COVERING 2011 – 2020

2020

European Steel in Figures

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European Steel in Figures 2020

Axel Eggert, Director General
The European Steel Association (EUROFER)

Welcome to the twelfth edition of the European Steel Association's (EUROFER) European Steel in Figures guide. This edition updates the content, retaining the handy form-factor developed in 2019. We hope you find this publication an insightful look into the size and shape of the modern European steel industry.

European Steel in Figures 2020 includes data up to, and including full year 2019. Employment was steady, even though with demand on the domestic market fell off over the year. The expansion of steel-using sectors, which had been underway for a number of years, came to a halt. The overall performance of the steel market was weak in 2019. Apparent consumption was down 5.3% to 154 million tonnes – with a further and marked loss of momentum in the last quarter of the year.

Imports also fell, by 11.5%, returning to levels seen in 2016-2017. Steel-using sectors, such as automotive, are beginning to see reversals – which has an impact on their current and anticipated demand for steel. Whereas previous estimates for growth suggested that there would be a return to expansion in 2020, with the coronavirus pandemic, this now seems impossible. EUROFER regularly publishes information about the present state of the market in its quarterly *Economic and Market reports*, and additional analysis can be found in EUROFER' *Annual Report 2020*.

Updated research – accurate at the time of writing for 2019 and included in this guide – shows the extent of the employment and economic footprint of the European steel sector. Counting direct, indirect and induced employment, we find that there are as many as 2.67 million people that work in and around the industry, equivalent to slightly more than twice the population of Brussels. The multiplier effect of the 330,000 direct jobs in the sector is nearly eight times.

The Gross Value Added (GVA) of the European steel industry is also upwards of €140 billion if direct, indirect and induced effects are factored in.

Also updated in this guide is information on scrap imports and exports as well as slag production and use in the EU steel sector. More than 40 million tonnes of this by-product are created alongside the production of steel annually in Europe. Slags of various kinds go on to find a wide number of uses, including as fertilisers, or in construction and water treatment – almost nothing goes to waste.

All these statistics help give an overview of the European steel industry today. Awareness of the employment, production, demand and trade challenges that face the sector help guide us and policy makers in making the right decisions today for the future of one of Europe's most essential and strategic industries.

With this in mind, I hope you enjoy using European Steel in Figures 2020.

JUNE 2020

About

About the European steel industry

The European steel industry is a world leader in innovation and environmental sustainability. It directly employs 330,000 highly-skilled people and through indirect and induced effects supports the jobs of up to 2.2 million more. The sector produces on average 170 million tonnes of steel per year at more than 500 steel production sites across 23 EU member states. Closely integrated with Europe's manufacturing and construction industries, steel is the backbone for development,growth and employment in Europe. Steel is the most versatile industrial material in the world. The thousands of different grades and types of steel developed by the industry make the modern world possible.

Steel is 100% recyclable and therefore is a fundamental part of the circular economy. As a basic engineering material, steel is also an essential factor in the development and deployment of innovative, CO2-mitigating technologies, improving resource efficiency and fostering sustainable development in Europe.

About EUROFER

The European Steel Association (EUROFER) represents almost all EU steel production. Founded in 1976, EUROFER's headquarters is located in Brussels. It is the voice of the European steel industry to policy makers, civil society and relevant stakeholders.

EUROFER's members are steel companies and national steel federations based throughout the EU. The national steel federations and major steel companies of Switzerland and Turkey are also associate members.

About the European Steel in Figures 2020 guide

Disclaimer

The European Steel in Figures guide is the European Steel Association's (EUROFER) annual statistical publication, which is created and issued free of charge. Now in its 12th edition, this publication gives an overview of the key statistical trends in the sector. The statistics presented here are for information only.

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Employment & economic impact

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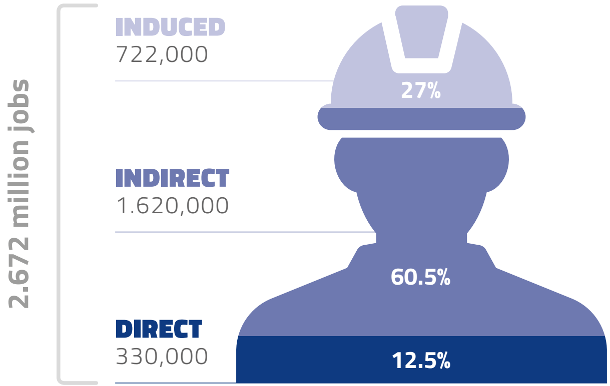
Employment & GVA in the EU steel industry

EMPLOYMENT

GRAPHIC ▪ 2019

SOURCE: OXFORD ECONOMICS

The EU steel industry supports nearly 2.6 million jobs



	'Type I' multiplier	'Type II' multiplier
Multiplier for GVA	4.4	5.8
Multiplier for jobs	5.8	7.9

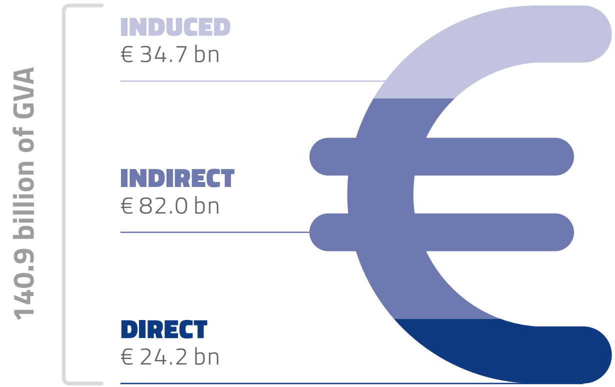
The 'type I' multiplier is the ratio of direct plus indirect activity to direct activity.
The 'type II' multiplier is the ratio of total activity to direct activity.

GROSS VALUE ADDED

GRAPHIC ▪ 2019

SOURCE: OXFORD ECONOMICS

The EU steel industry creates
around €140 billion of Gross Value Added



Direct employment in the EU steel industry: by country

Employment by absolute numbers

EMPLOYMENT PER COUNTRY IN DESCENDING ORDER

TABLE ▪ 2019

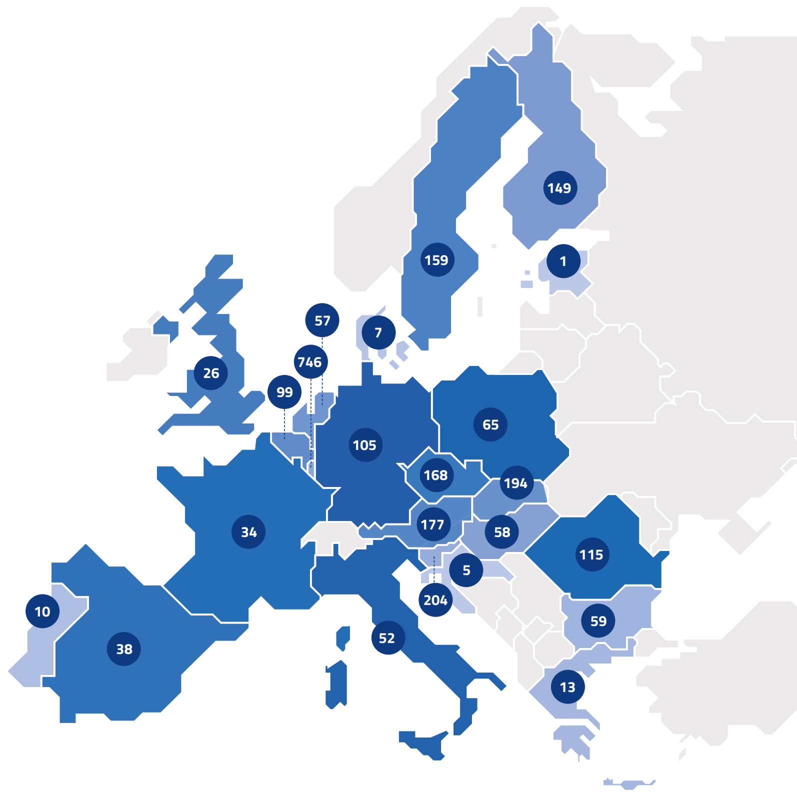
SOURCE: EUROFER

		2019	% shares 2019
1	GERMANY	86,000	26.0 %
2	ITALY	30,601	9.3 %
3	POLAND	24,700	7.5 %
4	ROMANIA	22,630	6.8 %
5	FRANCE	21,900	6.6 %
6	CZECH REPUBLIC	17,800	5.4 %
7	SPAIN*	17,400	5.3 %
8	UNITED KINGDOM	17,000	5.1 %
9	SWEDEN	15,700	4.8 %
10	AUSTRIA	15,500	4.7 %
11	BELGIUM	11,327	3.4 %
12	SLOVAKIA	10,670	3.2 %
13	NETHERLANDS	9,647	2.9 %
14	FINLAND	8,174	2.5 %
15	HUNGARY	5,661	1.7 %
16	LUXEMBOURG	4,350	1.3 %
17	SLOVENIA	4,250	1.3 %
18	BULGARIA	4,140	1.3 %
19	GREECE	1,498	0.5 %
20	PORTUGAL	1,000	0.3 %
21	DENMARK	426	0.1 %
22	CROATIA	190	0.1 %
23	ESTONIA	9	0.0 %
	TOTAL	330,523	100,0 %

EMPLOYMENT IN STEEL PER 100,000 PEOPLE

MAP ▪ 2019

SOURCE: EUROFER



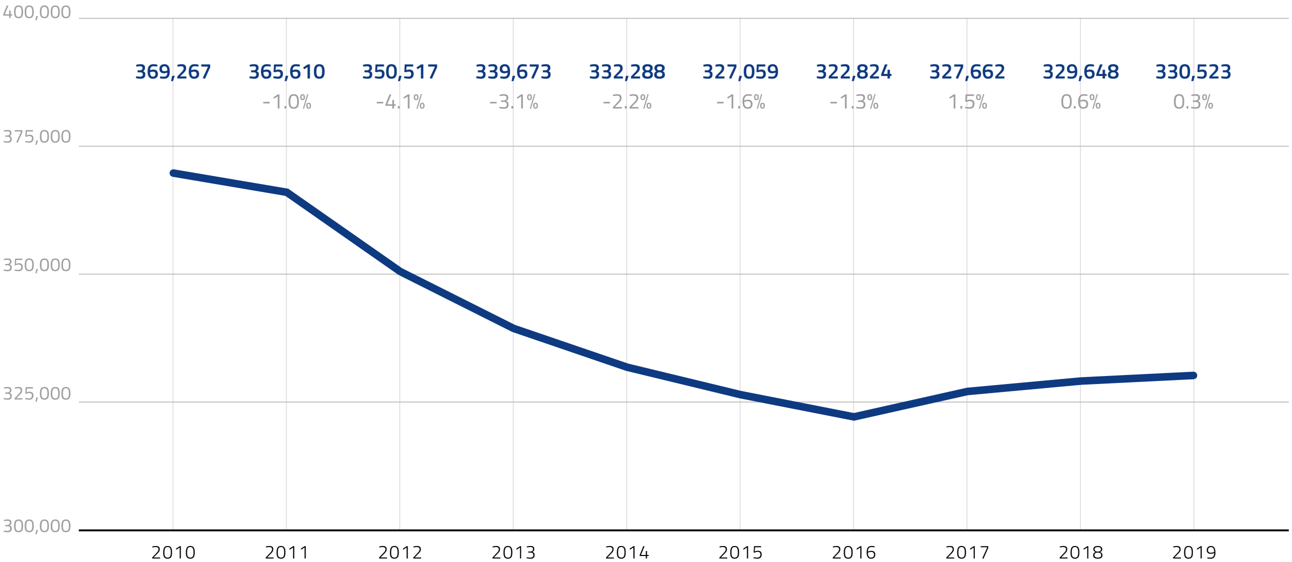
Direct employment in the EU steel industry: by country

Employment by absolute numbers

EMPLOYMENT: EVOLUTION

GRAPH ▪ 2010 – 2019

SOURCE: EUROFER (steel companies + national steel companies and associations)



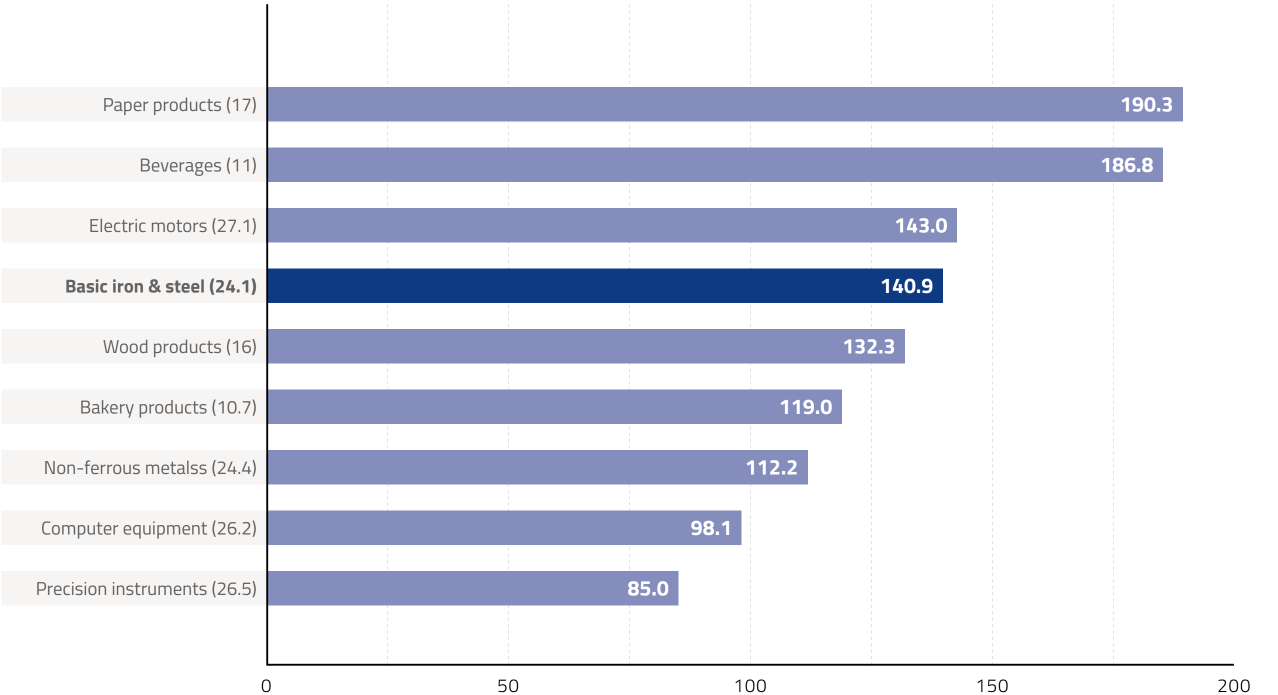
Gross Value Added: Comparison

Value added ▪ in € '000,000

VALUE OF PRODUCTION COMPARED WITH OTHER EU INDUSTRIES

CHART ▪ 2019

SOURCE: EUROSTAT – OXFORD ECONOMICS



Production

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Crude steel production per region: World

All qualities ▪ in '000,000 metric tonnes

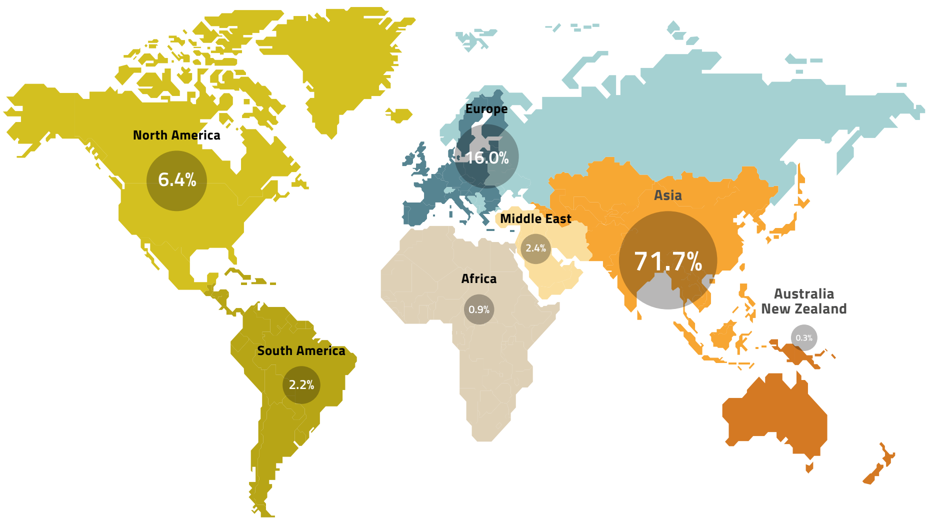
REGIONS IN DESCENDING ORDER OF CRUDE STEEL PRODUCTION TABLE ▪ 2019

SOURCE: EUROFER

	2019	% shares 2019
Asia	**1,341**	**71.7%**
of which China	996	53.3%
of which India	111	5.9%
of which Japan	99	5.3%
Europe	**298**	**16.0%**
of which European Union	159	8.5%
of which CIS	100	5.4%
North America	**120**	**6.4%**
of which United States	87	4.7%
South America	**41**	**2.2%**
Middle East	**45**	**2.4%**
Africa	**17**	**0.9%**
Australia/New Zealand	**6**	**0.3%**
WORLD	1,870	100%

MAP OF STEEL PRODUCTION BY REGION MAP ▪ 2019

SOURCE: EUROFER



Crude steel production per country: EU

All qualities ▪ in '000 metric tonnes

EU COUNTRIES IN DESCENDING ORDER OF CRUDE STEEL PRODUCTION

TABLE ▪ 2019

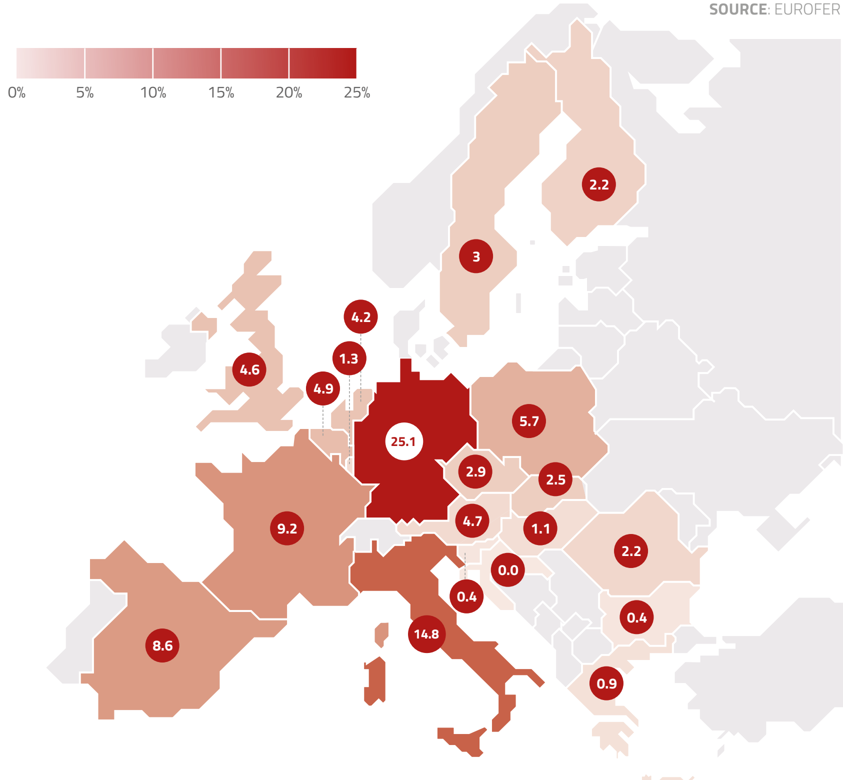
SOURCE: EUROFER

		2019	% shares 2019
1	GERMANY	39,666	25.1%
2	ITALY	23,241	14.8%
3	FRANCE	14,451	9.2%
4	SPAIN	13,503	8.6%
5	POLAND	8,956	5.7%
6	BELGIUM	7,760	4.9%
7	AUSTRIA	7,424	4.7%
8	UNITED KINGDOM	7,218	4.6%
9	NETHERLANDS	6,657	4.2%
10	SWEDEN	4,699	3%
11	CZECH REPUBLIC	4,550	2.9%
12	SLOVAKIA	3,931	2.5%
13	FINLAND	3,473	2.2%
14	ROMANIA	3,448	2.2%
15	LUXEMBOURG	2,119	1.3%
16	HUNGARY	1,769	1.1%
17	GREECE	1,350	0.9%
18	BULGARIA	566	0.4%
19	SLOVENIA	669	0.4%
20	CROATIA	69	0.0%
21	OTHERS	2,033	1.3%
	TOTAL	**157,553**	**100%**

