COVERING 2009 – 2018

2019

European Steel in Figures

www.eurofer.eu

EUROFER
The European Steel Association

Follow us on twitter @EUROFER_eu

EUROFER
The European Steel Association

www.eurofer.eu

European Steel in Figures 2019

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

Welcome to the eleventh edition of the European Steel Association's (EUROFER) European Steel in Figures guide. This edition updates the content to give new life to the data within. We hope you find this publication an insightful look into the size and shape of the modern European steel industry.

European Steel in Figures 2019 paints a mixed picture of the sector. Employment has almost returned to levels last seen in 2014, with demand on the domestic market also having risen steadily of the past few years. The expansion of steel-using sectors continued, as it has for a few years. On the face of it, the overall performance of the steel market was relatively positive in 2018. Apparent consumption was up 3.3% in 2018 to 164 million tonnes of apparent consumption – though there was a marked loss of momentum compared to 2017.

However, imports have exploded to new highs, and rising domestic demand has been almost entirely absorbed by this foreign supply. Steel-using sectors, such as automotive, are beginning to see reversals – which has an impact on their current and anticipated demand for steel. Apparent consumption is expected to fall by 0.4% in 2019. More information on these forecasts can be found in the EUROFER Annual Report 2019 and in EUROFER's Quarterly Economic and Market Outlook.

Updated research, 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 2.6 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 8 times.

The Gross Value Added (GVA) of the European steel industry is also upwards of €148 billion if direct, indirect and induced effects are factored in.

A new addition to this guide is information on 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 2019.

MAY 2019

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 2018 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 11th edition, this publication gives an overview of the key statistical trends in the sector. The statistics presented here are for information only.

EUROFER has endeavoured to replicate data as accurately as possible and to attribute sources correctly. EUROFER is not responsible for any mistakes or errors in the presentation of the information, nor in the underlying data used in its creation. EUROFER is not liable, and cannot be held responsible in any way, for analyses or decisions based upon the data held within this publication.

Employment & economic impact

EUROPEAN STEEL IN FIGURES **2019**

www.eurofer.eu

EUROFER
The European Steel Association

Follow us on twitter @EUROFER_eu

EUROFER
The European Steel Association

www.eurofer.eu

Employment & GVA in the EU steel industry

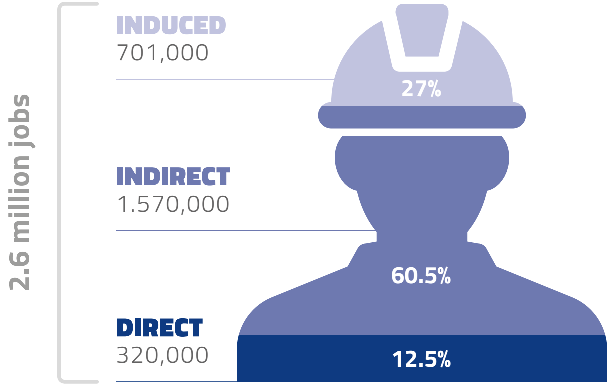
Direct, indirect & induced employment & GVA in the EU steel industry

EMPLOYMENT

GRAPHIC ▪ 2018

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

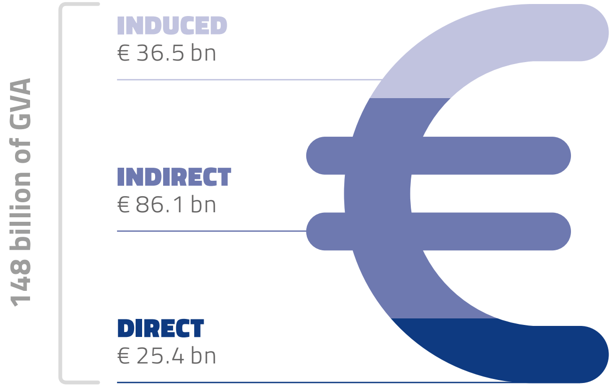
The 'type I' multiplier is the ratio of direct plus indirect activity to direct activity.
The 'type II' multiplier is the ratio of total activity to direct activity.

GROSS VALUE ADDED

GRAPHIC ▪ 2018

SOURCE: OXFORD ECONOMICS

The EU steel industry creates around €148 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 ▪ 2018

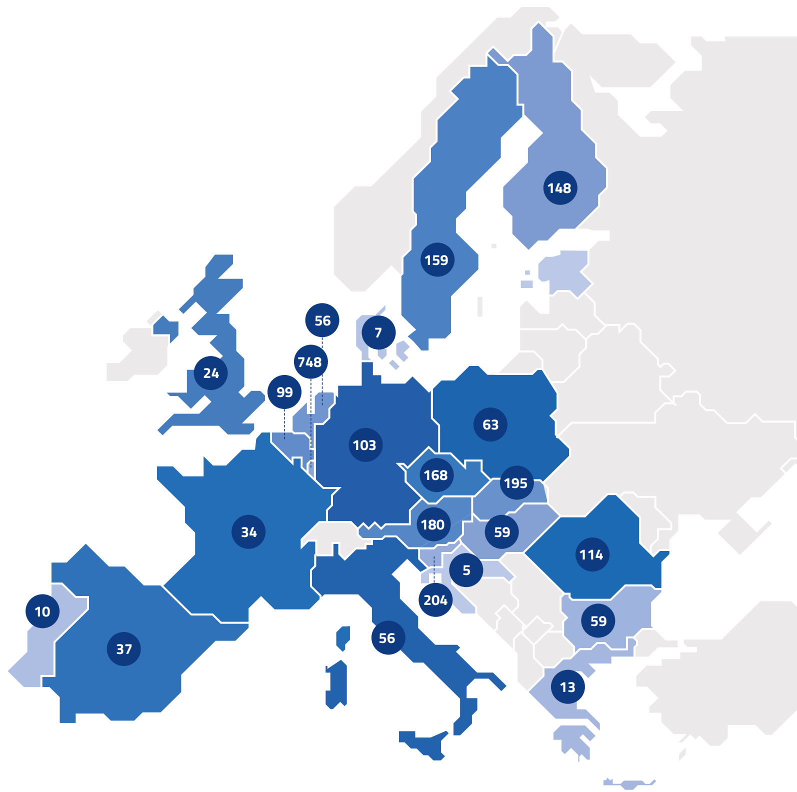
SOURCE: EUROFER

		2018	% shares 2018
1	GERMANY	84,230	25.55%
2	ITALY	33,356	10.12%
3	POLAND	24,100	7.31%
4	ROMANIA	22,490	6.82%
5	FRANCE	21,900	6.64%
6	CZECH REPUBLIC	17,800	5.40%
7	SPAIN	17,352	5.26%
8	UNITED KINGDOM	15,811	4.80%
9	SWEDEN	15,700	4.76%
10	AUSTRIA	15,688	4.76%
11	BELGIUM	11,290	3.42%
12	SLOVAKIA	10,730	3.25%
13	NETHERLANDS	9,552	2.90%
14	FINLAND	8,124	2.46%
15	HUNGARY	5,707	1.73%
16	LUXEMBOURG	4,360	1.32%
17	SLOVENIA	4,236	1.29%
18	BULGARIA	4,150	1.26%
19	GREECE	1,455	0.44%
20	PORTUGAL	1,000	0.30%
21	DENMARK	418	0.13%
22	CROATIA	190	0.06%
23	ESTONIA	9	0.00%
	TOTAL	**329,648**	**100%**

EMPLOYMENT IN STEEL PER 100,000 PEOPLE

MAP ▪ 2018

SOURCE: EUROFER



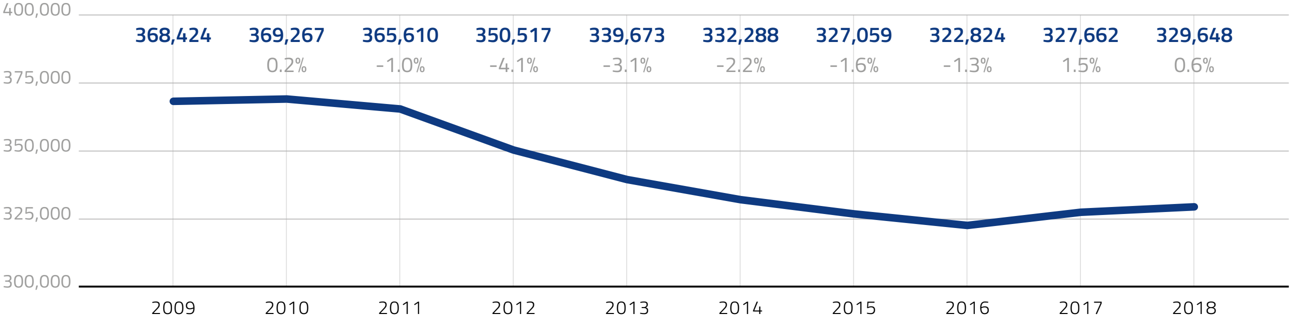
Direct employment in the EU steel industry: by country

