



+135 years

of combined industry experience committed to delivering

Dr. Arnd Köfler

Chief Technical Officer since 01/17

- 30Y industry experience
- 10Y tk experience

Carsten Evers

Chief Financial Officer since 03/20

• 33Y tk & industry experience

Bernhard Osburg

Chief Executive Officer since 03/20

- 24Y industry experience
- 19Y tk experience

Dr. Heike Denecke-Arnold

Chief Operations Officer since 05/22

 24Y tk & industry experience

Markus Grolms

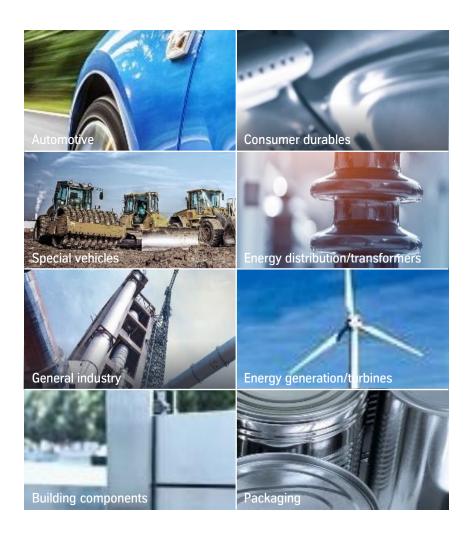
Chief Human Resources Officer since 04/20

- 26Y industry experience
- 14Y tk experience¹

Source: Company Information; 1. Including 10 years at supervisory board tk



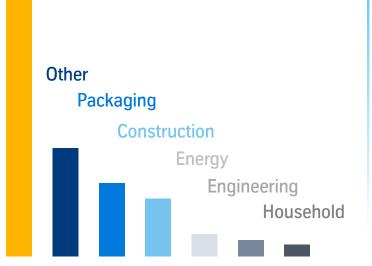
No. 2 flat steel producer in EU with broad end-market exposure



Shipments by end market (22/23)

9.4 Mt

Automotive





















+200 years of innovation continuing today and tomorrow

Track record of pioneering industrialisation and innovation



1811 - 2010

- Seamless forged and rolled railroad tires (industrial)
- Development of stainless, acid-resistant steels (industrial)
- First electrolytic steel strip tinning worldwide (packaging)
- First fully galvanized steel car body, tailored blanks & hotformed parts (automotive)
- Driving lightweight construction with "NewSteelBody" (automotive)

Source: Company Information

Future innovations and pioneering approach in shaping Green Transformation



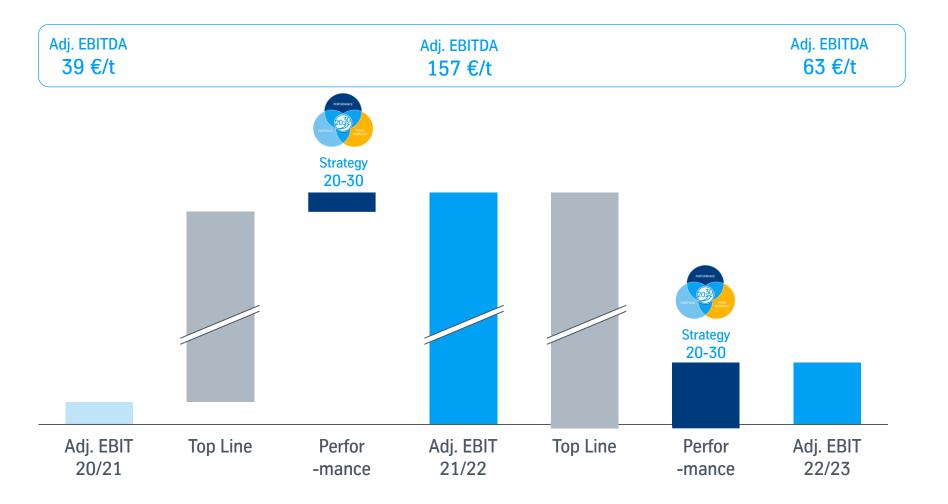
2010 - the future

- Development of high strength steels with superior surface properties; steel solutions for e-mobility
- H₂ decarbonised steel: First use of hydrogen in blast furnace
- First production of carbon-reduced steel bluemint[®] (2021)
- Innovative DRI/SAF concept: Green Steel commissioning in 2026E
- A fully green zero emission steel producer by 2045E