EU COUNTRIES SHOWN BY RELATIVE SIZE OF CRUDE STEEL PRODUCTION

MAP ▪ 2019

SOURCE: EUROFER



Crude steel production per country: EU

All qualities ▪ in '000 metric tonnes

CRUDE STEEL OUTPUT PER COUNTRY

TABLE ▪ 2015 – 2019

SOURCE: EUROFER

	2015	2016	2017	2018	2019	% shares 2019
AUSTRIA	7,687	7,438	8,135	6,885	7,424	4.7%
BELGIUM	7,257	7,687	7,842	7,980	7,760	4.9%
BULGARIA	543	527	652	666	566	0.4%
CROATIA	122	0	0	136	69	0.0%
CZECH REPUBLIC	5,262	5,305	4,686	4,938	4,550	2.9%
FINLAND	3,988	4,101	4,003	4,146	3,473	2.2%
FRANCE	14,984	14,413	15,506	15,385	14,451	9.2%
GERMANY	42,676	42,080	43,297	42,435	39,666	25.1%
GREECE	910	1,158	1,359	1,467	1350	0.9%
HUNGARY	1,674	1,279	1,901	1,989	1,769	1.1%
ITALY	22,018	23,373	24,068	24,532	23241	14.8%
LUXEMBOURG	2,127	2,175	2,172	2,228	2,119	1.3%
NETHERLANDS	6,995	6,917	6,781	6,813	6,657	4.2%
POLAND	9,198	8,940	10,332	10,167	8,956	5.7%
ROMANIA	3,352	3,276	3,361	3,550	3,448	2.2%
SLOVAKIA	4,562	4,808	4,980	4,947	3,931	2.5%
SLOVENIA	625	644	673	692	669	0.4%
SPAIN	14,846	13,643	14,434	14,299	13,503	8.6%
SWEDEN	4,348	4,595	4,692	4,632	4,699	3%
UNITED KINGDOM	10,907	7,635	7,492	7,268	7,218	4.6%
OTHERS	2,015	1,998	2,056	2,215	2,033	1.3%
TOTAL	**166,096**	**161,993**	**168,422**	**167,370**	**157,553**	**100%**

EU crude steel production: by process

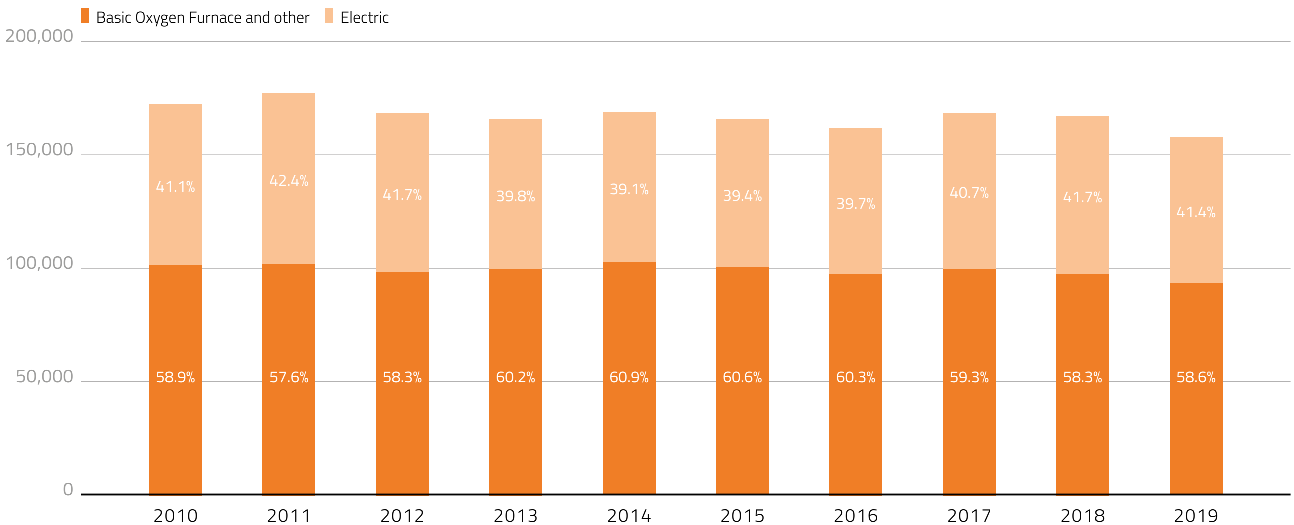
All qualities ▪ in ‘000 metric tonnes

EU CRUDE STEEL OUTPUT BY PRODUCTION ROUTE

TABLE, CHART ▪ 2010 – 2019

SOURCE: EUROFER

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% shares 2019
Basic Oxygen Furnace and other	101,790	102,3710	98,316	100,106	103,024	100,577	97,642	99,925	97,588	92,382	58.6%
Electric	70,995	75,204	70,266	66,069	66,074	65,519	64,351	68,497	69,781	65,171	41.4%
Total Crude Steel	**172,785**	**177,576**	**168,583**	**166,175**	**169,098**	**166,096**	**161,993**	**168,422**	**167,370**	**157,553**	**100%**



EU crude steel production: by quality

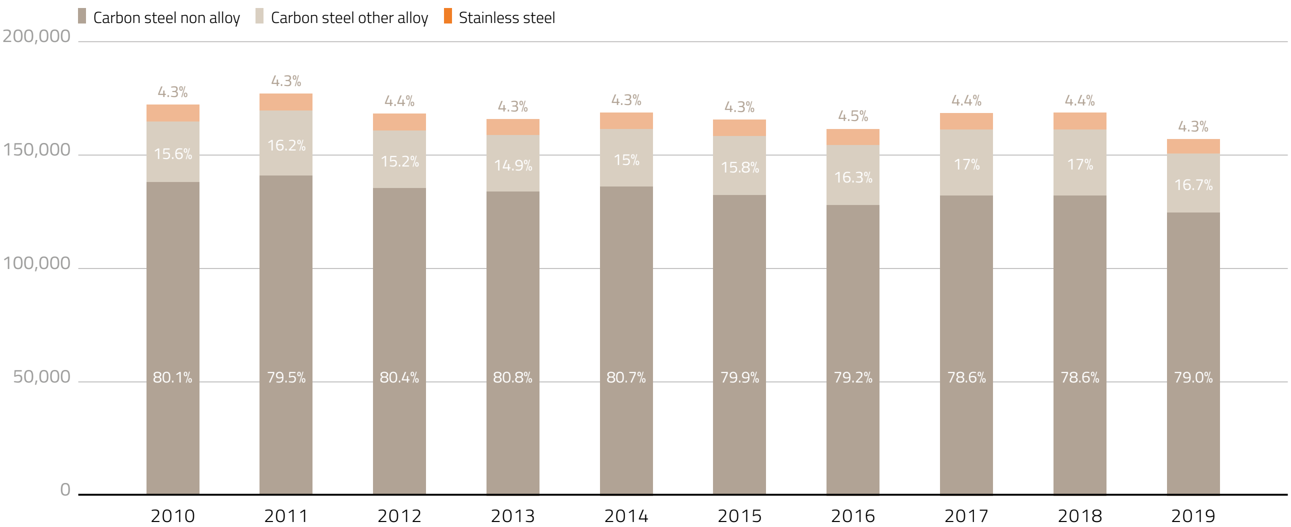
All qualities ▪ in '000 metric tonnes

EU CRUDE STEEL OUTPUT BY QUALITY

TABLE, CHART ▪ 2010 – 2019

SOURCE: EUROFER

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% shares 2019
Carbon steel non alloy	138,402	141,204	135,559	134,281	136,472	132,715	128,312	132,481	131,507	124,507	79.0%
Carbon steel other alloy	26,896	28,812	25,566	24,753	25,384	26,215	26,399	28,560	28,476	26,246	16.7%
Stainless steel	7,486	7,559	7,458	7,142	7,242	7,166	7,282	7,381	7,386	6,801	4.3%
Total Crude Steel	**172,785**	**177,576**	**168,583**	**166,175**	**169,098**	**166,096**	**161,993**	**168,422**	**167,370**	**157,553**	**100%**



EU finished steel production: by product category

All qualities ▪ in '000 metric tonnes

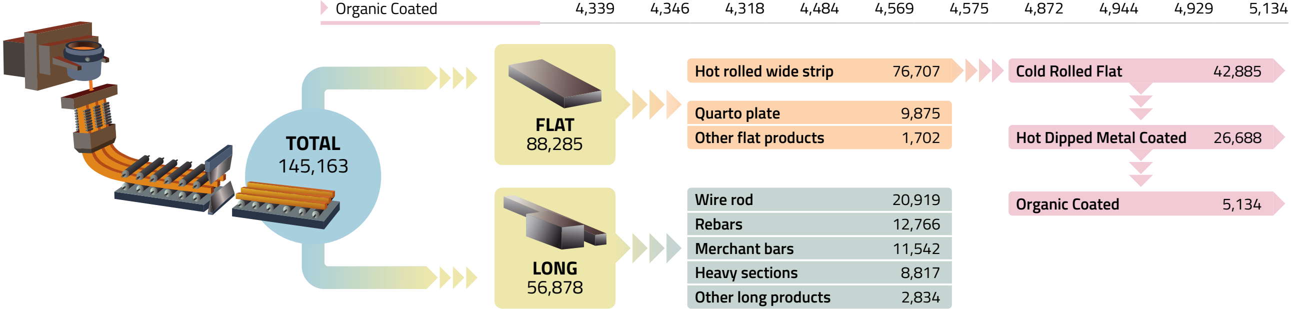
EU TOTAL FINISHED STEEL PRODUCTION BY PRODUCT

TABLE, CHART ▪ 2010 – 2019

SOURCE: EUROFER

NOTE: Downstream processing converts some HRWS into CRF, and some CRF into Hot Dipped and some Hot Dipped into Organic Coated. Downstream processing uses both domestic and imported steel. Production totals may thus not add up precisely.

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Total Hot Rolled	**156,491**	**161,546**	**152,675**	**150,518**	**152,399**	**151,026**	**150,451**	**153,899**	**154,537**	**145,163**
of which flat products	94,963	97,095	92,592	92,835	94,380	92,465	92,280	95,294	94,727	88,285
Quarto Plate	12,139	13,187	12,350	11,021	11,595	10,963	10,580	10,947	10,744	9,875
Hot Rolled Wide Strip	81,164	82,151	78,719	80,358	81,281	80,024	80,015	82,535	82,148	76,707
Other flat products	16,59	1,756	1,523	1,456	1,504	1,477	1,686	1,812	1,836	1,702
of which long products	61,529	64,452	60,082	57,683	58,019	58,561	58,170	58,605	59,809	56,878
Wire Rod	21,519	22,452	20,652	20,138	20,,159	20,843	20,389	21,184	21,886	20,919
Rebars	14,724	15,037	14,644	13,172	13,020	12,762	13,230	12,521	12,616	12,766
Merchant Bars	12,969	14,590	12,443	12,586	13,074	12,754	12,277	12,798	13,052	11,542
Heavy Sections	9,056	9,335	9,326	8,584	8,590	8,899	9,433	9,313	9,365	8,817
Other long products	3,262	3,038	3,018	3,204	3,175	3,304	2,841	2,789	2,889	2,834
Products obtained from upstream production – from Hot Rolled Wide Strip										
Cold Rolled Flat	45,369	44,472	42,414	43,502	44,649	44,780	45,321	46,426	45,487	42,885
Hot Dipped	24,149	24,805	23,992	25,009	26,786	27,299	27,398	28,116	27,691	26,688
Organic Coated	4,339	4,346	4,318	4,484	4,569	4,575	4,872	4,944	4,929	5,134



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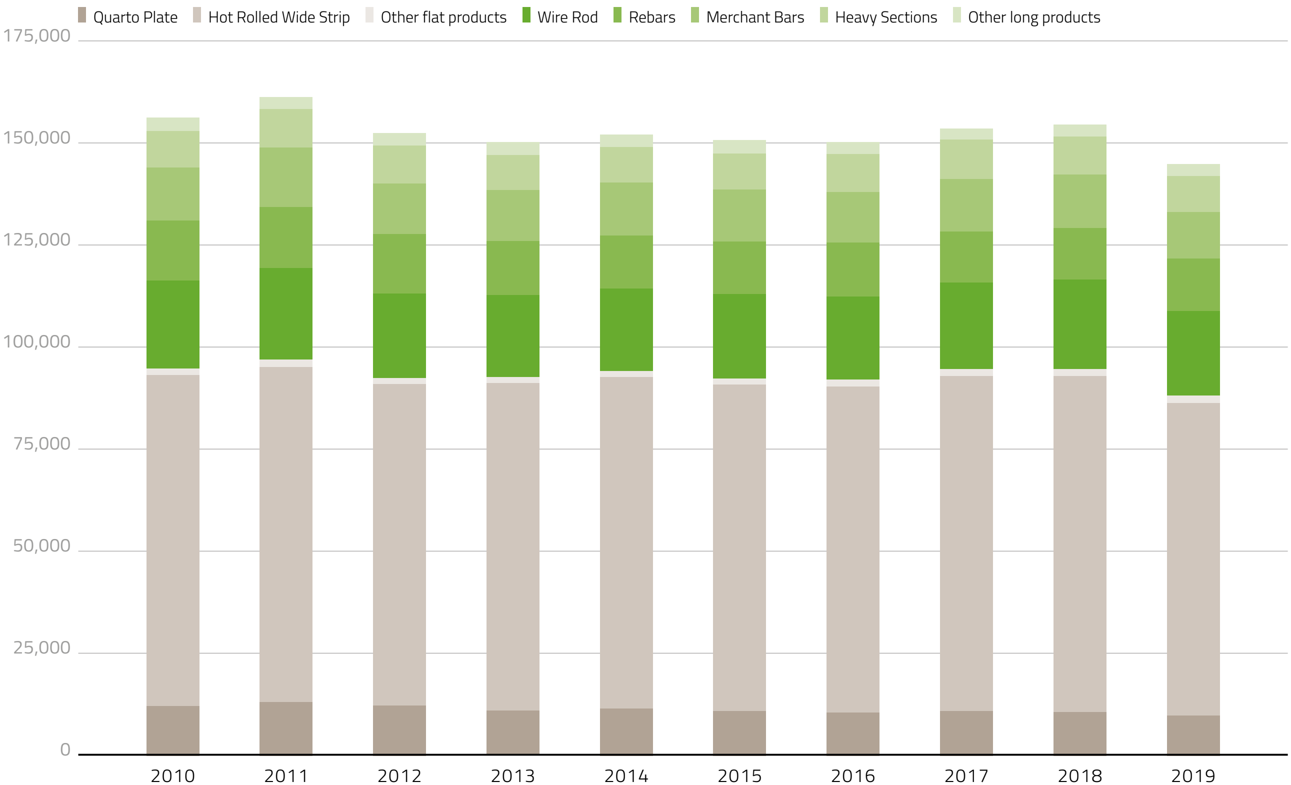
EU Hot Rolled finished steel production: by product category

All qualities ▪ in '000 metric tonnes

EU HOT ROLLED FINISHED STEEL PRODUCTION

CHART ▪ 2010 – 2019

SOURCE: EUROFER



Map of steel production in Europe

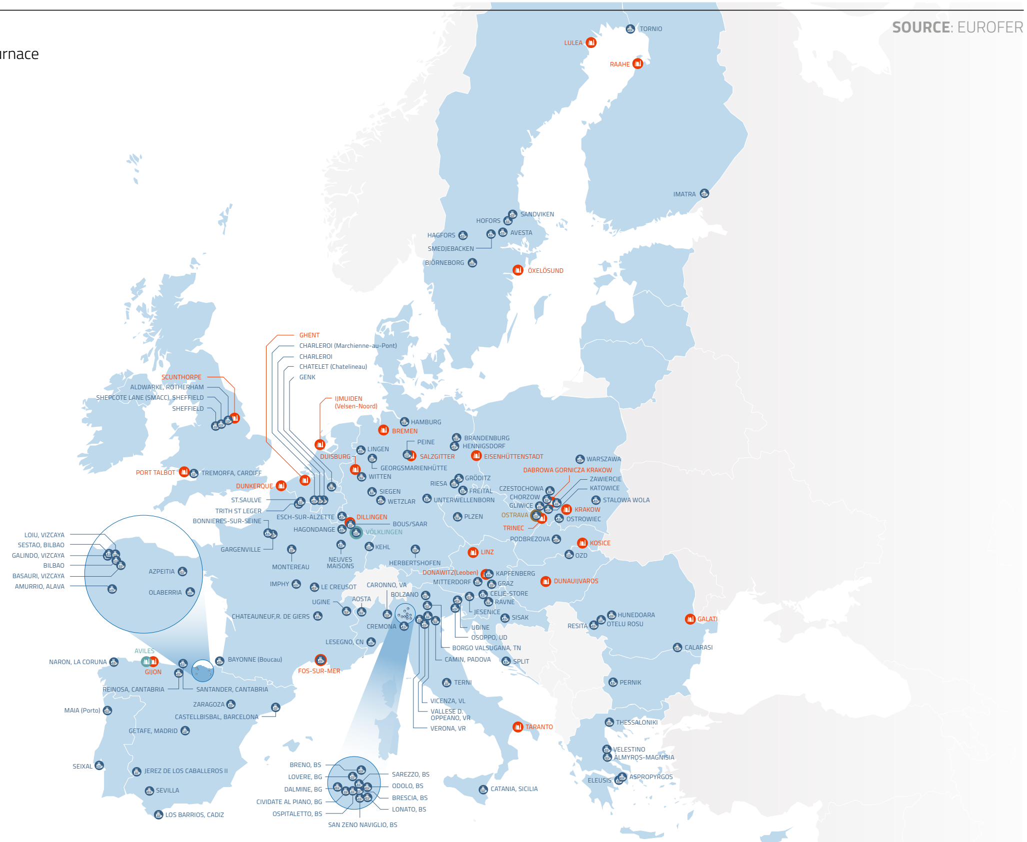
Red: BF-BOF ▪ Blue: EAF

PRIMARY AND SECONDARY STEEL PRODUCTION ACROSS THE EU

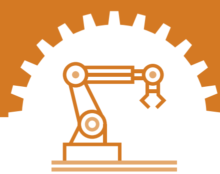
MAP ▪ 2019

SOURCE: EUROFER

- Blast Furnace & Basic Oxygen Furnace
- Blast Furnace only
- Basic Oxygen Furnace only
- Electric Arc Furnace



Steel use & market supply



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Steel use & market supply

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Consumption: Real and apparent steel consumption

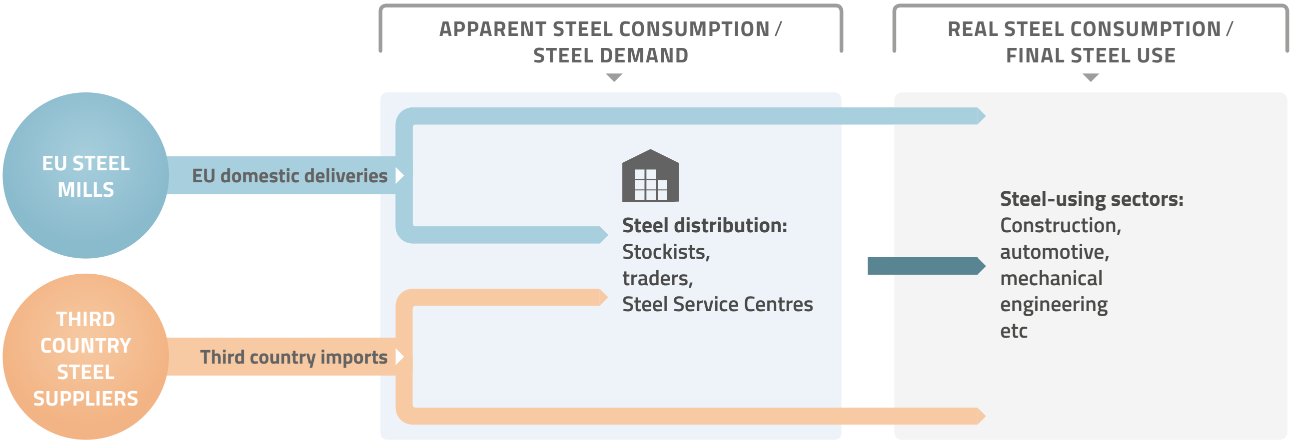
All products, all qualities ▪ in ‘000 metric tonnes

ROUTES TO MARKET OR FINAL USE OF STEEL PRODUCTS

DIAGRAM

SOURCE: EUROFER

Steel used in the EU is a mix of domestic production & imports from third countries



EU steel mills and **third country steel suppliers** deliver steel products to the EU steel market.

