ENVIRONMENTAL INFORMATION · ESRS E1

Climate change

Climate change mitigation and energy are material for Tarnholm Group, maker of aluminium extrusions and fabricated components at 7 plants in Finland, Germany, Poland and Spain. In 2025, our Scope 1 and 2 emissions were 26% below the 2022 base year, on the way to our target of −50% by 2030.

IMPACT

Most of our emissions come from the primary aluminium we buy and from the natural gas that melts and heats the metal in our plants.

RISK

The main transition risks are the cost of EU ETS allowances at our two cast houses and CBAM charges on aluminium imported from outside the EU.

OPPORTUNITY

Demand for low-carbon and recycled aluminium in facades, rail and e-mobility is growing faster than our market.

Total GHG emissions

758.4 $ktCO_2e$

−5.1% vs 2024
Market-based

Scope 1 and 2

−26.0%

vs 2022 base year, market-based
Target −50% by 2030

Renewable electricity

53.9%

Target 100% by 2030
Contractual instruments and solar

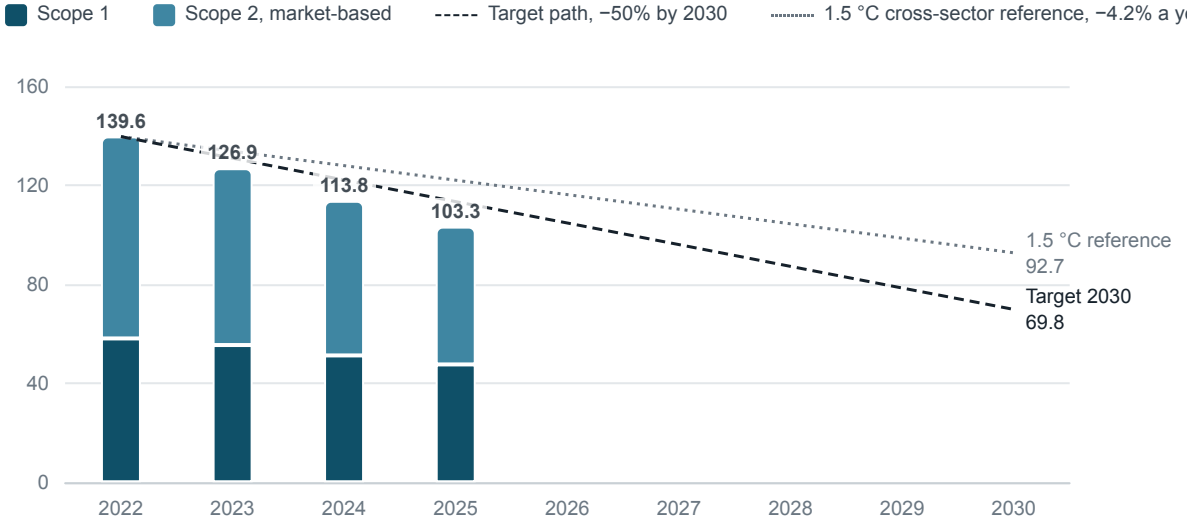
GHG intensity

1,201 t per €m

−10.1% vs 2024
tCO_2e per € million of net revenue

Scope 1 and 2 emissions against our 2030 target

$ktCO_2e$, market-based, base year 2022



Total GHG emissions by scope, 2025

758,389 tCO_2e, market-based



Scope 1 47,566 t 6.3%

Scope 2 55,723 t 7.3%

Scope 3 655,100 t 86.4%

E1-6 Gross Scopes 1, 2, 3 and total GHG emissions

tCO_2e unless stated

	Retrospective				Target	
	2022 base year	2024	2025	% 2025 / 2024	2030	Annual % target / base year
Scope 1 GHG emissions						
Gross Scope 1 GHG emissions[1]	58,060	51,238	47,566	−7.2%		
Percentage of Scope 1 GHG emissions from regulated emission trading schemes[2] (%)	64.0	63.8	63.2			
Scope 2 GHG emissions						
Gross location-based Scope 2 GHG emissions[3]	74,320	64,257	65,579	+2.1%		
Gross market-based Scope 2 GHG emissions[3]	81,587	62,512	55,723	−10.9%		
Scope 1 and 2 GHG emissions, market-based	**139,647**	**113,750**	**103,289**	**−9.2%**	**69,824**	**−6.25%**
Significant Scope 3 GHG emissions[4]						
Total gross indirect (Scope 3) GHG emissions	**829,300**	**685,600**	**655,100**	**−4.4%**	**539,045**	**−4.38%**
1 Purchased goods and services	712,400	571,300	548,600	−4.0%		
2 Capital goods	19,800	27,300	18,900	−30.8%		
3 Fuel- and energy-related activities	24,100	21,200	20,600	−2.8%		
4 Upstream transportation and distribution	31,200	27,900	28,400	+1.8%		
5 Waste generated in operations	3,400	2,900	2,800	−3.4%		
