

HEALTH, SAFETY and ENVIRONMENT REPORT 2019

voestalpine Tubulars GmbH & Co KG

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Alpinestraße 17
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The current Health, Safety and Environment Report of the company voestalpine Tubulars GmbH & Co KG, with location in Kindberg, specifies the company's safety, environmental measures and statistics for the year 2019.

Management Policy

Our organization has committed itself to manufacturing high quality products and delivering services which meet or exceed customer requirements and satisfy applicable, internationally recognized standards and specifications*. We achieve customer satisfaction through integrity and by honoring our commitments, and thus support our customers in achieving their goals and objectives.

We ensure the future success and sustainability of our business through the efficient use of resources; goal-oriented, continuous improvement; protection of the environment; and compliance with all applicable laws – **all, while ensuring the highest possible level of safety for our employees.**

We successfully achieve these goals through four key areas: quality, safety, environment, energy conservation (efficiency) and asset management.

Quality means to us:

- Flawless products and services
- Customer satisfaction through customer orientation and fulfilment of customer requirements
- Flexibility and reliable delivery

Safety and health protection means to us:

- Technical: safe work places, working equipment and installations, appropriate protective equipment
- Organization: creation of awareness, ongoing safety programs and trainings
- Behavior: safe, and role model behavior at all levels
- Health promotion

Environment protection means to us:

- Conservation of resources
- Minimization of emissions and avoidance of impact on the environment
- Continual improvement of the environmental performance

Energy management means to us:

- Increase in energy efficiency – reduction of energy costs
- Use of renewable energy
- Recycling management and sustainability

Asset management means to us:

- Cost minimization of assets for the whole life cycle
- High availability of the asset portfolio
- Highly trained employees for the installation and maintenance of assets

We ensure the effectiveness of our Management System through excellent qualifications, a high level of personal responsibility, and the extraordinary commitment of all employees, as well as by making all necessary resources available.

* ISO 9001, API Specification Q1, ISO 14001, ISO 45001, ISO 50001, ISO 55001

Accident Statistics 2019

Accident-Indices:

In the accident statistics, five key accident indicators are evaluated. The following key accident indicators relate to wage-earners only.

*In the year 2019,
1,633,185 production hours
were performed in the
Kindberg plant.*

*The monthly average, of
voestalpine Tubulars employed:
1,037 blue collar workers.*

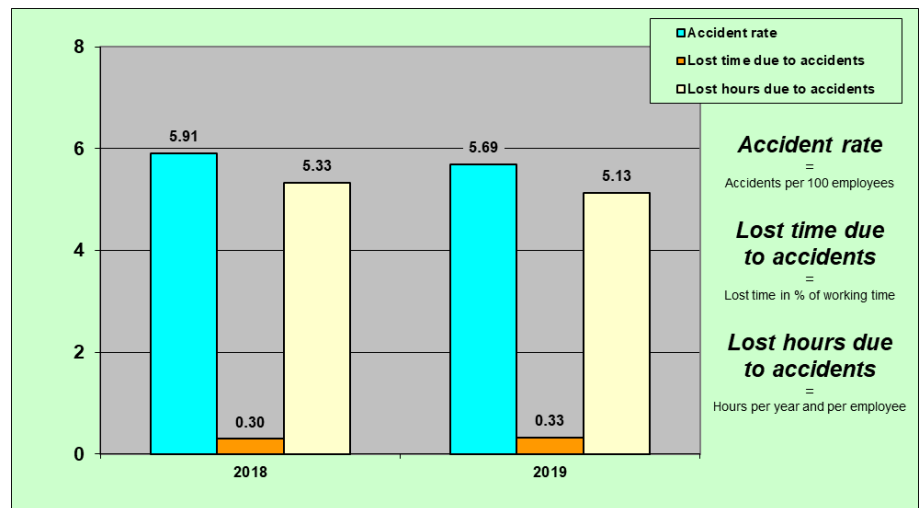
		2018	2019
Accident rate	Accidents per 100 employees	5.91	5.69
Frequency of accidents	Accidents per 1 million hours	33.86	36.13
Severity of accidents	Lost time per accident	90.07	90.18
Lost time due to accidents	Lost time in % of working time	0.30	0.33
Lost hours due to accidents	per year and per employee	5.33	5.13

Accident rate – Lost time due to accidents – Lost hours due to accidents:

*The accident rate lies at
5.69 accidents per
100 employees in 2019.*

*The working hours lost due
to accidents at work
amounted to 0.33% of the
total hours worked
in 2019.*

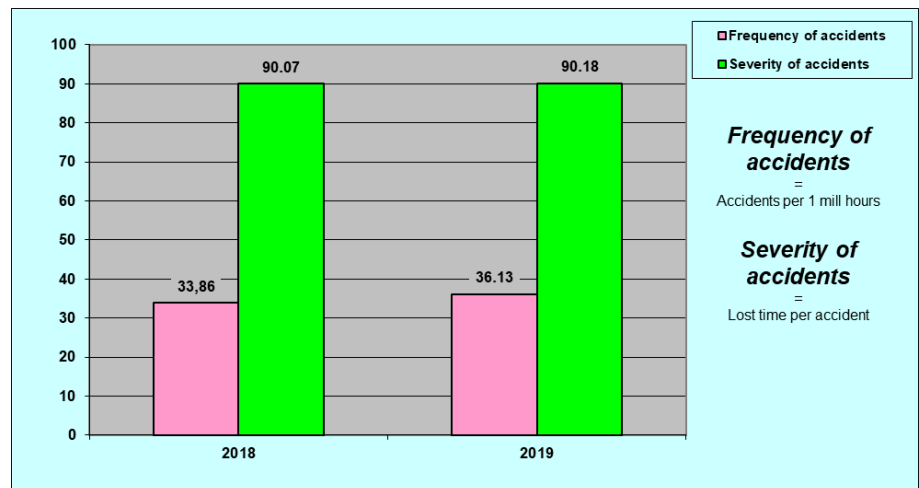
*The working hours lost due
to accidents at work were
on average 5.13 hours per
year and employee in 2019.*



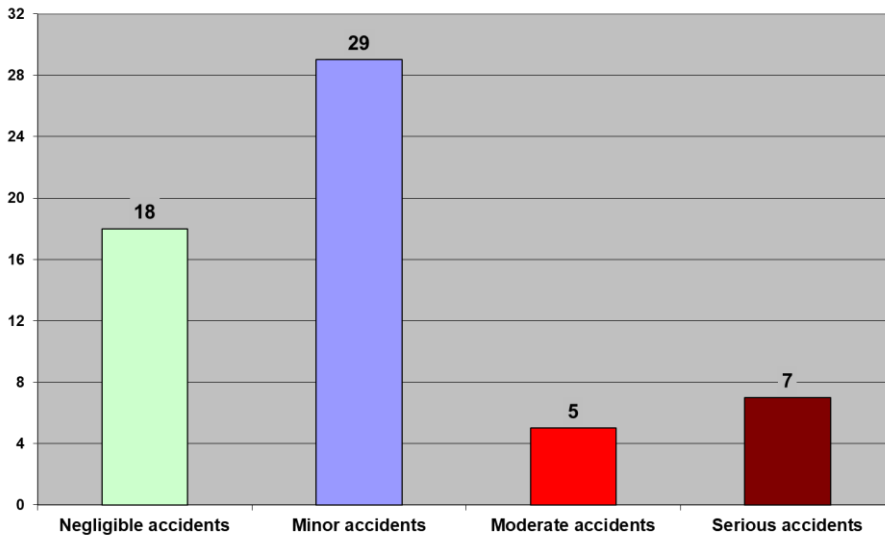
Frequency of accidents – Severity of accidents:

*The frequency of accidents
amounted to
36.13 accidents
per 1 million working
hours in 2019.*

*The average working
time lost per accident
(accident severity)
amounted to
90.18 hours in 2019.*



Industrial accidents 2019, according to the number of working days missed by injured employees:



Negligible accidents:
up to 3 days

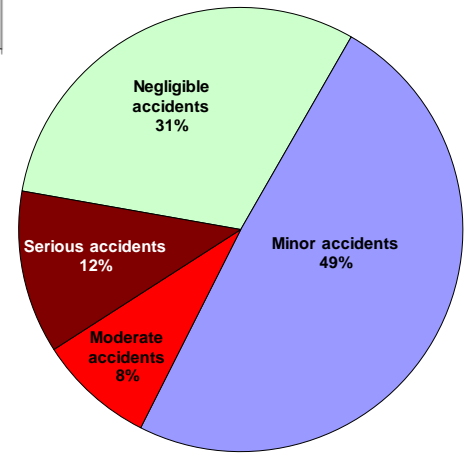
Minor accidents:
4 to 19 days

Moderate accidents:
20 to 45 days

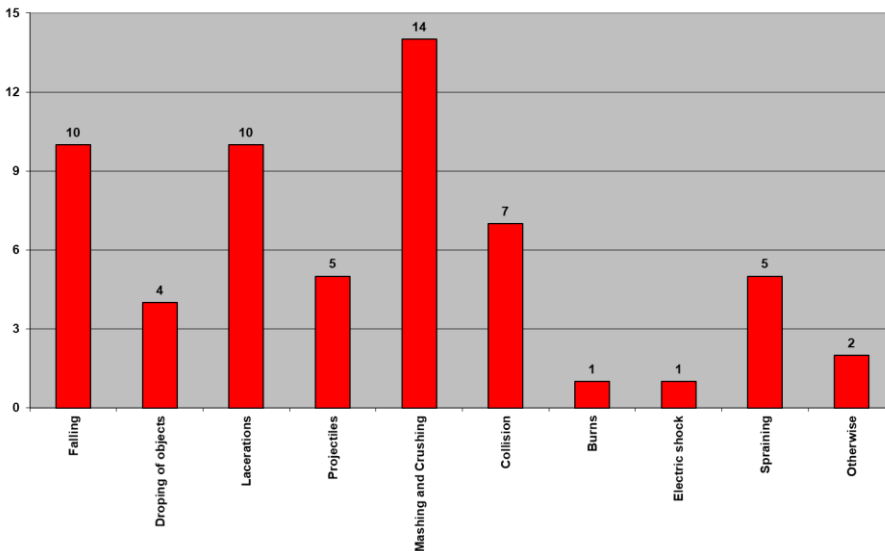
Serious accidents:
more than 45 days

In 2019, a total of 59 accidents at work were reported, of which 18 were negligible, 29 minor, 5 moderate and 7 were serious accidents.

Nearly half of the accidents (49%) were 'minor accidents' with a related sick leave duration of between 4 to 19 days.

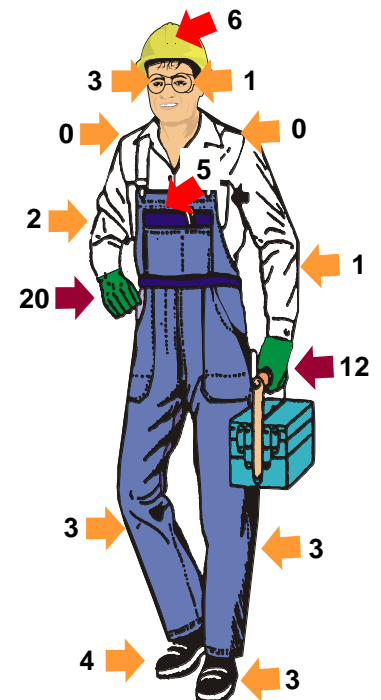


Causes of accidents and injuries classified under parts of the body 2019:



When analysing the causes of accidents, 14 of the reported accidents relate to persons injured by mashing or crushing and each 10 accidents were caused by falling and lacerations.

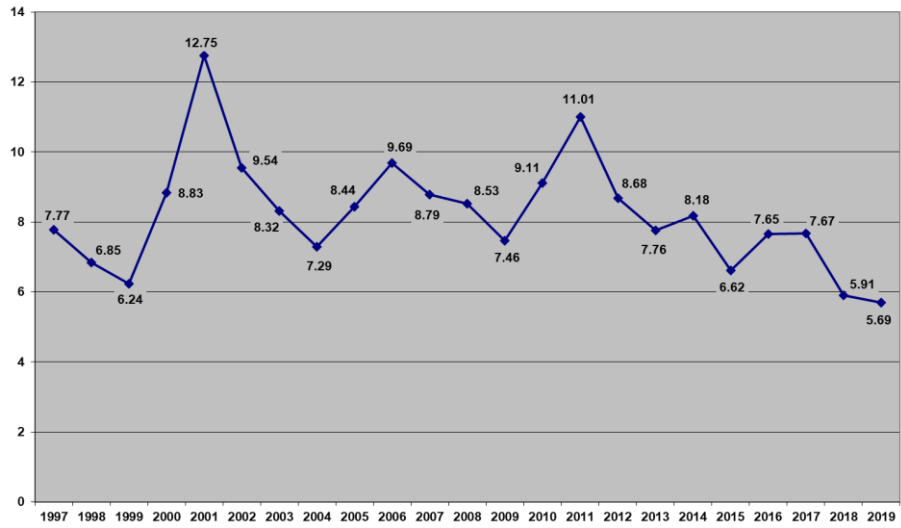
As regards injured parts of the body, the highest percentage concerned damage to hands (32 accidents), followed by 7 accidents resulting in injuries to the legs.



