

Kuinka Valmet on sitouttanut toimittajiaan päästövähennyksiin

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VP Supply Chain

Topics

- This is Valmet
- 360° ESG agenda
- Climate program
 - Emissions
 - Recycled & low-CO₂ steel
 - Engaging suppliers
 - Tools
 - Best practices
- Outcomes



This is Jani Suomalainen

Passionate about sustainability and leading by own example

- Head of procurement and logistics in Valmet
- 20 years supply chain experience
- Own family CO₂ emissions have reduced by 50%:

Emission types	2019	2024
Vehicle fuels	6 t/a	3 t/a
House heating	9 t/a	0 t/a
Food	8 t/a	4 t/a
Flying	15 t/a	12 t/a
Purchased electricity	10 t/a	0 t/a
Clothes, devices etc	9 t/a	10 t/a
Total emissions	57 t/a	29 t/a
Carbon capture in own forest	20 t/a	30 t/a
Net emissions	37 t/a	-1 t/a



Valmet designs, manufactures and erects machinery, consumables, valves, automation systems and spareparts for pulp, paper, board, heat & electricity producers and many other industries

Pulp mills



Revenues 5+ bn€/a
Staff 19000
Scope 1 emissions 20 kt/a

Board and paper machines



Valves



Biomass boilers



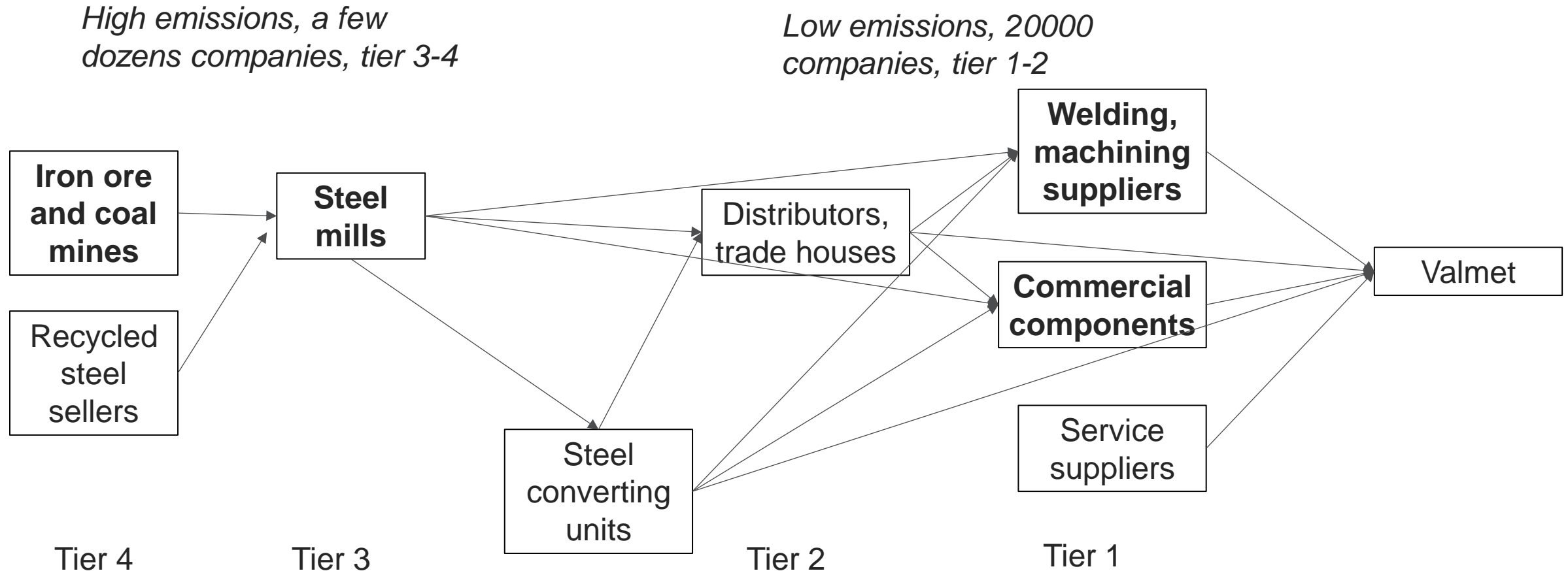
Valmet's 360° ESG agenda covers the entire value chain



Our upstream value chain is complex

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Bolded suppliers have bigger emissions → emission reductions needed