Effect of adverse market conditions on EBIT adj. compensated partially by impact of performance measures within Strategy 20-30

Adjusted EBIT [€ mn]



Development and drivers FY22/23

- Effect of subsequent, high raw material and energy costs in FY H1
- Deterioration of economic boundary conditions with impact on volumes and revenue in FY H2
- Execution of performance measures from Strategy 20-30 amounting to total €340 mn – in total €770 mn within 3 years



Current challenges in the economic environment require resolute management actions with strategic long-term implications

External factors

- Rising costs for input factors
- Disrupted supply chains
- Slowing down of pricing dynamics
- Transformation of markets for end-products
- Inflation combined with recession trends
- High pressure by imports



Management actions



Strategic implications



Further execution of Strategy 20-30





APEX @ Steel - identification of actions to stabilize performance in FY23/24



Accelerate green transformation by investment in DR-plant



Foster strategic partnerships with suppliers & customers

- Sustainable product portfolio offering
- Increased operational performance
- Strengthened working capital management
- Releasing cash by increased performance

- Securing market share for green steel
- Maintain technology leadership
- Leverage partnerships on profitability
- Increased resilience in supply chains



SE: Financial track record, outlook 23/24 and mid-term targets FYE 24/25

Mid-term targets confirmed

Cycle & risk-adjusted averages

	5YØ 2014-2019 ¹	19/20 ¹	20/21	21/22	22/23	23/24E	FYE 24/25
Shipments ¹ ^[Mt]	11.2	9.2	10.0	9.5	9.4	Current market uncertainties are reflected in customer demand,	~11.04
Sales [€ mn]	8,756	7,269	8,932	13,156	12,375	leading to a slight decrease in sales	
Adj. EBITDA [€ mn]	821	(480)	389	1,489	591		
A <i>dj. EBITDA</i> €/t]	73	(52)	39	157	63	Due Chalailte aire anns an tagair	~100
Adj. EBIT ∉ mn]	414	(946)	116	1.200	320	 Profitability increase to an amount for EBIT adj. in a mid three-digit € mn range 	>700
Adj. EBIT margin ^[in %]	4.7	(13.0)	1.3	9.1	2.6	(supported by APEX and S20-30)	6-7
BCF € mn]	376	(1.574)	(681)	(55)	370	Continuing high investments and lower NWC releases compared to prior year	>300
Employees ²	27,770	27,400	26,300	26,300	26,820 ³	_ prior year	

^{1.} incl. Heavy Plate, excluded as of 20/21 | 2. Without leased labor | 3. Driven by switch from contracting of former leased labor and increase due to recruitment for Green Transformation, Strategy 20-30 (e.g. annealing and isolating line and double reversing stand). Restructuring program with countervailing effects on headcount | 4. In FY24/25, 10.5Mt can be achieved due to ongoing implementation of investments. 11.0 Mt Shipments can be achieved after completion of investments and availability of full capacity



Proof Points – Major achievements up to FY22/23

Proof Points



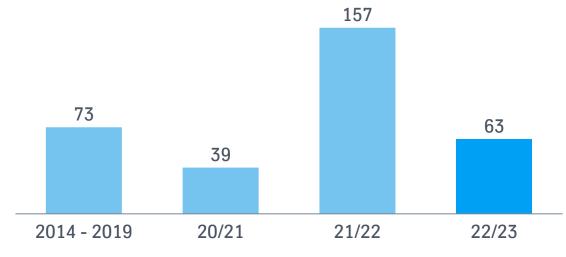
Strategy 20-30

Targets	Results achieved so far				
Performance	 Electrical Steel turnaround achieved 				
	Headcount reduction with good progress,~ 2,550 achieved so far				
	 €340 mn measure potential achieved – in total €770 mn within 3 years 				
Portfolio	~ €800 mn Capex invest initiated				
	 Walking beam furnace, hot dip galvanizing line & coating line completed 				
	 Buildup of new annealing and isolating line and double reversing stand started 				
Transformation	_ Funding volume of around €2 bn for DR-plant (2.5 Mt) confirmed				
	Green products: First bluemint® volumes successfully marketed				

