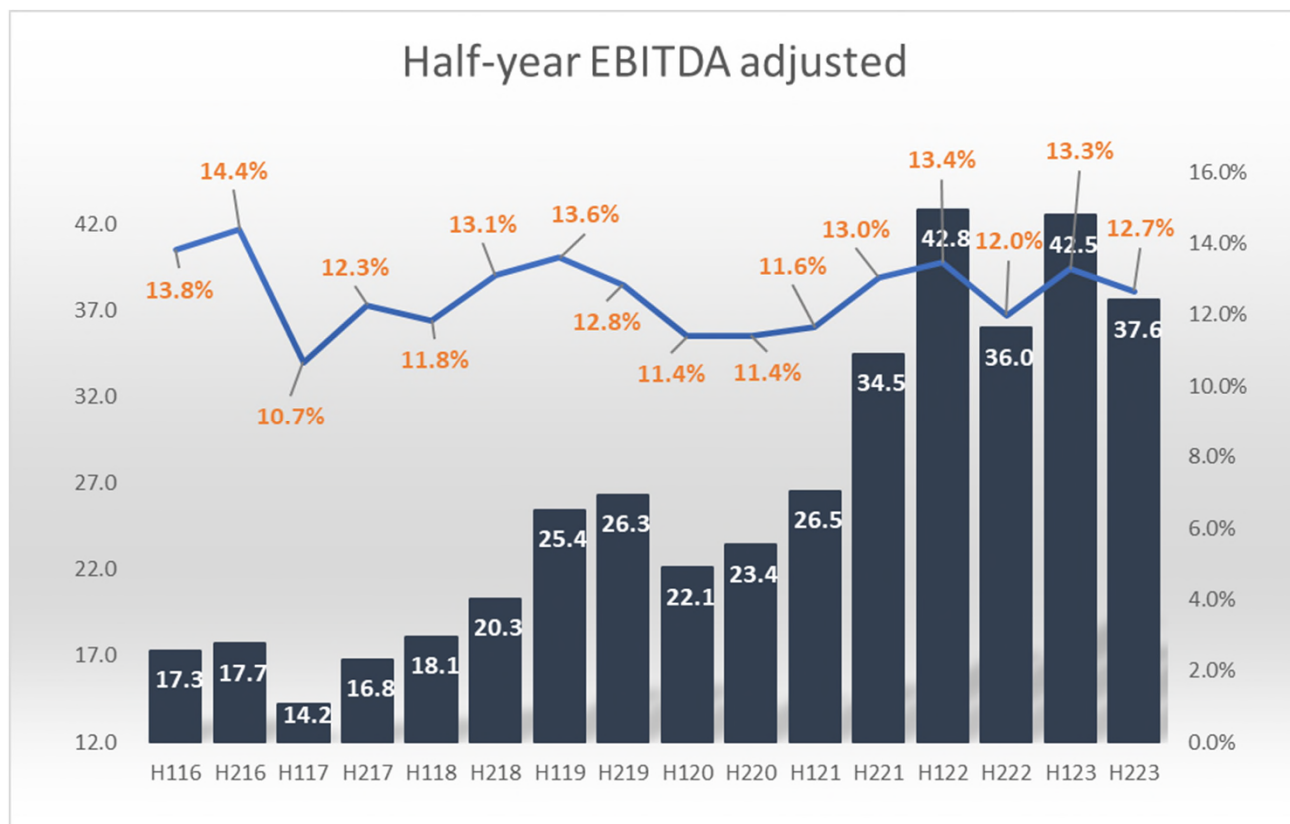


Net Cash Generation ADJ <sup>(2)</sup> 2013-2023



- All data in € millions
- (1) 2014-2023 based on IFRS – 2009-2013 based on ITA GAAP
- (2) Adjustments to exclude non-recurring items