Trends of Accident Indices:

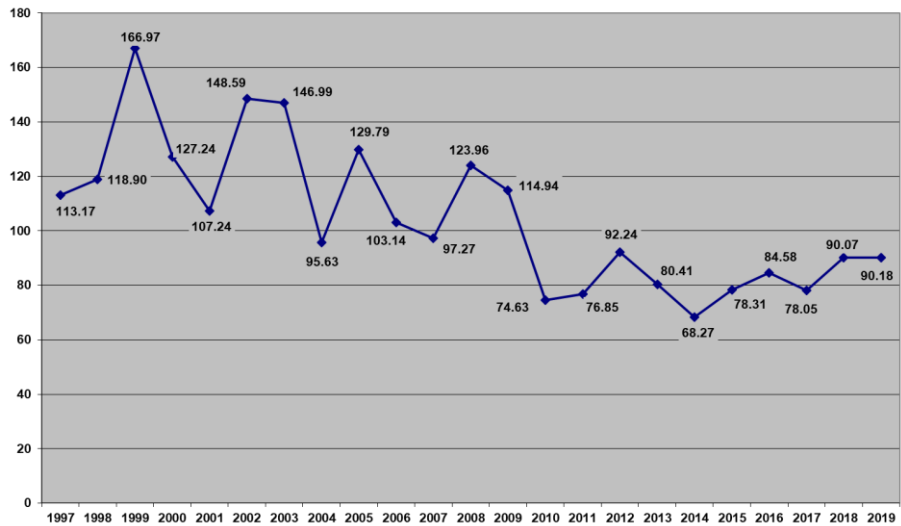
ACCIDENT RATE

Compared to 2018, the accident rate in 2019 decreased by 3.72%.



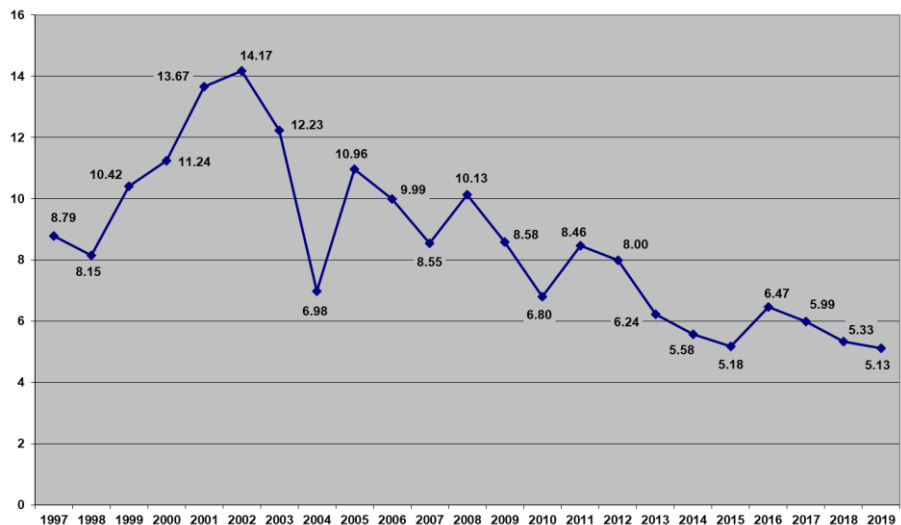
SEVERITY OF ACCIDENTS

Compared to 2018, the severity of accidents in 2019 increased by 0.12%.