The steel market has different levels. Steel products can be sold ‘indirectly’ to operators in steel distribution or sold ‘directly’ to **steel-using sectors**.

Operators in **steel distribution** include steel service centres, stockists and traders. They stock and sell products. Service centres and stockists provide additional services to **steel-using sectors** such as cutting, slitting, drilling, bending, etc. Inventory levels in steel distribution vary over time, reflecting seasonal demand patterns and – to some extent – speculation.

Apparent steel consumption – often referred to as steel demand or market supply – is the total of all steel delivered to the steel market, including steel products that are being stocked rather than consumed immediately by the steel-using sectors.

Real steel consumption – or final steel use – is the quantity of steel that actually is consumed by steel using sectors in their production processes.

The difference between real and apparent steel consumption is the change in steel inventories over a given period.

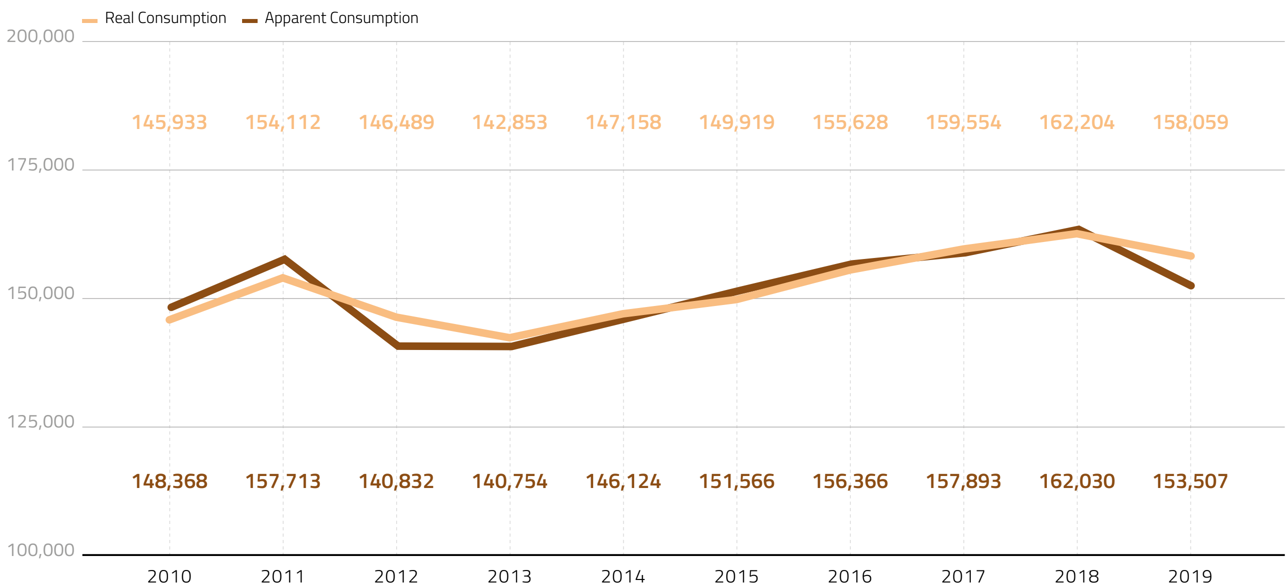
Consumption: Real & apparent steel consumption

All products, all qualities ▪ in '000 metric tonnes

REAL VS APPARENT CONSUMPTION

GRAPH ▪ 2010 – 2019

SOURCE: EUROFER



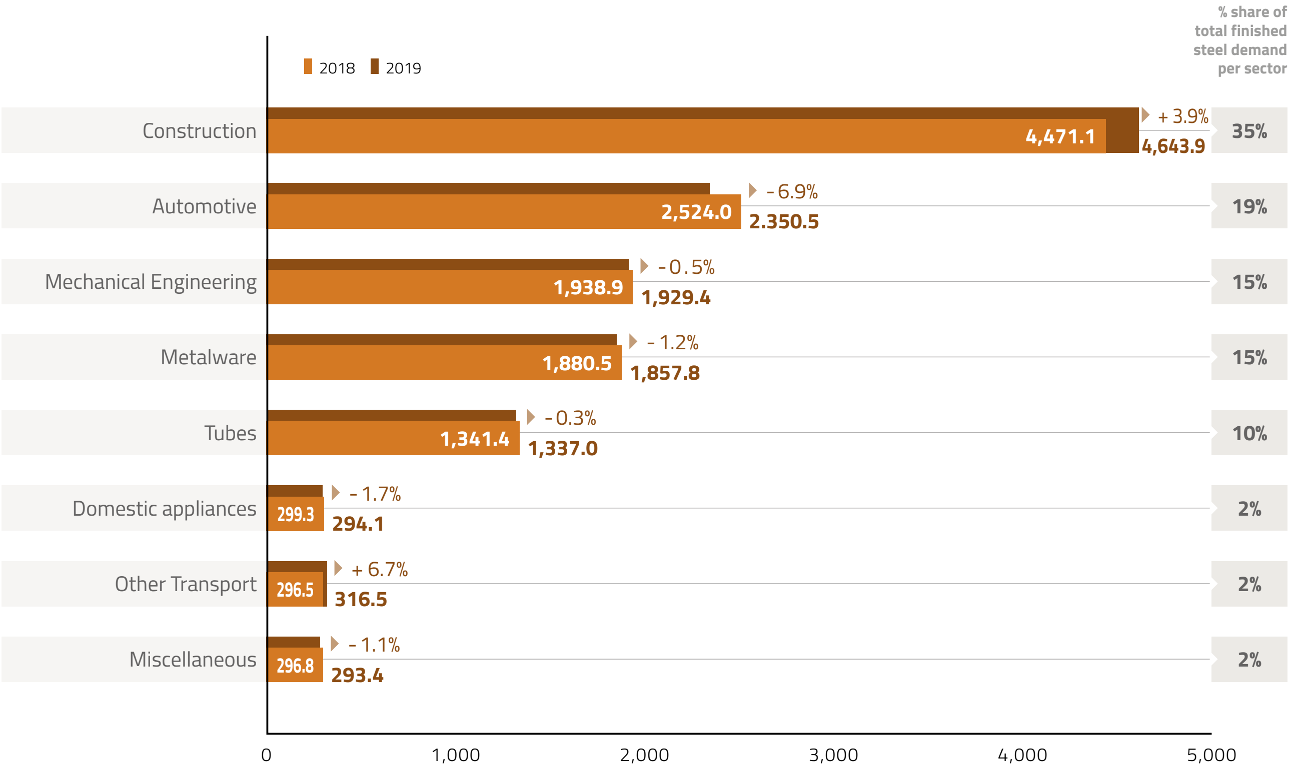
Consumption: by sector of economic activity

All products, all qualities ▪ in '000 monthly metric tonnes

STEEL CONSUMPTION PER STEEL-USING SECTOR

CHART ▪ 2018 – 2019

SOURCE: EUROFER



Note: Consumption by steel-using sector is calculcated using the Steel-Weighted Industrial Production (SWIP) index, which is used to estimate changes in production activity in these sectors.

Stock change

All products, all qualities ▪ in '000 metric tonnes

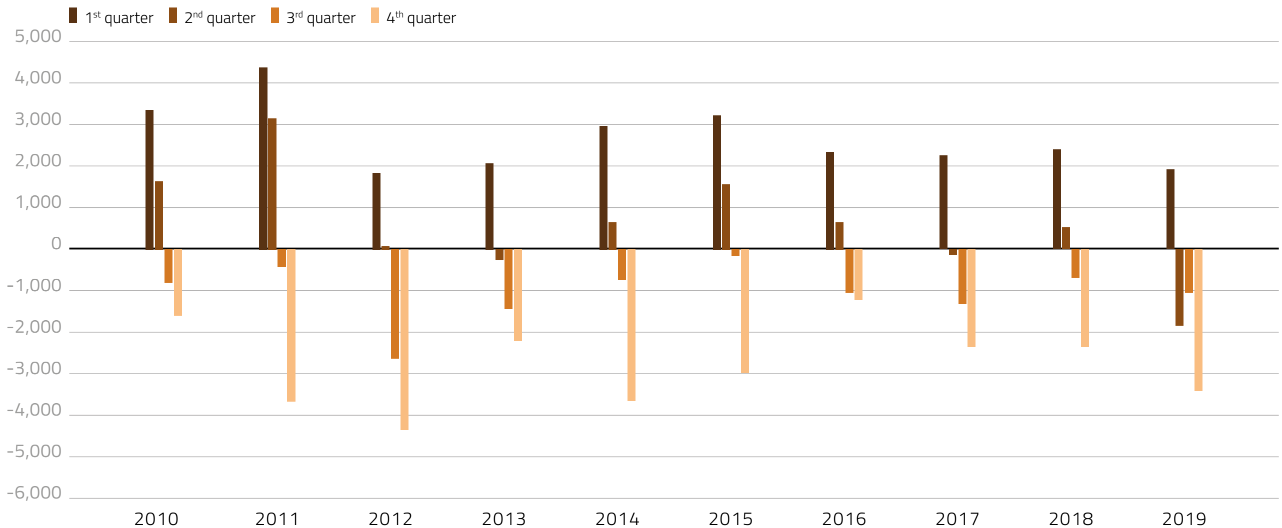
STOCK CHANGE

TABLE ▪ 2010 – 2019

SOURCE: EUROFER

Changes in stock levels explain the difference between real & apparent steel consumption

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
1st quarter	3,341	4,375	1,828	2,033	2,931	3,175	2,301	2,211	2,369	1,884
2nd quarter	1,636	3,098	30	-321	618	1,551	613	-107	502	-1,840
3rd quarter	-852	-477	-2,687	-1,486	-786	-182	-1,048	-1,330	-697	-1,050
4th quarter	-1,649	-3,719	-4,404	-2,266	-3,708	-2,986	-1,235	-2,372	-2,365	-3,423



Consumption by steel-using sectors is calculcated using the Steel-Weighted Industrial Production (SWIP) index, which is used to estimate changes in economic activity.

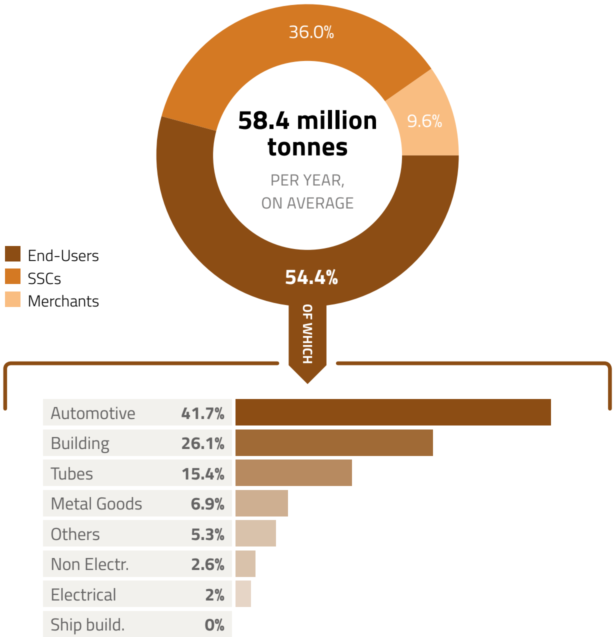
Specific flat product deliveries: Strip mill products & quarto plate

EU STRIP MILL PRODUCT DELIVERIES

GRAPHIC ▪ 2015/2019

SOURCE: EUROFER

Strip mill products are flat products used in a variety of downstream applications.

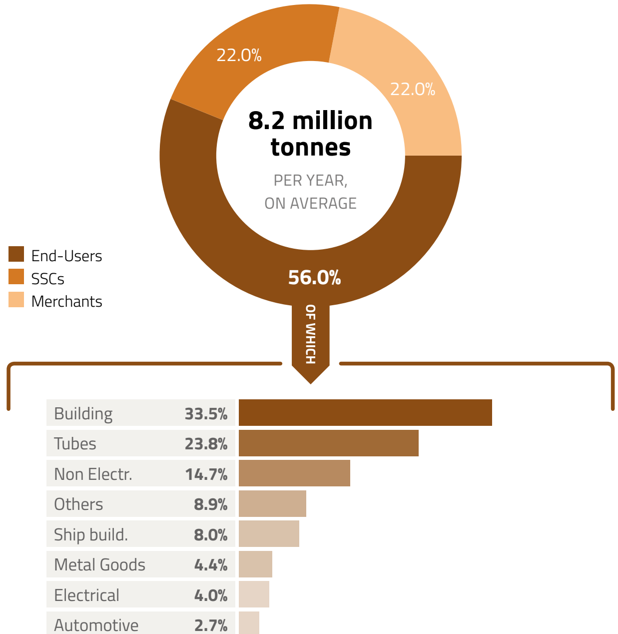


EU QUARTO PLATE DELIVERIES

GRAPHIC ▪ 2015/2019

SOURCE: EUROFER

Quarto plate is a thicker gauge of flat steel used in heavy applications.



Market supply: Total flat products

Non-alloy and other alloy steels ▪ in '000 metric tonnes

TOTAL FLAT PRODUCTS

TABLE ▪ 2010 – 2019

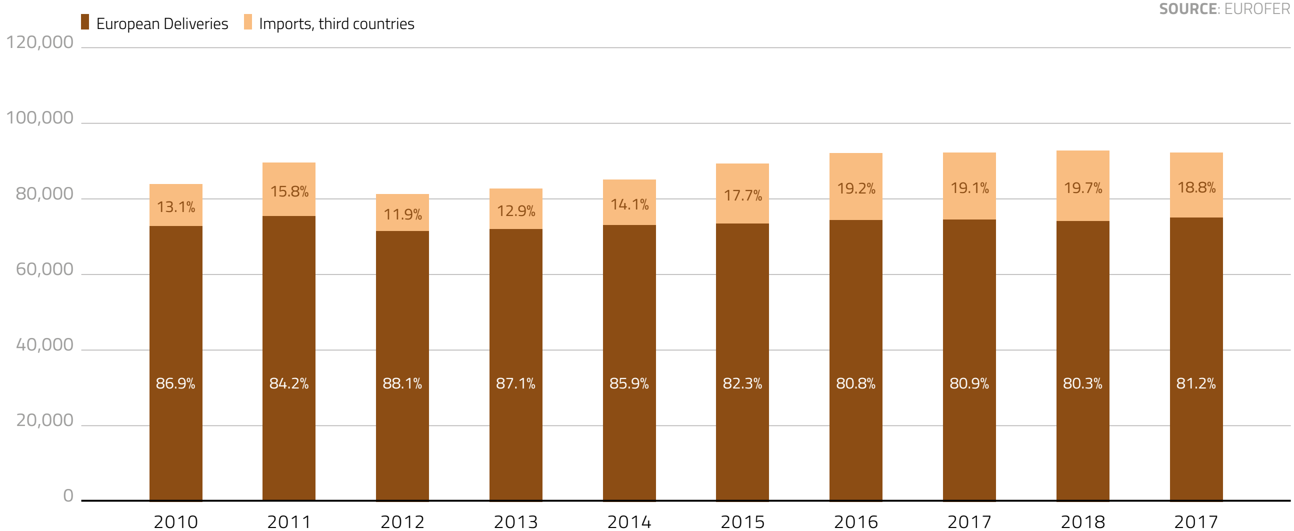
SOURCE: EUROFER

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% shares 2019
European Deliveries	73,048	75,617	71,774	72,248	73,119	73,726	74,831	75,147	75,436	71,802	81.2%
Imports third countries	11,057	14,213	9,701	10,705	12,039	15,819	17,790	17,752	18,534	16,668	18.8%
Market Supply	**84,105**	**89,830**	**81,475**	**82,953**	**85,158**	**89,545**	**92,621**	**92,899**	**93,970**	**88,470**	**100%**

TOTAL FLAT PRODUCTS

CHART ▪ 2010 – 2019

SOURCE: EUROFER



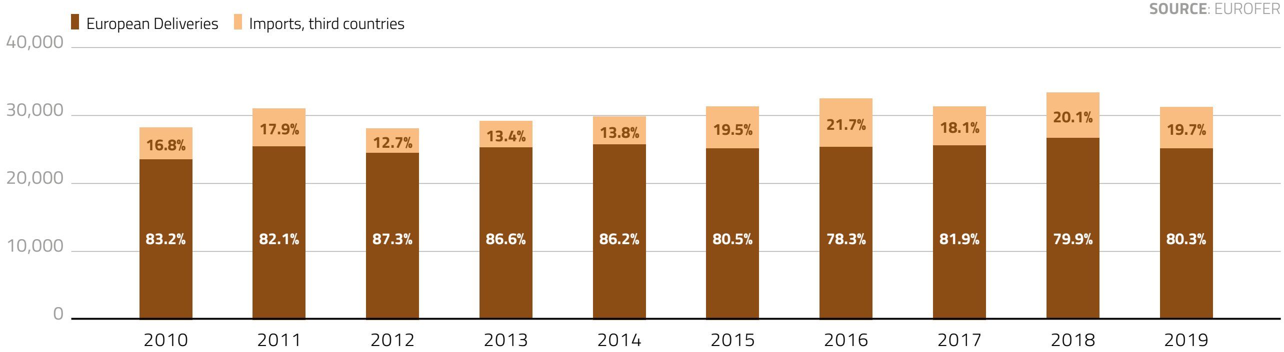
Market supply: Hot rolled flat & cold rolled sheet