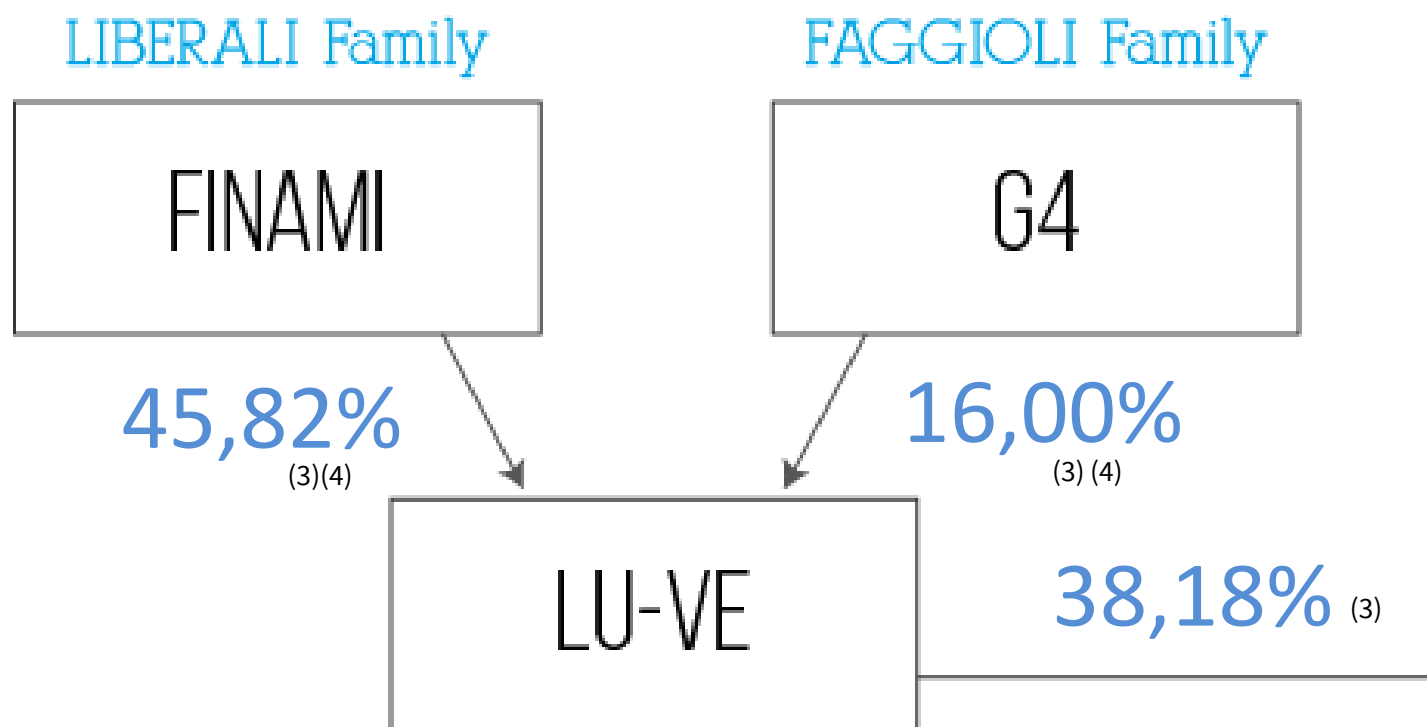
# Resilient business model and improving profitability



- Since H2 2019, dilutive effect on margin percentage due to lower profitability of AL AIR ( $\approx 125$ bps)
- In 2020 impact of Covid and lockdown
- In H1-20, volumes decreased by 10.4% LFL due to lockdown
- In 2021, volumes increased by 14.7%
- In 2022, volumes increased by 8.9%
- In H2-22 impact on profitability due to safety stock
- Effect on metal inflation margin 90 bps in 2021 and 160 bps in 2022
- On 2023 cost saving program started in H2 with first results already achieved

- 1) All data in € million
- 2) H1 2016 proforma to include Spirotech which has been acquired in October 2016
- 3) ZHT is consolidated since H2 2018
- 4) AL Air is consolidated since 1st of May 2019
- 5) Refrion consolidated since 1st of April 2022 – Tecnaïr deconsolidated since 1st of April 2022