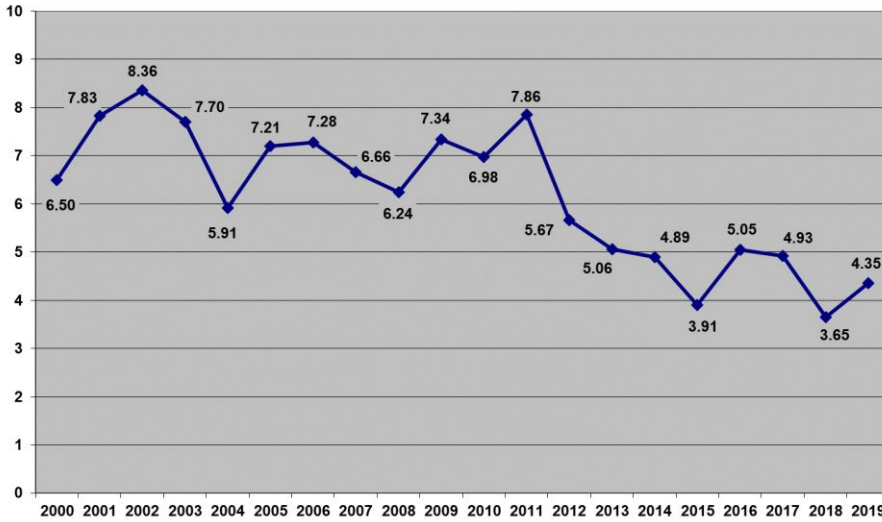
LOST TIME DUE TO ACCIDENTS

Compared to 2018, the lost time due to accidents in 2019 decreased by 3.75%.



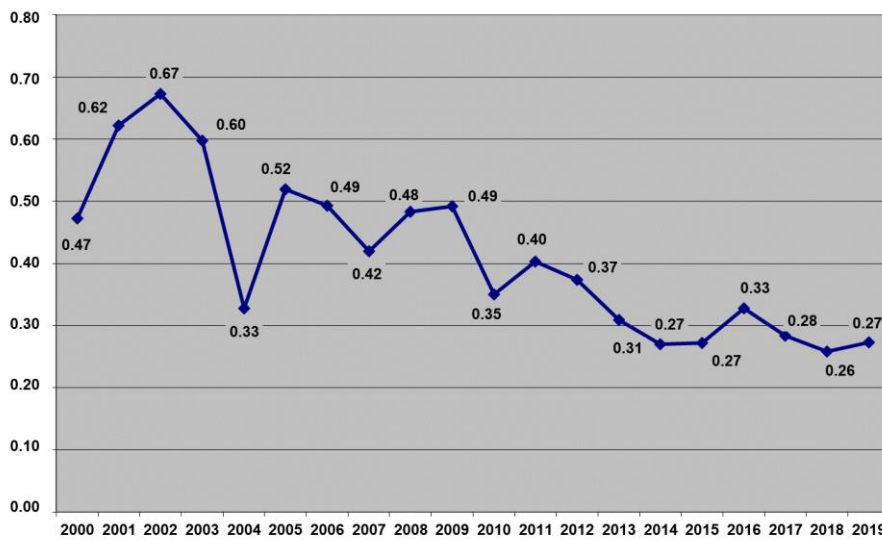
International Accident Indices:

TRIR and LTIF illustrated in international accident statistics.



TRIR
Total Recordable
Incident Rate
↓
Ratio of accidents with
mandatory reporting

TRIR (2019) = 4,35



LTIF
Lost Time Injury
Frequency
↓
Ratio of total hours lost
to accidents at work to
hours worked

LTIF (2019) = 0.27%



Environmental Balance Sheet 2019

The following table shows a summary of all environmental facts of voestalpine Tubulars from the Input-Output-Analysis (Material and Energy Balance Sheet) for the year 2019.

MATERIAL and ENERGY BALANCE 2019			
Input:		Output:	
Circulating materials (input in t) 366,043.763		Products and packaging (t) 326,888.387	
Raw materials (billets)	364,128.000	Products (steel pipes)	325,768.080
Auxiliary/Operating supplies	795.456	Product packaging	1,120.307
		Waste, valuable substances, existing substances (t) 60,485.133	
Packaging for products	1,120.307	Existing substances	95.341
		Valuable substances	54,798.006
Gas (input in m ³)		Non-hazardous waste	291.833
Industrial gas / test gas	906,387.241	Non-hazardous waste (extra projects)	3,728.400
		Hazardous waste	1,571.533
Water (input in m ³) 3,237,139		Waste water (output in m ³) 2,723,771	
Drinking/washing water from well	28,752	Sanitary water (indirect feed)	25,443
Industrial and cooling water	3,208,387	Process waste water (indirect feed)	125
		Process waste water	2,698,203
Compressed air (input in m ³)		Waste air (emissions in t) 61,456.226	
Compressed air	53,103,200	Gaseous emissions	61,427.662
		Thereof CO ₂ :	61,408.985
		Remainder (CO, NO _x , SO ₂ , C _{tot} , CH ₄):	18.677
		Dust	4.170
		Solvent emissions	24.126
Energy procurement		Energy consumption (MWh _{el}) 417,195.380	
Electricity (MWh _{el})	69,987.481	Energy conversion (electricity)	69,987.481
Natural gas (m ³)	30,559,776.637	Heating (gas)	345,777.476
Heating oil (litres)	91.000	Heating (heating oil)	0.963
Fuel (litres)	144,256.000	Operating energy (MWh _{el})	1,429.460