6 Business travel	1,700	2,300	2,200	−4.3%		
7 Employee commuting	5,900	5,600	5,500	−1.8%		
9 Downstream transportation and distribution	11,300	10,100	10,400	+3.0%		
10 Processing of sold products	16,900	14,600	15,200	+4.1%		
12 End-of-life treatment of sold products	2,600	2,400	2,500	+4.2%		
Total GHG emissions						
Total GHG emissions, location-based	**961,680**	**801,095**	**768,245**	**−4.1%**		
Total GHG emissions, market-based	**968,947**	**799,350**	**758,389**	**−5.1%**	**608,869**	**−4.65%**

1 Stationary and mobile combustion and refrigerant leaks of the consolidated group. The Group has no associates, joint ventures or other investees under operational control. Scope 1 includes no biogenic CO_2.

2 Emissions of the two cast houses covered by the EU Emissions Trading System, monitored under the EU ETS methodology.

3 Location-based: national grid average emission factors. Market-based: Guarantees of Origin and power purchase agreements that meet the Scope 2 quality criteria of the GHG Protocol, and residual mix factors for the rest of the electricity.

4 Significant categories by magnitude, spend and influence: 1, 2, 3, 4, 9, 10. The others are reported for completeness. Category 1 uses supplier-specific cradle-to-gate factors for purchased aluminium and average-data factors for other materials, category 2 is spend-based, and categories 4 and 9 are distance-based. 41% of Scope 3 emissions are calculated with primary data from suppliers and logistics providers. Categories excluded: 8 Upstream leased assets (leased warehouses and offices are under operational control and reported in Scopes 1 and 2). 11 Use of sold products (extruded profiles and components use no energy, so they have no direct use-phase emissions). 13 Downstream leased assets (the Group leases no assets to third parties). 14 Franchises (the Group has no franchises). 15 Investments (the Group holds no investments outside its consolidated scope).

5 Revenue in the consolidated income statement (note 4, Revenue).

E1-6 Gross Scopes 1, 2, 3 and total GHG emissions continued

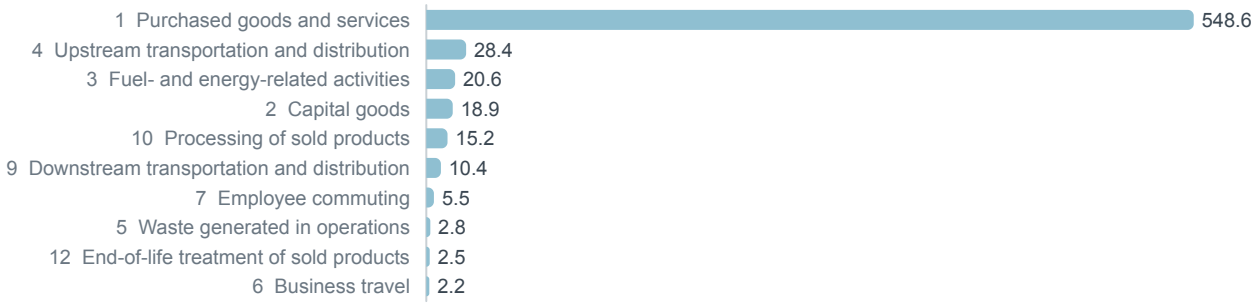
GHG intensity per net revenue

tCO_2e per € million

Intensity	2024	2025	% 2025 / 2024
Total GHG emissions, location-based, per net revenue	1,338.7	1,216.2	−9.2%
Total GHG emissions, market-based, per net revenue	1,335.8	1,200.6	−10.1%
Net revenue used to calculate GHG intensity (€ million)[5]	598.4	631.7	+5.6%