# Shareholders Structure <sup>(1)</sup>



(1) Fully diluted – post warrant conversion at end of May 2017

(2) Updated as of as of March 5<sup>th</sup>, 2024

(3) Based on number of shares

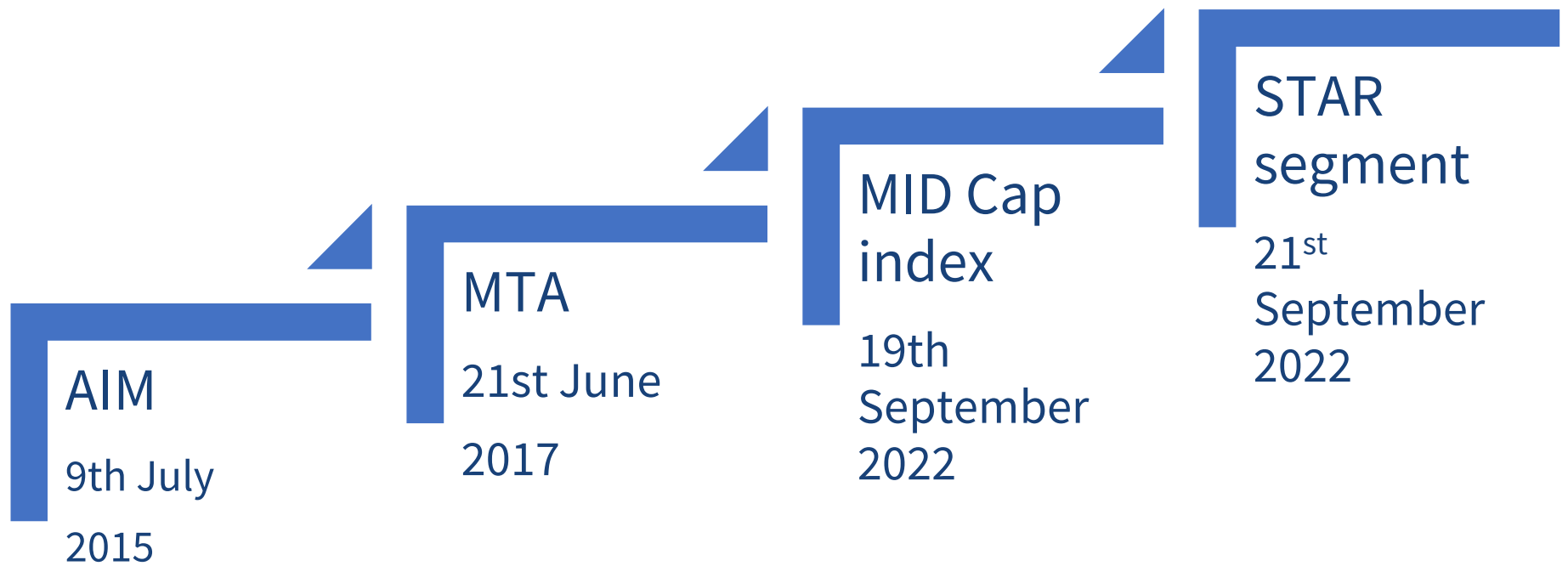
(4) Thanks to the Loyalty Share Program (2 years ownership) as of March 5<sup>th</sup>, 2024, Finami owns 50,9% of voting rights and G4 owns 14,3% of voting rights

(5) Treasury shares as of as of December 31<sup>st</sup>, 2024, 0,13% of share capital



# LU-VE presence on the Italian Stock Exchange

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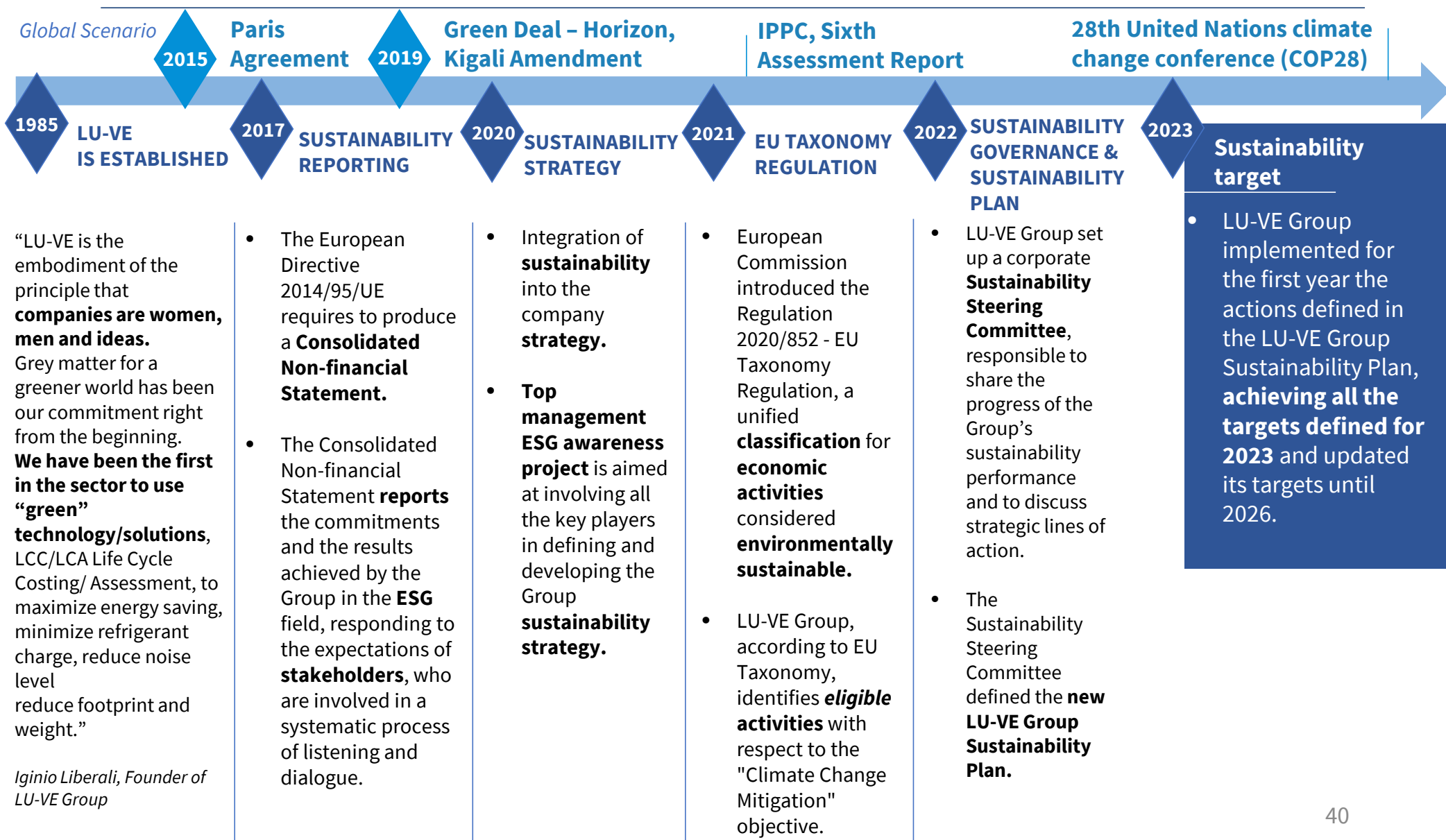




