ENVIRONMENTAL STATEMENT 2023

ENVIRONMENTAL STATEMENT 2023

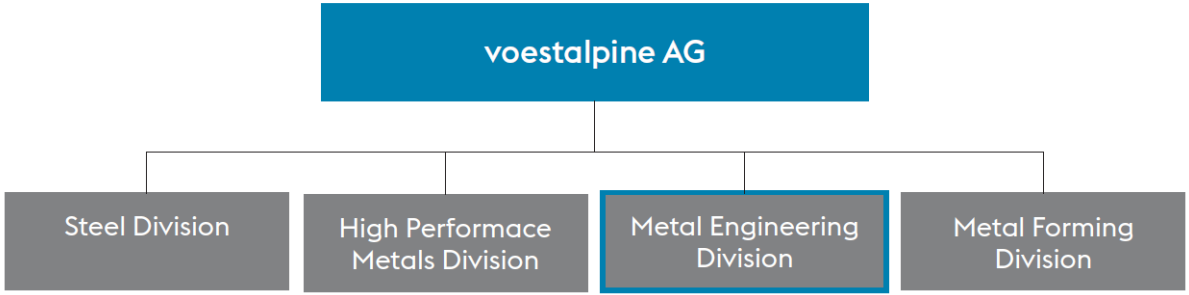
Simplified version of the environmental statement

EMAS
Geprüftes Umweltmanagement
REG. NO. AT-000410

voestalpine Wire Rod Austria GmbH
www.voestalpine.com/wirerodaustria

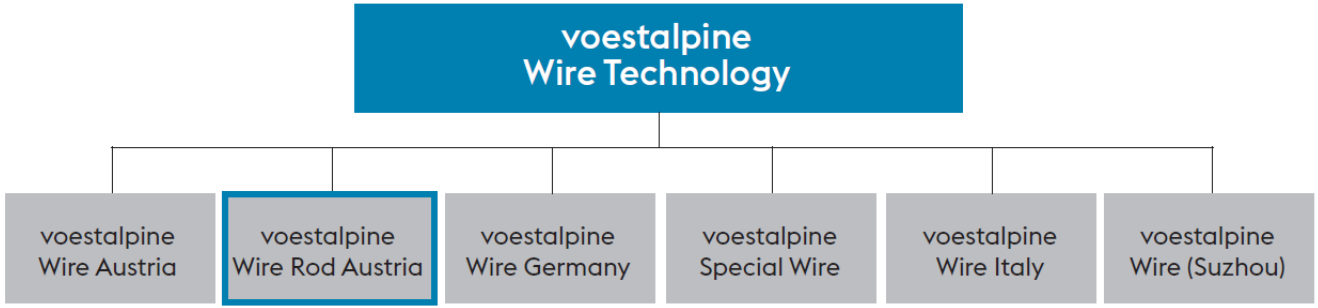
voestalpine
ONE STEP AHEAD.

The company



voestalpine AG is a leading global steel and technology group with combined materials and processing expertise. With top-quality product and system solutions, voestalpine AG is one of the leading partners to the automotive and household appliance industries, as well as to the aviation and oil and gas industries, and is also the global market leader in railroad infrastructure systems, tool steel, and special profiles. voestalpine AG is committed to global climate goals and is working intensively on technologies for decarbonization and long-term reduction of CO2 emissions.

voestalpine Wire Technology



voestalpine Wire Technology is the holding company for the individual wire-processing companies of the **voestalpine** Group. **voestalpine AG**. This is part of the Metal Engineering Division and includes the 6 production sites **voestalpine Wire Austria GmbH** (Bruck an der Mur site; Austria), **voestalpine Wire Rod Austria GmbH** (St. Peter Freienstein site; Austria), **voestalpine Special Wire GmbH** (Fürstenfeld site; Austria), **voestalpine Wire Germany GmbH** (site Finsterwalde, Germany), **voestalpine Wire Italy** (Nervesa della Battaglia site, Italy) and **voestalpine Wire (Suzhou).** (Suzhou site, China).

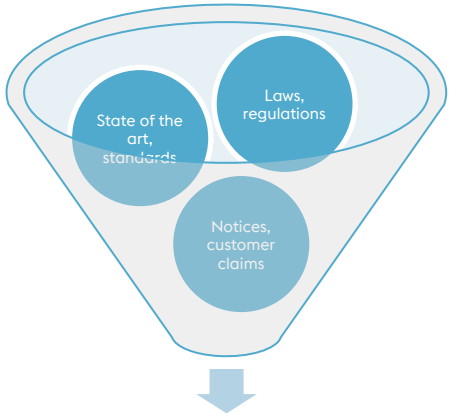
Plant park

- 1 rolling mill (IPPC - plant)
  - Capacity 600.000 tons/ year
- 2 pickling plants (IPPC plants)
  - Capacity approx. 400,000 tons/year
- 17 Annealing base
  - Capacity approx. 108,000 tons/year

Integrated management system

- voestalpine Wire Austria GmbH has been implementing an integrated management system for several years now. The aim of this overarching management system is to combine the positive characteristics of individual management systems in order to achieve the best possible synergy effect.
- The following management systems form the basis of the integrated management system.
- The environmental management system of voestalpine Wire Austria GmbH is embedded in the integrated management system. The management annually drafts and evaluates the environmental policy with regard to the topics of occupational safety, health promotion, energy and the environment.
- The environmental policy is in accordance with the legal requirements, the requirements of ISO 14001, ISO 50001, the guidelines of EMAS - Regulation and with the requirements of ISO 45001.

Ensuring compliance with environmentally relevant regulations



Binding commitments

Typical commitments:

- Compliance with limit values (noise, air, water, soil, radiation)
- Prohibition or restriction of substances
- Measurement obligations
- Documentation requirements
- Organizational requirements
- Marking specifications
- Information requirements
- Orientation to the state of the art

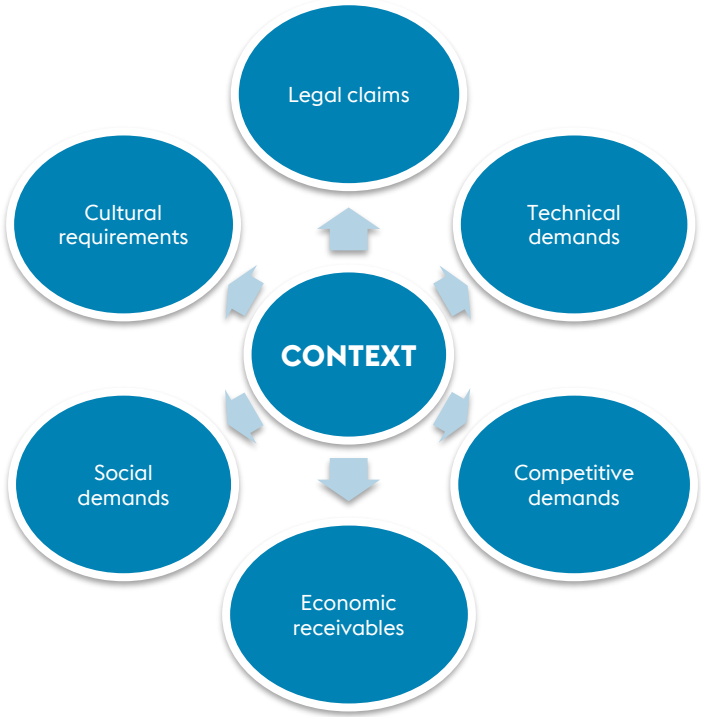
The fulfillment of the binding obligations takes place via:

- SAP - database for administration of notices incl. partially automated request for execution of required activities
- Legal register with assigned responsibilities
- Determination of responsibilities within the company (partly in the job profiles)
- Drafting internal instructions for processing/fulfilling obligations.