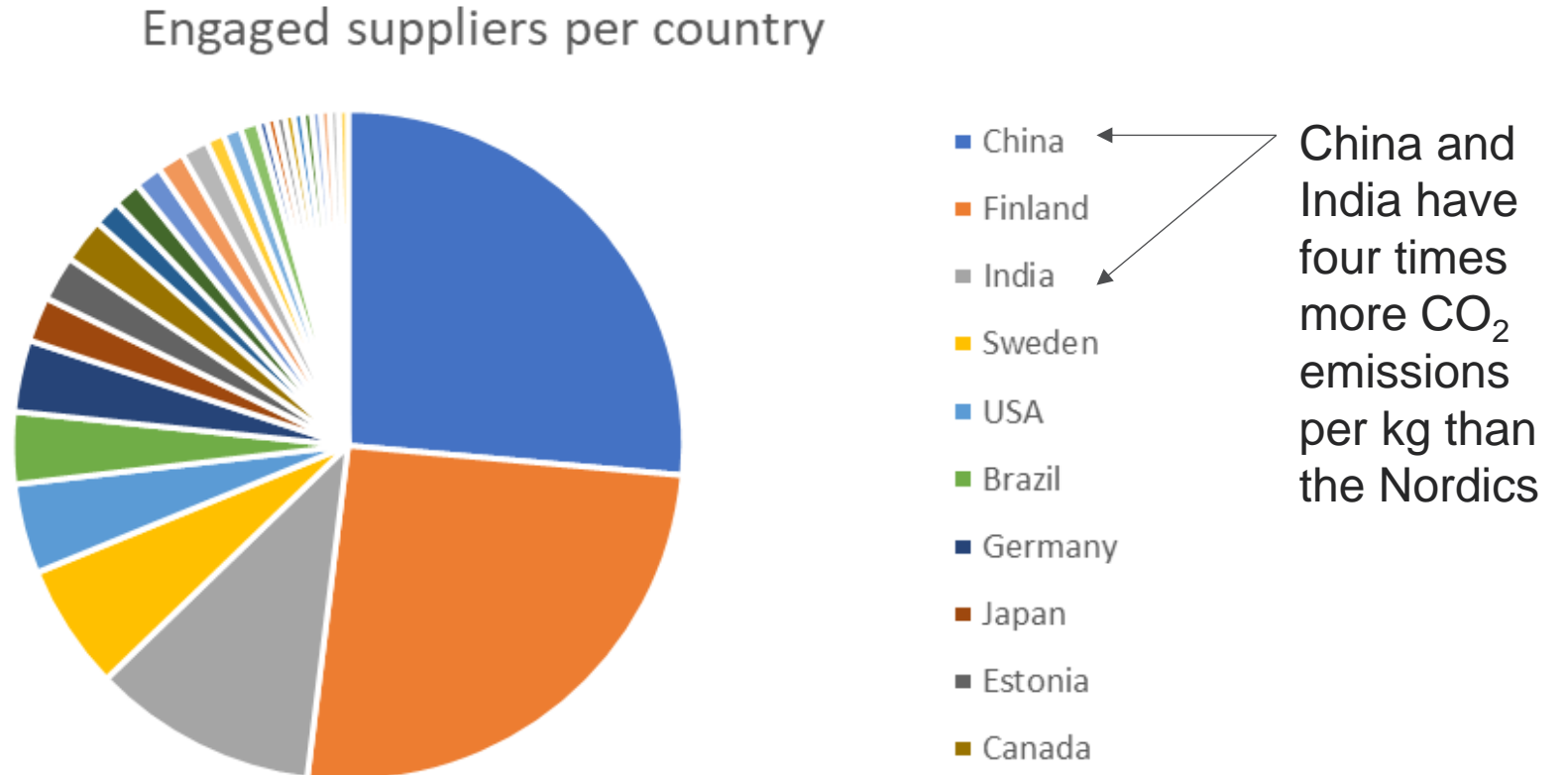
Main actions to reach -20% absolute emission reductions in upstream supply chain contain supplier engagement, recycled raw materials and logistics

Value chain: Upstream Scope 3		Base year	2030 target
	GHG emissions (1,000 tCO ₂ e)	1,600	1,300
Decarbonization lever	Supplier engagement	—	-170
	Recycled raw materials	—	-100
	Logistics	—	-30

Recycled steel

- Valmet would like to use only recycled and low-CO₂ steel but availability is limited
- Steel industry must invest hundreds of bn€ to become carbon neutral
- Global annual steel production is 2 bn tonnes while there is only 0,5 bn/a steel scrap in the circulation
- We have increased the share of recycled steel for our own foundries from 50% to 76% in 2020's, and our valves contain 90% recycled steel