# ESG



# LU-VE Group Approach to ESG Topics





# Social Impact of LU-VE Group solutions



## FOOD SAFETY

Today, some three billion people lack safe and healthy food. The development of sustainable and technologically advanced cold chains is essential for the processing, storage, preservation, distribution and, ultimately, the increased availability of safe food for ever larger segments of the population.

### LU-VE group commitment

A proper cold chain ensures safe and properly stored food and reduces food waste.

50%



## CLIMATE WELL-BEING

The demand for air conditioning is growing internationally due to population growth, urbanisation rates and the demand for a better quality of life, especially in the warmer areas of the world.

Indoor climate comfort in buildings is an important element of people's health and well-being and quality of life

25%



## ENERGY EFFICIENCY

On average, air conditioning and cooling accounts for around 15% of electricity demand globally, with peaks of up to 50%. Mitigating the resulting environmental impacts involves improving energy efficiency standards by 50% by 2030.

### LU-VE group commitment

Maximising the energy efficiency of factories, buildings and systems is crucial for protecting the planet, reducing environmental impact and improving businesses' competitiveness.

18%



## DIGITAL TRANSFORMATION

The international digitalisation process also touches on cloud computing. This strong impetus implies an increasing focus on the energy consumption of data centres, which currently account for 1% of the world total in terms of environmental sustainability.

Operational and efficient data centres are a prerequisite for a country's digital transformation