Scope 3 emissions by category, 2025

$ktCO_2e$, categories in the inventory



E1-4 Targets related to climate change

Base year 2022

GHG emission reduction target	Scope covered	2022 tCO_2e	2025 tCO_2e	Change vs 2022	Target tCO_2e	Year
Scope 1 and 2 GHG emissions, market-based	Scopes 1 and 2, 7 GHGs	139,647	103,289	−26.0%	69,824 (−50%)	2030
Scope 3 GHG emissions	Categories 1 to 15	829,300	655,100	−21.0%	539,045 (−35%)	2030
Total GHG emissions, net zero	Scopes 1, 2 and 3	968,947	758,389	−21.7%	96,895 (−90%)	2050

The targets are gross targets: they exclude GHG removals, carbon credits and avoided emissions. The 2022 base year is representative: all seven plants ran at normal capacity, and no acquisition or disposal has changed the boundary since. The Scope 1 and 2 target cuts emissions by 6.25% of the base year each year, faster than the 1.5 °C cross-sector reference of 4.2% a year, which gives a reference value of 92,726 tCO_2e in 2030. The targets cover the seven Kyoto gases and the boundary of the GHG inventory, and they are not externally assured. Other target: 100% renewable electricity by 2030, 53.9% in 2025.

Decarbonisation levers to 2030

Expected reduction against the 2022 base year

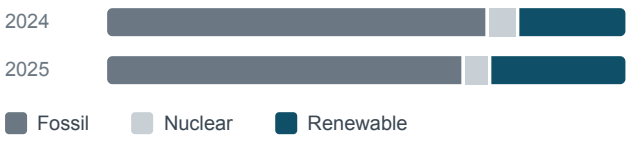
Lever	Scope	tCO_2e by 2030
Renewable electricity through power purchase agreements and Guarantees of Origin	2	40,600
Electrification of the homogenising and ageing furnaces	1, 2	15,600
Heat recovery and burner upgrades in the cast houses	1	10,900
Electric forklifts and on-site vehicles	1	2,700
Recycled content raised from 38% to 60% of the metal we use	3	188,000
Low-carbon primary aluminium from smelters powered by hydropower	3	92,000
Rail and renewable diesel for inbound metal	3	10,300
Total expected reduction		**360,100**

E1-5 Energy consumption and mix

MWh, net calorific value

Energy consumption and mix	2024	2025
(1) Fuel consumption from coal and coal products	0	0
(2) Fuel consumption from crude oil and petroleum products	8,600	7,700
(3) Fuel consumption from natural gas	239,600	222,800
(4) Fuel consumption from other fossil sources	0	0
(5) Consumption of purchased or acquired electricity, heat, steam and cooling from fossil sources	89,540	81,812
(6) Total fossil energy consumption	**337,740**	**312,312**
Share of fossil sources in total energy consumption	74.3%	69.5%
(7) Consumption from nuclear sources	**22,385**	**19,191**
Share of consumption from nuclear sources in total energy consumption	4.9%	4.3%
(8) Fuel consumption for renewable sources, including biomass, biogas and renewable hydrogen	0	0
(9) Consumption of purchased or acquired electricity, heat, steam and cooling from renewable sources	91,575	113,897
(10) Consumption of self-generated non-fuel renewable energy	2,600	4,100
(11) Total renewable energy consumption	**94,175**	**117,997**
Share of renewable sources in total energy consumption	20.7%	26.3%
Total energy consumption	**454,300**	**449,500**

Energy mix



Energy intensity per net revenue

MWh per € million	2024	2025
Activities in high climate impact sectors[6]	759.2	711.6

Basis of preparation. This section is part of the sustainability statement of Tarnholm Oyj, prepared in accordance with the European Sustainability Reporting Standards (ESRS) set out in Commission Delegated Regulation (EU) 2023/2772, as amended by Commission Delegated Regulation (EU) 2025/1416. It covers the same consolidated group as the financial statements.

GHG accounting. GHG Protocol Corporate Standard (2004), Scope 2 Guidance (2015) and Corporate Value Chain (Scope 3) Standard (2011). The inventory covers the seven Kyoto gases with the 100-year global warming potentials of the IPCC Sixth Assessment Report. No structural change in 2025 required a recalculation of the base year.

Energy. Energy consumed in the processes the Group owns or controls, within the boundary of Scopes 1 and 2. Purchased electricity counts as renewable only when a contractual instrument proves its origin, as in the market-based Scope 2 method.

6 NACE C24.42 Aluminium production and C25.11 Manufacture of metal structures: 100% of net revenue (note 4, Revenue).

Independent limited assurance report

Saarnio Assurance Oy, the independent assurance provider, performs a limited assurance engagement on this sustainability statement under ISAE 3000 (Revised). Its report is inserted here once signed.

Expected 3 March 2026