Employment by absolute numbers

EMPLOYMENT: EVOLUTION

GRAPH ▪ 2009 – 2018

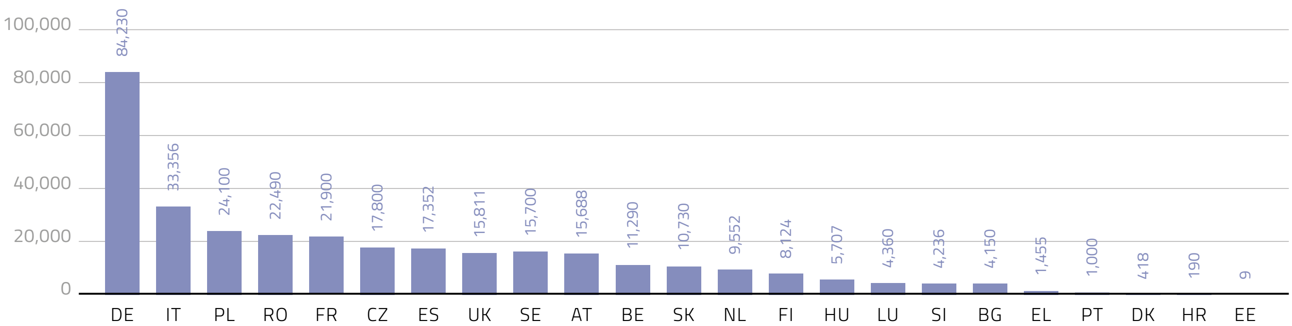
SOURCE: EUROFER



EMPLOYMENT: BY COUNTRY

CHART ▪ 2018

SOURCE: EUROFER



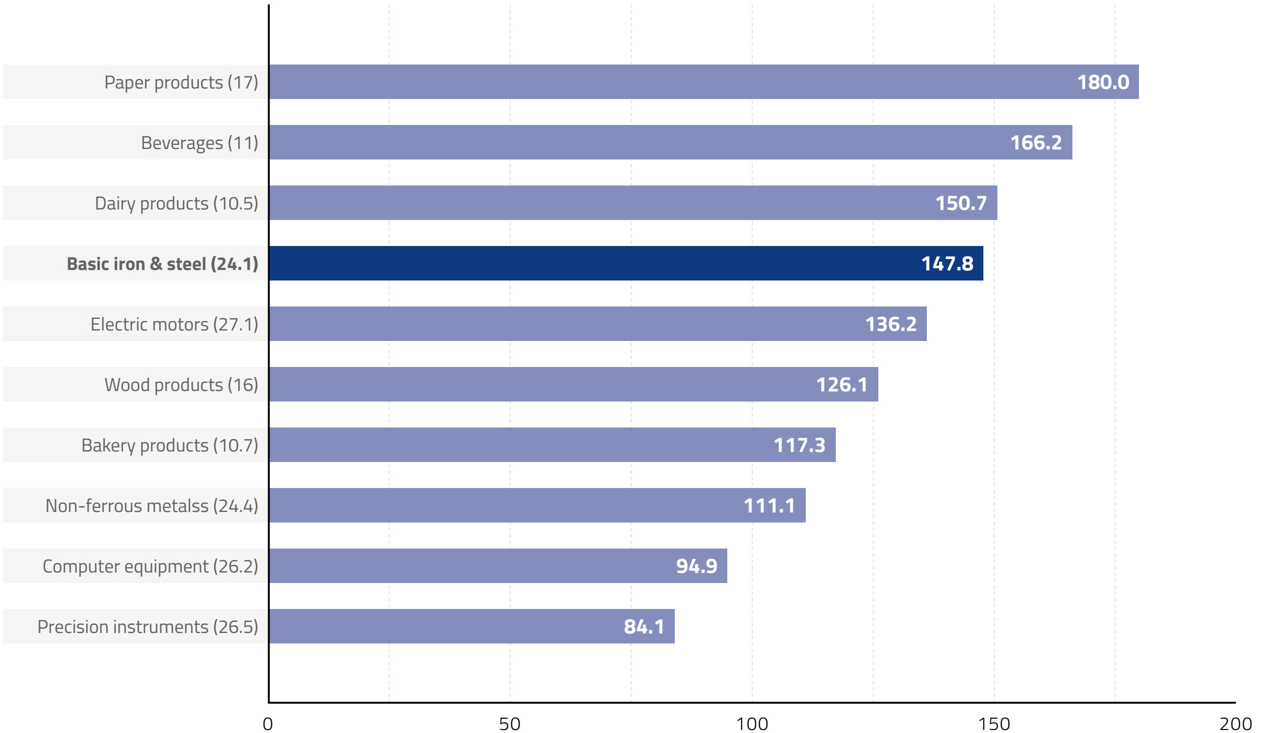
Gross Value Added: Comparison

Value added ▪ in € ‘000,000

VALUE OF PRODUCTION COMPARED WITH OTHER EU INDUSTRIES

CHART ▪ 2018

SOURCE: EUROSTAT – OXFORD ECONOMICS



Production

EUROPEAN STEEL IN FIGURES **2019**

EUROFER
The European Steel Association

www.eurofer.eu

Crude steel production per region: World

All qualities ▪ in '000,000 metric tonnes

REGIONS IN DESCENDING ORDER OF CRUDE STEEL PRODUCTION TABLE ▪ 2018

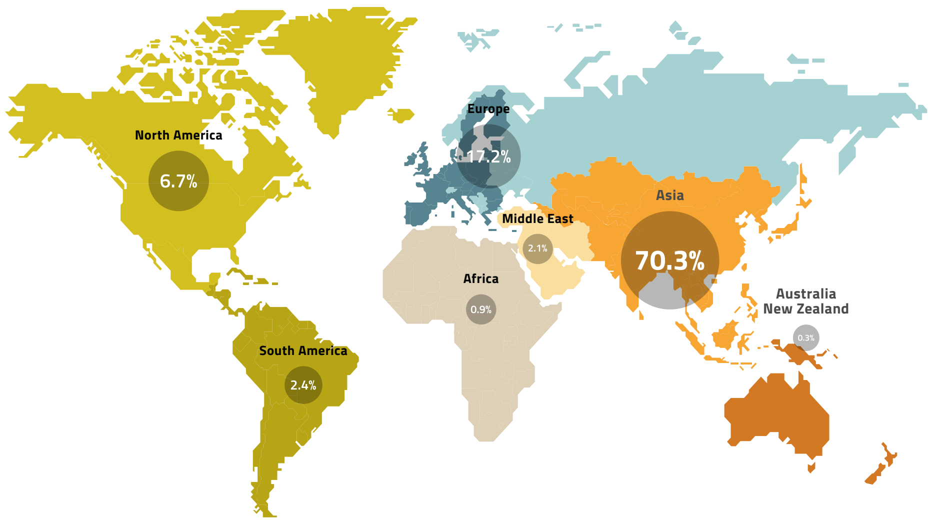
SOURCE: WORLDSTEEL

	2018	% shares 2018
Asia	**1,271**	**70.3%**
of which China	928	51.3%
of which Japan	104	5.8%
Europe	**311**	**17.2%**
of which European Union	168	9.3%
of which CIS	101	5.6%
North America	**121**	**6.7%**
of which United States	87	4.8%
South America	**44**	**2.4%**
Middle East	**38**	**2.1%**
Africa	**17**	**0.9%**
Australia/New Zealand	**6**	**0.3%**
WORLD	1,808	100%

MAP OF STEEL PRODUCTION BY REGION

MAP ▪ 2018

SOURCE: WORLDSTEEL



Crude steel production per country: EU

All qualities ▪ in '000 metric tonnes

EU COUNTRIES IN DESCENDING ORDER OF CRUDE STEEL PRODUCTION

TABLE ▪ 2018

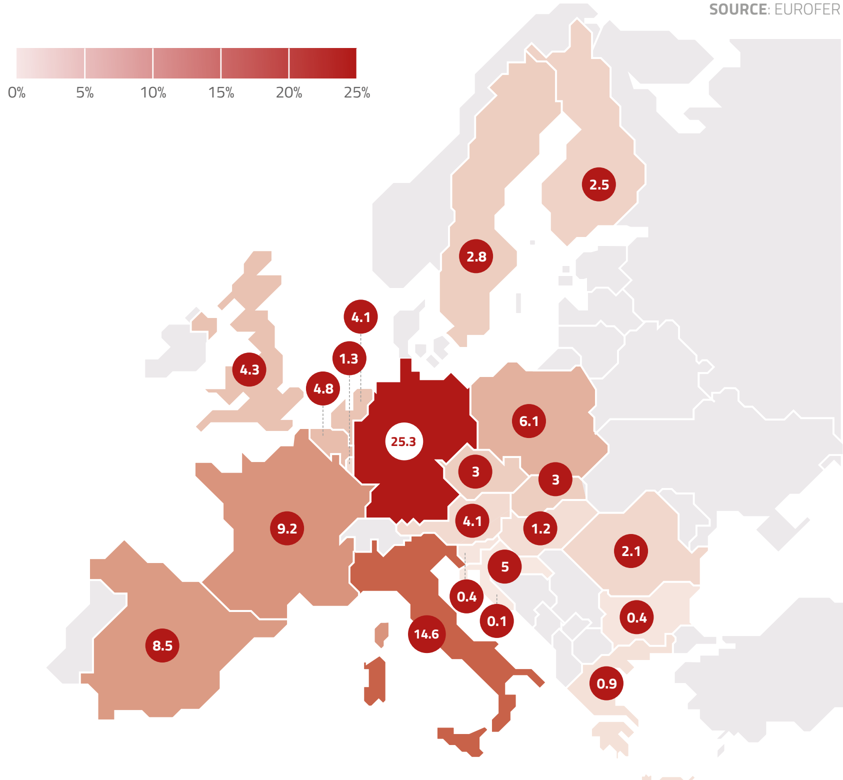
SOURCE: EUROFER

		2018	% shares 2018
1	GERMANY	42,435	25.3%
2	ITALY	24,532	14.6%
3	FRANCE	15,385	9.2%
4	SPAIN	14,299	8.5%
5	POLAND	10,167	6.1%
6	BELGIUM	7,980	4.8%
7	UNITED KINGDOM	7,268	4.3%
8	AUSTRIA	6,885	4.1%
9	NETHERLANDS	6,813	4.1%
10	SLOVAKIA	4,947	3%
11	CZECH REPUBLIC	4,938	3%
12	SWEDEN	4,632	2.8%
13	FINLAND	4,146	2.5%
14	ROMANIA	3,550	2.1%
15	LUXEMBOURG	2,228	1.3%
16	HUNGARY	1,989	1.2%
17	GREECE	1,467	0.9%
18	SLOVENIA	692	0.4%
19	BULGARIA	666	0.4%
20	CROATIA	136	0.1%
21	OTHERS	2,215	1.3%
	TOTAL	**167,370**	**100%**