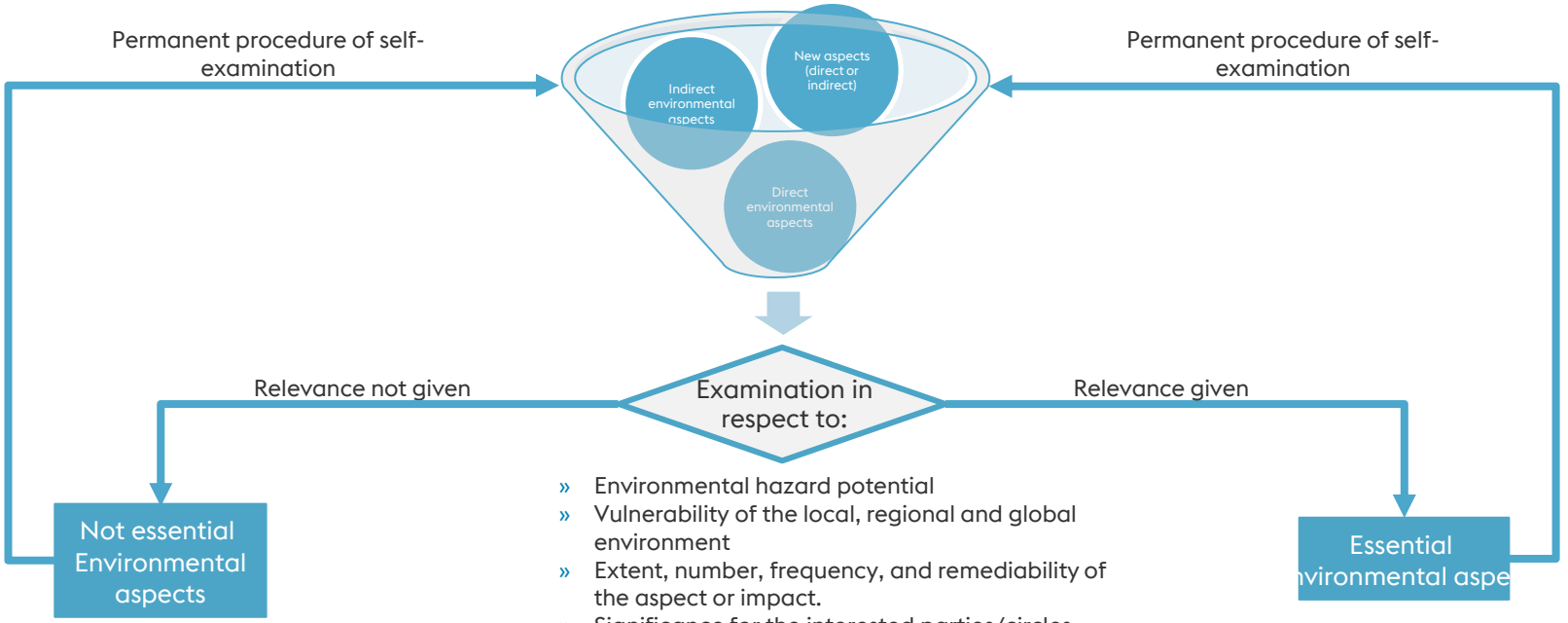
Environmental policy

- We ensure compliance with all relevant legal and administrative regulations. Likewise, we assure conformity with relevant standards, directives and customer specifications.
- We establish periodic energy and environmental programs to continuously improve environmental performance.
- We optimize our processes to minimize the use of raw materials as well as waste and close material cycles within the scope of technical possibilities.
- We keep energy consumption as low as possible through optimal design and careful operation of our plants.
- We minimize our emissions that have a negative impact on air, water, soil, noise and odor.
- We promote a sense of environmental responsibility among our employees.

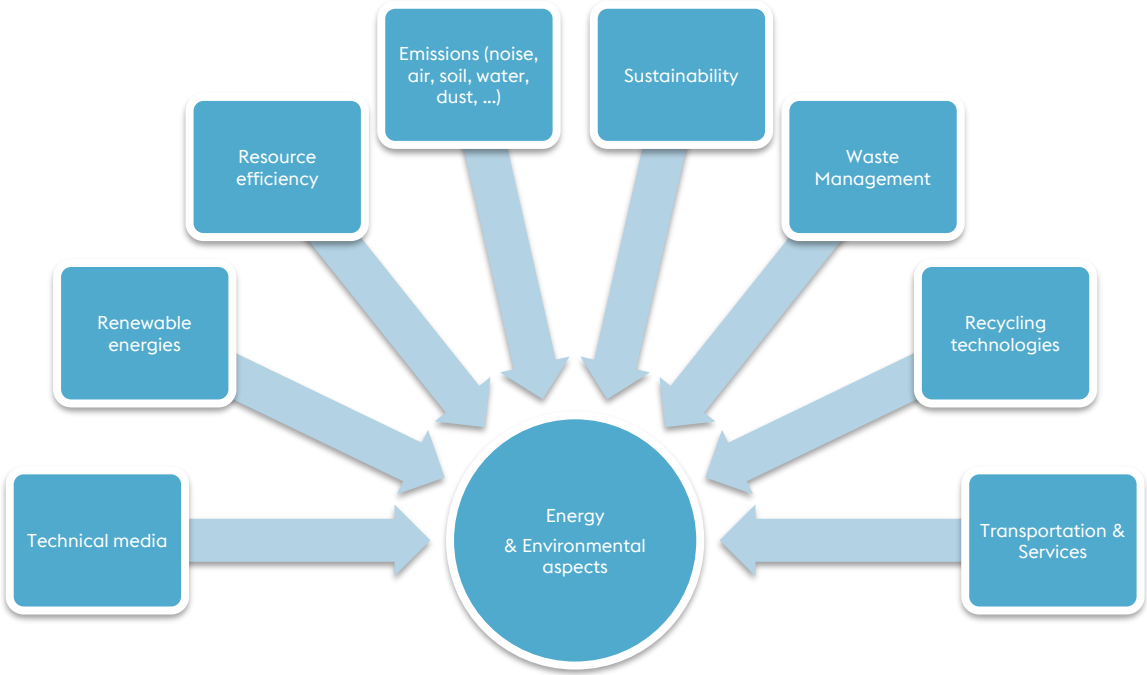
Context of the organization



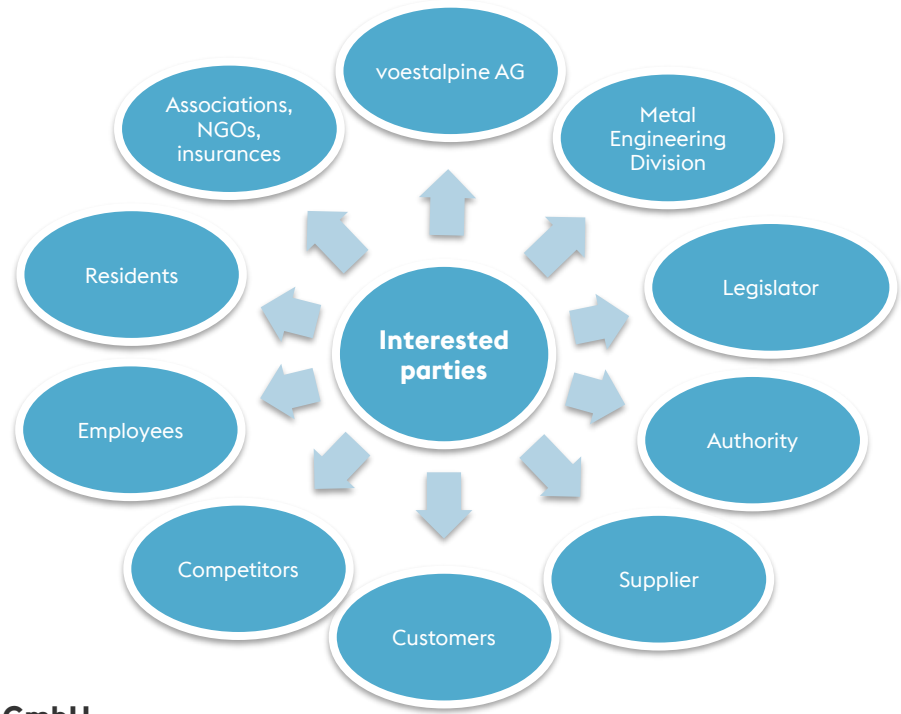
Identification of the main energy and environmental aspects



Energy and environmental aspects



Interested parties



Production processes

voestalpine
ONE STEP AHEAD.