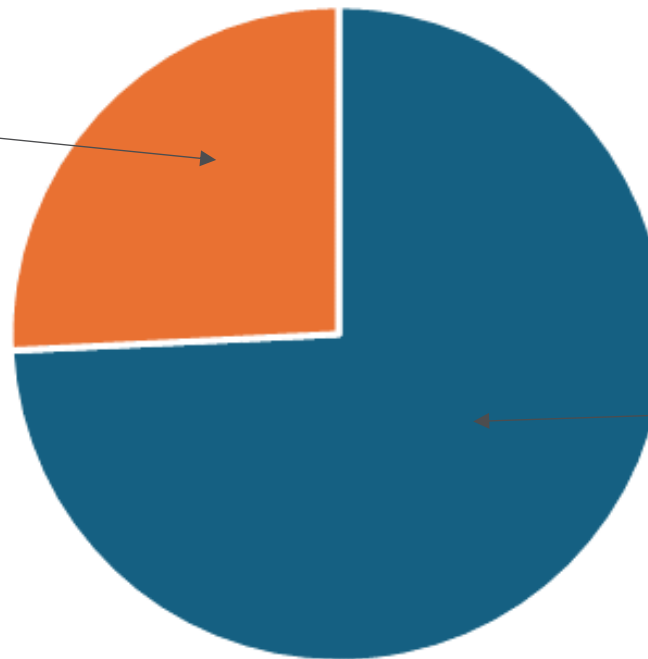
Valmet has helped and engaged 325 suppliers in 28 countries for CO₂ reduction actions – Target 500 suppliers by 2030



75% of Climate program engaged suppliers have set CO₂ reduction targets

Does the supplier have CO₂ reduction targets?

Valmet has to help and motivate these more



Valmet will follow up the progress of these, too

■ Yes ■ No

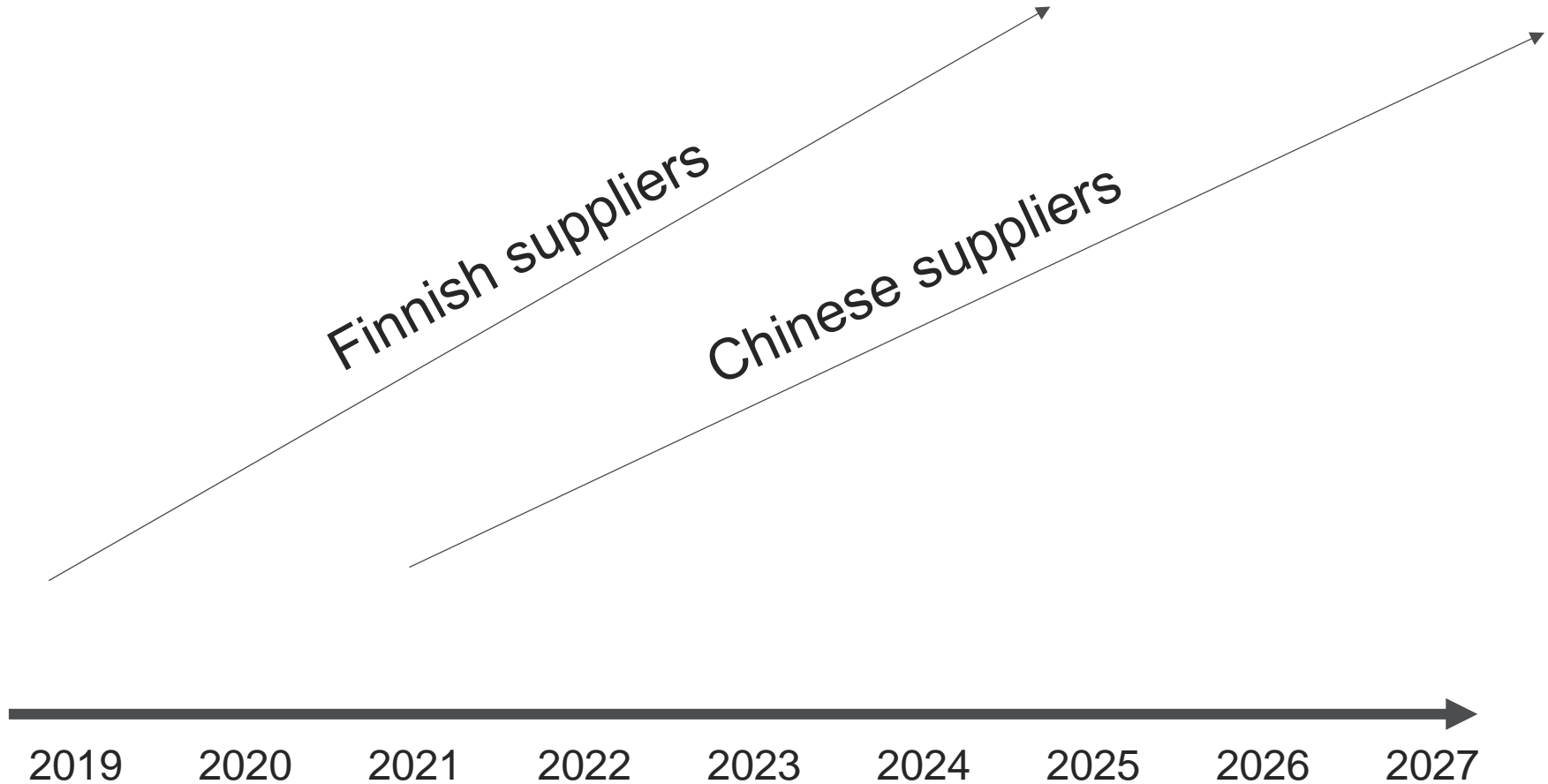
Maturity levels of Valmet's Finnish and Chinese suppliers