Waste:

We distinguish the following waste types as: existing materials, non-hazardous waste, hazardous waste and valuable substances.

Waste type	Waste fractions	Total 2019 in t
<i>Existing substances</i>	Glass, metal packaging, organic waste, cardboard packaging, light fraction packaging	95.341
<i>Non-hazardous waste</i>	Waste wood, construction waste, mineral waste, thermal mix, commercial waste, plastic waste, abrasives, etc.	291.833
<i>Non-hazardous waste (extra projets)</i>	Construction waste, concrete waste, excavation waste	3,728.400
<i>Hazardous waste</i>	Emulsions, oil-water mixtures, waste oils, oil sludge, operating supplies contaminated with oil, electronic waste, phosphating sludge, paint and varnish residues, mineral waste	1,571.553
<i>Valuable substances</i>	Scrap, shavings, scale	54,798.006
Total 2019:		60,485.133



All industrial waste is collected separately, stored in accordance with existing regulations and handed over to duly authorized waste disposal or recycling companies!



Wastewater:

After going through various stages of treatment, the process wastewater goes directly into the river Mürz. There are four different wastewater flows:

Wastewater flow	Volume 2019 in m ³	Ø Volume in m ³ per hour
<i>Seamless pipe plant</i>	1,458,267	166.47
<i>CT plant</i>	1,179,252	134.62
<i>Upsetting installation</i>	4,083	0.47
<i>Phosphating installation</i>	9,906	1.13
<i>Heat Treatment Line 2</i>	46,695	5.33
Total wastewater 2019:	2,698,203	



Wastewater treatment technologies used;

- Seamless pipe plant: sedimentation and cooling
- CT plant: gravel filter and cooling
- Upsetting installation: pressure-release flotation
- Phosphating installation: neutralization plant
- Heat Treatment Line 2: Sand filter und cooling

Wastewater load 2019	kg pro Jahr
Filterable substances	20,131.25
COD	40,679.59
Hydrocarbons	1,177.34
Phosphorous	330.13
Iron	167.08
Ammonium	0.29
Aluminium	1.39
Nickel	2.08
Nitrite	26.05
Manganese	2.77
Chrome	0.05

Emissions:

The majority of the emissions are caused by the combustion of natural gas used in thermal processes, and a small percentage by use of diesel vehicles.



Of 61,427.662 tons of gaseous emissions, the major part (i.e. 99.97%) comprises 61,408.985 tons of CO₂-emissions.

Material	Required quantity 2019	Gaseous emissionen in t
Natural gas	30,559,777 m ³	61,044.719
Diesel fuel	143,966 litres	382.943
Total 2019:		61,427.662

The use of paint containing solvents and pure solvents resulted in solvent emissions to the amount of 24.126 tons in 2019.