Environmental performance evaluation

- voestalpine Wire Rod Austria GmbH has a process-oriented data monitoring system. In addition to key process figures, energy and environmentally relevant data are also recorded. Input - output balances are drawn up to show the environmental impact of the site.
- The entire media supply and a wide variety of auxiliary and operating materials are recorded and analyzed. Furthermore, production-relevant data as well as waste and emissions are also used for the presentation of the environmental impact. In addition, further core indicators are determined in accordance with the EMAS III regulation. Data collection and evaluation is carried out at regular intervals as proof of improvements and as an impulse for new objectives.
- The greatest impact on the environment at the St. Peter Freienstein site is made by the rolling mill, the pickling lines, and the annealing lines. The walking beam furnace of the rolling mill consumes over 77% of the natural gas purchased and is thus a decisive factor for the environmental balance.
  Negative factors here are small order sizes, many rebuilds, downtimes and long holding times.
- Another strongly influencing factor is the processing depth. This is expressed by the proportion of pickled and annealed quantities in relation to the rolled quantities.
- In the waste sector, the volumes are mainly driven by 3 fractions. These are the waste acid, the phosphate sludge and the iron hydroxide. These wastes are generated in the area of wire aftertreatment.

voestalpine
ONE STEP AHEAD.

INPUT - OUTPUT

	INPUT	2018	2019	2020	2021	2022	Unit
I	Raw materials used						
I.1	Billet insert	449.269	383.751	323.831	409.247	373.460	t
II	Auxiliary and operating materials						
II.1	Auxiliary and operating materials*1)	2.661	2.306	1.952	2.471	2.249	t
II.4	Packaging material*2)	2.340	2.028	1.717	2.173	1.978	t
III	Energy source						
III.1	Natural gas	249.020	218.603	182.751	233.085	216.737	MWh
III.2	Diesel	3.389	2.848	2.079	2.913	2.359	MWh
III.3	Electric current	77.733	69.284	61.539	73.159	68.220	MWh
III.4	Nitrogen*3)	3.887.765	3.698.126	3.767.350	4.369.540	3.734.363	m^3
IV	Water						
IV.1	City water drinking water	50.958	29.783	34.924	42.707	20.135	m^3
IV.2	Industrial water	4.091.852	3.532.380	2.016.642	2.258.574	2.367.679	m^3

* Partially estimated

1) Acids, coating agents, lime, oils, greases, paints, varnishes, cleaning agents, laboratory chemicals

2) Steel straps, wood, sealing sleeves, labels, plastic foils

3) Serves as protective gas for heat treatments

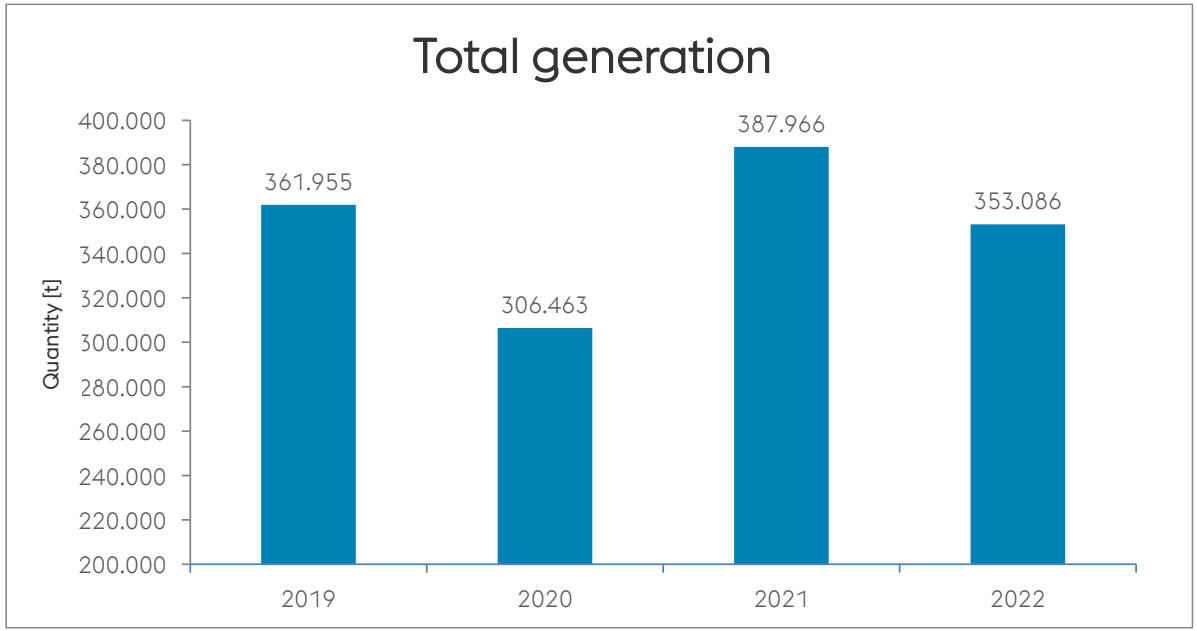
INPUT - OUTPUT

	OUTPUT	2018	2019	2020	2021	2022	Unit
V	Products						
V.1	Finished products	417.694	361.955	306.463	387.966	353.086	t
VI	Waste						
VI.1	Hazardous waste	5.262	4.965	4.965	5.214	5.211	t
VI.2	Non-hazardous waste	1.023	964	965	723	548	t
VI.3	Waste materials	40.716	29.855	19.549	27.580	26.123	t
VII	Waste water		2019	2020	2021		
VII.1	Process wastewater	58.561	57.407	45.157	41.358	32.545	m^3
VII.2	Cooling water	3.942.345	3.242.716	2.198.157	2.222.770	2.027.575	m^3
VII.3	Sanitary water	50.958	29.783	34.924	42.707	20.135	m^3
VIII	Emissions to the atmosphere (direct)						
VIII.1	CO_2	44.452	39.083	32.468	41.548	38.511	t
VIII.2	NOx (as NO_2)	41.720	34.774	27.365	31.727	29.592	kg
VIII.3	Particle	784	680	575	729	663	kg
VIII.4	CO		3.219	2.466	3.361	3.081	kg
IX	Indirect emissions (indirect)*4)						
IX.1	CO_2	864	726	530	743		t
IX.2	NOx (as NO_2)	9.523	8.004	5.841	8.186		kg
IX.3	Particle	816	686	501	702		kg