EU COUNTRIES SHOWN BY RELATIVE SIZE OF CRUDE STEEL PRODUCTION

MAP ▪ 2018

SOURCE: EUROFER



Crude steel production per country: EU

All qualities ▪ in '000 metric tonnes

CRUDE STEEL OUTPUT PER COUNTRY

TABLE ▪ 2014 – 2018

SOURCE: EUROFER

	2014	2015	2016	2017	2018	% shares 2018
AUSTRIA	7,876	7,687	7,438	8,135	6,885	4.1%
BELGIUM	7,331	7,257	7,687	7,842	7,980	4.8%
BULGARIA	612	543	527	652	666	0.4%
CROATIA	167	122	0	0	136	0.1%
CZECH REPUBLIC	5,360	5,262	5,305	4,686	4,938	3%
FINLAND	3,807	3,988	4,101	4,003	4,146	2.5%
FRANCE	16,143	14,984	14,413	15,506	15,385	9.2%
GERMANY	42,943	42,676	42,080	43,297	42,435	25.3%
GREECE	1,022	910	1,158	1,359	1,467	0.9%
HUNGARY	1,131	1,674	1,279	1,901	1,989	1.2%
ITALY	23,714	22,018	23,373	24,068	24,532	14.6%
LUXEMBOURG	2,193	2,127	2,175	2,172	2,228	1.3%
NETHERLANDS	6,964	6,995	6,917	6,781	6,813	4.1%
POLAND	8,541	9,198	8,940	10,332	10,167	6.1%
ROMANIA	3,158	3,352	3,276	3,361	3,550	2.1%
SLOVAKIA	4,705	4,562	4,808	4,980	4,947	3%
SLOVENIA	641	625	644	673	692	0.4%
SPAIN	14,187	14,846	13,643	14,434	14,299	8.5%
SWEDEN	4,514	4,348	4,595	4,692	4,632	2.8%
UNITED KINGDOM	12,033	10,907	7,635	7,492	7,268	4.3%
OTHERS	2,053	2,015	1,998	2,056	2,215	1.3%
TOTAL	**169,098**	**166,096**	**161,993**	**168,422**	**167,370**	**100%**

EU crude steel production: by process

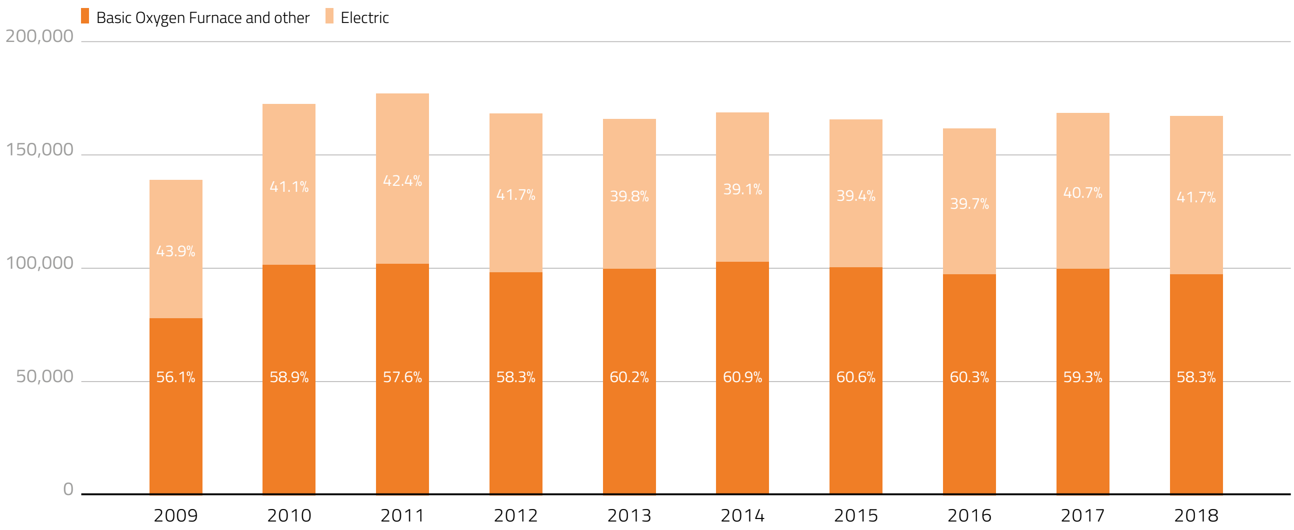
All qualities ▪ in '000 metric tonnes

EU CRUDE STEEL OUTPUT BY PRODUCTION ROUTE

TABLE, CHART ▪ 2009 – 2018

SOURCE: EUROFER

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	% shares 2018
Basic Oxygen Furnace and other	78,239	101,790	102,371	98,316	100,106	103,024	100,577	97,642	99,925	97,588	75.1%
Electric	61,106	70,995	75,204	70,266	66,069	66,074	65,519	64,351	68,497	69,781	24.9%
Total Crude Steel	**139,344**	**172,785**	**177,576**	**168,583**	**166,175**	**169,098**	**166,096**	**161,993**	**168,422**	**167,370**	**100%**



EU crude steel production: by quality

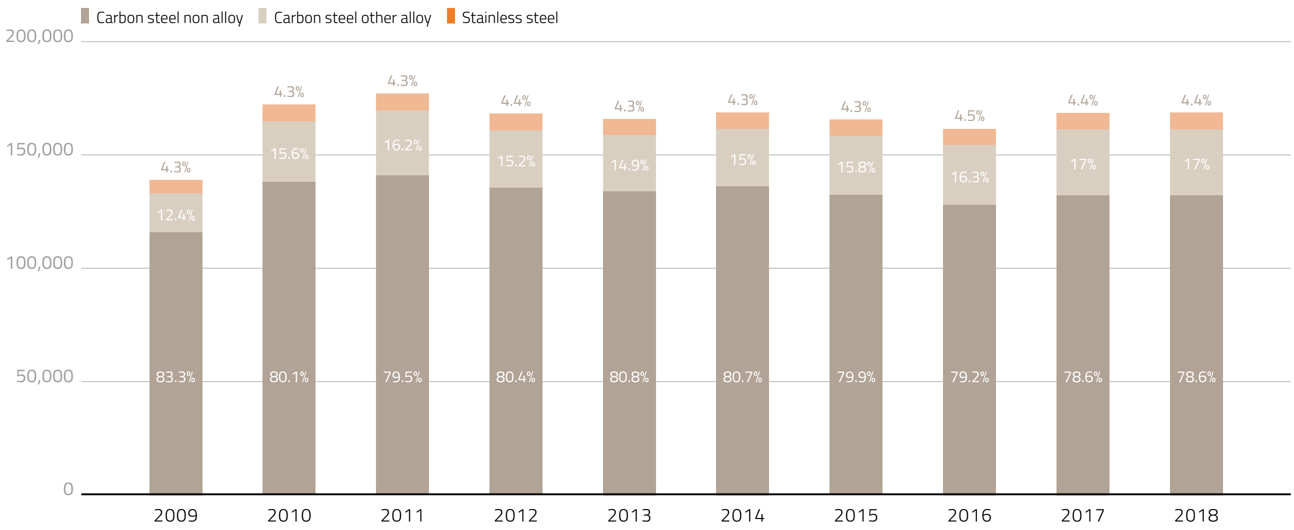
All qualities ▪ in '000 metric tonnes

EU CRUDE STEEL OUTPUT BY QUALITY

TABLE, CHART ▪ 2009 – 2018

SOURCE: EUROFER

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	% shares 2018
Carbon steel non alloy	116,132	138,402	141,204	135,559	134,281	136,472	132,715	128,312	132,481	131,507	78.6
Carbon steel other alloy	17,226	26,896	28,812	25,566	24,753	25,384	26,215	26,399	28,560	28,476	17
Stainless steel	5,986	7,486	7,559	7,458	7,142	7,242	7,166	7,282	7,381	7,386	4.4
Total Crude Steel	**139,344**	**172,785**	**177,576**	**168,583**	**166,175**	**169,098**	**166,096**	**161,993**	**168,422**	**167,370**	**100%**



EU finished steel production: by product category

All qualities ▪ in '000 metric tonnes

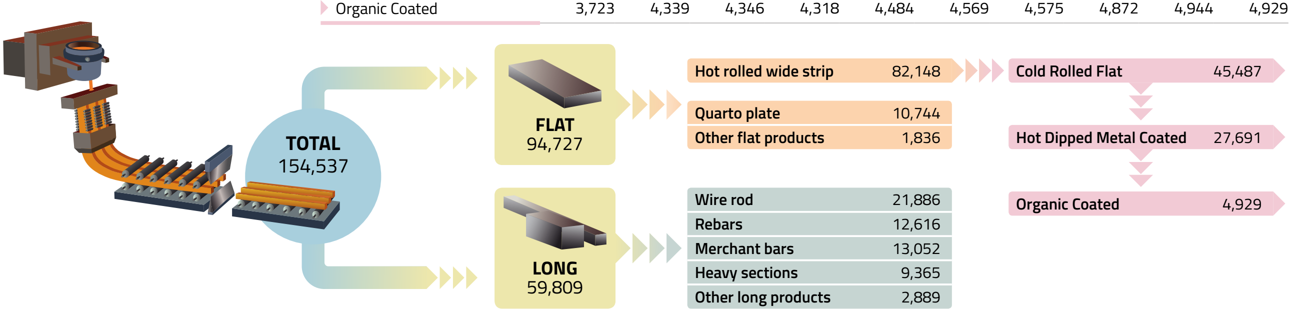
EU TOTAL FINISHED STEEL PRODUCTION BY PRODUCT

TABLE, CHART ▪ 2009 – 2018

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.

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Total Hot Rolled	**129,621**	**156,491**	**161,546**	**152,675**	**150,518**	**152,399**	**151,026**	**150,451**	**153,899**	**154,537**
of which flat products	73,664	94,963	97,095	92,592	92,835	94,380	92,465	92,280	95,294	94,727
Quarto Plate	10,230	12,139	13,187	12,350	11,021	11,595	10,963	10,580	10,947	10,744
Hot Rolled Wide Strip	62,340	81,164	82,151	78,719	80,358	81,281	80,024	80,015	82,535	82,148
Other flat products	1,094	16,59	1,756	1,523	1,456	1,504	1,477	1,686	1,812	1,836
of which long products	55,957	61,529	64,452	60,082	57,683	58,019	58,561	58,170	58,605	59,809
Wire Rod	18,910	21,519	22,452	20,652	20,138	20,,159	20,843	20,389	21,184	21,886
Rebars	17,133	14,724	15,037	14,644	13,172	13,020	12,762	13,230	12,521	12,616
Merchant Bars	9,344	12,969	14,590	12,443	12,586	13,074	12,754	12,277	12,798	13,052
Heavy Sections	7,729	9,056	9,335	9,326	8,584	8,590	8,899	9,433	9,313	9,365
Other long products	2,841	3,262	3,038	3,018	3,204	3,175	3,304	2,841	2,789	2,889
Products obtained from upstream production – from Hot Rolled Wide Strip										
Cold Rolled Flat	35,144	45,369	44,472	42,414	43,502	44,649	44,780	45,321	46,426	45,487
Hot Dipped	19,445	24,149	24,805	23,992	25,009	26,786	27,299	27,398	28,116	27,691
Organic Coated	3,723	4,339	4,346	4,318	4,484	4,569	4,575	4,872	4,944	4,929



Design by EUROFER with special thanks to worldsteel for permission to reproduce their graphic elements.