Non-alloy and other alloy steels ▪ in '000 metric tonnes

HOT ROLLED FLAT PRODUCTS

CHART ▪ 2010 – 2019

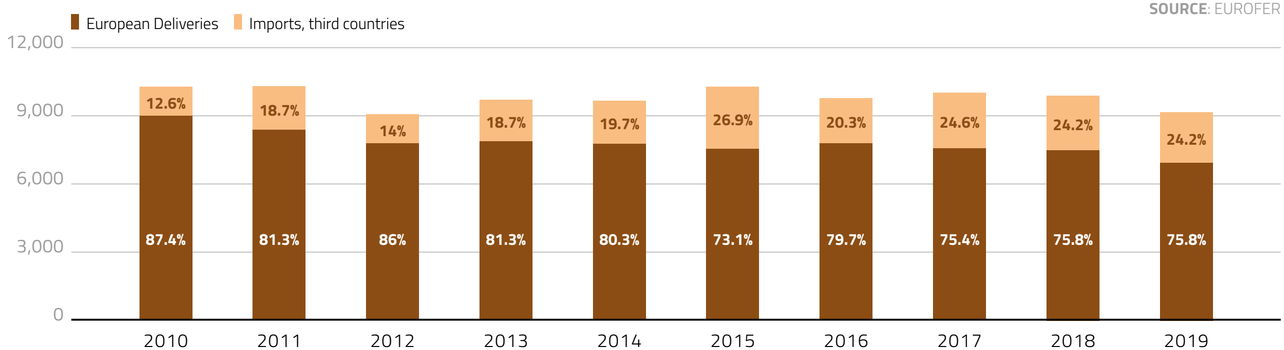
SOURCE: EUROFER



COLD ROLLED SHEETS

CHART ▪ 2010 – 2019

SOURCE: EUROFER



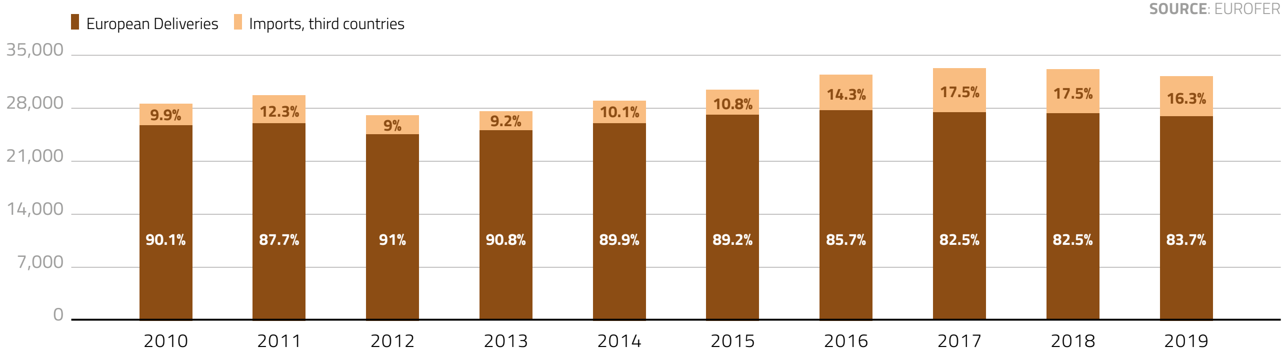
Market supply: Coated sheets & quarto plate

Non-alloy and other alloy steels ▪ in '000 metric tonnes

TOTAL COATED SHEETS

CHART ▪ 2010 – 2019

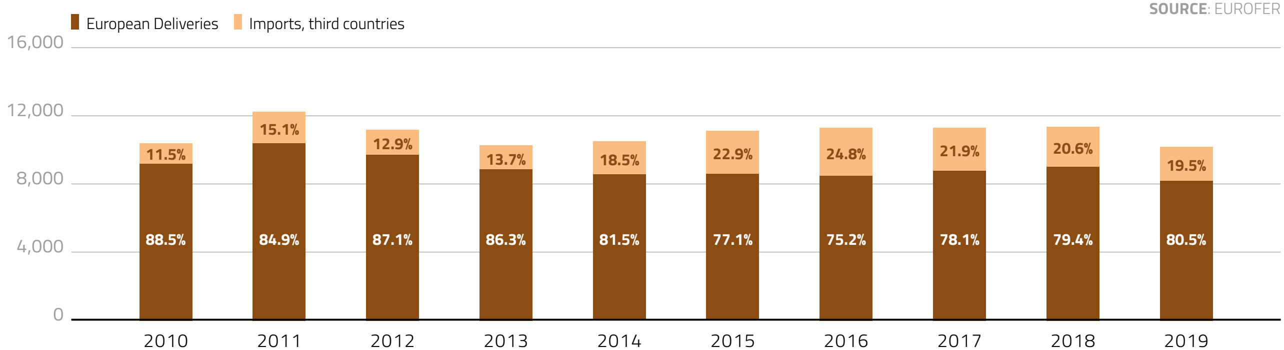
SOURCE: EUROFER



QUARTO PLATE

CHART ▪ 2010 – 2019

SOURCE: EUROFER



Market supply: Total long products

Non-alloy and other alloy steels ▪ in '000 metric tonnes

TOTAL LONG PRODUCTS

TABLE ▪ 2010 – 2019

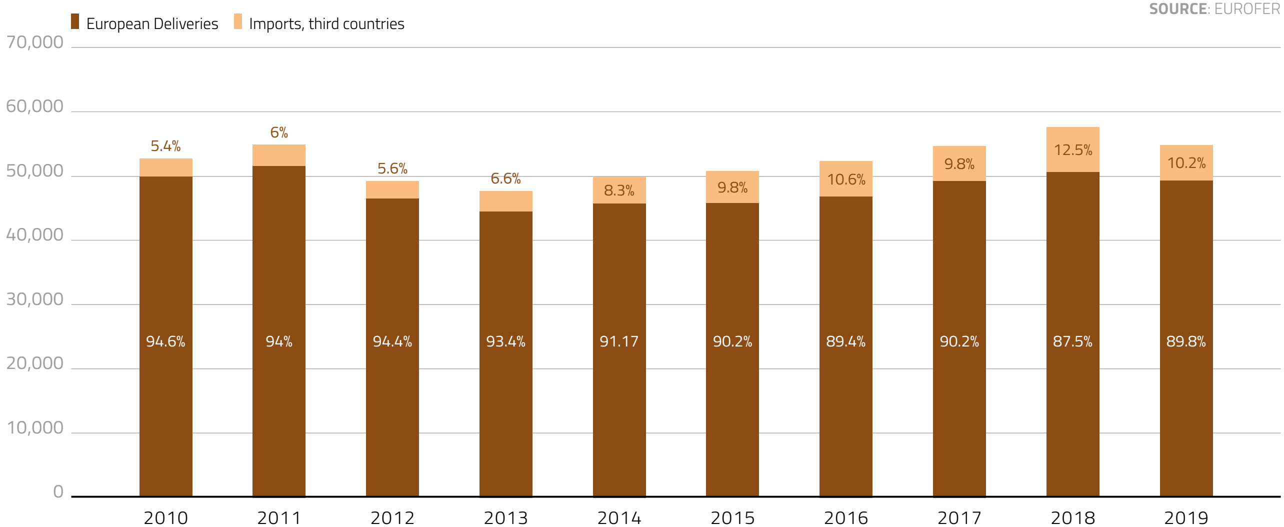
SOURCE: EUROFER

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% shares 2019
European Deliveries	50,014	51,698	46,584	44,614	45,827	45,886	46,679	49,330	50,492	49,277	89.8%
Imports, third countries	2,830	3,297	2,738	3,144	4,146	4,993	5,525	5,388	7,196	5,570	10.2%
Market Supply	**52,844**	**54,995**	**49,322**	**47,758**	**49,973**	**50,879**	**52,204**	**54,718**	**57,688**	**54,847**	**100%**

TOTAL LONG PRODUCTS

CHART ▪ 2010 – 2019

SOURCE: EUROFER



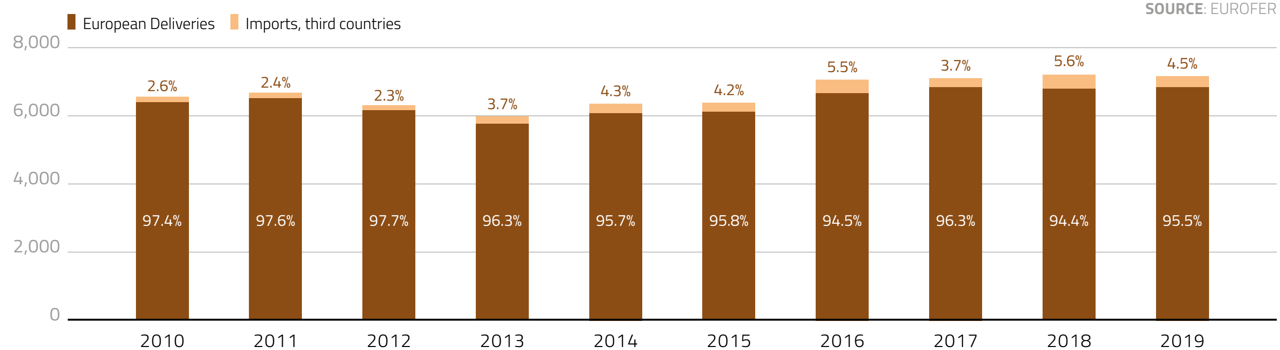
Market supply: Beams & rebar

Non-alloy and other alloy steels ▪ in '000 metric tonnes

BEAMS

CHART ▪ 2010 – 2019

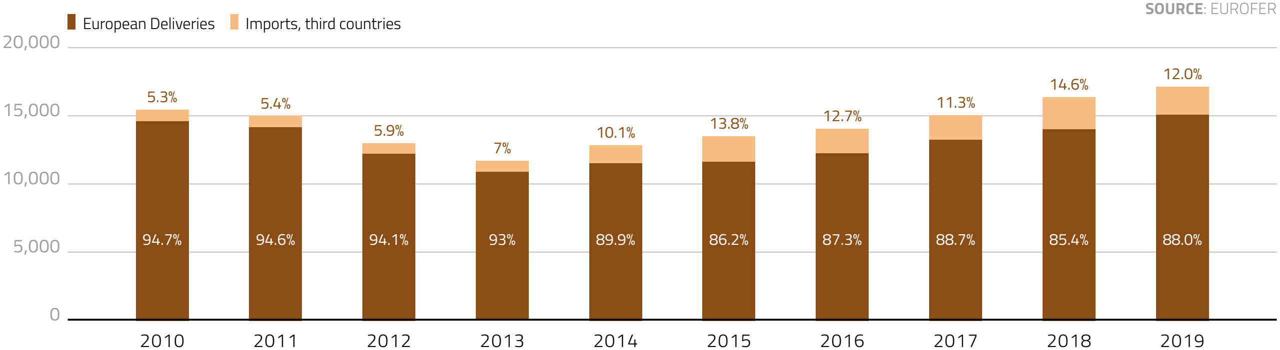
SOURCE: EUROFER



REBAR, INCLUDING DEFORMED RODS

CHART ▪ 20010 – 2019

SOURCE: EUROFER



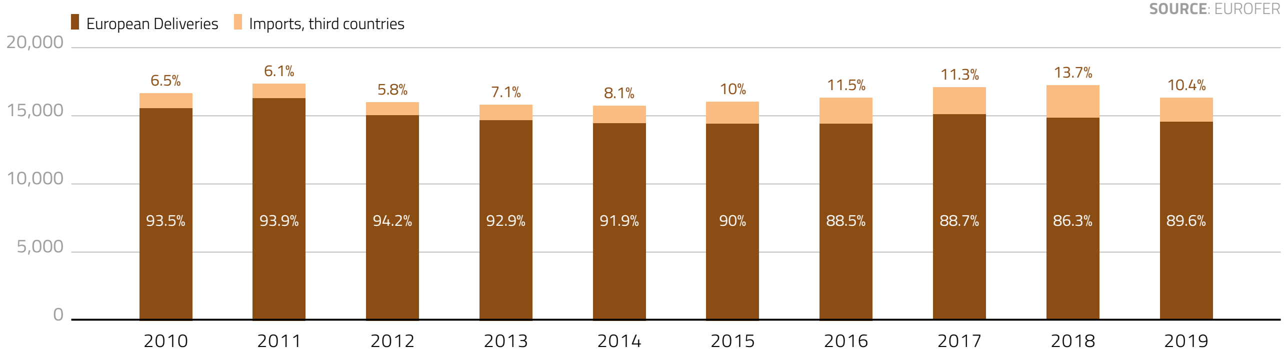
Market supply: Wire rod & merchant bar

Non-alloy and other alloy steels ▪ in '000 metric tonnes

WIRE ROD, EXCLUDING DEFORMED RODS

CHART ▪ 2010 – 2019

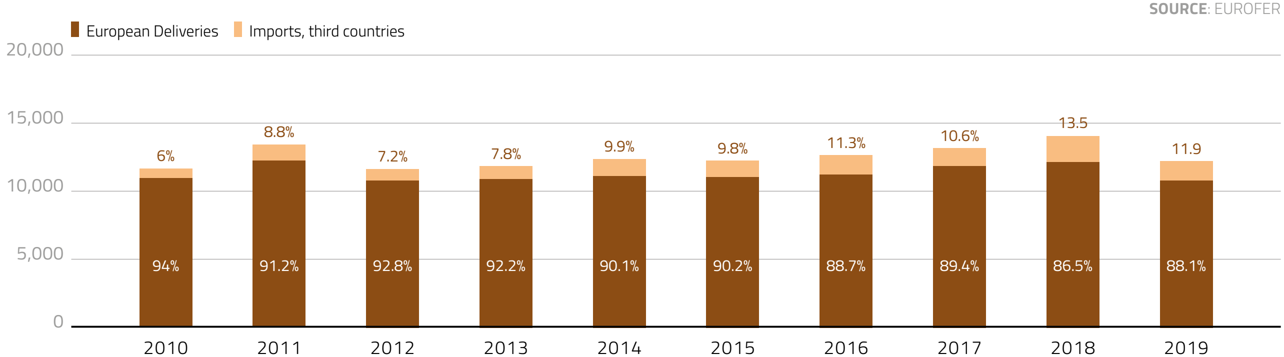
SOURCE: EUROFER



MERCHANT BARS

CHART ▪ 2010 – 2019

SOURCE: EUROFER



International trade

EUROPEAN STEEL IN FIGURES **2020**

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Imports into the EU: Total

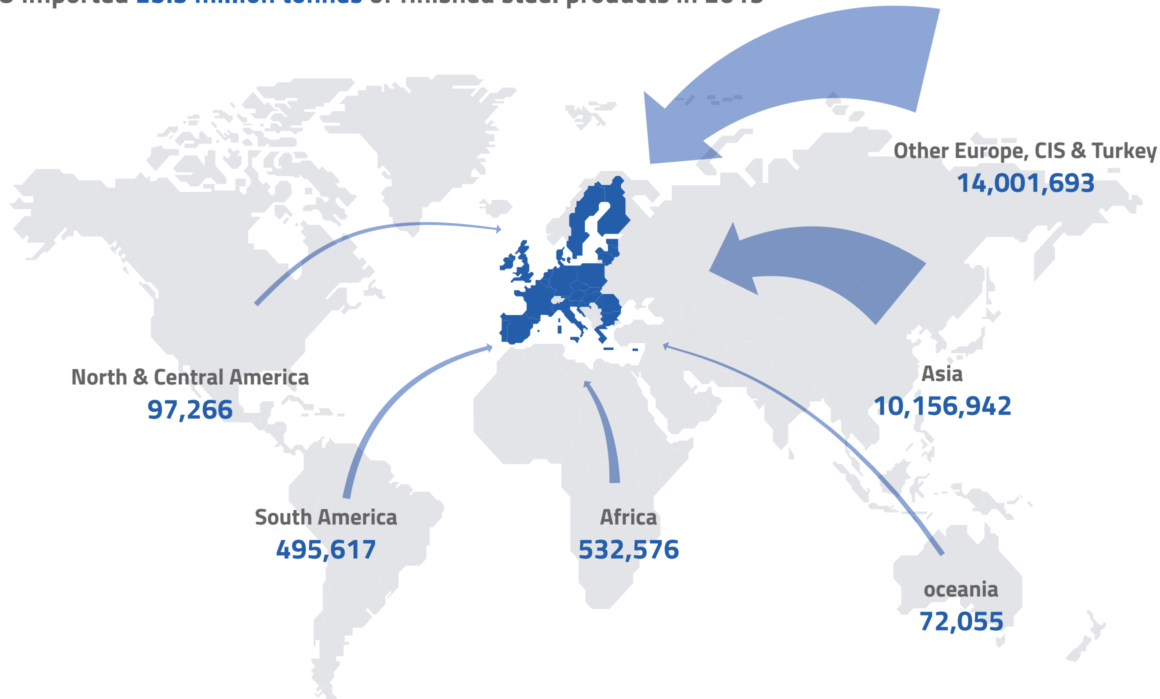
All qualities ▪ in metric tonnes

TOTAL IMPORTS INTO THE EU

MAP ▪ 2019

SOURCE: EUROFER

The EU imported 25.3 million tonnes of finished steel products in 2019



Imports into the EU: Total

All qualities ▪ in '000 metric tonnes

TOTAL IMPORTS INTO THE EU

TABLE ▪ 2010 – 2019

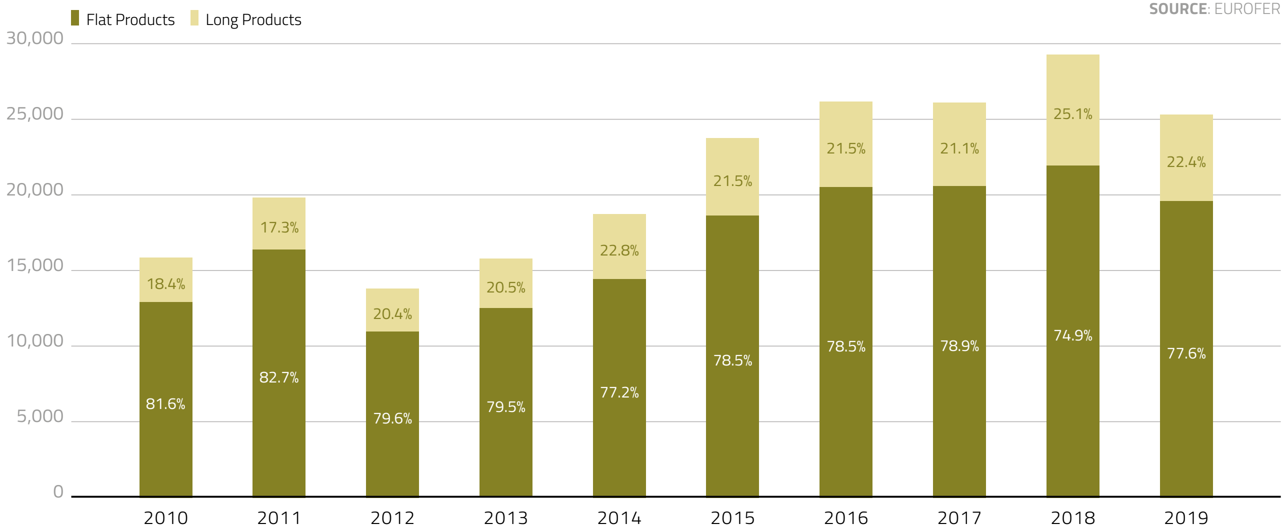
SOURCE: EUROFER

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% shares 2019
Flat Products	12,945	16,426	11,005	12,563	14,475	18,676	20,556	20,615	21,938	19,681	77.6%
Long Products	2,928	3,434	2,827	3,244	4,277	5,101	5,638	5,503	7,341	5,697	22.4%
Finished Products	**15,872**	**19,860**	**13,833**	**15,807**	**18,753**	**23,777**	**26,194**	**26,118**	**29,279**	**25,378**	**100%**