* Partially estimated

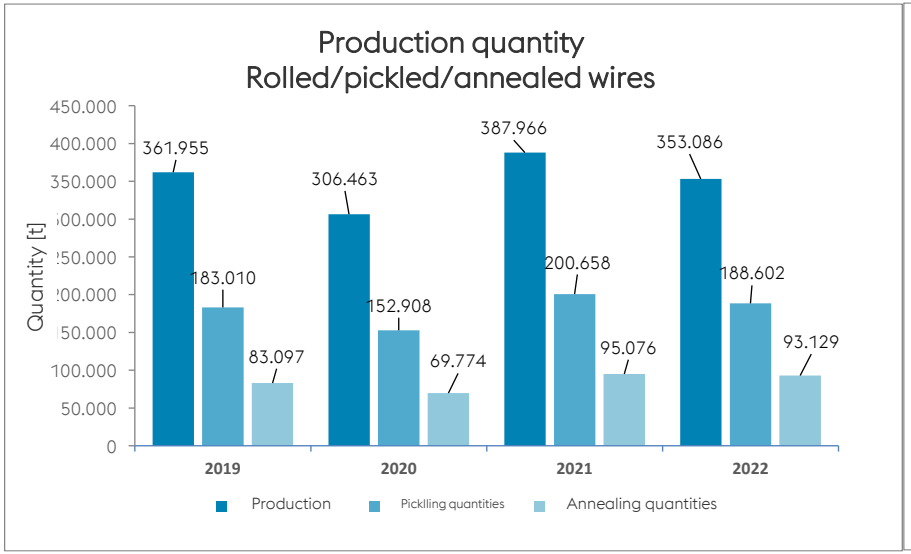
4) emissions from transporting products to customers, commuting and business trips

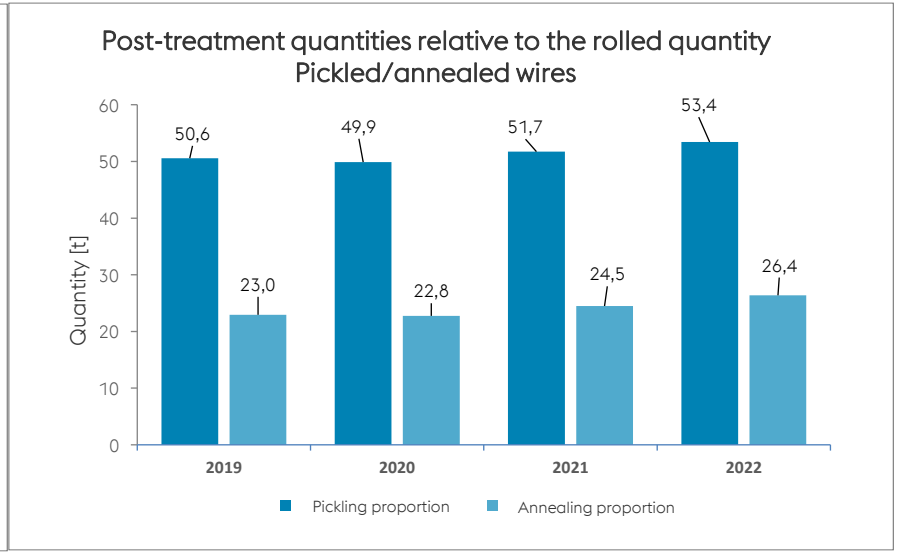
Production key figures



Production was significantly lower than in the previous year.

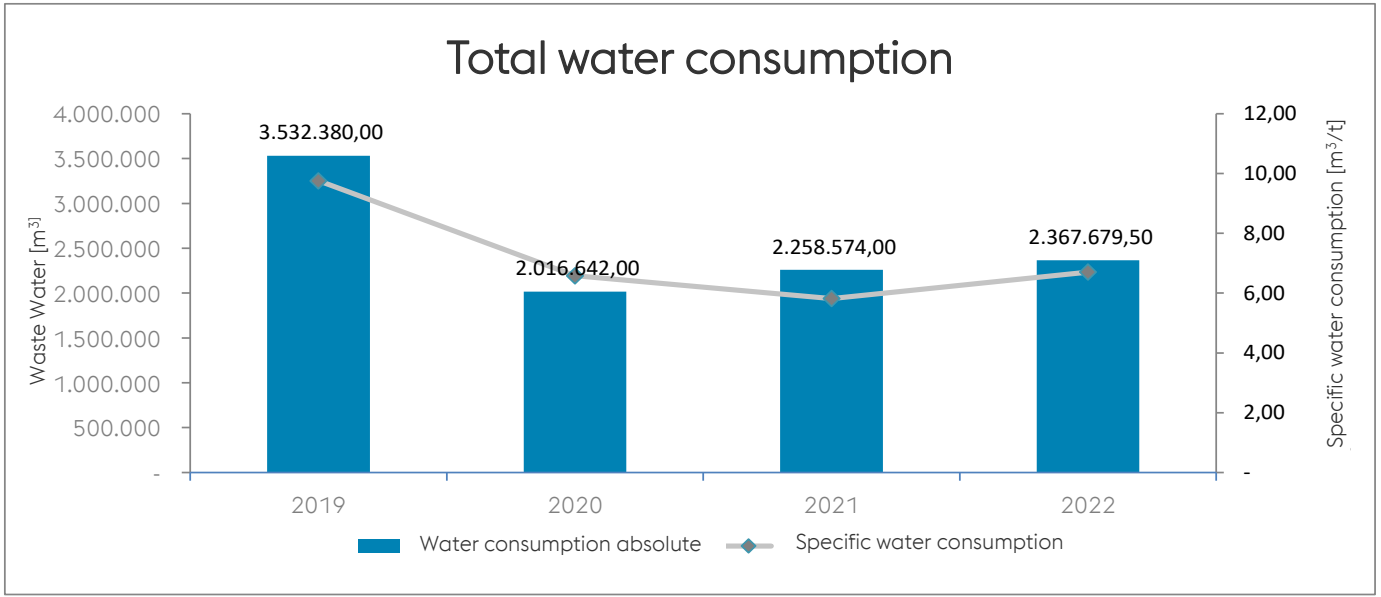
Processing depth





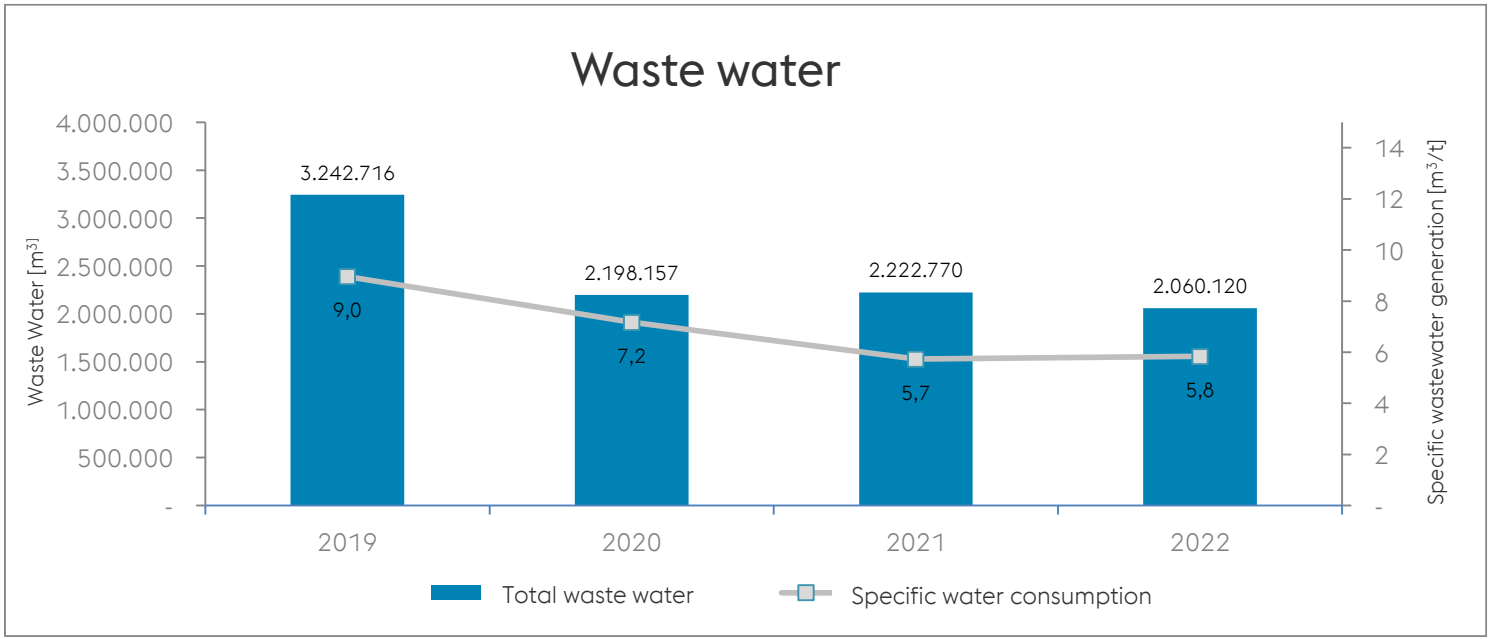
The processing depth is measured by the proportion of pickled and annealed quantities. This has increased somewhat in recent years, which has had a negative effect on the specific consumptions and emissions.