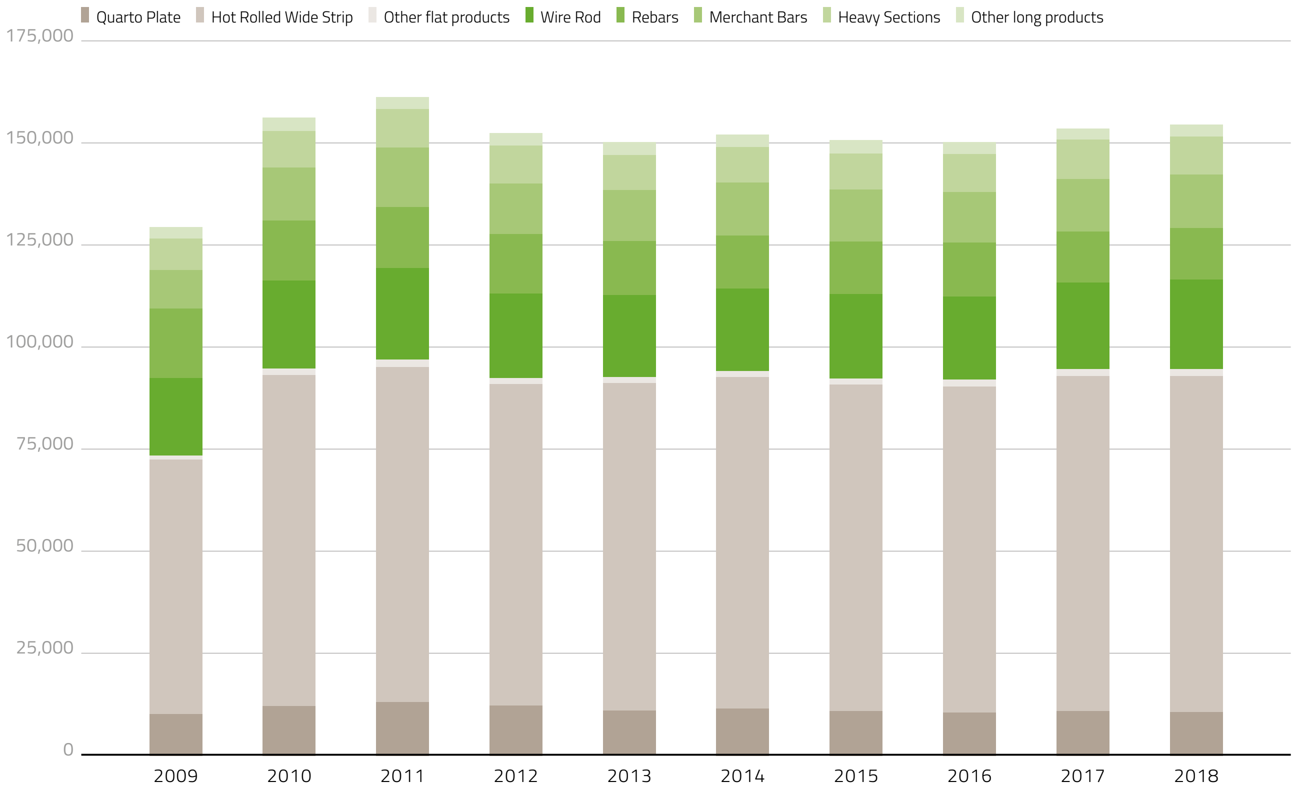
EU Hot Rolled finished steel production: by product category

All qualities ▪ in '000 metric tonnes

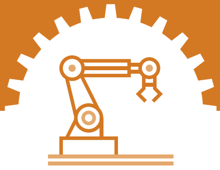
EU HOT ROLLED FINISHED STEEL PRODUCTION

CHART ▪ 2009 – 2018

SOURCE: EUROFER



Steel use & market supply



EUROPEAN STEEL IN FIGURES **2019**

www.eurofer.eu

EUROFER
The European Steel Association

Follow us on twitter @EUROFER_eu

EUROFER
The European Steel Association

www.eurofer.eu

Consumption: Real & apparent steel consumption

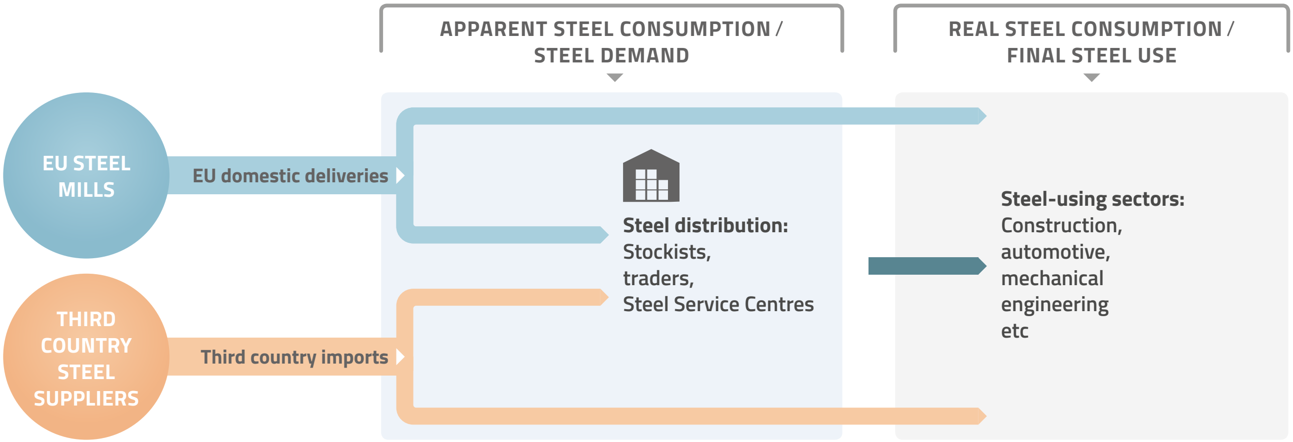
All products, all qualities ▪ in '000 metric tonnes

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.

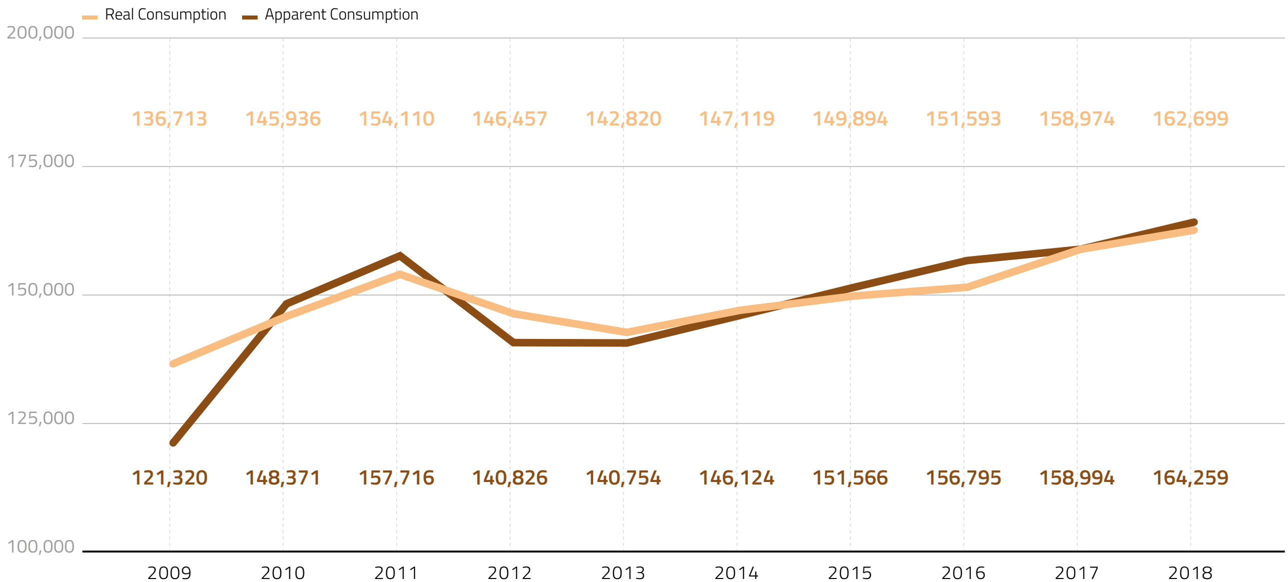
Consumption: Real & apparent steel consumption