EBITDA improvement

Target: ~100 €/t over the cycle

Adj. EBITDA €/t in 22/23 close to average level of 2014-2019, years with extraordinarily strong demand in the automotive industry and significantly higher shipping volumes:





Steel Europe – Investment Highlights

#1 German and #2 EU producer of premium steel products Strong strategic position in the center of Europe **Green Transformation – strong positioning in green steel market** Turnaround program in execution Core portfolio benefitting from global electrification &

decarbonization mega trends



#1 German & #2 EU producer of premium steel products – Strong positions in core segments

Excellent position in premium automotive/industrial segments in China and India

Strong position in Europe and internationally

> 1,200 customers

No. 2

Flat steel producer

> 25 years average customer relationship



No. 1 Steel producer



No. 2
Chinese automotive HDG²



Exceptional position

Only Indian producer of high-quality grain oriented electrical steel grades

Strong positioning within diverse customer segments³



Premium automotive flat steel for exposed & lightweight components



No. 2 in EU



NGO¹ for generators & engines

GO¹ for transformers



NGO No. 2 in EU



GO No. 1 in EU



Tinplate for food, beverage and aerosols



No. 1 in EU



Amongst others: trailer, cold rolling



No. 1 in EU trailer⁴



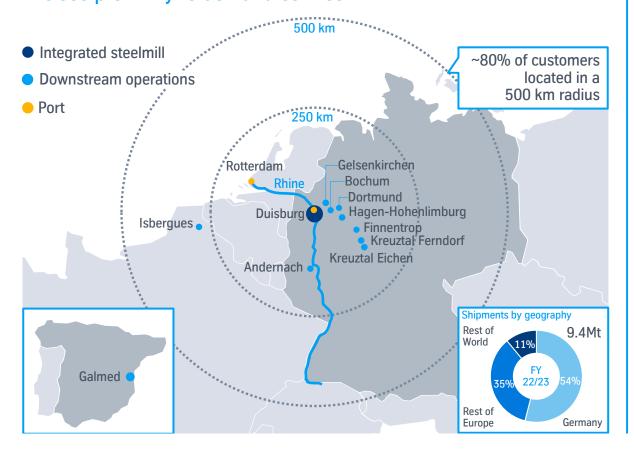
No. 1 in EU cold rolling



^{1.} NGO: Non-grain oriented electrical steel; GO: Grain oriented electrical steel; GO: Grain oriented electrical steel; Co: Grain oriented electrical steel; Co:

Largest integrated European steel mill strategically located in the centre of Europe Advantages in efficient logistics

Integrated steelworks and downstream facilities in close proximity to demand centres



Efficient supply chain implying ease of transport, rapid response and just-in-time deliveries as per customer requirements

- Easy access to deep-water Rotterdam port through the river Rhine; also owns 2nd largest bulk terminal in Europe (in Rotterdam)
- Rotterdam handles raw materials as well as finished goods shipments to rest of the world/UK/Spain
- Owns the largest Rhine barge fleet as well as specialised ships for high/low water conditions
- Owns 2 ports in Duisburg on the Rhine enabling transport to European customers through barge as well as global customers through ocean-faring ships
- Access to highly efficient German/European rail freight and road network



Green Transformation — tkSE with significant contribution to ${\rm CO_2}$ reduction targets We will play a pivotal role as facilitator of Europe's green industrial future

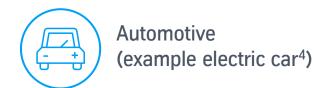
CO₂ impact of the steel industry in Germany, all approximate

65% CO₂ reduction target 2030 in Germany¹

9% tkSE's share of CO₂ emissions in NRW

tkSE's contribution to Germany CO₂ 2.5% reduction target²

Share of CO₂ material emissions³ of flat steel, all approximate



21%



Household (example washing machine⁵)