Total water consumption



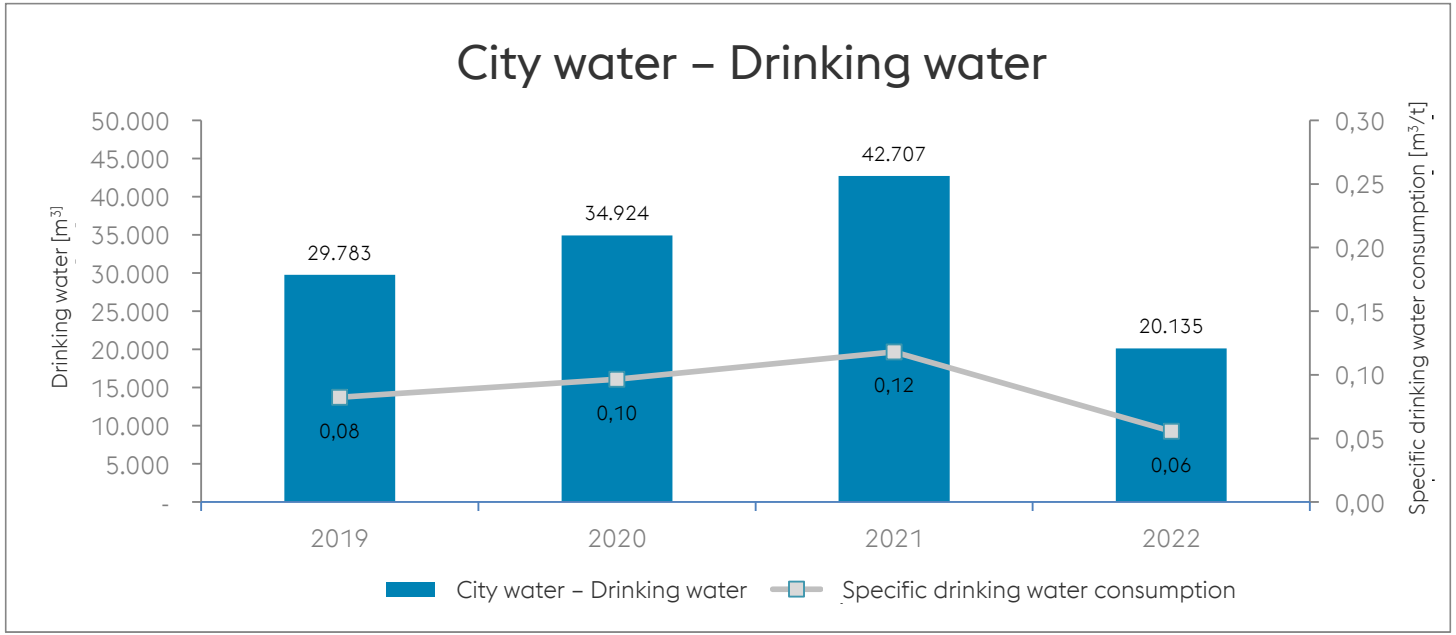
Both absolute and specific water consumption increased in CY 2022.

Waste water



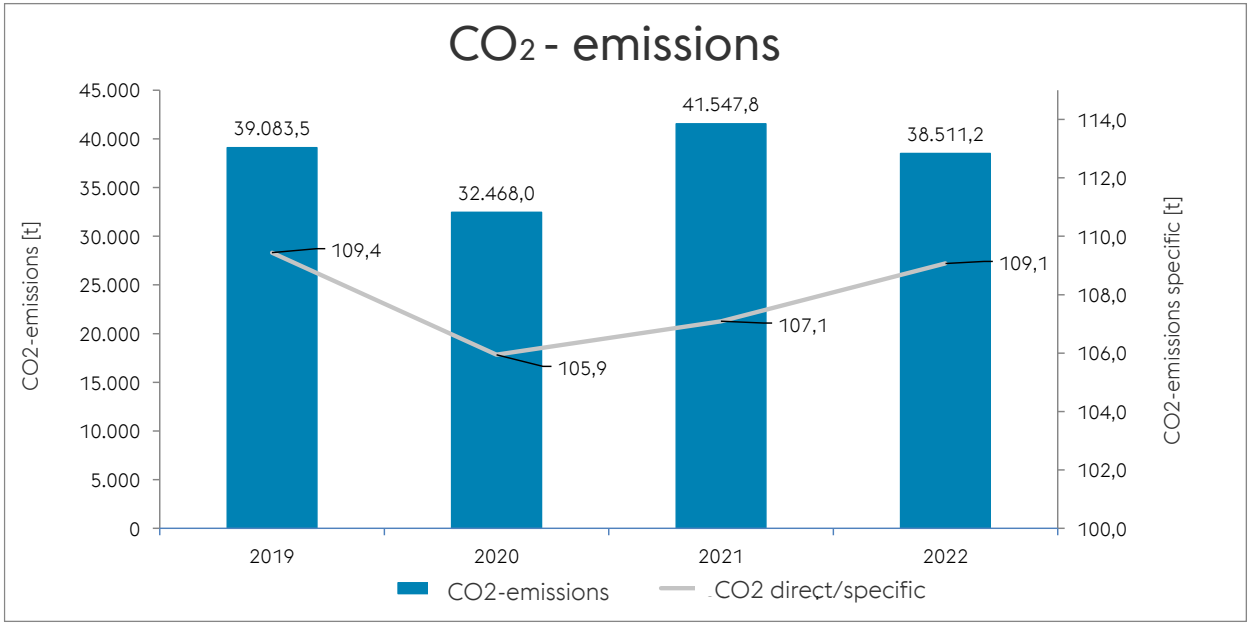
The volume development in the wastewater sector is proportional to the water consumption or analogous to the production volume.