All products, all qualities ▪ in '000 metric tonnes

REAL VS APPARENT CONSUMPTION

GRAPH ▪ 2009 – 2018

SOURCE: EUROFER



Consumption: by sector of economic activity

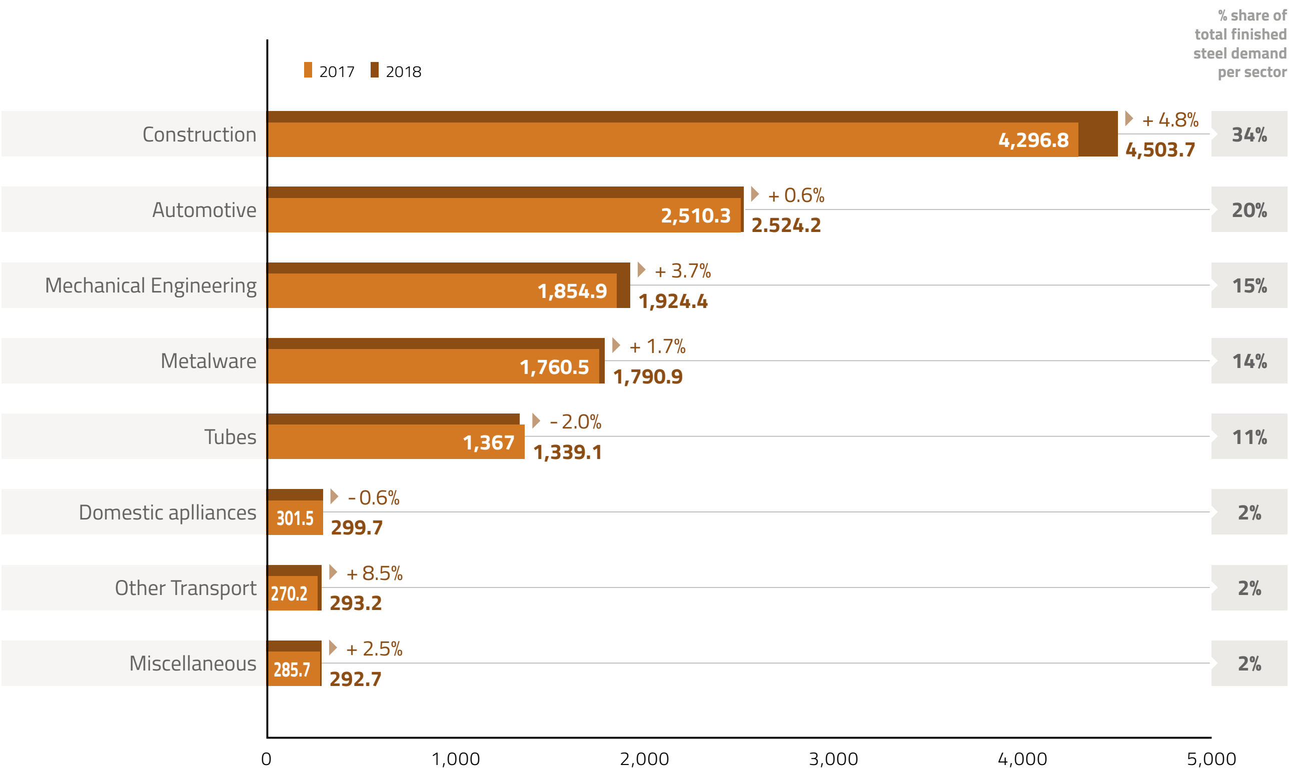
All products, all qualities ▪ in '000 monthly metric tonnes

STEEL CONSUMPTION PER STEEL-USING SECTOR

CHART ▪ 2017 – 2018

SOURCE: EUROFER

Activity in EU steel-using sectors grew in 2018



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

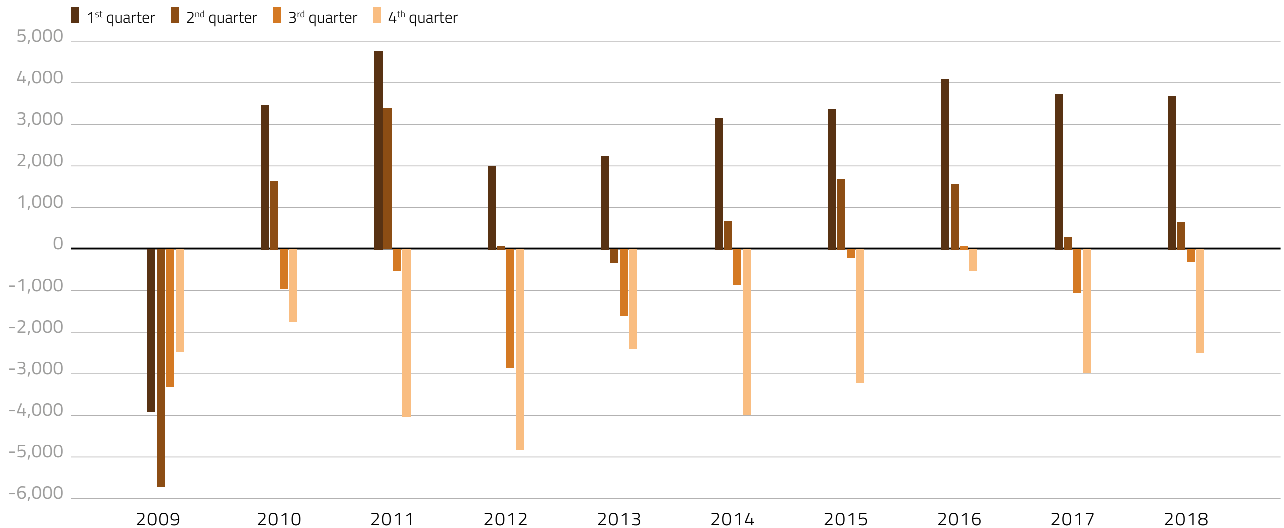
STOCK CHANGE

TABLE ▪ 2009 – 2018

SOURCE: EUROFER

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

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
1st quarter	-3,903	3,492	4,769	2,011	2,241	3,158	3,387	4,094	3,734	3,695
2nd quarter	-5,703	1,643	3,390	58	-325	682	1,689	1,583	293	653
3rd quarter	-3,315	-945	-517	-2,885	-1,592	-851	-195	53	-1,037	-309
4th quarter	-2,471	-1,755	-4,035	-4,815	-2,391	-3,984	-3,209	-528	-2,971	-2,479



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

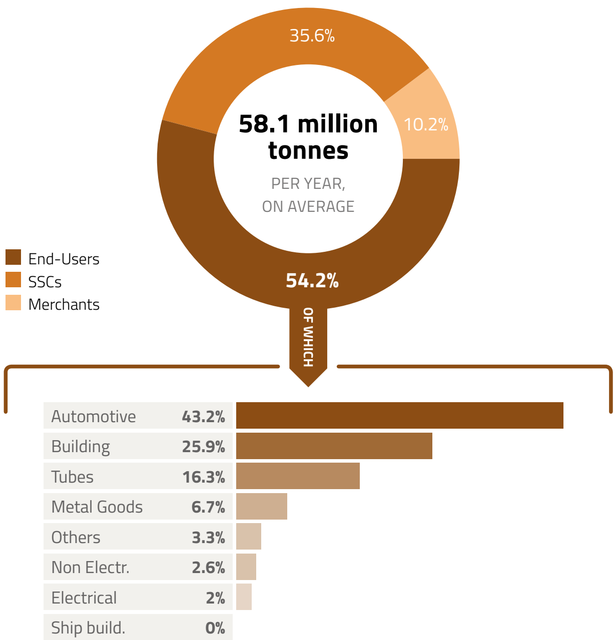
Specific flat product deliveries: Strip mill products & quarto plate

EU STRIP MILL PRODUCT DELIVERIES

GRAPHIC ▪ 2014/2018

SOURCE: EUROFER

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

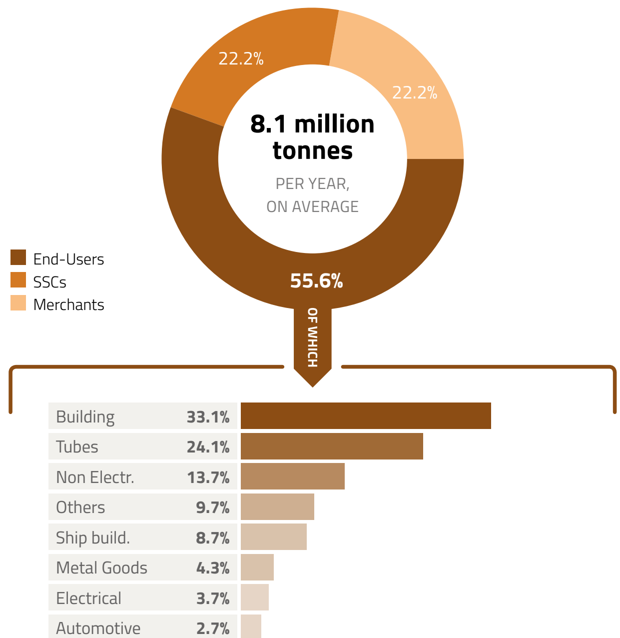


EU QUARTO PLATE DELIVERIES

GRAPHIC ▪ 2014/2018

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 ▪ 2009 – 2018

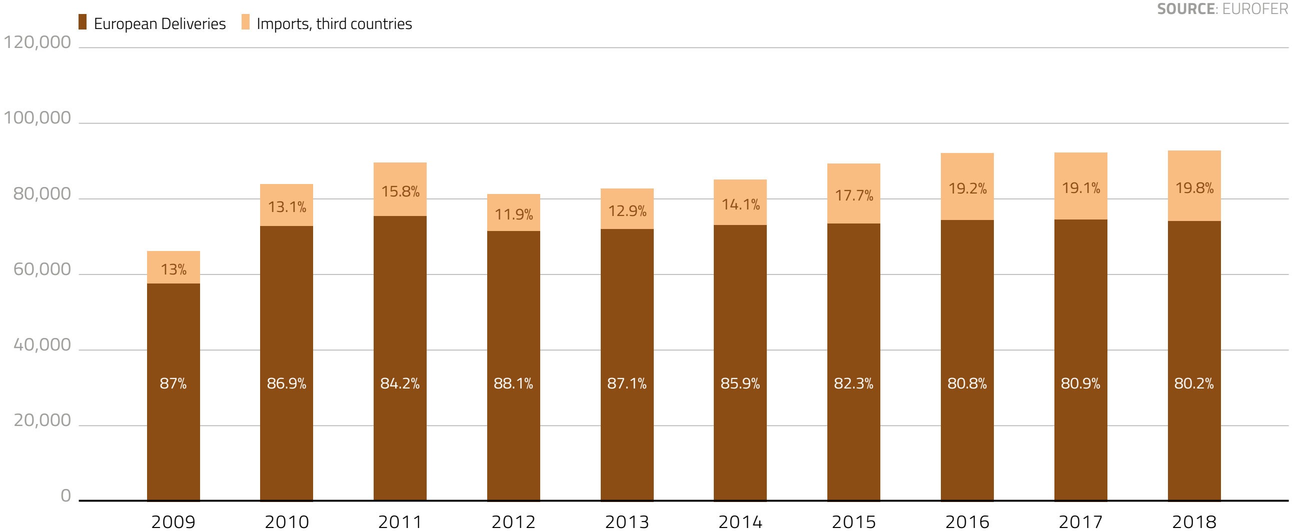
SOURCE: EUROFER

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	% shares 2018
European Deliveries	57,752	73,048	75,617	71,759	72,244	73,106	73,707	74,827	75,119	75,399	80.2%
Imports third countries	8,661	11,057	14,213	9,701	10,705	12,043	15,818	17,790	17,753	18,566	19.8%
Market Supply	**66,413**	**84,105**	**89,830**	**81,460**	**82,949**	**85,149**	**89,525**	**92,617**	**92,872**	**93,965**	**100%**