50%



Construction (example warehouse⁶)

23%

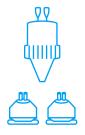
Decarbonizing tkSE's operations results in significant progress to achieve Germany's decarbonization target Europe's industry is not able to achieve its decarbonization targets without the decarbonatization of flat steel



^{1.} Greenhouse Gas reduction; Base year 1990 | 2. Base year 2020 until 2030 | 3. Scope 3 emissions | 4. Battery electric car in the c-segment | 5. Washing machine with <15kg capacity, 225kg | 6. 5,500 sgm warehouse Source: Company information

Green Transformation – Significant progress in planning and construction of first DR-plant tkSE reaffirms its leading role in decarbonization of the steel industry

Decision to invest in first DR-plant with two melting units

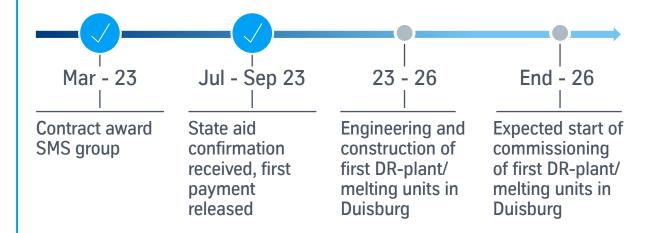


tkSE's first decarbonization step Construction of first DR-plant with two melting units

2.5 Mt DRI capacity

- Largest DR-plant for green steel in Germany will avoid the emission of >3 Mt of CO_2 p.a.
- DR-SAF route with significant benefits, e.g., downstream activities remain unaffected - securing production of highest premium steel grades

Construction and ramp-up roadmap



- Project progress according to planned timeline
- Financing of project is secured by government funding and thyssenkrupps's own contribution



Green Transformation – State aid confirmation for DR-plant received

State aid through the "Initial Grant" and "Conditional Payment" funding instruments



July 20th, 2023: Official handover of the funding grant





Funded by:

Ministry of Economic Affairs, Industry, Climate Action and Energy of the State of North Rhine-Westphali



Overview of funding conditions

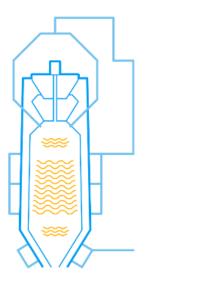
- The project will be a crucial driver of the hydrogen industry and serve as an anchor point for the development of the H₂ infrastructure within Europe
- The State Aid approval of the EU Commission allows the funding of the construction and installation of the first DR-plant and two melting units in Duisburg
- Requirement to produce 2.5 Mt DRI and 2.3 Mt hot metal
- Strong focus on using green hydrogen
- DR-plant to run on natural gas initially; complete transition to H₂ for reduction until 2029



Green Transformation – DR-SAF approach for first DR-plant

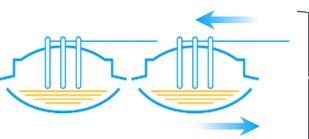
Technology set-up leads to significant advantages

Technology approach



DR-plant

Reduction of iron ore in the form of pellets to direct reduced iron using natural gas and later hydrogen



Submerged electric arc furnace

Direct reduced iron is processed into pig iron and then transferred to the established converter process

Benefit of our technology approach



Significant CO₂ savings in hot metal production by using hydrogen



Enables production of all premium grades in the current customer portfolio



Higher energy efficiency through use of "Hot-Link"