Drinking water



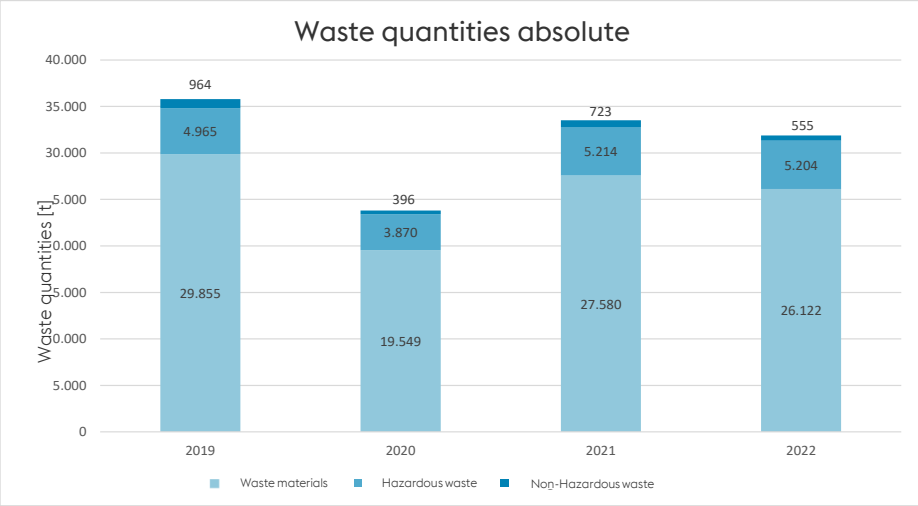
Both absolute and specific drinking water consumption were reduced in the previous year.

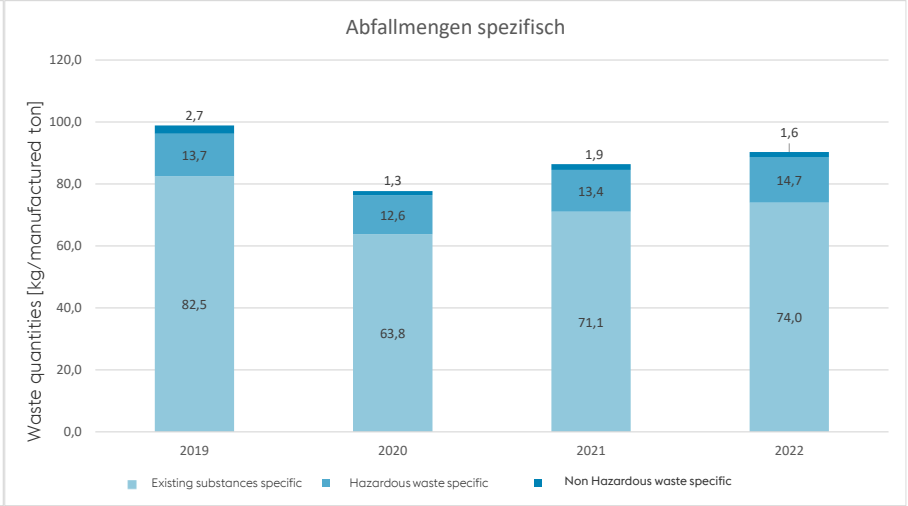
CO2 - emission



The specific CO_2 emissions are influenced by the shutdowns, shift models and the production mix. The absolute CO_2 emissions have decreased in proportion to production and the product mix, while specific consumption has increased. One reason is the increased processing depth; more quantities were annealed and pickled than the production volume.

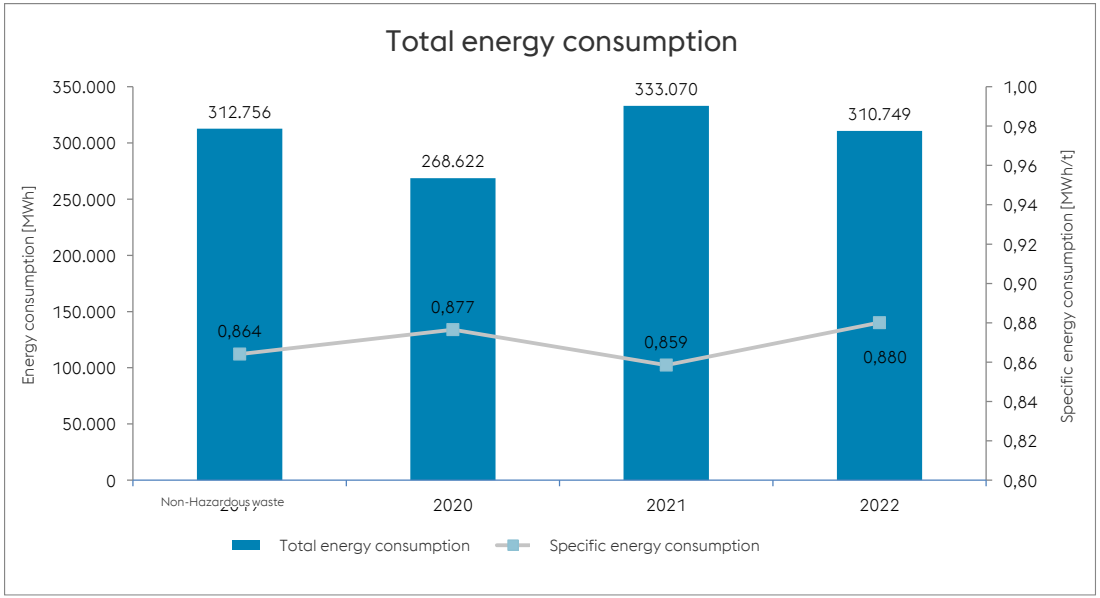
Waste balance





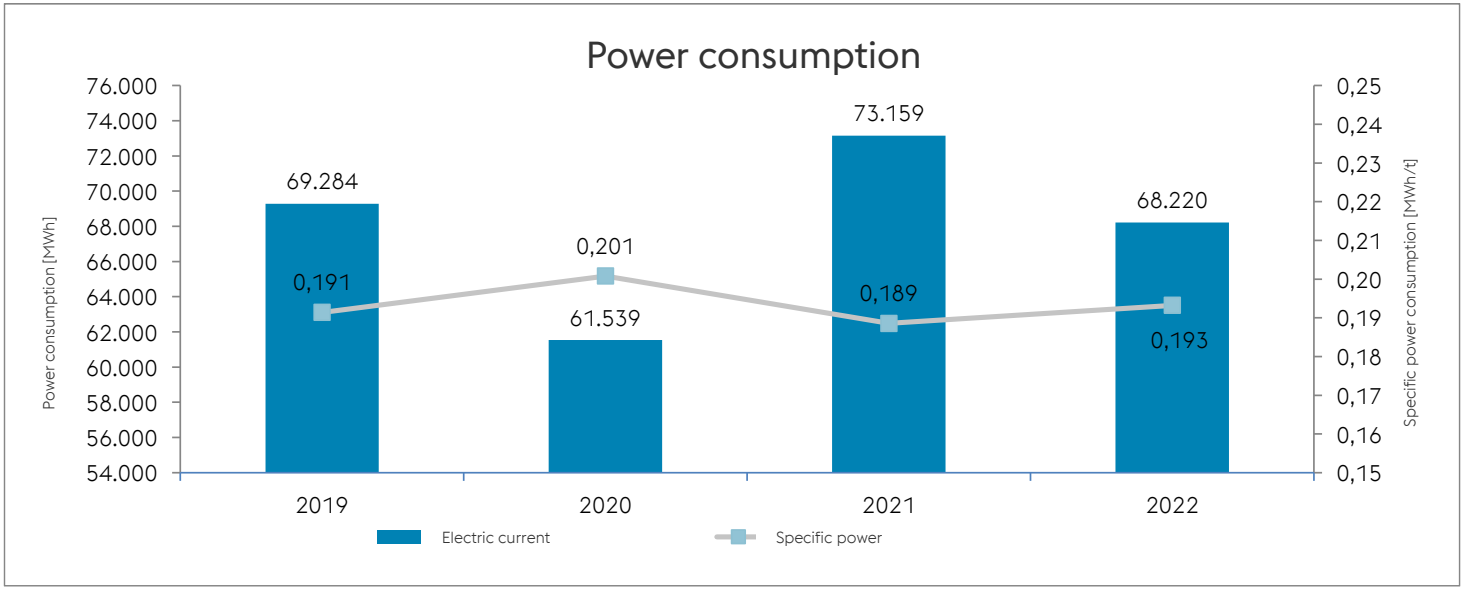
There was an increase in specific waste in the area of used materials - mainly scrap to the steel mill - and in the area of hazardous waste. This was again driven by disproportionately high pickling volumes.