Tangible
results

Targets and
actions for
emission
reductions

Understanding
on emissions

No
understanding
on emissions

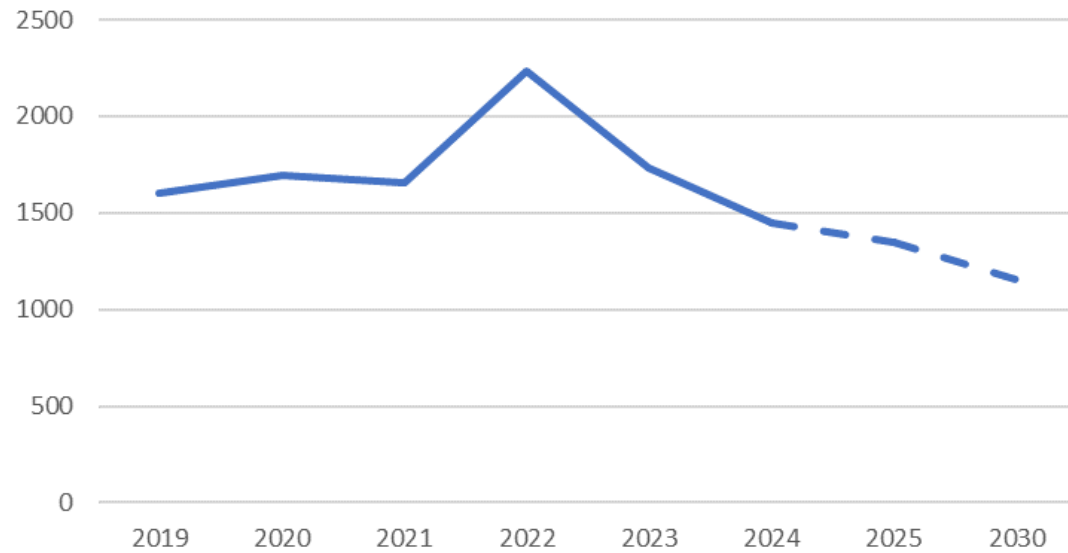


Best practice examples

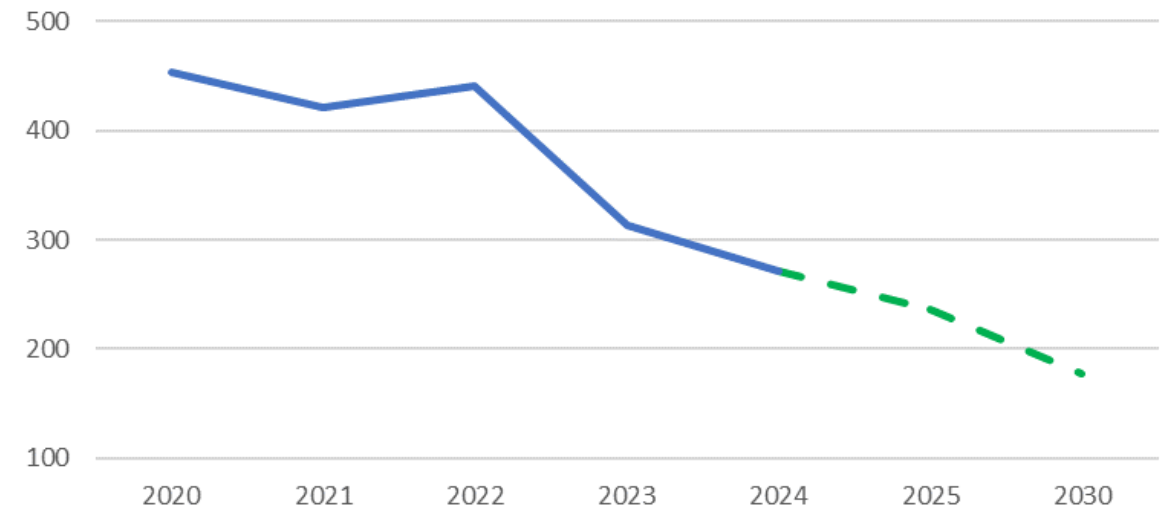
- A commercial component supplier has reduced their scope 1 and 2 emissions to zero in their Nordic factory by
 - buying CO₂-free electricity,
 - changing the heating system,
 - using e-forklifts, and
 - compensating the remaining emissions
- A power transmission supplier reduced their scope 1 and 2 emissions by 85% by
 - buying CO₂-free electricity and CO₂-free district heating