TOTAL IMPORTS INTO THE EU

CHART ▪ 2010 – 2019

SOURCE: EUROFER



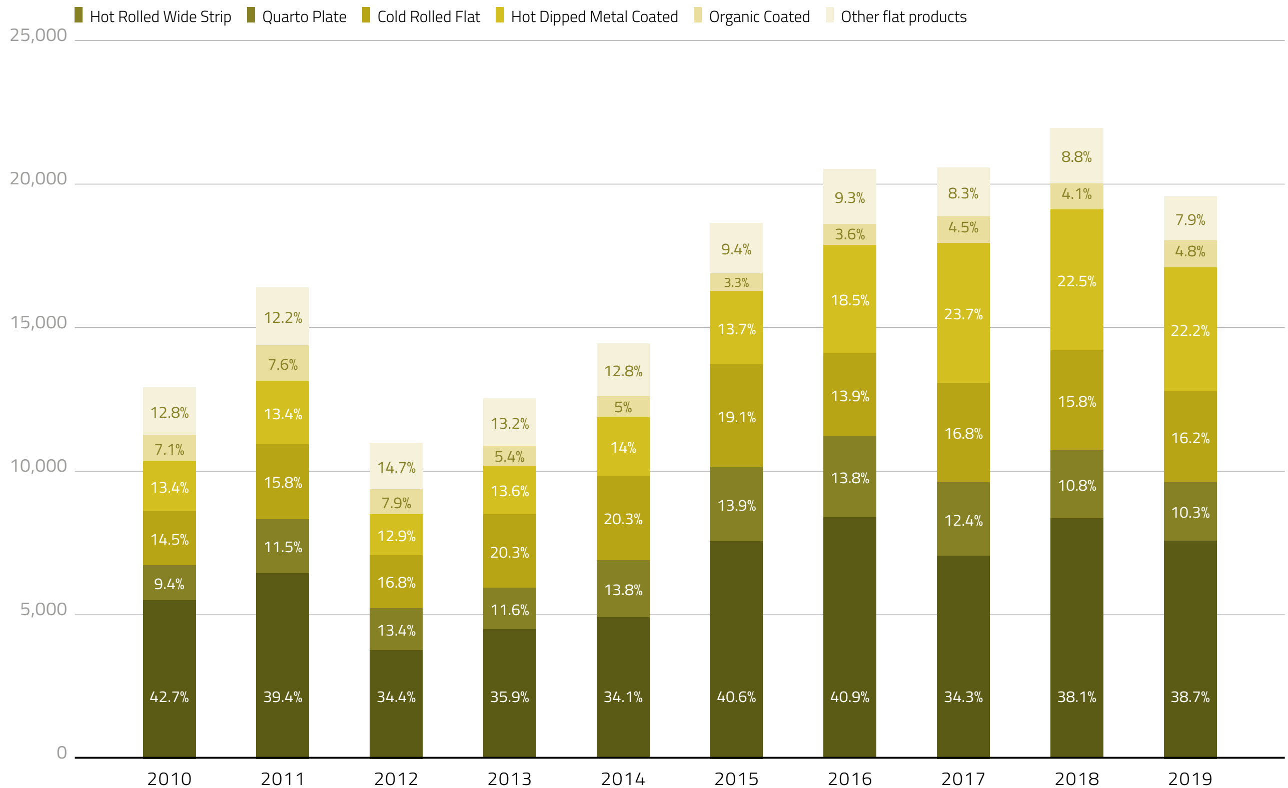
Imports into the EU: Flat products

All qualities ▪ in ‘000 metric tonnes

FLAT PRODUCT IMPORTS INTO THE EU BY PRODUCT

CHART ▪ 2010 – 2019

SOURCE: EUROFER



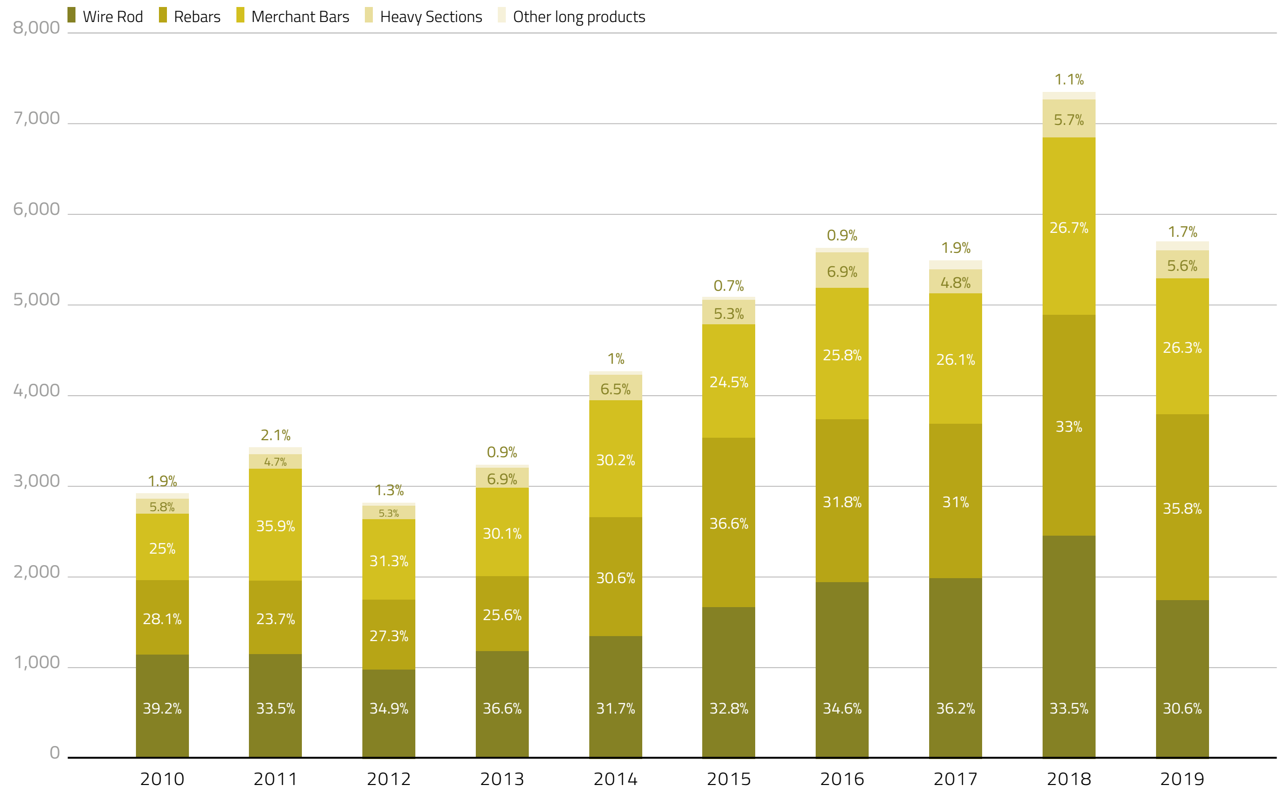
Imports into the EU: Long products

All qualities ▪ in '000 metric tonnes

LONG PRODUCT IMPORTS INTO THE EU BY PRODUCT

CHART ▪ 2010 – 2019

SOURCE: EUROFER



Imports: top 10 countries of origin

All qualities ▪ in '000 metric tonnes

TOP 10 IMPORTS OF ALL FINISHED PRODUCTS RANKED BY COUNTRY OF ORIGIN

TABLE ▪ 2010 – 2019

SOURCE: EUROFER

Countries ranked according to their 2019 order

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
TURKEY	1,112	2,110	1,008	1,824	1,479	1,467	2,276	3,741	6,168	5,819
RUSSIA	2,489	2,141	2,456	2,706	2,765	3,490	3,541	2,404	3,698	3,039
SOUTH KOREA	1,018	1,410	1,203	1,391	1,519	2,021	2,725	3,131	3,423	2,959
CHINA	3,155	4,174	2,719	3,013	4,507	6,899	5,667	3,441	2,827	2,408
INDIA	637	1,208	967	1,215	1,517	1,155	1,912	3,755	2,782	2,218
UKRAINE	2,125	2,807	1,839	2,050	2,278	2,532	3,072	2,209	1,945	1,808
TAIWAN	335	551	356	583	681	454	779	1,231	1,749	1,338
SERBIA	1,020	851	227	196	280	580	582	775	1,072	1,122
BELARUS	266	252	271	235	349	740	709	527	528	616
SWITZERLAND	588	669	632	642	605	657	602	645	635	495
OTHERS	3,127	3,687	2,155	1,952	2,773	3,782	4,329	4,259	4,452	3,556
TOTAL	**15,872**	**19,860**	**13,833**	**15,807**	**18,753**	**23,777**	**26,194**	**26,118**	**29,279**	**25,378**

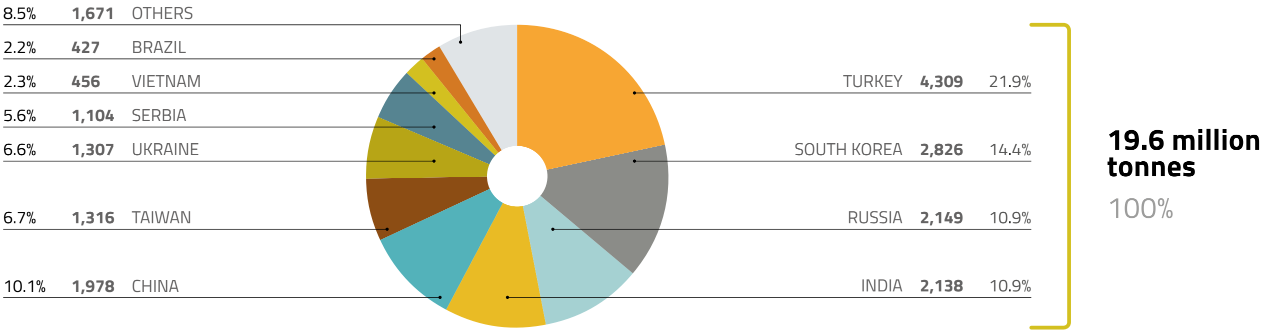
Imports: Top 10 countries of origin by product category

All qualities ▪ in '000 metric tonnes

TOP 10 FLAT PRODUCTS IMPORTS

CHART ▪ 2019

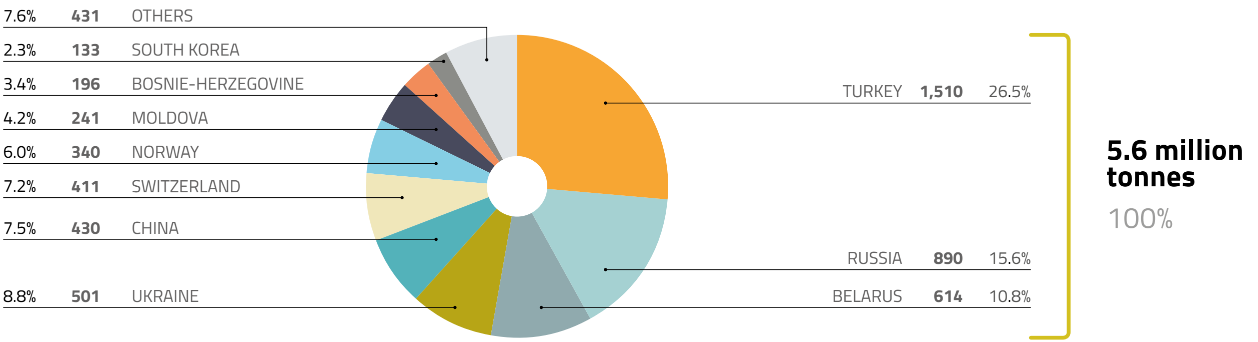
SOURCE: EUROFER



TOP 10 LONG PRODUCT IMPORTS

CHART ▪ 2019

SOURCE: EUROFER



Exports into the EU: Total

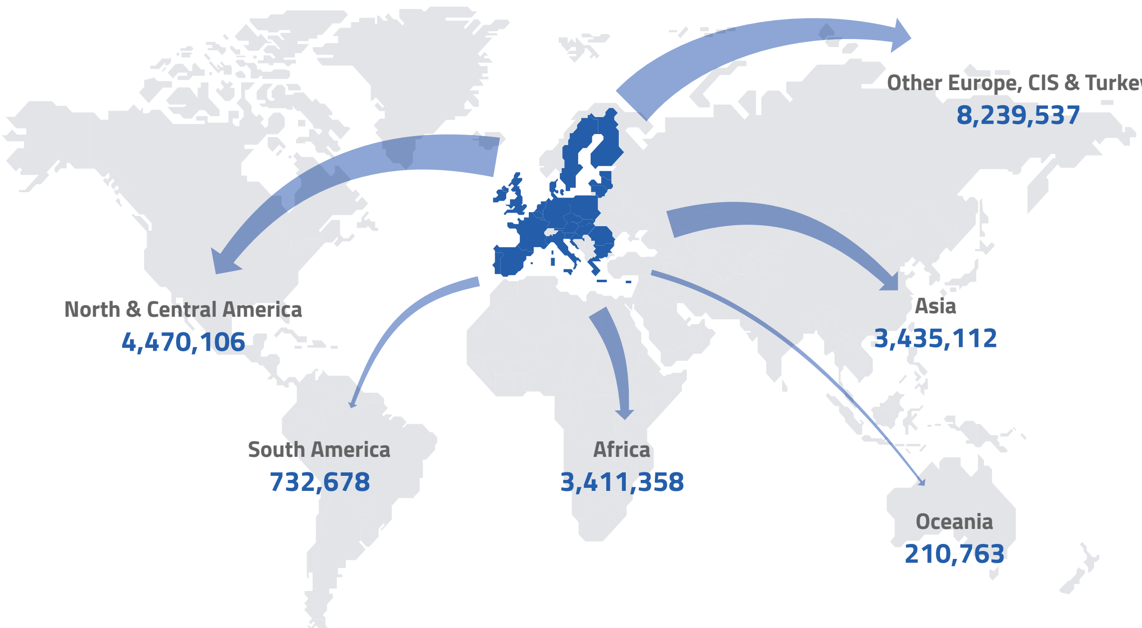
All qualities ▪ in metric tonnes

TOTAL EXPORTS INTO THE EU

MAP ▪ 2019

SOURCE: EUROFER

The EU exported 20.5 million tonnes of finished steel products in 2019



Exports from the EU: Total

All qualities ▪ in '000 metric tonnes

TOTAL EXPORTS FROM THE EU

TABLE ▪ 2010 – 2019

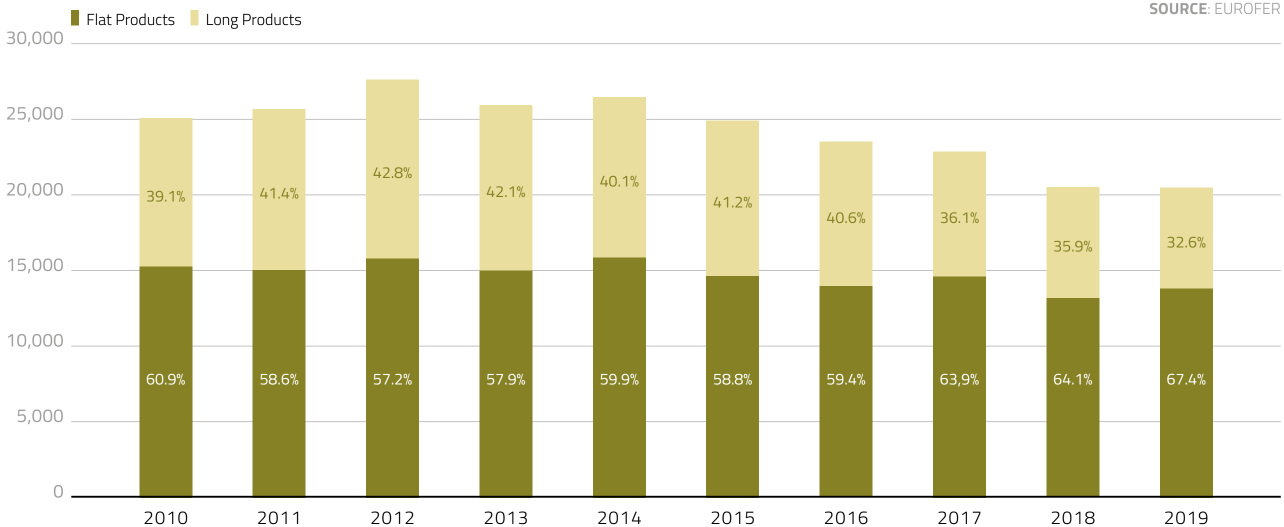
SOURCE: EUROFER

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% shares 2019
Flat Products	15,308	15,090	15,830	15,050	15,906	14,676	14,005	14,634	13,192	13,822	67.4%
Long Products	9,827	10,661	11,857	10,932	10,627	10,281	9,578	8,266	7,375	6,682	32.6%
Finished Products	**25,135**	**25,751**	**27,687**	**25,983**	**26,533**	**24,957**	**23,583**	**22,901**	**20,568**	**20,504**	**100%**