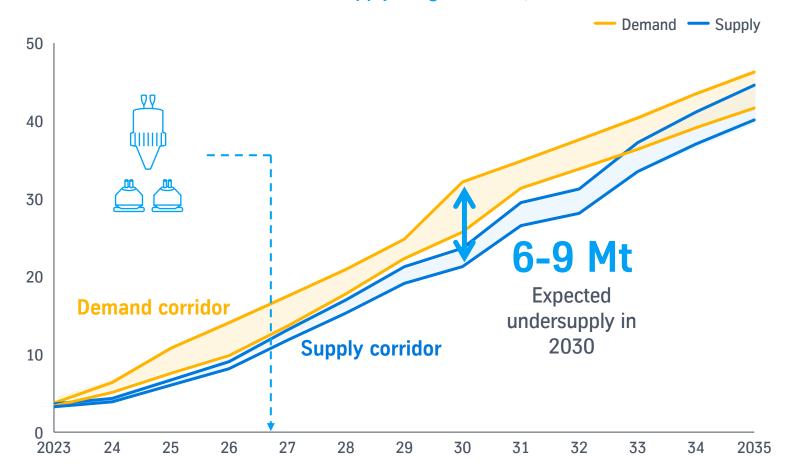
Continued use of existing steel plant processes and downstream production facilities – no new homologation for green steel products required



Green Transformation – Strong positioning of tkSE in future green steel market

Ensuring the long-term industrial value creation in the "Ruhrgebiet"

Flat steel: EU estimated demand vs. supply for green steel, Mt





Demand for green steel is expected to grow, with demand expected to exceed supply significantly from 2030 onwards



We will play a pivotal role in the EU green steel market, securing the long-term industrial value creation in the "Ruhrgebiet"



Green Transformation – Comprehensive master plan

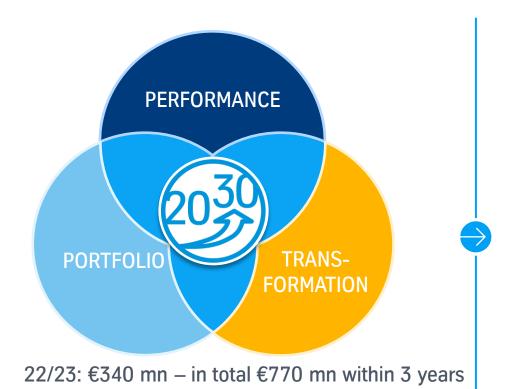
Roadmap to reduce CO₂ by >30% until 2030 and become a climate neutral steel location by 2045

from 2026 First DR plant with melting units (SAF) Removal of the first coal-based blast furnace up to 2029 2019 Hydrogen ramp-up of the first DR plant to 100 % Trialling H₂ use in the blast furnace up to 2030 Removal of the second since 2021 coal-based blast furnace before 2045 bluemint® Steel replacement by Complete implementation of the transformation DR-based Carbon-neutral steel production without coal-based technology blast furnaces incl. decarbonization of the downstream systems Avoidance of residual CO₂ emissions, e.g. through Carbon2Chem® (CCU) Available quantities of bluemint® Steel per year 2022-2025 ~ 50-500 kt/a ____ 2026 onward ~ 3 mt/a ____ 2030 onward ~ 5 mt/a ____ 2045 onward ~ 11 mt/a



Turnaround program in execution – Strategy 20-30 program underway

€770 mn measure effect until 22/23 – expected long-term EBIT improvement of ~ €1,000 mn



PERFORMANCE

Fix & close of businesses, cost reduction

- Heavy Plate business closed
- GO Electrical Steel business fixed
- Headcount reduction in execution
- Operational Excellence Programme

PORTFOLIO

Shift towards premium and focus segments backed by investments into production network

- Volume shift towards E-Mobility, Multi Phase and GO Top Grades
- ~ €800 mn Capex invest enabling production network to meet and deliver increased customer quality demands and delivering improved productivity

TRANSFORMATION

Sustainable improvements for competitive positioning

- Green Transformation
- People & Culture
- Digital Transformation

Turnaround program as key driver achieving pre-Covid-19 profitability level short-term