Purchased goods and services emissions have already reduced a lot vs. net sales

Scope 3 cat 1 CO2 emissions (kt/a)



Purchased goods and services CO2 intensity (tCO2/M€netsales)



Tools offered for suppliers to help reducing CO₂ emissions

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Best practice library:

Supply chain climate program best practices

- 1 CO₂-free electricity
- 2 Recycled raw materials
- 3 Renewable fuels
- 4 Lightweighting and alternative materials and methods
- 5 Payloads and freight planning
- 6 [Engage, train and follow-up your suppliers](#)
- 7 Energy efficiency
- 8 [Engage and communicate](#)
- 9 [Capture carbon](#)

E-learning:

Valmet [Home](#) [All courses](#)

Courses / Search / climate

partneracademy.valmet.com

climate

Search results: 1



Valmet Climate Training for Suppliers

Category: Sustainability

CO₂ calculator:

CO ₂ emission calculation tool		CALCULATION DATA		CO ₂ EMISSIONS AND ACTIONS		UNIT CONVERSIONS	
Steel raw materials		Steel multipliers					
Volume of European steel	10000 metric tonnes	Europe	1.8	0.9	180 000 tonnes of CO ₂ Europe		
Volume of US steel	10000 metric tonnes	USA	1.8	0.9	180 000 tonnes of CO ₂ USA		
Volume of Chinese steel	10000 metric tonnes	China	2.4	1.4	240 000 tonnes of CO ₂ China		
Volume of Indian steel	10000 metric tonnes	India	2.6	1.6	260 000 tonnes of CO ₂ India		
Volume of Brazilian steel	10000 metric tonnes	Brazil	2.1	0.9	210 000 tonnes of CO ₂ Brazil		
Share of recycled steel	50 % of all steel				50 % of total CO ₂ emissions		
Steel operations		Electricity type multipliers (CO ₂ /MWh)					
Volume of electricity	10000 MWh	China, solar, waterpower, nuclear	0		0 tonnes of CO ₂		
Volume of electricity	10000 MWh	Coal	0.24		2400 tonnes of CO ₂		
Volume of electricity	10000 MWh	Gas, gas turbine, oil	0.21		2100 tonnes of CO ₂		
Volume of electricity	10000 MWh	Natural gas	0.21		2100 tonnes of CO ₂		
Fuel type multipliers (CO ₂ /t)							
Volume of fuel	10000 tonnes (t)	Coal	95		950 000 tonnes of CO ₂		
Volume of fuel	10000 tonnes (t)	Gas, gas turbine, oil	74		740 000 tonnes of CO ₂		
Volume of fuel	10000 tonnes (t)	Gas, gas turbine, oil	74		740 000 tonnes of CO ₂		
Volume of fuel	10000 tonnes (t)	Natural gas, LPG	55		550 000 tonnes of CO ₂		
Logistics		Transport mode multipliers (gCO ₂ /t-km)					
Distance from supplier to client	10000 km	Truck	200		2000 tonnes of CO ₂		
Distance from supplier to client	10000 km	Sea vessel	100		1000 tonnes of CO ₂		
Distance from supplier to client	10000 km	Plane	1000		10000 tonnes of CO ₂		
Distance from supplier to client	10000 km	Train	50		500 tonnes of CO ₂		
Emissions = steel operations + logistics							
Supplier's carbon footprint							

Valmet has received external awards for its sustainability progress^{INTERNAL}

- European Institute for Purchasing Management (EIPM):



- European Chamber of Commerce in Shanghai:



Thank you!
Questions or comments please!