TOTAL FLAT PRODUCTS

CHART ▪ 2009 – 2018

SOURCE: EUROFER



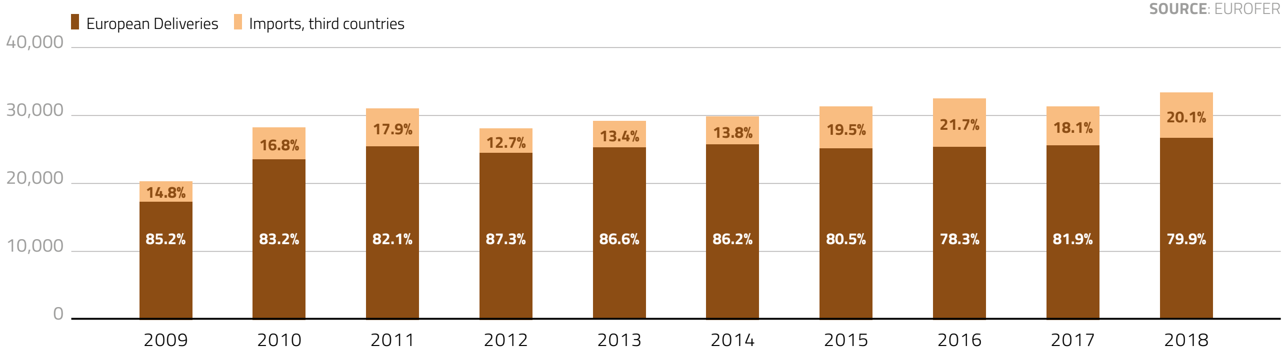
Market supply: Hot rolled flat & cold rolled sheet

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

HOT ROLLED FLAT PRODUCTS

CHART ▪ 2009 – 2018

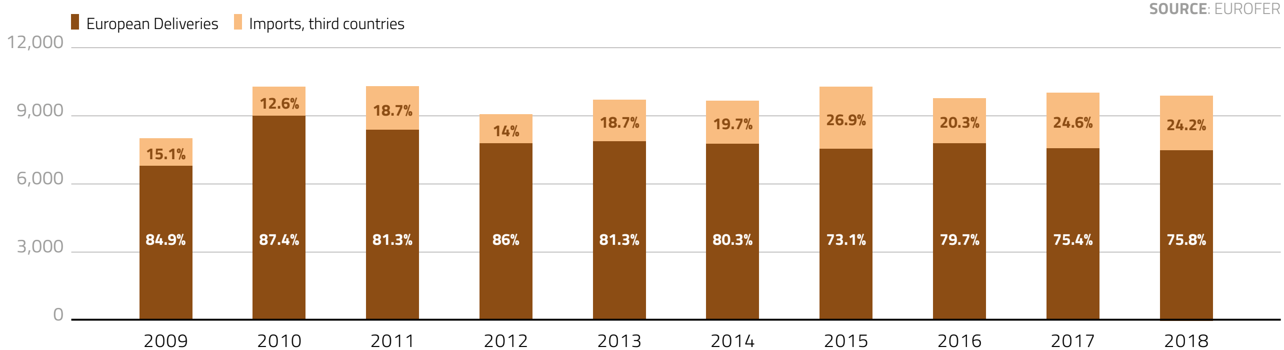
SOURCE: EUROFER



COLD ROLLED SHEETS

CHART ▪ 2009 – 2018

SOURCE: EUROFER



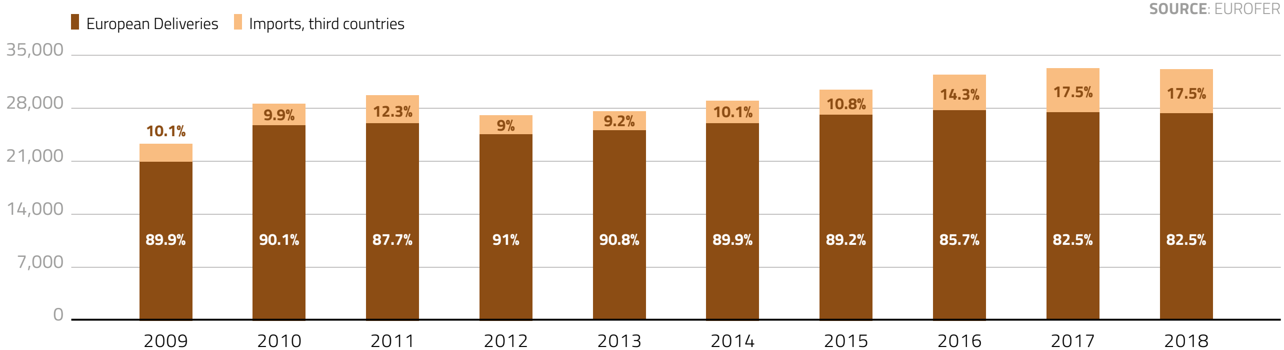
Market supply: Coated sheets & quarto plate

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

TOTAL COATED SHEETS

CHART ▪ 2009 – 2018

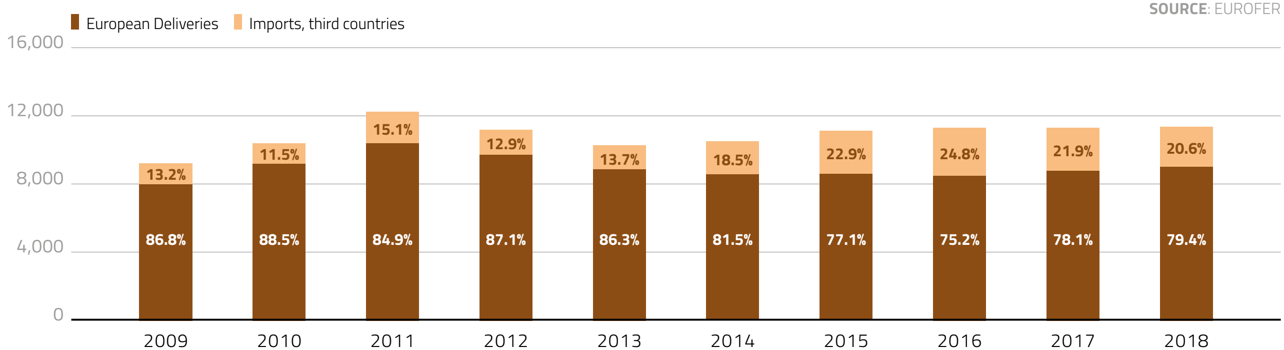
SOURCE: EUROFER



QUARTO PLATE

CHART ▪ 2009 – 2018

SOURCE: EUROFER



Market supply: Total long products

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

TOTAL LONG PRODUCTS

TABLE ▪ 2009 – 2018

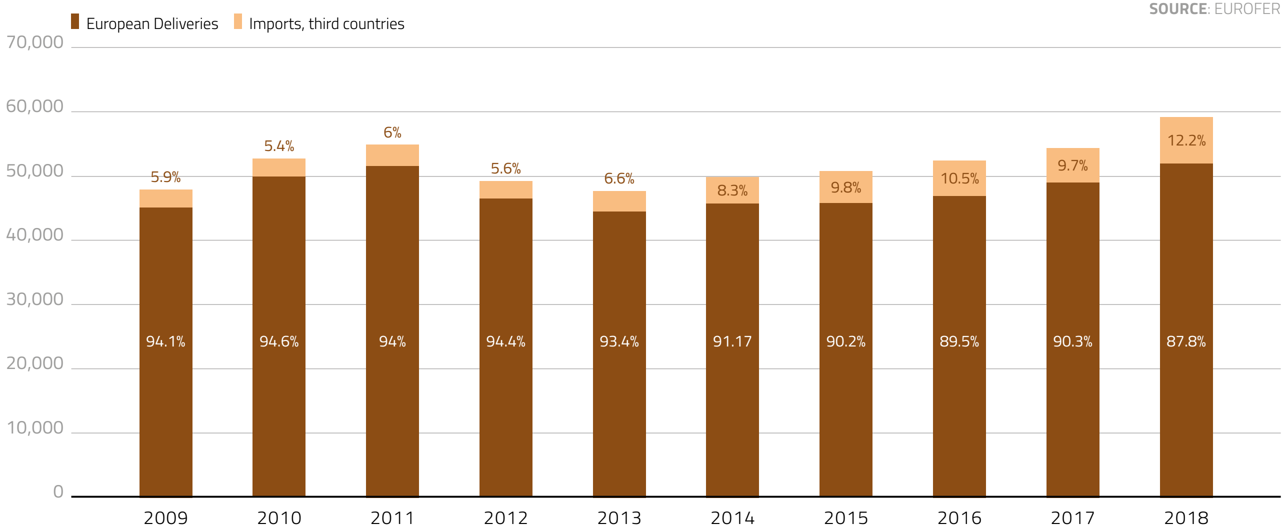
SOURCE: EUROFER

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	% shares 2018
European Deliveries	45,205	50,014	51,698	46,584	44,614	45,827	45,886	46,998	49,850	52,016	87.9%
Imports, third countries	2,825	2,830	3,297	2,738	3,144	4,146	4,993	5,525	5,388	7,185	12.1%
Market Supply	**48,030**	**52,844**	**54,995**	**49,322**	**47,758**	**49,973**	**50,879**	**52,523**	**55,238**	**59,201**	**100%**