Long-term (E): €1,000 mn

Turnaround program in execution – ~ €800 mn Capex initiated

Investing ~ €800 mn in shift to premium and greater efficiency

Strategy 20-30

Focus premium automotive

Portfolio shift to E-Mobility and Multi Phase steel

Defend industry, packaging

Defend market position in Packaging and Industry

High performing production

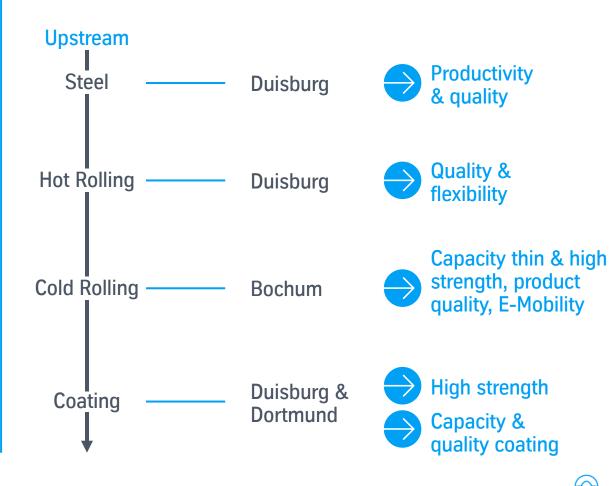
Invest in product quality, process stability and Duisburg site







Capex overview

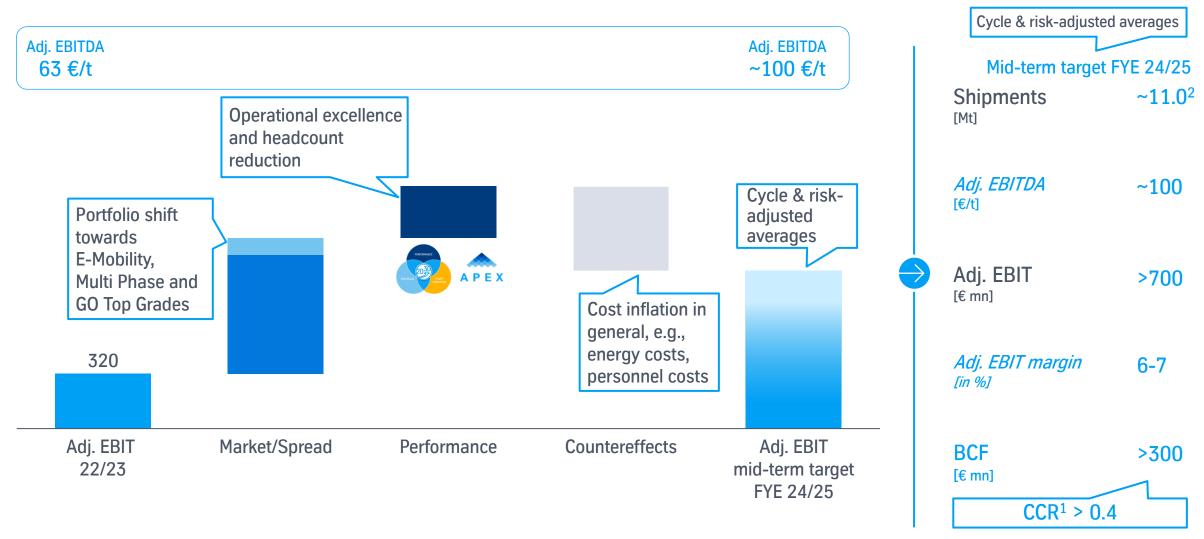


Source: Company Information



Turnaround program in execution – expected profitability improvements

Profitability improvement by Strategy 20-30 and APEX; adjusted EBIT [€ mn]



^{1.} Excl. green transformation; ratio BCF/EBIT as reported 2. In FY24/25, 10.5Mt can be achieved due to ongoing implementation of investments. 11.0 Mt Shipments can be achieved after completion of investments and availability of full capacity



Steel is durable, light & recyclable

tkSE core portfolio perfectly positioned to benefit from global electrification and decarbonization mega trends

Global megatrends		Long-term tonnage impact	Long-term impact (tkSE)
Population growth/ changing demographics		\bigotimes	\bigcirc
Urbanisation/ prosperity		\otimes	\bigcirc
Recycling/ sustainability		Key focus of tu	rnaround plan
Energy/ allied infrastructure	P	$\otimes \otimes$	$\otimes \otimes \otimes$
Electrification		$\otimes \otimes$	$\otimes \otimes \otimes$
Light weighting		\otimes	$\otimes \otimes$