TOTAL EXPORTS FROM THE EU

CHART ▪ 2010 – 2019

SOURCE: EUROFER



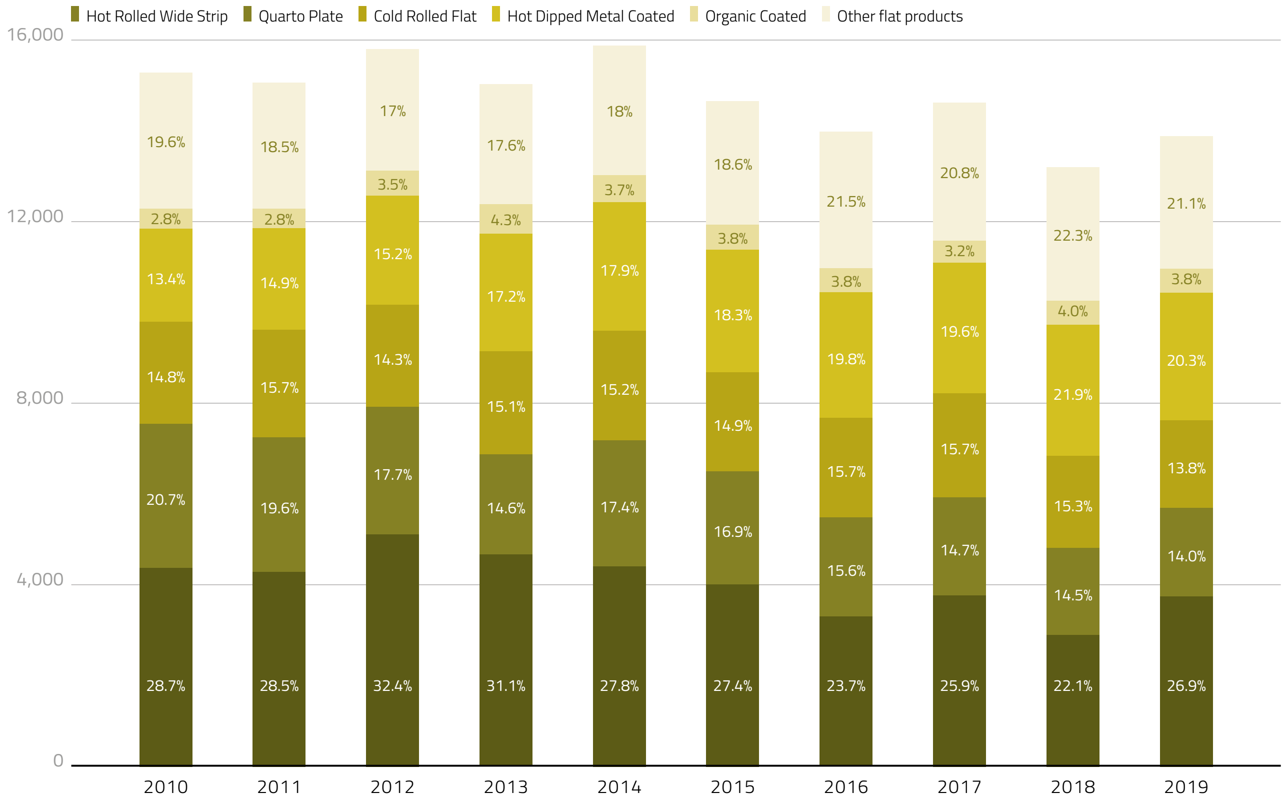
Exports from the EU: Flat products

All qualities ▪ in '000 metric tonnes

FLAT PRODUCT EXPORTS FROM THE EU BY PRODUCT

CHART ▪ 2010 – 2019

SOURCE: EUROFER



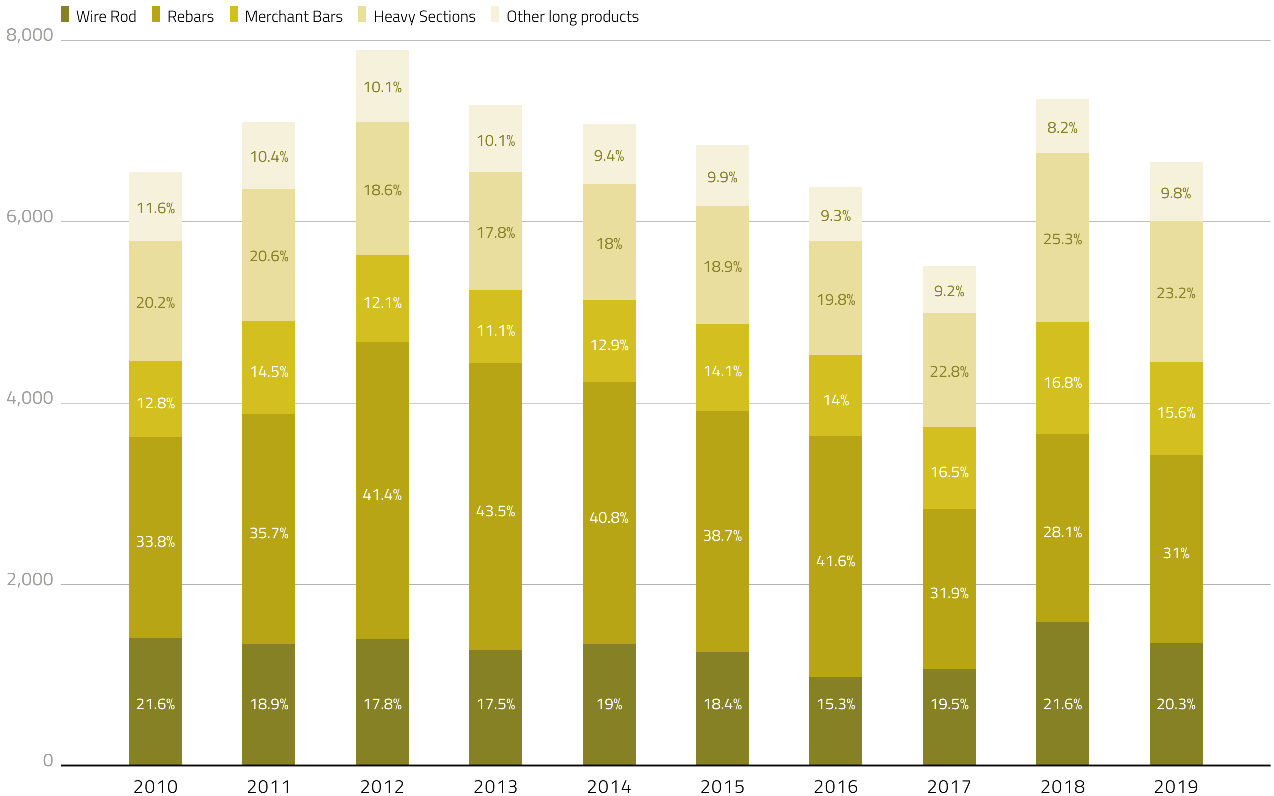
Exports from the EU: Long products

All qualities ▪ in '000 metric tonnes

LONG PRODUCT EXPORTS FROM THE EU BY PRODUCT

CHART ▪ 2010 – 2019

SOURCE: EUROFER



Export destinations: Top 10 countries

All qualities ▪ in '000 metric tonnes

TOP 10 EXPORTERS DESTINATIONS FOR ALL FINISHED PRODUCTS

TABLE ▪ 2010 – 2019

SOURCE: EUROFER

Countries ranked according to their 2018 order

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
TURKEY	4,175	3,959	4,279	4,546	4,090	4,370	4,287	4,668	3,197	3,900
U.S.A.	2,259	2,490	2,840	2,961	4,124	3,760	3,229	3,397	3,373	2,548
SWITZERLAND	1,892	1,996	1,917	1,883	1,834	1,709	1,842	1,890	1,878	1,710
ALGERIA	2,745	3,492	4,489	4,574	4,978	4,419	3,586	1,663	935	1,279
MEXICO	755	869	988	794	756	604	745	897	1,227	1,026
CHINA	864	962	896	958	1,104	906	1,014	1,140	1,106	906
CANADA	518	615	555	448	648	805	667	602	714	757
RUSSIA	909	1,003	995	946	930	588	503	955	559	621
MOROCCO	447	498	620	793	642	598	677	642	598	614
EGYPT	586	257	445	334	325	428	469	481	542	605
OTHERS	9,985	9,610	9,663	7,746	7,102	6,770	6,564	6,566	6,439	6,538
TOTAL	**25,135**	**25,751**	**27,687**	**25,983**	**26,533**	**24,957**	**23,583**	**22,901**	**20,568**	**20,504**

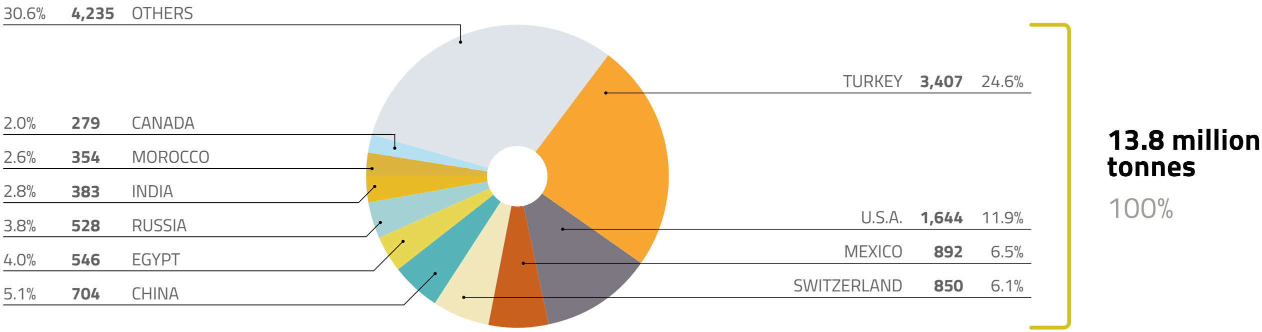
Export destinations: by product category

All qualities ▪ in '000 metric tonnes

TOP FLAT PRODUCT EXPORT DESTINATIONS

CHART ▪ 2019

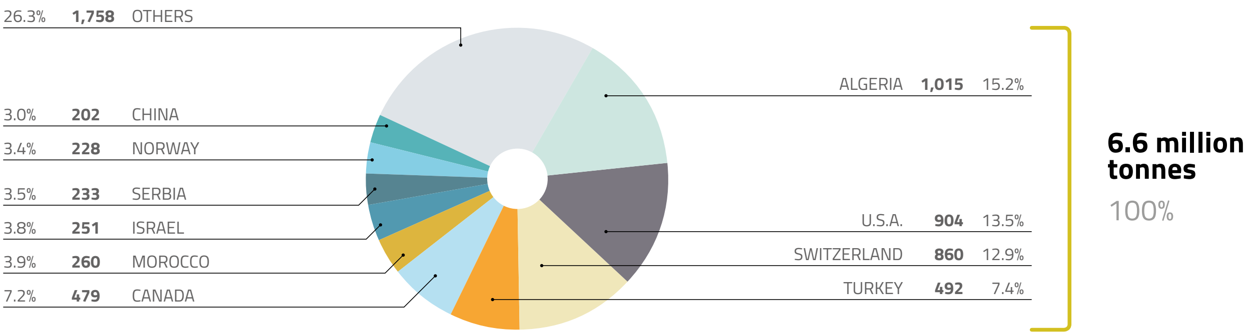
SOURCE: EUROFER



TOP LONG PRODUCT EXPORT DESTINATIONS

CHART ▪ 2019

SOURCE: EUROFER



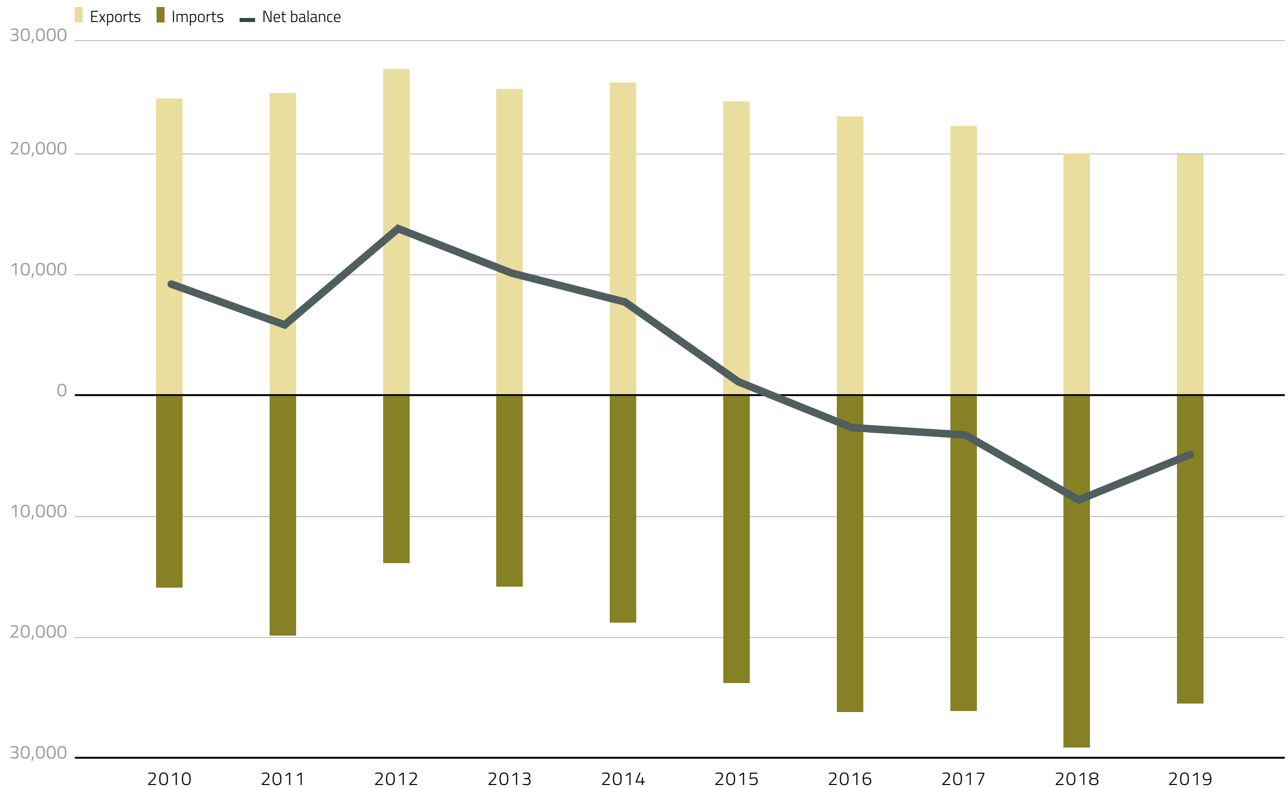
EU trade balance: by volume

All qualities ▪ in '000 metric tonnes

FINISHED PRODUCTS NET TRADE BALANCE BY VOLUME

CHART ▪ 2010 – 2019

SOURCE: EUROFER



Stainless steel

EUROPEAN STEEL IN FIGURES **2020**

Stainless steel

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Stainless steel market supply: Total flat products

In '000 metric tonnes

TOTAL STAINLESS FLAT PRODUCT DELIVERIES BY SOURCE

TABLE ▪ 2010 – 2019

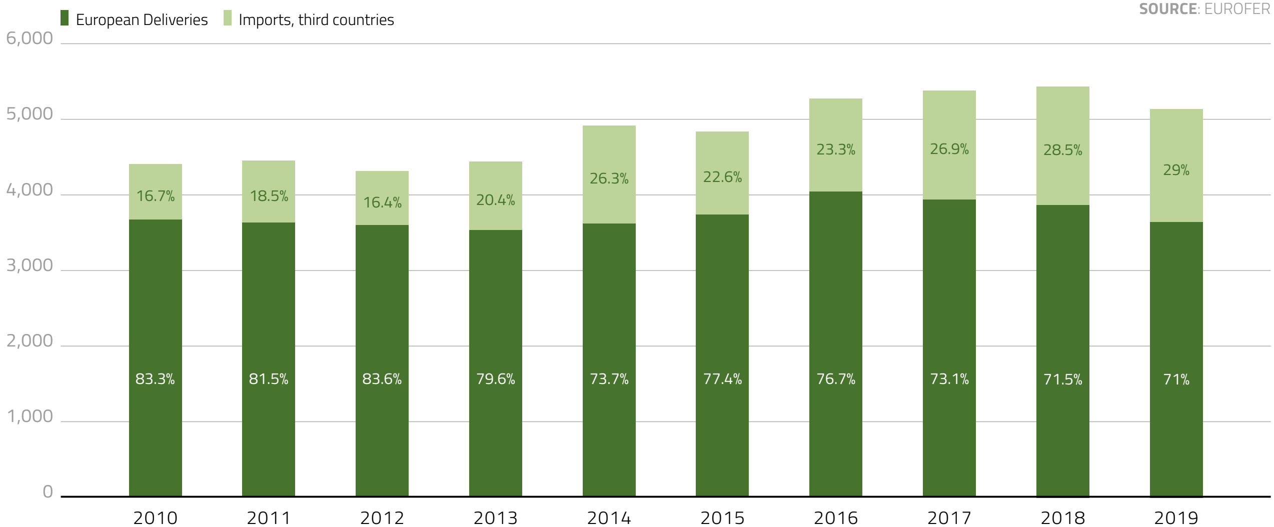
SOURCE: EUROFER

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% shares 2019
European Deliveries	3,678	3,637	3,608	3,541	3,629	3,748	4,052	3,940	3,889	3,648	71.0%
Imports, Third Countries	740	824	710	909	1,292	1,096	1,230	1,447	1,548	1,487	29.0%
Market Supply	**4,418**	**4,462**	**4,318**	**4,450**	**4,921**	**4,844**	**5,282**	**5,387**	**5,437**	**5,135**	**100%**

TOTAL STAINLESS FLAT PRODUCT DELIVERIES BY SOURCE

CHART ▪ 2010 – 2019

SOURCE: EUROFER



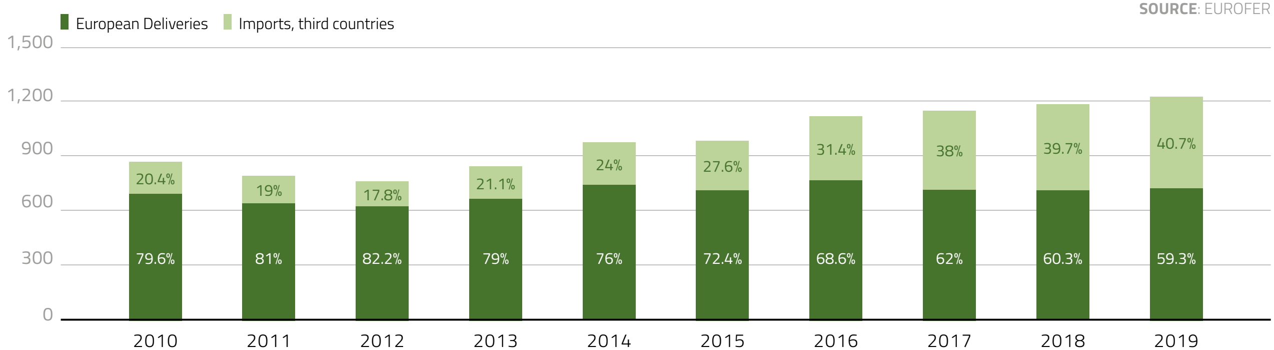
Stainless steel market supply: Hot rolled strip mill & plates