Total energy consumption



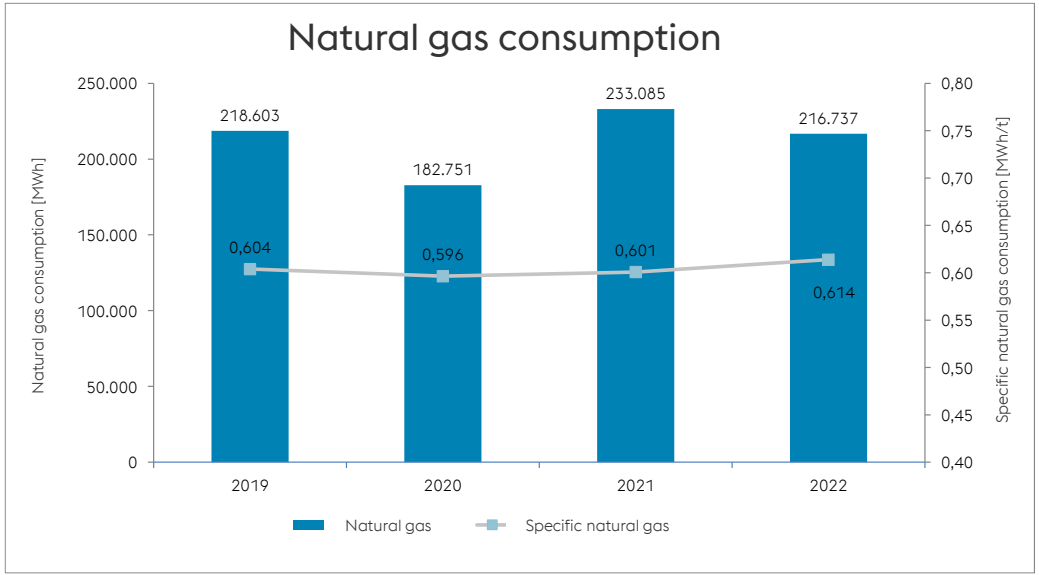
As mentioned above, specific energy consumption is influenced by shutdowns, shift models and the production mix. Negative influences were the volatile utilization of the rolling mill and the disproportionately large pickling. And annealing quantities.

Power consumption



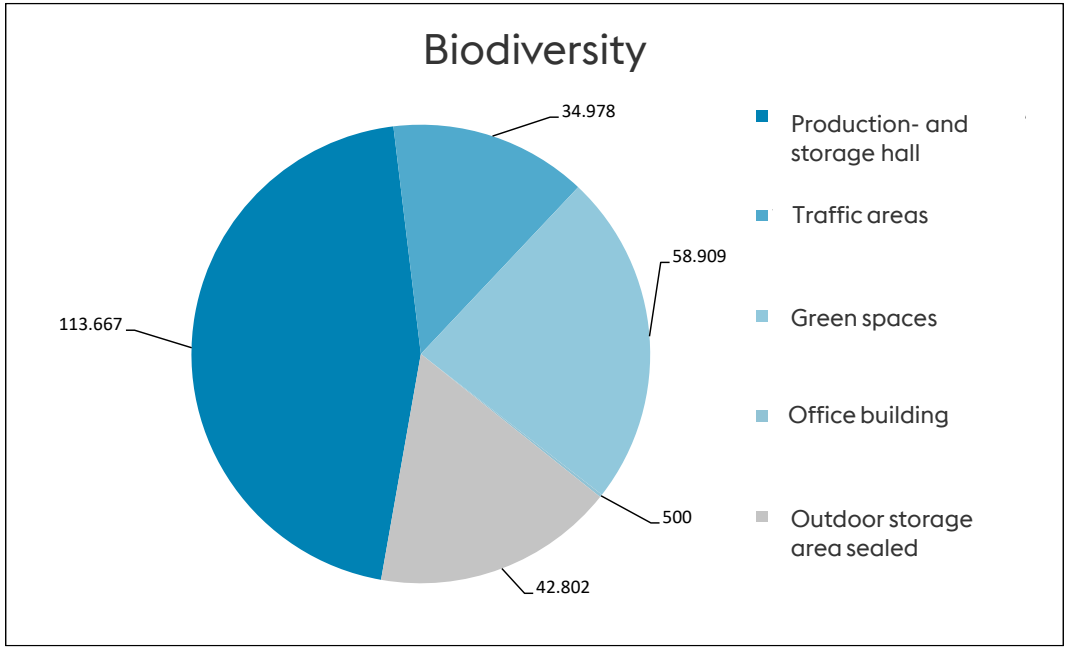
The reduction in electricity consumption is due to lower production. Specific electricity consumption is fairly constant and - as mentioned above - is influenced by shutdowns, shift models, the production mix and the processing depth.

Natural gas consumption



The same trend as for total energy and electricity consumption. The increase in specific natural gas consumption is due to the volatile utilization of the rolling mill and the disproportionately high share of annealing and pickling volumes.

Biodiversity



In the past fiscal year, a plot of land with approx.1,000m^2 was acquired. A retention basin for flood protection will be built on this land.

Energy and Environment Program 2022 - Implementation

No.	Destination	Expected benefit	Measure	Date	Responsible	Status
1	Reduction of emissions, conservation of resources	-	GreenLog - Sustainable Transport Management (E-Stacker or H2 Stacker). Cooperation Logistikum Steyer FH OÖ, feasibility study economic efficiency and ecological benefit.	FY 22/23	OP	20%
1.1	Reduction of emissions, conservation of resources	approx. 1.500l diesel	Acquisition of an electric forklift 7t. Scrap logistics forklift.	FY 22/23	OA	10%
2	Reduction CO_2	Roadmap	Creation of a "Roadmap to Zero Emission" with an external partner	FY 22/23	STR	100%
3	Waste reduction	Waste reduction from 3% (without pickling waste pickling)	Implementation of the "Zero Waste" concept	FY 22/23	UM	100%
			Marking waste collection points (Shopfloor Design BU WIRE)	FY 22/23	UM	50%
			Implementation training program	FY 22/23	UM	0%
4	Reduction energy consumption*	900 MWh/a	Conversion of the DCLink from "Danieli" to ABB. Switch off transformer selectively - thus no no-load losses	FY 22/23	OA	30%
5	Determination of emissions	EPD's	Completion of the EPD's (Environmental Product Declaration) incl. audit	FY 22/23	QHSEE	95%

*Savings based on 3-shift operation with a 1A production volume of 370,000t.

Energy and Environment Program 2022 - Implementation

No.	Destination	Expected benefit	Measure	Date	Responsible	Status
6	Employee sensitization, resource conservation	Sensitization	Concept development and implementation Awareness training for all employees	FY 23/24	STR	0%
7	Power generation	6 GWh/a	Installation of a PV system on the roof of the hall, installed power 6MWp	FY 23/24	OA	10%
8	Energy reduction Compressed air purchase*	1500m^3/a	Compressed air reduction through installation of new nozzle systems Garrett and Stelmor range	FY 23/24	OA	10%
9	Reduction energy consumption*	889 MWh/a	Pump house: new pump technology with more energy-efficient motors, control or operation with frequency converter	FY 23/24	OA	15%
10	Reduction energy consumption*	480 MWh/a	By selectively switching off the cooling water pumps, the operating times at weekends can be optimized, thereby reducing the base load at weekends. With 48 weekends a year, around 480 MWh can thus be saved.	FY 22/23	OA	25%
11	Reduction energy consumption*	13 MWh/a	Switch off unneeded units after completion of processes on the rolling mill and aftertreatment. This is to be automated as far as possible.	FY 22/23	OA	25%

*Savings based on 3-shift operation with a 1A production volume of 370,000t.