Electrification and decarbonization in particular benefitting tkSE

Steel infinitely recyclable

Recyclable without losses in EAF and Blast Furnace — magnetic properties simplify separation and allows high recycling quotas

Increasing flat material usage per vehicle in EVs¹



ICE² ~780 kg



BEV³ ~980 kg



High-strength steel is used for lightweight construction within automotive industry to reduce energy consumption and to increase crash resistance



GO⁴ Electrical Steel for renewables and grid ~ 3x increase in global demand (2021-50)⁶



NGO⁵ Electrical Steel in engines >6x increase in usage in EU (2020-30)





Mid-term outlook slowly recovering – restrained short-term growth rates

Regulatory and governmental activities influencing demand

Restrained short-term outlook but moderate mid-term growth...





...regulatory/govt.² policies influencing demand and cyclicality



- CBAM⁵ will enter into application in its transitional phase on 1 October 2023
- Anti-dumping duties in place against China and other key export nations into EU
- Further import sanctions against Russia active



- Decarbonization and emission controls capping steel production; "peak steel" in 2030
- In the short term no major production cuts ordered in view of the weak economy



- Global Arrangement on Sustainable Steel and Aluminum (GSSA) to address the common global challenge of excess capacity⁶
- Impacts from US Inflation Reduction Act 2022
- Lower production costs resulting in competitive advantage for US companies reducing attractiveness of imported products



^{1.} IMF – GDP, constant prices (10/2023) | 2. Govt: Government | 3. S&P Global Mobility, LV production (09/2023) | 4. www.recisionreports.co – "Infrastructure Construction Market" Research Report 2023 | 5. CBAM: Carbon Border Adjustment Mechanism | 6. According to latest news agreement could not be reached in October 2023. Formation of a full trade treaty unlikely until the postponed deadline in December 2023. Final outcome uncertain.

Solid track record in ESG governance and steering – Ambitious future goals are set

ENVIRONMENTAL

A clear route to decarbonize steelmaking

CO₂ emissions¹

-30%

Target 2030

-100%

Target 2045

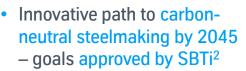
Amount of CO₂ reduced steel per year

5 Mt

Target 2030

~11.0 Mt

Target latest 2045



 Launch of first CO₂ reduced product in October 2021

SOCIAL

A safe and inclusive workspace for our employees

Accident rate³

4.9

2.2

Fatalities

0

22/23 T

0

3 Target 22/23

Female share in senior mgmt.4

10.9% 9.6%

22/23

Target 24/25

Disable-employee share⁵

8.2%

22/23

- Highest standards applied to ensure safety of workforce
- Commitment to create inclusive & diverse workspace

GOVERNANCE

A compliant and ethical company

Transparent reporting standards⁶

- Sustainability reporting integr. in annual report
- UN Global Compact
- Task Force on Climate-related fin. disclosures
- Global Reporting Initiative

ESG criteria in variable long term compensation⁷

~30%

e.g. OSH⁸, female share in senior mgmt., CO₂ reduced steel volume

- Compliant with all DCGK⁹ recommendations
- Sustainable corporate management ensured through link of ESG criteria to executive compensation



^{1.} Base year 2018 | 2. Science Based Targets Initiative; tk group level | 3. 1 to n lost days per 1 million hours worked | 4. Share of females in A-L3 positions | 5. 31.12.2022, Germany | 6. tk group level 7. Part of variable compensation, see more details in compensation report | 8. Occupational safety & health | 9. Deutscher Corporate Governance Kodex; tk group level

Steel Europe: Committed to realizing sustainable shareholder value

Execute and further deliver Strategy 20-30

€770 mn measure volume achieved until 22/23

Realize break through in Green Transformation

Funding volume of around €2 bn for DR-plant (2.5 Mt) confirmed

Deliver EBITDA margins and cash flow targets

EBITDA/t of 63 €/t achieved despite unfavorable market conditions

Leverage and enhance technological leadership

~ €800 mn Capex invest program implemented





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