7%



*\*respect Group's total turnover in 2023*

# Our Vision in 4 pillars is aligned to the SDGs



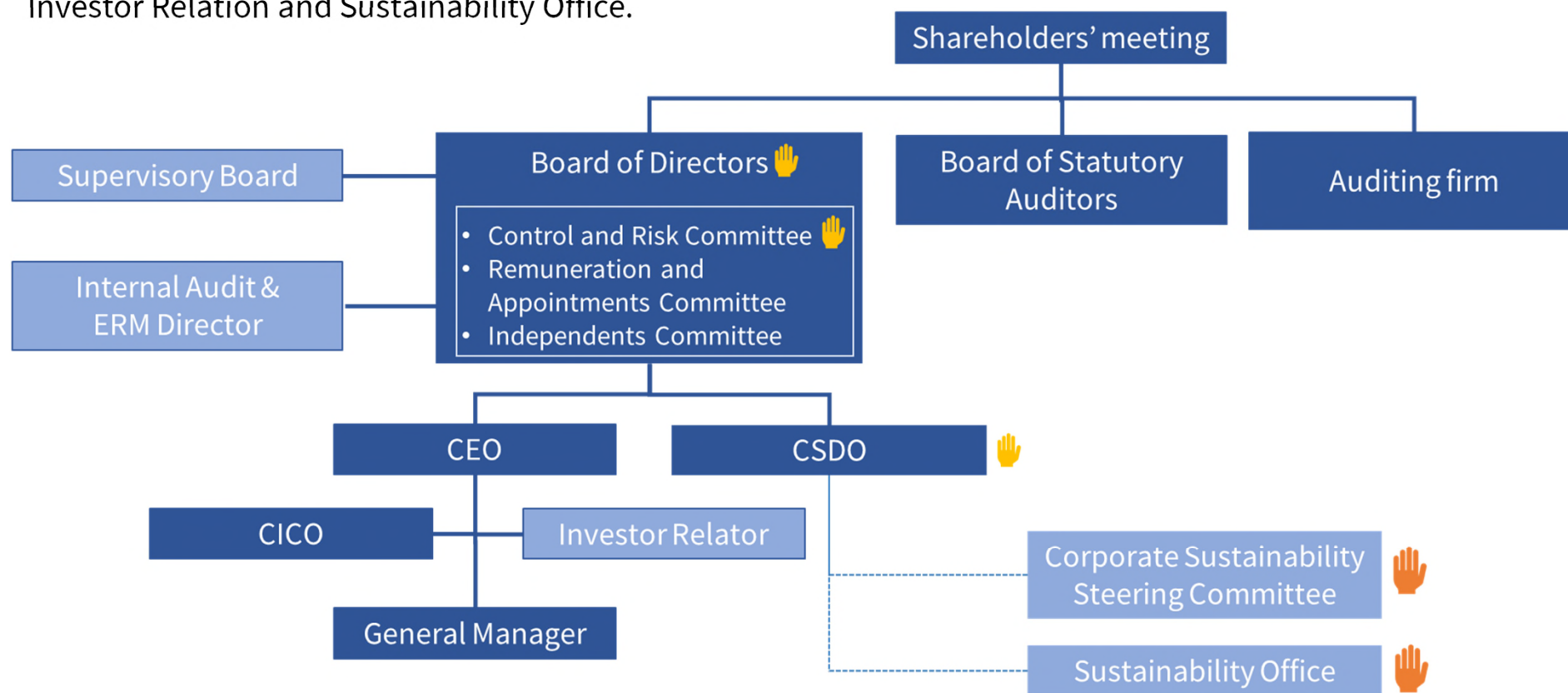
**Our vision** is linked to the **material topics** that we pursue so that this vision can take shape in the real world. The **Sustainable Development Goals (SDGs)** have been defined at global level by **the United Nations** to identify global priorities for development by the end of 2030.



# The Sustainability Governance



**In 2022 LU-VE Group set up a corporate Sustainability Steering Committee:** this is where the strategic lines will be plotted and the progress of our performance will be evaluated. The new figure of Group General Manager (GM), introduced in 2023, has been also involved in the Corporate Sustainability Steering Committee which is regularly attended by CEO, CSDO, DG, CFLO, Investor Relation and Sustainability Office.





# The Sustainability Plan



## LU-VE GROUP SUSTAINABILITY PLAN (extract)

### GOALS

### POSITIONING AND SUSTAINABILITY PLAN

#### Integrated sustainability of the business plan

LU-VE Group has integrated sustainability levers and objectives into its business plan

- Strategies for growth and long-term value creation
- Corporate ethics and integrity
- Support for local communities
- Responsible supply chain

#### Climate neutrality

LU-VE Group has identified actions and objectives to reduce environmental impacts along the entire value chain, from procurement to use of the product capable of increasing business competitiveness

- Climate change
- Resource and waste management
- Products with reduced environmental impact

#### High engagement

LU-VE Group adopts forceful policies that promote the well-being of workers and the enhancement of diversity with the final goal of ensuring the worker engagement and increased productivity

- Workers' well-being and safety
- Attraction and development of talent

#### Products with a positive impact

LU-VE Group develops sustainable solutions and promotes the positive impact of its products in the four business impact areas: food safety, climate well-being, energy efficiency and digital transformation

- Research, development and innovation
- Customer orientation
- Food safety and waste

During 2023, LU-VE Group implemented for the **first year** the **2023-2025 sustainability plan**, drawn up by the corporate Steering Committee of Sustainability, examined by the Control and Risk Committee and approved by the Board of Directors in February 2023.

**The plan was subsequently updated, including the 2026 targets.**

The sustainability key performance indicators and sustainability targets are reported in the Sustainability Report/ Non Financial Disclosure.