TOTAL LONG PRODUCTS

CHART ▪ 2009 – 2018

SOURCE: EUROFER



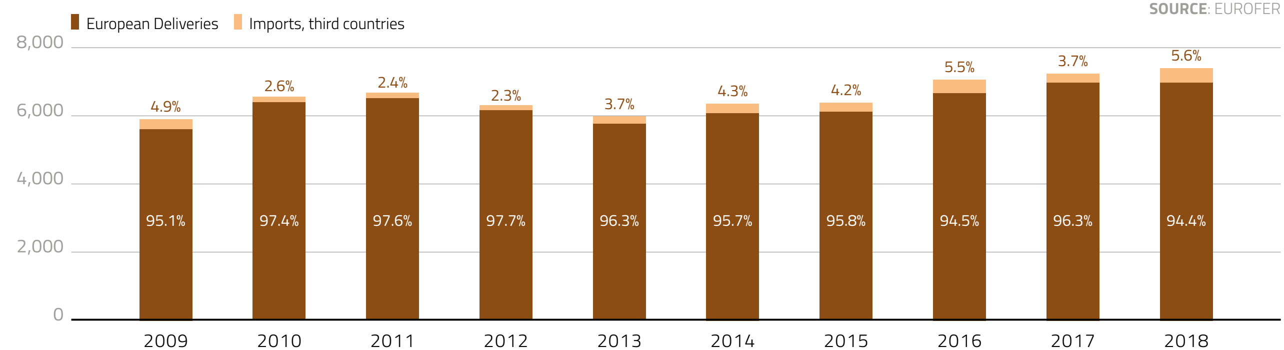
Market supply: Beams & rebar

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

BEAMS

CHART ▪ 2009 – 2018

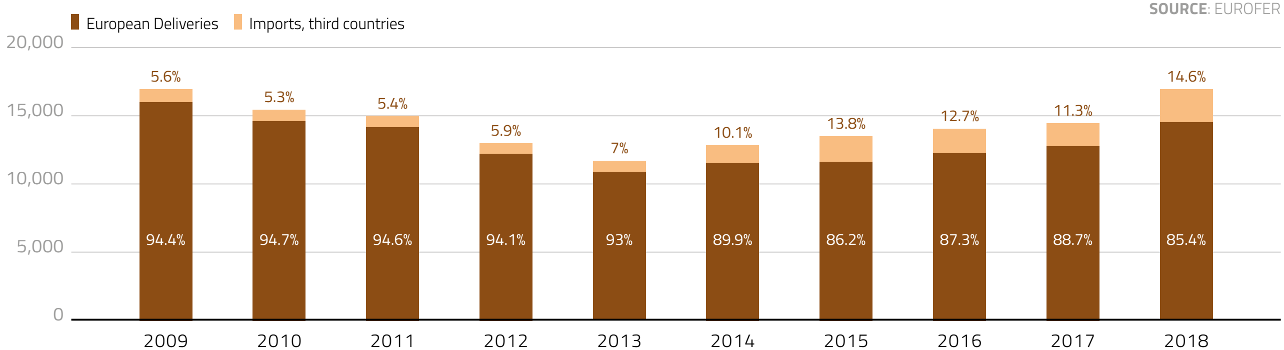
SOURCE: EUROFER



REBAR, INCLUDING DEFORMED RODS

CHART ▪ 2009 – 2018

SOURCE: EUROFER



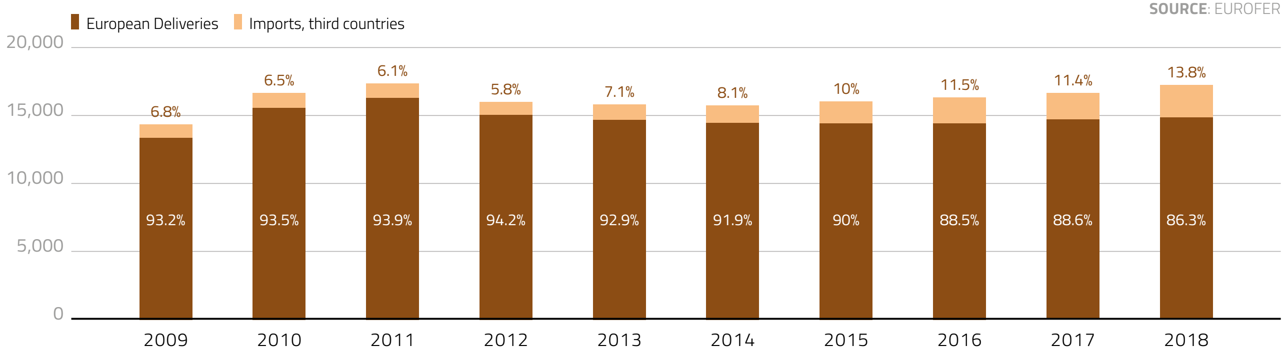
Market supply: Wire rod & merchant bar

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

WIRE ROD, EXCLUDING DEFORMED RODS

CHART ▪ 2009 – 2018

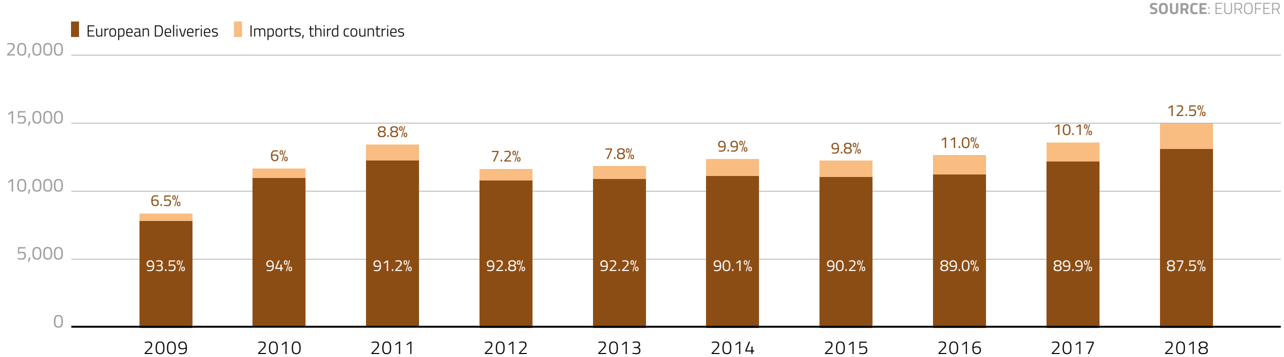
SOURCE: EUROFER



MERCHANT BARS

CHART ▪ 2009 – 2018

SOURCE: EUROFER



International trade

EUROPEAN STEEL IN FIGURES **2019**

www.eurofer.eu

EUROFER
The European Steel Association

Follow us on twitter @EUROFER_eu

EUROFER
The European Steel Association

www.eurofer.eu

Imports into the EU: Total

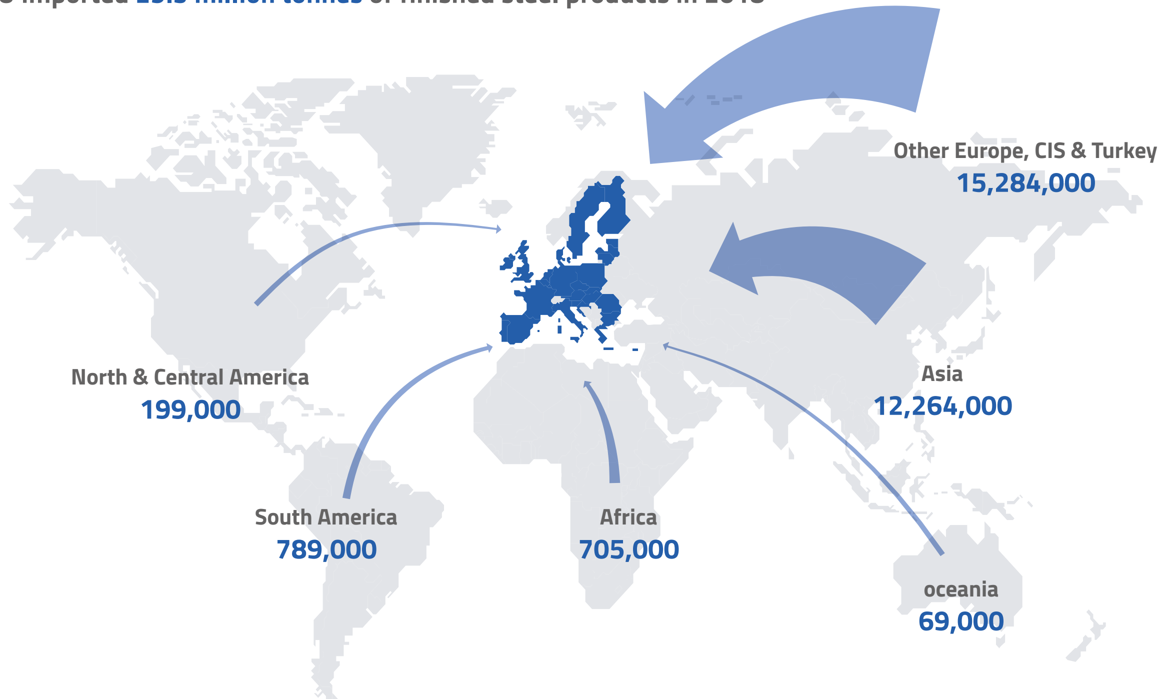
All qualities ▪ in metric tonnes

TOTAL IMPORTS INTO THE EU

MAP ▪ 2018

SOURCE: EUROFER

The EU imported 29.3 million tonnes of finished steel products in 2018



Imports into the EU: Total

All qualities ▪ in '000 metric tonnes

TOTAL IMPORTS INTO THE EU

TABLE ▪ 2009 – 2018

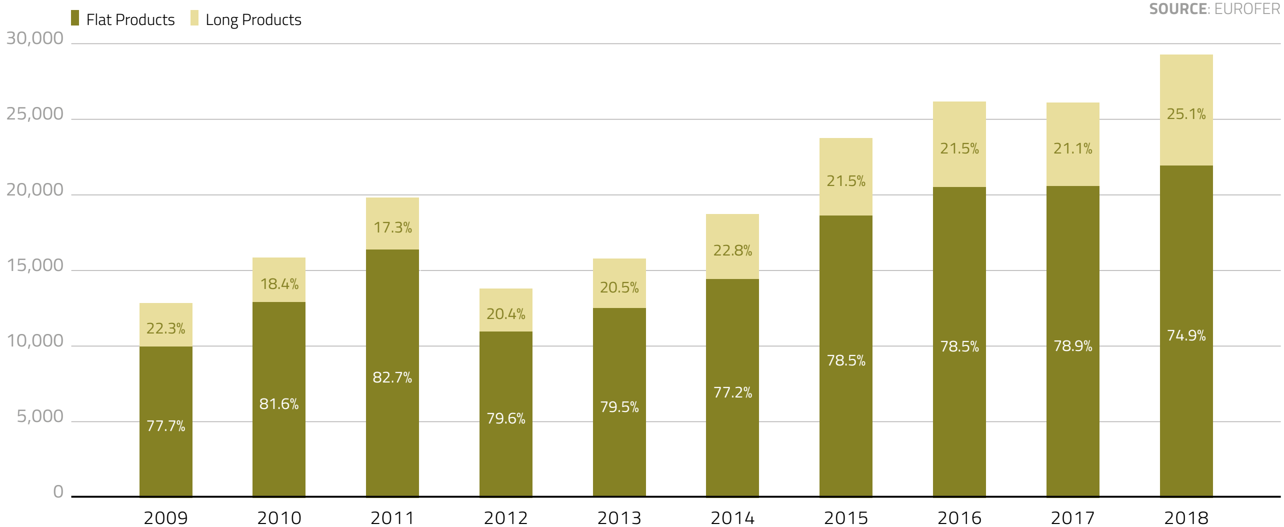
SOURCE: EUROFER

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	% shares 2018
Flat Products	10,011	12,945	16,426	11,005	12,563	14,475	18,675	20,556	20,616	21,971	74.9%
Long Products	2,875	2,928	3,434	2,827	3,244	4,277	5,101	5,638	5,503	7,345	25.1%