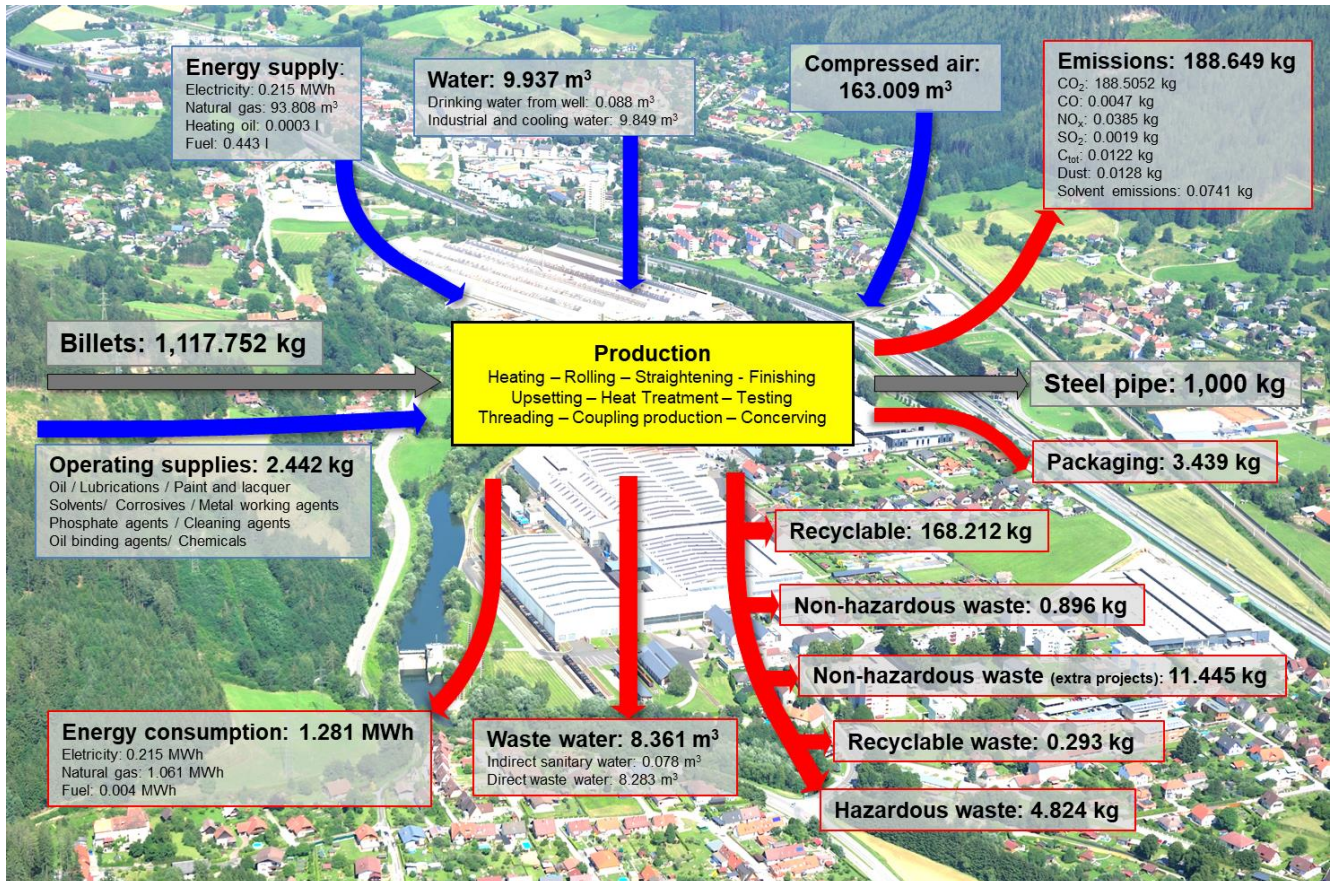
Energy:

Energy consumption consists of the use of natural gas, electric energy and fuel.