# EU Taxonomy and the eligible activities of the LU-VE Group



**LU-VE Group's activities eligible to the EU Taxonomy, because of its contribution to the objectives: «Climate Change Mitigation» (CCM) - Delegated Regulation (EU) 2023/2485 and «Transition to a circular economy» (CE) - Delegated Regulation (EU) 2023/2486:**

- Heat exchangers with high energy efficiency - CCM 3.5
- Products using CO2 as a refrigerant fluid - CCM 3.6
- Products using other natural refrigerant fluids (hydrocarbons, ammonia, glycol water) - CCM 3.6
- Transport by motorbikes, cars and light commercial vehicles - CCM 6.5
- Constructions of new buildings – *new activity* - CCM 7.1 + CE 3.1
- Renovation and efficiency of buildings –*new activity* - CCM 7.2, 7.3, 7.6 + CE 3.2
- R&D team and laboratory - CCM 9.1
- Consulting activities – *new activity* - CCM 9.3

LU-VE Group – Eligibility data	KPI	2023 <i>with new interpretation criteria</i>	2023 <i>in line with 2022 criteria</i>	2022
	Turnover	34.7%	53.6%	50.7%
	CAPEX	29.3%	46.2%	37.3%
	OPEX	36.4%	54.7%	52.1%



Considering new regulatory interpretations, LU-VE Group assessed to reduce its percentage share of eligible economic activity with respect to the criteria of the Taxonomy, excluding the share of production and sale of heat exchangers of the Components Business Unit (which designs and develops components and not finished products).

Even though LU-VE Group's components contribute significantly to the high energy performance of the finished products, **it was prudently considered to exclude these components, pending any updates to the regulations.**

# Climate Risks analysis for the Business Plan 2023-2026



## PHYSICAL CLIMATE RISKS ANALYSIS

- LU-VE Group already required a risk assessment for its production facilities in 2022. This analysis is considered up-to-date and also applicable for the financial year 2023 as it is based on **IPCC (Intergovernmental Panel on Climate Change)** scenarios, categories of physical climate risks, calculation methodologies and time horizons still in line with the state of the art and the context in which the Group operates.
- The different future scenarios were based on internationally recognised climate models based on greenhouse gas concentration pathways (Representative Concentration Pathways - RPC) developed by the **IPCC** with particular reference to the **RCP 2.6 and RCP 4.5 scenarios**. Considering the time frame, the simulations were performed with a **horizon up to 2035**.
- The analysis showed that the risks that will have the greatest influence on the Group are **temperature variability, intense precipitation and precipitation variability**. Vice versa, the exposure to certain other risks, e.g. drought and fire risk, are not expected to be material to the Group's operating assets.

## TRANSITION CLIMATE RISKS - Analysis update

- The various types of risk - market, technological, legal/policy and reputation - have been evaluated according to their potential impact on the business and the Group's ability to cope with them over time. As an example, market risks related to **increases in production and transport costs**, due to specific market conditions and the introduction of new regulations (such as Carbon Border Adjustment Mechanism at European level) have been assessed, as well as the **demand for products with less emission impact** also due to the tightening of regulations and directives aligned to climate policies, such as the F-Gas Regulation (the new revision of which was published in February 2024).



# Helping Customers Reach their Sustainability goals



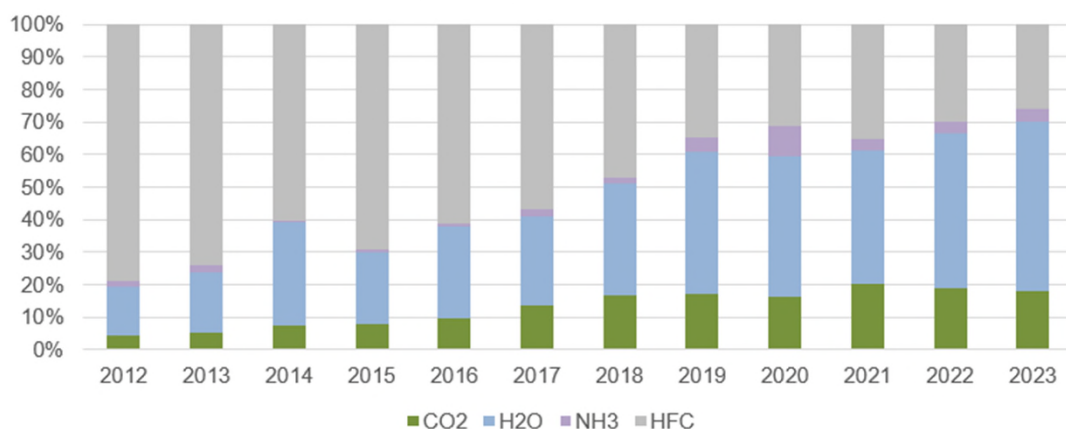
## FIRST MOVER IN GREEN TECH

Over the last 10 years, LU-VE Group's technological leadership has been strengthened thanks to the development fluids and energy-efficient motors.