Energy and Environment Program 2022 - Implementation

No.	Destination	Expected benefit	Measure	Date	Responsible	Status
12	Reduction energy consumption*	193 MWh/a	Conversion to more efficient LED lamps, energy savings during operation. Instead of 110 light points with a connected load of 37.2 kW, 76 light points with a new connected load of 15.2 kW will be used.	FY 23/24	OA	5%
13	Reduction energy consumption*	144 MWh/a	Reduction of room cooling in the E-buildings at the weekend can save around 3 MWh of electrical energy per weekend. This is to be automated as far as possible.	FY 22/23	OA	25%
14	Energy reduction Natural gas procurement*	1,100 MWh/a	FY 22/23	FY 22/23	OA	10%
			Switching off the preheating zones <12mm	FY 22/23	OA	100%
			Natural gas saving Warming phase HBO	FY 22/23	OA	80%
15	Energy reduction hot water*	450m³/a	Optimization of hot water secondary circuit, use of return flow for heating media rooms and workshops TERTIARY	FY 22/23	OA	80%

*Savings based on 3-shift operation with a 1A production volume of 370,000t.

Energy and Environment Program 2023

No.	Destination	Expected benefit	Measure	Date	Responsible
1	Emission reduction, resource conservation	Approx. 10,000 l diesel	Renewal of the forklift fleet incl. e-mobility, reduction of old forklifts	FY 23/24	OA
2	Emission reduction	Roadmap	Creation of a "Roadmap to Zero Emission" with an external partner	FY 22/23	Obermoser
3	Reduction of waste mishandling	Waste reduction of 3% (without old pickle)	Cooperation project with "Fa Saubermacher" to raise awareness among employees	FY 22/23	UM
4	Waste reduction		Implementation of the "Zero Waste" concept	FY 22/23	UM
5	Power generation	6 GWh/a	Installation of a PV system on the roof of the hall; installed capacity 6MWp	FY 23/24	OA
6	Reduction energy consumption	900 MWh/a	Conversion of the DCLink from "Danieli" to ABB. Switch off transformer selectively - thus no no-load losses	FY 22/23	OA
7	Reduction energy consumption	20 MWh/a	Compressed air reduction through installation of new nozzle systems - Garrett and Stelmor range	FY 23/24	OA

Energy and Environment Program 2023

No.	Destination	Expected benefit	Measure	Date	Responsible
8	Reduction energy consumption	630 MWh/a	Pump house: new pump technology with more energy-efficient motors, control or operation with frequency converter	FY 23/24	OA
9	Reduction energy consumption	480 MWh/a	By selectively switching off the cooling water pumps, the operating times at weekends can be optimized, thereby reducing the base load at weekends. With 48 weekends a year, 480 MWh can thus be saved.	FY 23/24	OA
10	Reduction energy consumption	13 MWh/a	Switch off aggregates that are not required	FY 23/24	OA
11	Reduction energy consumption	193 MWh/a	Conversion to more efficient LED lamps, energy savings during operation, Instead of 110 light points with a connected load of 37.2kW, 76 light points with a connected load of 15.2kW are used.	FY 22/23	OA
12	Reduction energy consumption	144 MWh/a	Reducing space cooling in the E-buildings on weekends can save up to 3 MWh of electrical energy per weekend.	FY 23/24	OA
13	Reduction energy consumption	1.10044 MWh/a	Natural gas savings in the HBO warm-up phase.	FY 23/24	OA
14	Reduction energy consumption	450 MWh/a	Optimization of hot water secondary circuit, use of return for heating media rooms and tertiary workshop	FY 23/24	OA

Energy and Environment Program 2023

No.	Destination	Expected benefit	Measure	Date	Responsible
15	Employee awareness	Sensitization	Awareness training by means of actions in the field of sustainability (e.g.: MyIdea - action with raffle of E-Sooters or trips with E-cars)	FY 23/24	Ideas management
16	Determination of emissions	Confirmed information	Completion of the EPD's (Environmental Product Declaration) incl. audit	FY 22/23	QHSEE

PROJECT: ROADMAP 2 ZERO

Our goal: CO2 neutrality by 2035*

PRODUCTION			PRODUCTS & APPLICATION		END-OF-LIFE	OTHERS
Supply-chain	Wire Technology - Roadmap 2 Zero		Energy consumption & emissions		Recycling	Mobility and behavior
"Green" transport	Energy-efficiency	Material-efficiency	Reduction of process steps	Lightweight solutions	Steel to enable circular economy	Success stories with customers
greentec steel	Renewable energy supply	Use alternative energy sources	Reduction of scrap	"Green" coatings	Recycling-friendly packaging	Business trips and personal behavior

AWARENESS - EDUCATION - BEHAVIOR - MARKETING

CERTIFICATION

* Scope 1 & 2

voestalpine
ONE STEP AHEAD.

Certificates

voestalpine

ONE STEP AHEAD.

Gültigkeitserklärung

Der leitende und zeichnungsberechtigte EMAS-Umweltgutachter
DI Christian Rezner
der Umweltgutachterorganisation
TÜV SÜD Landesgesellschaft Österreich GmbH
Franz-Grill-Straße 1
Arsenal, Objekt 207
A-1030 Wien

bestätigt, begutachtet zu haben, dass der Standort bzw. die Organisation, wie in der Umwelterklärung der Organisation

voestalpine Wire Rod Austria GmbH
Drahtstraße 1
A-8792 St. Peter Freienstein
mit der Registriernummer AT-000410

angegeben, alle Anforderungen der Verordnung (EG) Nr. 1221/2009 des Europäischen Parlaments und des Rates vom 25. November 2009 über die freiwillige Teilnahme von Organisationen an einem Gemeinschaftssystem für Umweltmanagement und Umweltbetriebsprüfung (EMAS) erfüllen.

Mit der Unterzeichnung dieser Erklärung wird bestätigt, dass

- die Begutachtung und Validierung in voller Übereinstimmung mit den Anforderungen der Verordnung (EG) Nr. 1221/2009 in der Fassung EG VO 2017/1505 und 2018/2026 durchgeführt wurden,
- das Ergebnis der Begutachtung und Validierung bestätigt, dass keine Belege für die Nichteinhaltung der geltenden Umweltvorschriften vorliegen,
- die Daten und Angaben der Umwelterklärung der Organisationen ein verlässliches, glaubhaftes und wahrheitsgetreues Bild sämtlicher Tätigkeiten der Organisationen innerhalb des in der Umwelterklärung angegebenen Bereichs geben.

Die Umweltgutachterorganisation TÜV SÜD Landesgesellschaft Österreich GmbH ist per Bescheid durch das Bundesministerium für Land- und Forstwirtschaft, Umwelt und Wasserwirtschaft für die NACE-Codes 24.10 und 24.34 zugelassen.

St. Peter Freienstein am 18.04.2023

Landesgesellschaft Österreich

Leitender und zeichnungsberechtigter Umweltgutachter
der TÜV SÜD Landesgesellschaft Österreich GmbH
Franz-Grill-Straße 1, Arsenal, Objekt 207, 1030 Wien

Die nächste Validierung der (konsolidierten) Umwelterklärung erfolgt 2026.
Es wird jährlich eine aktualisierte Umwelterklärung validiert.