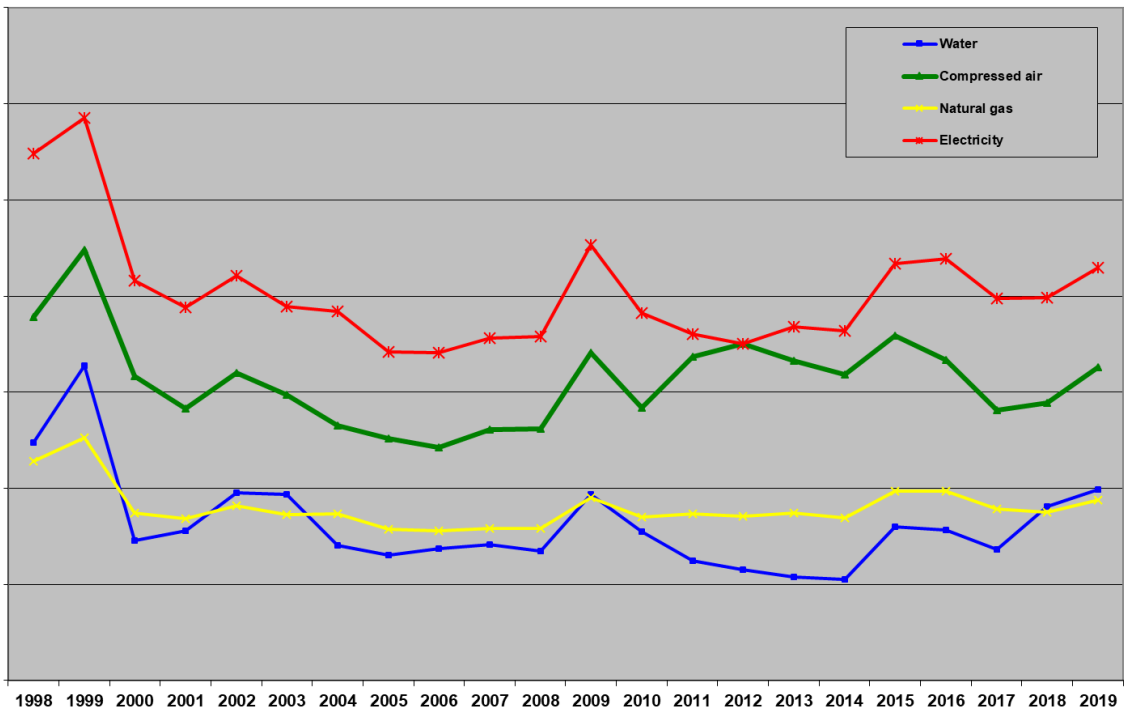


Energy supply	Required quantity 2019	Energy consumption in MWh
Electricity	69,987.481 MWh _{el}	69,987.481
Natural gas	30,559,777 m ³	345,777.476
Heating oil	91.00 litres	0.963
Fuel	144,256.00 litres	1,429.460
Total 2019:		417,195.380

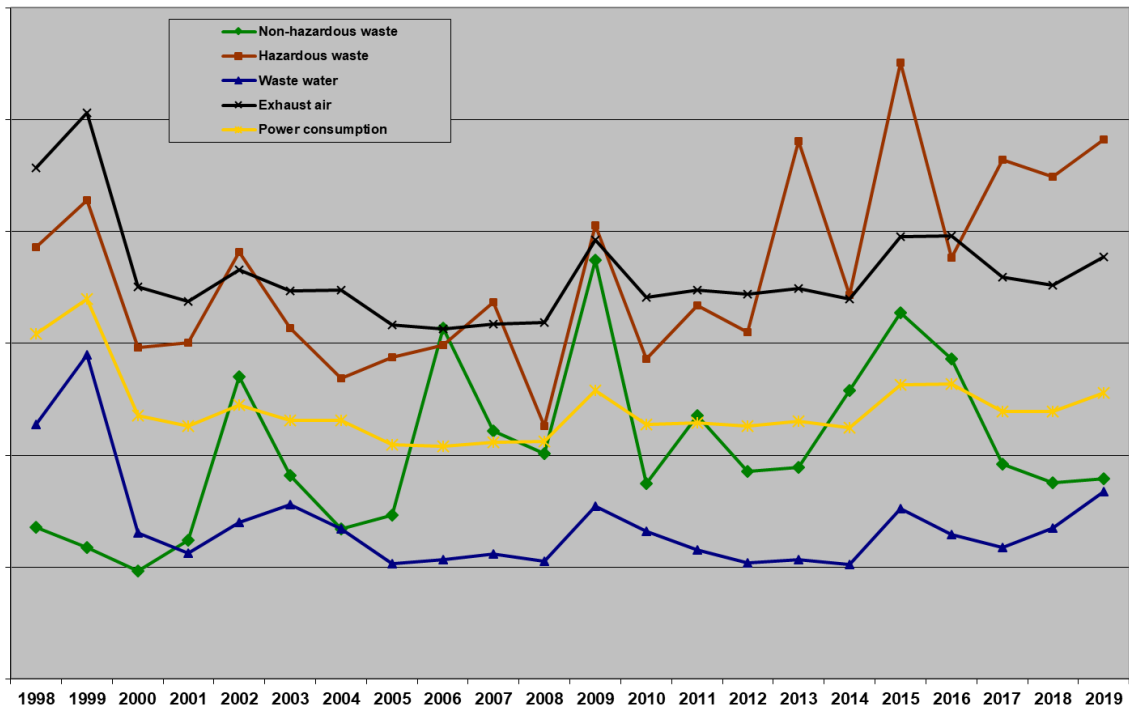
Material and Energy Balance of the production of 1 ton of steel pipe (2019):



Trends of Input Indices from 1998 to 2019:



Trends of Output Indices from 1998 to 2019:



The specific input and output values relate to the corresponding absolute values in proportion to the volume of production.

Imprint

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