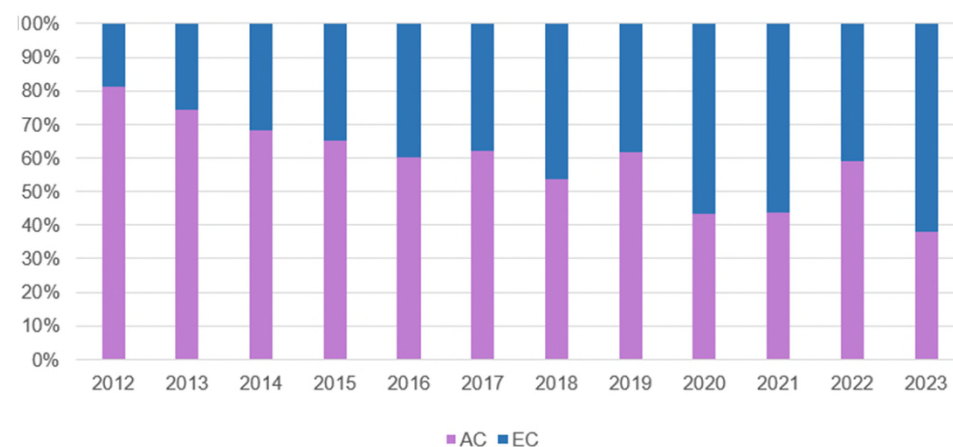


LU-VE GROUP FOR CO<sub>2</sub>

% of sales of products by type of refrigerants



% of sales with EC/AC motors



The graph “% of sales with EC/AC motors” shows for 2022 a trend reversal due to the contingent lack of electronic components found in EC motors that has forced the market to opt for AC motors (that do not contain these components).

# Decarbonisation and heat pumps



- Heat pumps are a decisive element for achieving the goal of **zero “net carbon emissions”**
- LU-VE Group has designed special products to make the **best use** of heat sources for heat pumps: thus supporting this market which in 2022 recorded a **strong growth**

## HEAT PUMPS FOR DISTRICT HEATING

- LU-VE Group conducted an experimental campaign in 2022 on a variety of aerodynamic layouts of a plant in Denmark and contributed to the development of a new configuration of coolers capable of **reducing the energy consumption of the heat exchanger by up to 21%**.
- The full results were presented during the “**Gustav Lorenzen**” international conference, the most important on natural refrigerant fluids.



## HEAT PUMPS FOR RESIDENTIAL USE

- **LU-VE Group made R&D activities on seeking solutions capable of reducing the load of specific refrigerant fluids for the use of R290 when presenting the 4mm diameter tube at Chillventa 2022.**
- This innovation endows LU-VE Group products with the highest performance in terms of both yield and sustainability.



Heat pumps allow heat to be extracted from a **natural source** (air, water or ground) and make it available at the desired temperature. They also allow recovery of the residual heat, which can then be used for heating to increase the **system's efficiency**





M&A



# M&A activity (2015- 2022)

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## Four acquisitions completed

Sales acquired: € 145 m <sup>(1)</sup>

Amount invested: € 122 m <sup>(1)</sup>

Average EBITDA multiple paid = 7.0x <sup>(1)</sup>

## ACC Wanbao asset deal



<sup>(1)</sup> Including Refrion acquired on 30 March 2022

# Refrion (Italy) (2022)

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## Main financial terms

- Acquisition completed on 30<sup>th</sup> of March 2022
- Acquisition of 75%, plus put&call on the remaining 25% within 5 years
- Cash out at closing equal to € 8.1 M
- EBITDA multiple = **7,35x** average 2020/2021 adjusted EBITDA
- **Financial highlights 2021:**
  - Sales = € 26 M
  - EBITDA = € 2.7 M

## Strategic rationale

- Refrion specializes in the production and marketing of air heat exchangers with **adiabatic technology**, which enables reductions to be made in energy consumption, water consumption, and noise emissions
- Technology of heat exchangers with **oval tubes**
- Limited customer **overlapping**
- Heat exchangers for **nuclear plants**
- One of the largest **climatic test chambers** in Europe



# ACC (Italy) (2022)

## Main financial terms

- Transaction completed on 29<sup>th</sup> of July 2022
- Contracting of selected assets and employees of former ACC under receivership (based on Belluno – Italy)
- Total capex on the site up to € 9 M in 3 years
- Hiring a certain number of former blue collars of ACC, benefitting from subsidies from the Italian government

## Strategic rationale

- Access to **modern industrial plant** at cheap conditions (40.000 mq)
- **Hiring skilled people** at reduced costs
- Opportunity of rationalization of **logistic activities** of the nearby plant of LU-VE