In '000 metric tonnes

HOT ROLLED STRIP MILL PRODUCTS

CHART ▪ 2010 – 2019

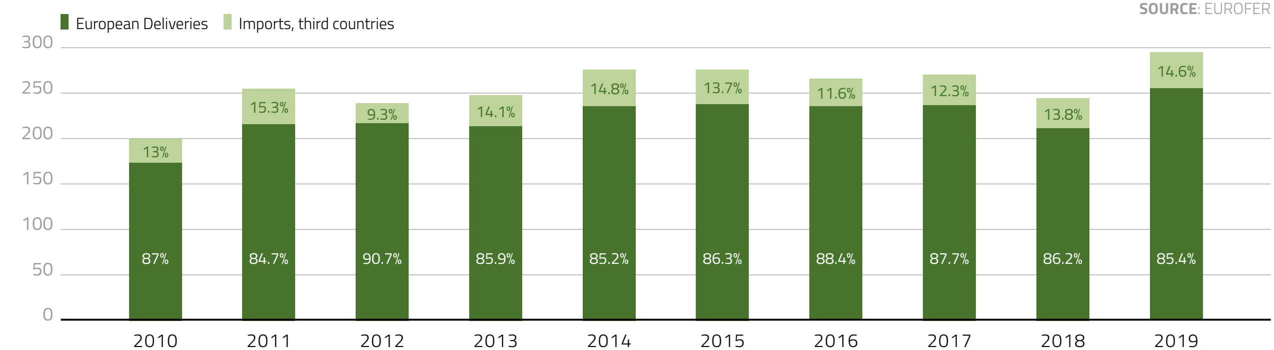
SOURCE: EUROFER



PLATES

CHART ▪ 2010 – 2019

SOURCE: EUROFER



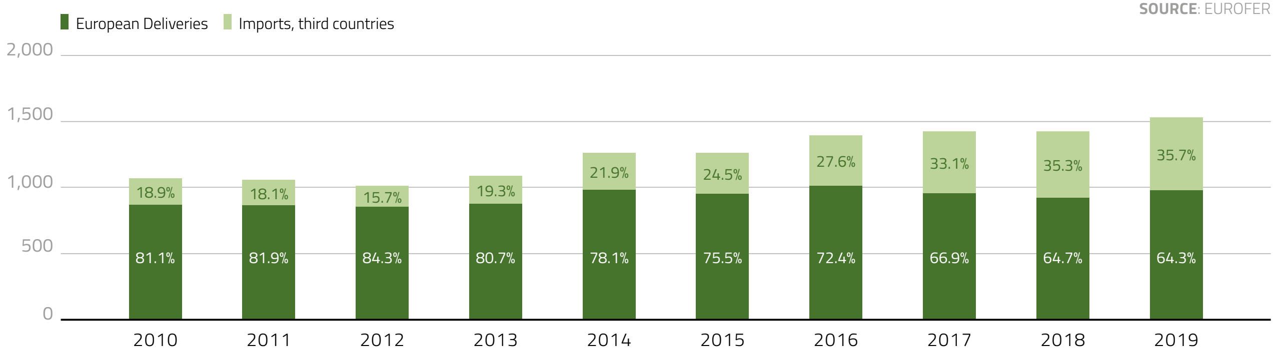
Stainless steel market supply: Hot & cold rolled flat

In '000 metric tonnes

HOT ROLLED FLAT PRODUCTS

CHART ▪ 2010 – 2019

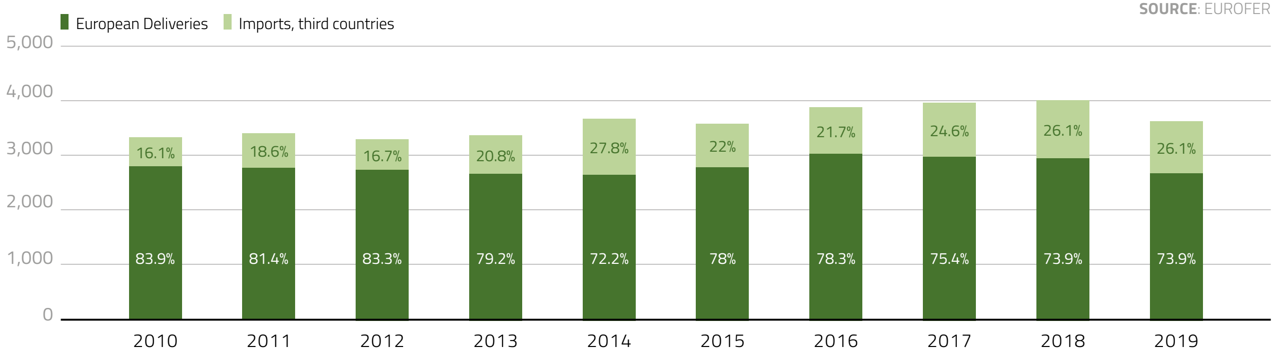
SOURCE: EUROFER



COLD ROLLED FLAT PRODUCTS

CHART ▪ 2010 – 2019

SOURCE: EUROFER



Stainless steel market supply: Long products

In '000 metric tonnes

TOTAL STAINLESS LONG PRODUCT DELIVERIES BY SOURCE

TABLE ▪ 2010 – 2019

SOURCE: EUROFER

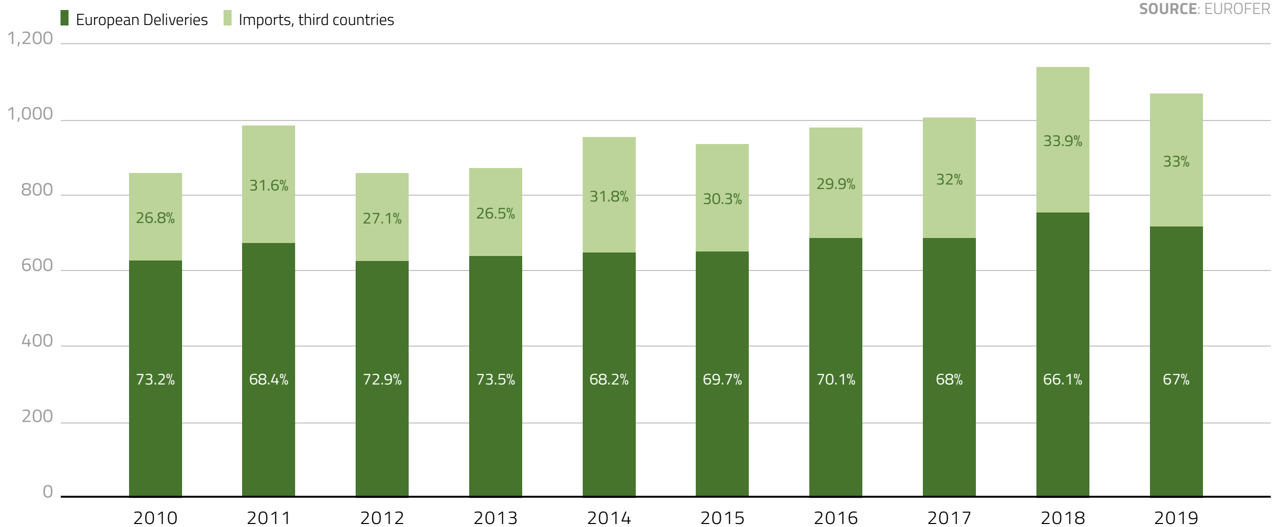
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% shares 2019
European Deliveries	627	670	623	637	651	651	685	681	754	715	67.0%
Imports, Third Countries*	229	309	232	230	303	283	292	320	386	352	33.0%
Market Supply	**856**	**979**	**855**	**867**	**954**	**934**	**977**	**1,001**	**1,140**	**1,067**	**100%**

* including Bright Bars and Wires

TOTAL STAINLESS LONG PRODUCT DELIVERIES BY SOURCE

CHART ▪ 2010 – 2019

SOURCE: EUROFER

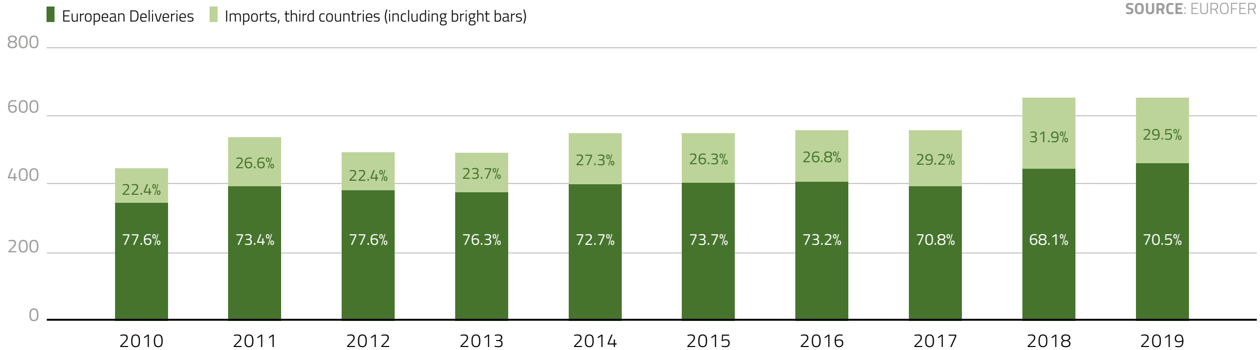


Stainless steel market supply: Hot rolled bars & sections and wire rod In '000 metric tonnes

HOT ROLLED BARS & SECTIONS

CHART ▪ 2010 – 2019

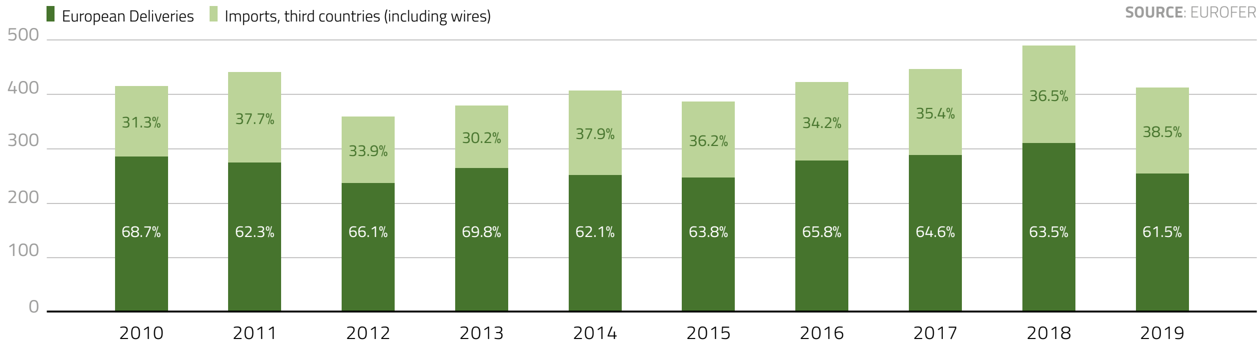
SOURCE: EUROFER



WIRE ROD

CHART ▪ 2010 – 2019

SOURCE: EUROFER



Imports into the EU: Total stainless steel

In '000 metric tonnes

IMPORTS OF FINISHED STAINLESS STEELS BY PRODUCT

TABLE ▪ 2010 – 2019

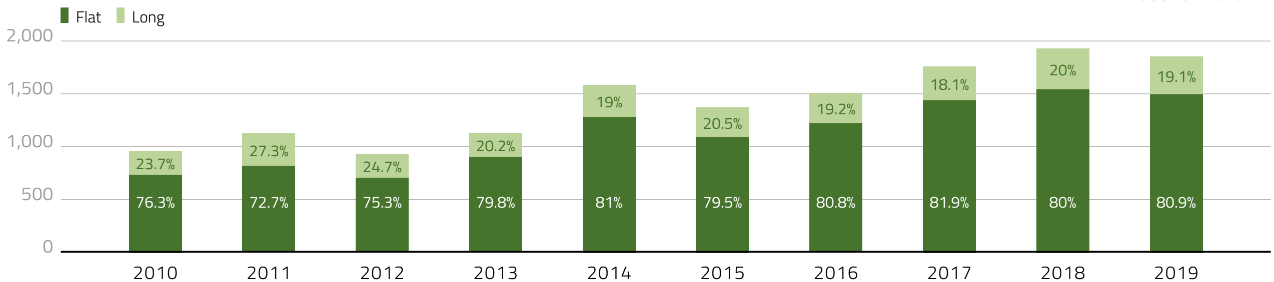
SOURCE: EUROFER

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Finished Products	**970**	**1,133**	**943**	**1,139**	**1,595**	**1,379**	**1,522**	**1,767**	**1,934**	**1,839**
of which flat products	740	824	710	909	1,292	1,096	1,230	1,447	1,548	1,487
Hot Rolled sheets and strips	152	126	110	136	182	215	302	377	398	427
Plates	26	39	23	34	40	38	31	33	33	43
Cold Rolled Flat	539	635	552	698	1,019	788	846	976	1,045	943
of which long products	229	309	232	230	303	283	292	320	386	352
Wire Rod	66	92	51	52	71	58	59	63	77	62
Merchant Bars	31	45	39	48	60	50	54	52	68	64
Bright Bars	68	98	72	67	90	94	95	110	140	129
Drawn Wires	64	75	71	63	83	82	85	95	101	97
Flat	76.3%	72.7%	75.3%	79.8%	81.0%	79.5%	80.8%	81.9%	80.0%	80.9%
Long	23.7%	27.3%	24.7%	20.2%	19.0%	20.5%	19.2%	18.1%	20.0%	19.1%

IMPORTS OF FINISHED STAINLESS STEELS BY PRODUCT CATEGORY

CHART ▪ 2010 – 2019

SOURCE: EUROFER



Exports from the EU: Total stainless steel

In '000 metric tonnes

EXPORTS OF FINISHED STAINLESS STEELS BY PRODUCT

TABLE ▪ 2010 – 2019

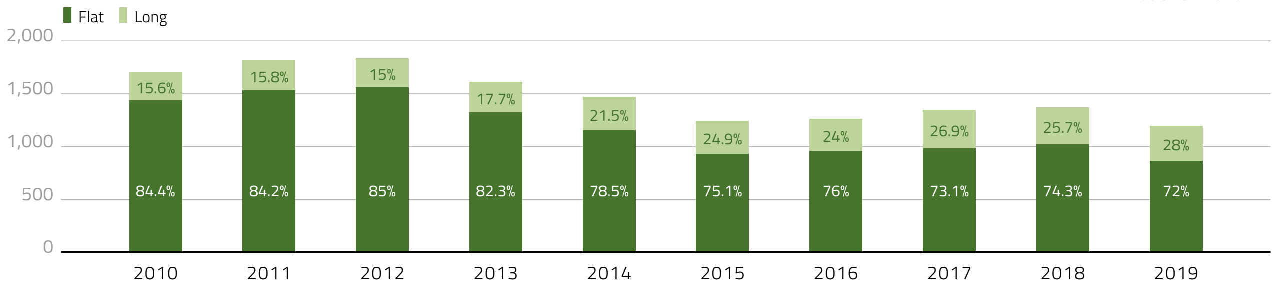
SOURCE: EUROFER

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Finished Products	**1,714**	**1,830**	**1,844**	**1,620**	**1,481**	**1,251**	**1,271**	**1,355**	**1,371**	**1,179**
of which flat products	1,447	1,541	1,568	1,333	1,163	939	966	990	1,018	849
Hot Rolled sheets and strips	560	570	635	434	292	180	197	226	240	158
Plates	74	88	85	80	104	99	91	82	96	89
Cold Rolled Flat	710	754	713	708	667	579	596	595	593	517
of which long products	266	288	276	288	317	312	305	365	353	330
Wire Rod	76	67	65	68	73	71	70	84	78	76
Merchant Bars	48	56	55	64	73	67	67	86	83	86
Bright Bars	115	140	132	130	146	147	143	169	164	143
Drawn Wires	27	25	24	26	25	26	25	25	28	25
Flat	84.4%	84.2%	85%	82.3%	78.5%	75.1%	76%	73.1%	74.3%	72%
Long	15.6%	15.8%	15%	17.7%	21.5%	24.9%	24%	26.9%	25.7%	28%

EXPORTS OF FINISHED STAINLESS STEEL BY PRODUCT CATEGORY

TABLE ▪ 2010 – 2019

SOURCE: EUROFER



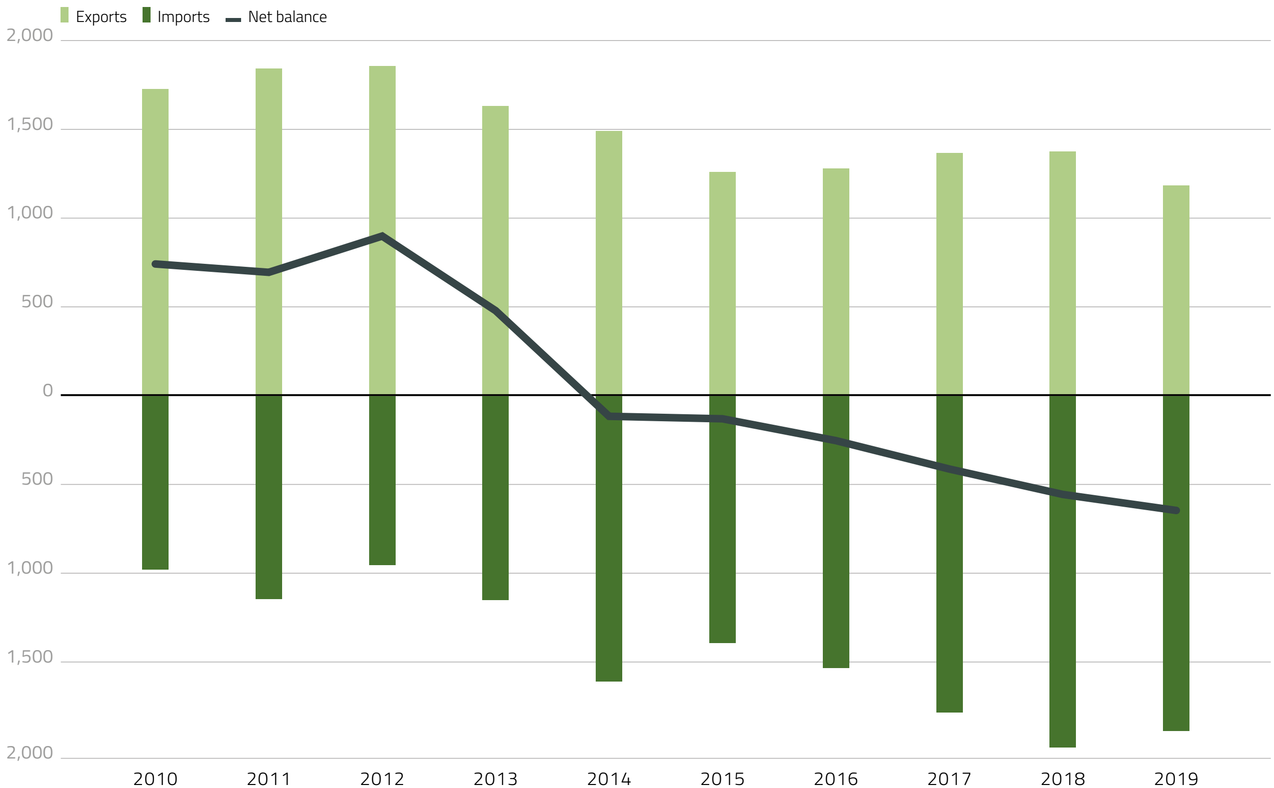
EU Trade balance: by volume

In ‘000 metric tonnes

NET TRADE BALANCE BY VOLUME

CHART ▪ 2010 – 2019

SOURCE: EUROFER



Sustainability

EUROPEAN STEEL IN FIGURES **2020**

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Imports into the EU: scrap steel