# Tecnair LV (Italy) (2022) - Divestiture

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## Main financial terms

- Transaction completed on 21<sup>st</sup> of March 2022
- Sale to Systemair of the entire participation (80%) in Tecnair LV
- **Transfer of all the employees**
- Cash-in at closing € 12,9 M
- EBITDA multiple = 12,5x 2021 adjusted EBITDA
- **Financial highlights 2021:**
  - Sales = € 12,0 M
  - EBITDA = € 1,2 M

## Strategic rationale

- **Limited integration** with the LUVE Group
- Product range in **competition** with large customers of LUVE
- Technological developments toward **outdoor machines** for data centers
- Limited growth in the last years
- Strategic **long term supply** agreement of components with Systemair

# Acquisition of Alfa Laval Air Heat Exchanger Business: Overview (2019)

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- On December 12<sup>th</sup>, 2018, Lu-Ve signed a binding contract to acquire 100% of Alfa Laval Air Heat Exchanger division (“AL Air”) of Alfa Laval Group. The acquisition was completed on April 30<sup>th</sup>, 2019 <sup>(1)</sup>
- Purchase price paid at closing amounted to €43.6m. An additional payment of €7.5m was made on April 30<sup>th</sup>, 2020.
  - 6.5x Adj. EBITDA multiple over the period 2018-2019
  - Final price agreed on February 4<sup>th</sup>, 2020
- AL Air manufactures air-cooled products for industrial process cooling, refrigeration and HVAC applications
- In the two-year period 2018-19, AL Air reported ca. €100m sales and an EBITDA margin of 8.0% with a Sales CAGR of 8.9% over the last 3-year period
- AL Air brings to Lu-Ve Group:
  - World class customers in Europe, US and India
  - 3 state-of-the-art manufacturing plants in Italy, Finland and India with ≈400 people
  - An ideal base to expand (i) market presence in the industrial cooling and refrigeration segment in Europe and (ii) production in India

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1) Subject to 2018 EBITDA review and post closing adjustments

# Acquisition of Alfa Laval Air Heat Exchanger Business: Rationale (2019)

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- Becoming the third largest player in the world in the air-cooled products
- Strengthening market position in Europe in industrial cooling business unit, achieving a leading position
- Enlargement of product applications (engine cooling, power converter and process cooling)
- Limited customers overlapping
- Strong management team with international experience
- Expansion in the Indian market related to the cold chain infrastructure
- Opportunities of synergies as result of plant specialization, marketing efforts and costs rationalization



# ZHT (USA) (2018)

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- On June 26, 2018, LUV completed the acquisition of Zyklus Heat Transfer Inc (ZHT), based in Jacksonville (Texas)
- Luve acquired 100%
- ZHT is specialized on heat exchanger for the US market
- Mr. Zachary Riddleseperger – founder and 100% owner – remains as VP Operation
- Three years earn-out scheme based on EBITDA
- 2017 turnover: USD 10.3 M
- Average growth rate previous two years: 12%
- 2017 adjusted EBITDA: USD 1.7 M (16.5%)
- At December 2017 adjusted net financial debt was USD 3,4 M
- Price paid for 100%: USD 10 M
- 2017 EBITDA multiple paid: 7,9x

Il Sole **24 ORE**

Sbarca negli Usa e acquista  
la texana Zyklus Heat Transfer



# Spirotech (India) (2016)



- Binding contract to acquire 95% of Spirotech signed on 18/9/2016
- Spirotech is a leading and fast-growing Indian producer of heat exchanger for HVAC industry, home appliances and transportation:
  - turnover of € 21 millions with an average EBITDA margin > 20%
  - doubled the turnover during the last 5 years
  - world class customers in Europe, US and India
  - strong management team with international experience
  - state of the art manufacturing plant with expansion opportunities
- Ideal base to expand production in India, to benefit from long term trend in creation and expansion of cold chain in India and Asia
- **Total consideration :**
  - 7,3x FY16 EBITDA
- **Strategic rationale of the acquisition:**
  - Expansion of Spirotech customer basis thanks to LUVE sales network
  - Expansion in the Indian market with LUVE products related to the cold chain infrastructure
  - Transfer of customers/products from other Group European plants based on logistic and technological evaluation
  - Expansion in Middle East due do the logistic advantage

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- This presentation has been prepared by LU-VE S.p.A. for information purposes only and for use in presentations of the Group's results and strategies.
- For further details on the LU-VE Group, reference should be made to publicly available information.
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**OUR BEST DAYS HAVE YET TO BE LIVED**

**Nazim Hikmet**