In '000 metric tonnes

IMPORTS OF SCRAP INTO THE EU

TABLE ▪ 2010 – 2019

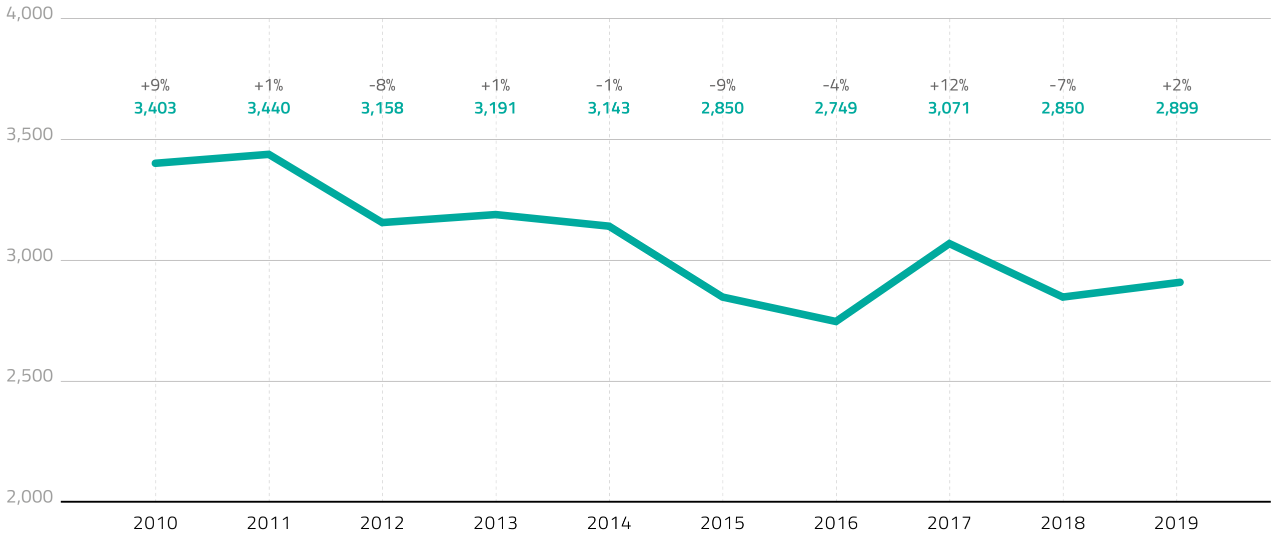
SOURCE: EUROFER

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Imports Comext	3,403	3,440	3,158	3,191	3,143	2,850	2,749	3,071	2,850	2,899

IMPORTS OF SCRAP INTO THE EU

CHART ▪ 2010 – 2019

SOURCE: EUROFER



Exports from the EU: scrap steel

In '000 metric tonnes

EXPORTS OF SCRAP FROM THE EU

TABLE ▪ 2010 – 2019

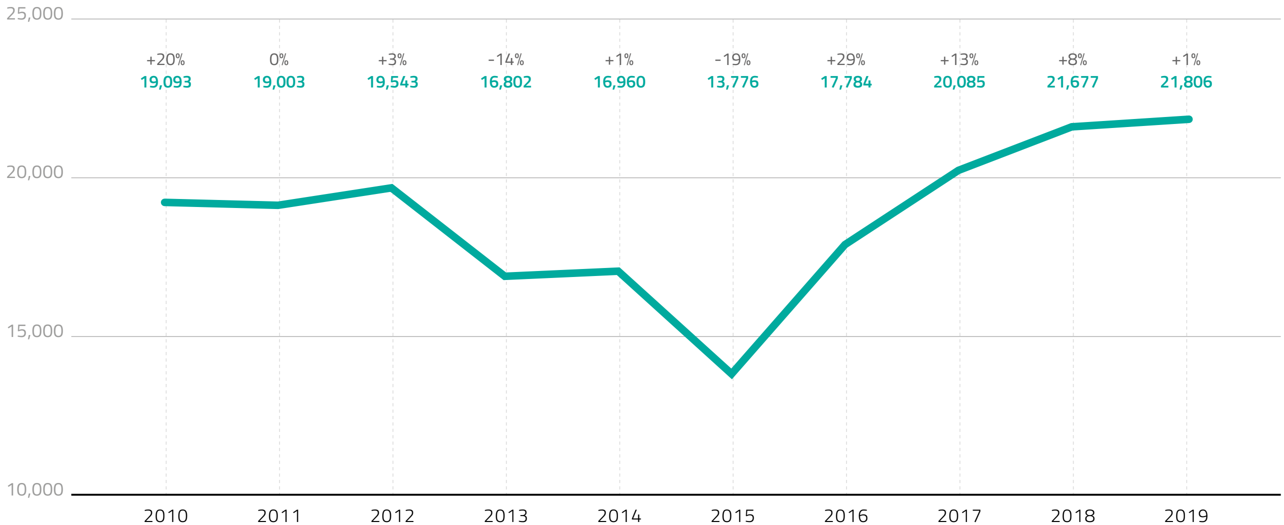
SOURCE: EUROFER

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Imports Comext	19,093	19,003	19,543	16,802	16,960	13,776	17,784	20,085	21,677	21,806

EXPORTS OF SCRAP FROM THE EU

GRAPH ▪ 2010 – 2019

SOURCE: EUROFER



Consumption & net export: scrap

In '000 metric tonnes

CONSUMPTION & NET EXPORT OF SCRAP STEEL

TABLE ▪ 2010 – 2019

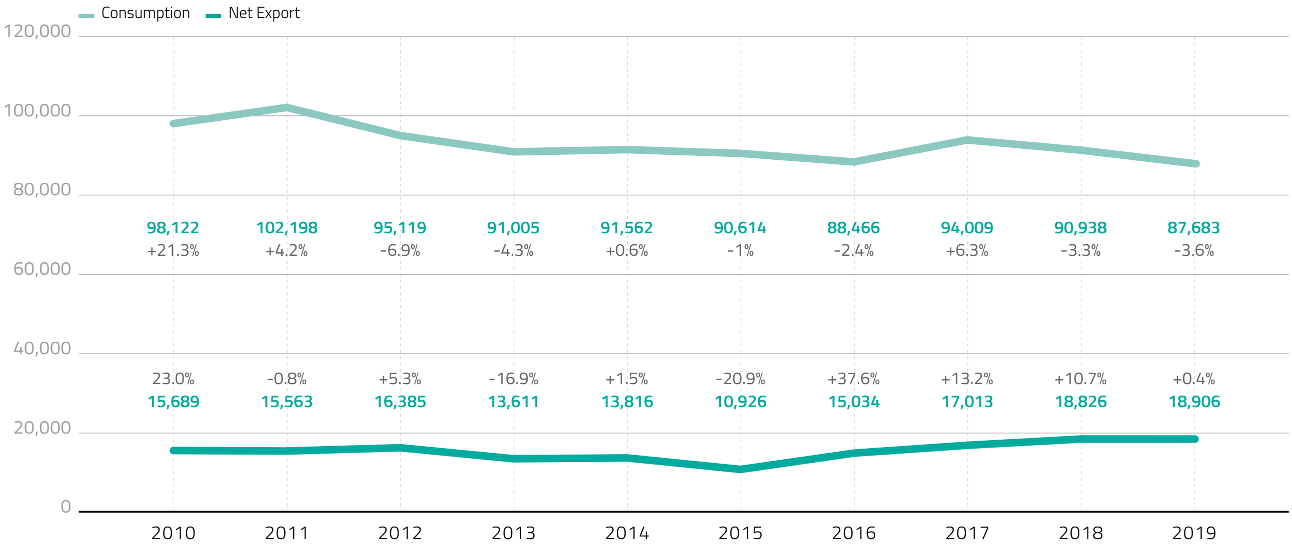
SOURCE: EUROFER

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Consumption Total	98,122	102,198	95,119	91,005	91,562	90,614	88,466	94,009	90,938	87,683
Net Export	15,689	15,563	16,385	13,611	13,816	10,926	15,034	17,013	18,826	18,906

CONSUMPTION & NET EXPORT OF SCRAP STEEL

GRAPH ▪ 2010 – 2019

SOURCE: EUROFER



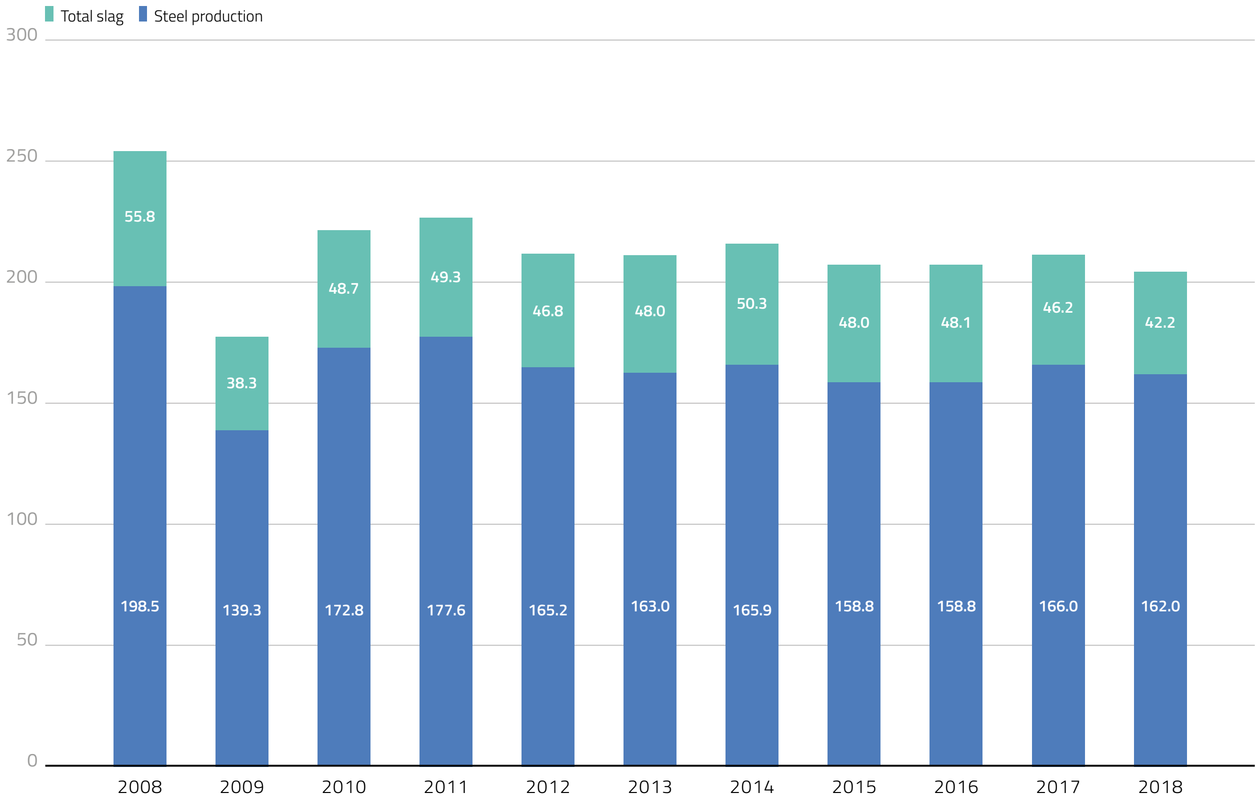
Slag production and use

In 000,000 metric tonnes

SLAG PRODUCTION IN THE EU

CHART ▪ 2008 – 2018

SOURCE: EUROSLAG



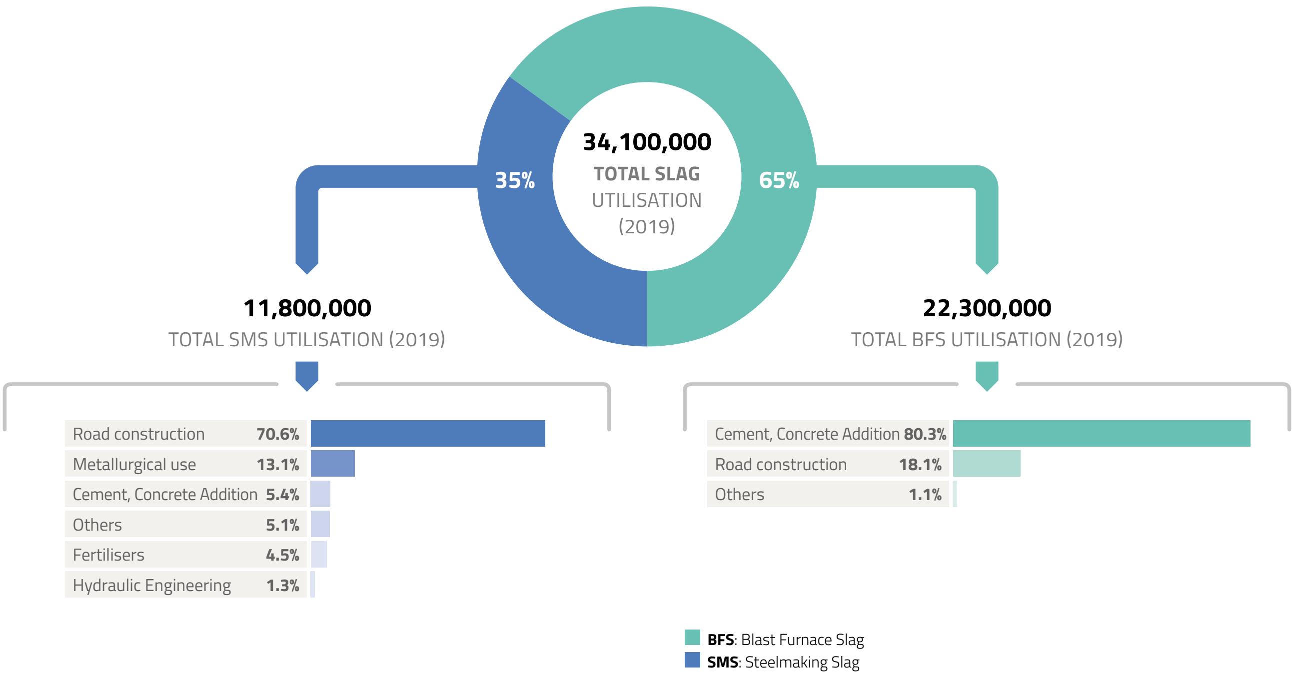
Slag production and use

In metric tonnes

USE OF SLAG IN DOWNSTREAM INDUSTRIES

CHART ▪ 2019

SOURCE: EUROSLAG, calculations by EUROFER



NOTE: Data does not cover all EU steel production; Not comparable to the figures in European Steel in Figures 2019

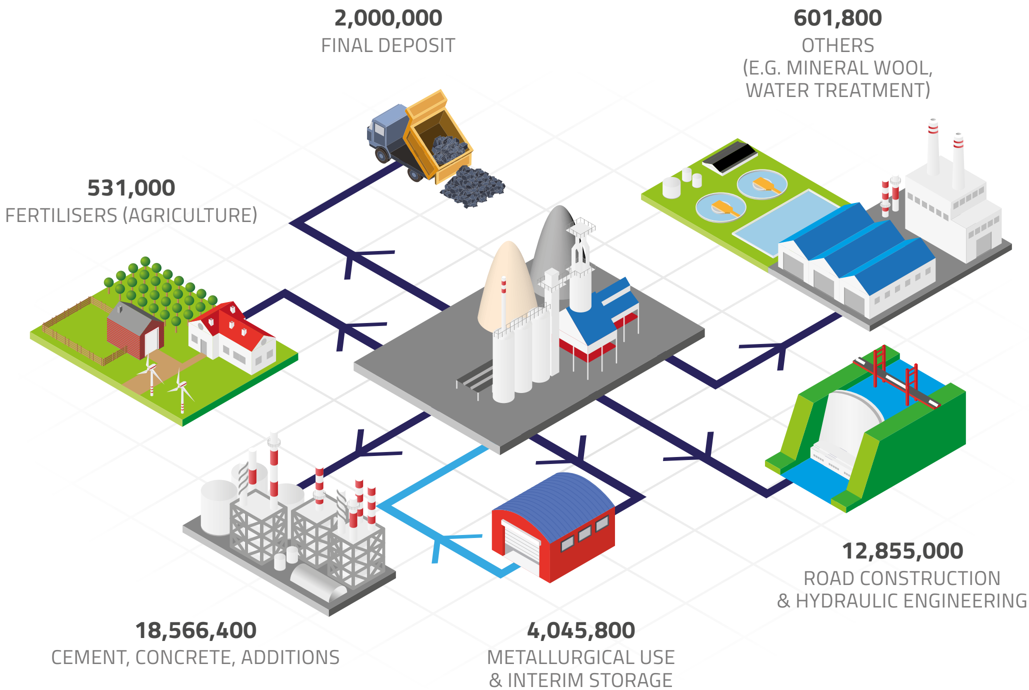
Slag production and use

In metric tonnes

USAGE PATHS OF SLAG IN SYNERGISTIC SECTORS

ISOMETRIC DIAGRAM ▪ 2019

DATA SOURCE: EUROSLAG – **DESIGN SOURCE**: EUROFER



NOTE: Data does not cover all EU steel production; Not comparable to the figures in European Steel in Figures 2019. This data includes 'interim storage' and 'final deposit'.

References & definitions

Definitions according to NACE Rev.2

Building & Civil Engineering

41	Construction of buildings
42	Civil engineering
43	Specialised construction activities
25.1	Manufacture of metal structures and part of structures
25.2	Manufacture of tanks. generators. radiators. boilers

Mechanical Engineering

28	Manufacture of machinery and equipment
27.1	Manufacture of electric motors. generators. transformers
25.3	Manufacture of steam generators. except central heating hot water boilers

Automotive

29	Manufacture of motor vehicles and trailers

Domestic Appliances

27.51	Manufacture of electric domestic appliances

Other Transport Equipment

30	Manufacture of other transport equipment
30.1	Building and repair of ships
30.2	Manufacture of railway locomotives and rolling stock
30.91	Manufacture of motorcycles

Steel Tubes

24.2	Manufacture of steel tubes

Metal Goods

25	Manufacture of fabricated metal products excluding 25.1-25.2-25.3

Other sectors

26	Manufacture of computer. electronic and optical products
27	Manufacture of electric motors. generators. transformers and electricity distribution and control apparatus excluding 27.1 and 27.5

References & definitions

EU steel market definitions

SWIP
abbreviation for Steel Weighted Industrial Production index. used as a proxy for real steel consumption. Activity in the steel-using sectors is weighted with the relative share of each sector in total steel consumed by all sectors.

Real steel consumption
consumption of all steel products used by the steel-using sectors in their production processes, also referred to as "final use" of steel products.

Apparent steel consumption
also referred to as "steel demand". It concerns the supply of all steel products delivered to the EU28 market by domestic producers in the EU or third country exporters. If apparent consumption exceeds real steel consumption, the surplus is stocked in the distribution chain. If apparent consumption is less than real steel consumption, inventories are being withdrawn. In formula: total deliveries + imports from third countries – exports to third countries – steel industry receipts

Steel industry receipts
deliveries for further processing from within the steel industry itself – subtracted to avoid double-counting of steel consumption

Narrow definition
EUROFER applies the so-called "narrow definition" which excludes steel tubes and first transformation products from the product scope used for calculating steel consumption. Hence, the steel tube sector is a steel-using sector under this definition

Steel intensity
the ratio of real steel consumption to steel weighted production in the steel-using sectors. This reflects the usually slightly negative impact on consumption of innovation in steel products, inter-material substitution, improvements in process efficiency and design, etc.

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