Finished Products	**12,886**	**15,872**	**19,860**	**13,833**	**15,807**	**18,753**	**23,776**	**26,193**	**26,119**	**29,316**	**100%**

TOTAL IMPORTS INTO THE EU

CHART ▪ 2009 – 2018

SOURCE: EUROFER



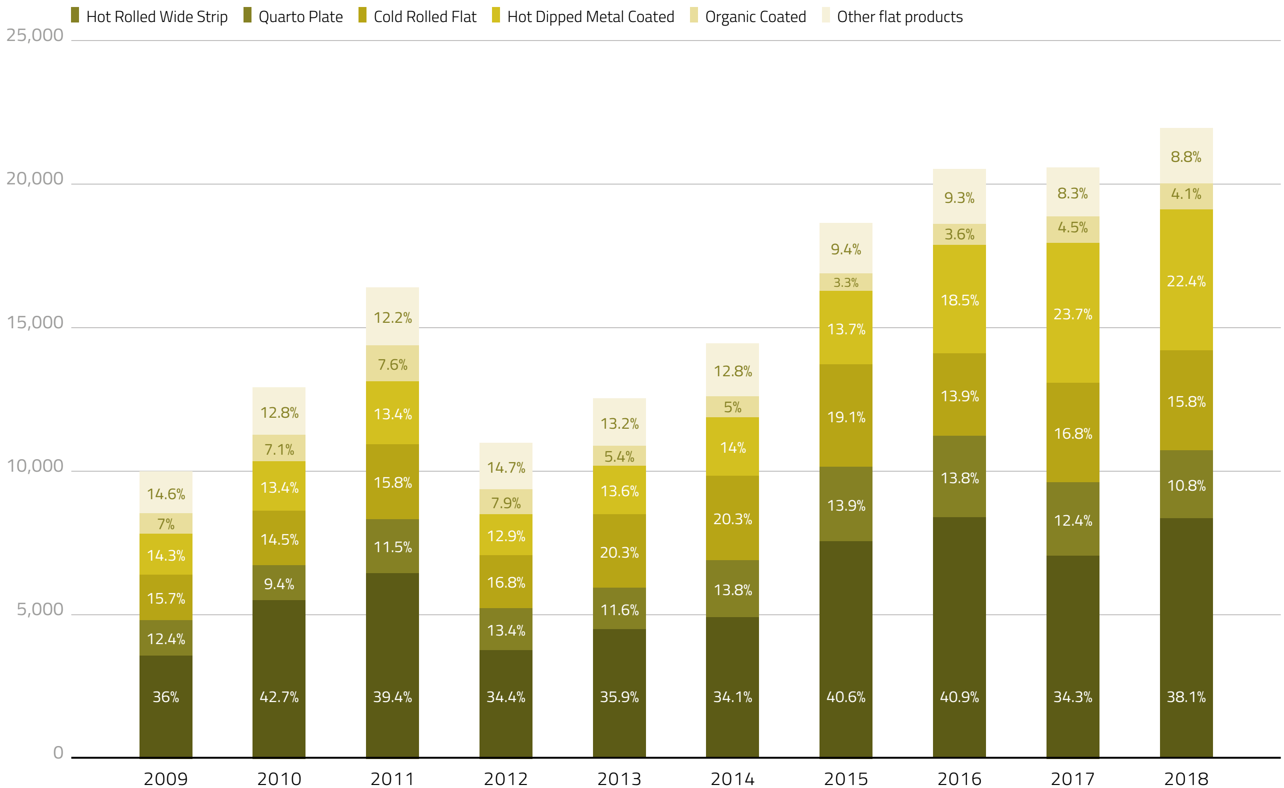
Imports into the EU: Flat products

All qualities ▪ in ‘000 metric tonnes

FLAT PRODUCT IMPORTS INTO THE EU BY PRODUCT

CHART ▪ 2009 – 2018

SOURCE: EUROFER



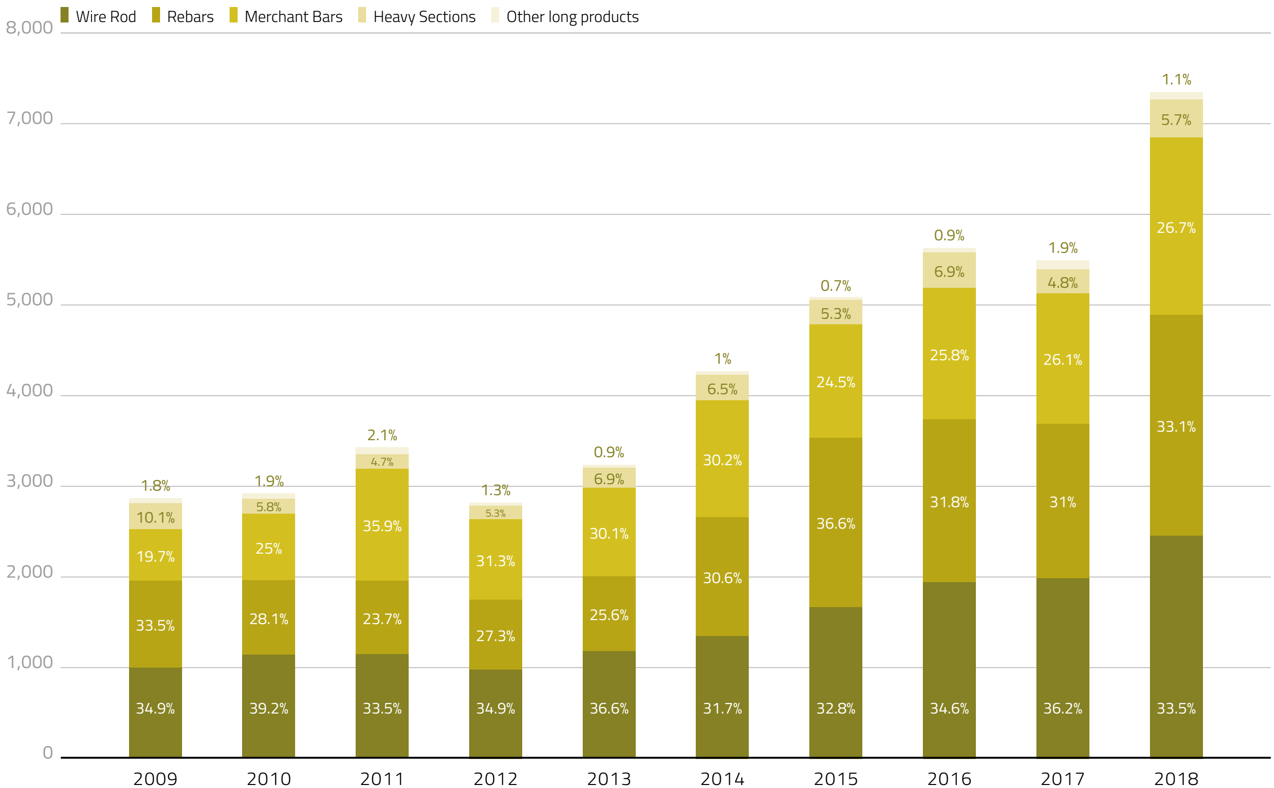
Imports into the EU: Long products

All qualities ▪ in '000 metric tonnes

LONG PRODUCT IMPORTS INTO THE EU BY PRODUCT

CHART ▪ 2009 – 2018

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 ▪ 2009 – 2018

SOURCE: EUROFER

Countries ranked according to their 2018 order

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
TURKEY	1,544	1,112	2,110	1,008	1,824	1,479	1,467	2,276	3,742	6,168
RUSSIA	1,863	2,489	2,141	2,456	2,706	2,765	3,490	3,541	2,404	3,725
SOUTH KOREA	1,213	1,018	1,410	1,203	1,391	1,519	2,021	2,725	3,131	3,426
CHINA	1,241	3,155	4,174	2,719	3,013	4,507	6,899	5,667	3,441	2,827
INDIA	770	637	1,208	967	1,215	1,517	1,155	1,912	3,755	2,782
UKRAINE	1,453	2,125	2,807	1,840	2,050	2,278	2,531	3,072	2,209	1,950
TAIWAN	311	335	551	356	583	681	454	779	1,232	1,748
SERBIA	668	1,020	851	227	196	280	580	582	775	1,071
BRAZIL	559	475	671	187	138	211	826	1064	905	777
SWITZERLAND	436	588	669	632	642	605	657	602	645	635
OTHERS	2,828	2,918	3,268	2,238	2,049	2,911	3,696	3,973	3,880	4,207
TOTAL	**12,886**	**15,872**	**19,860**	**13,833**	**15,807**	**18,753**	**23,776**	**26,193**	**26,119**	**29,316**

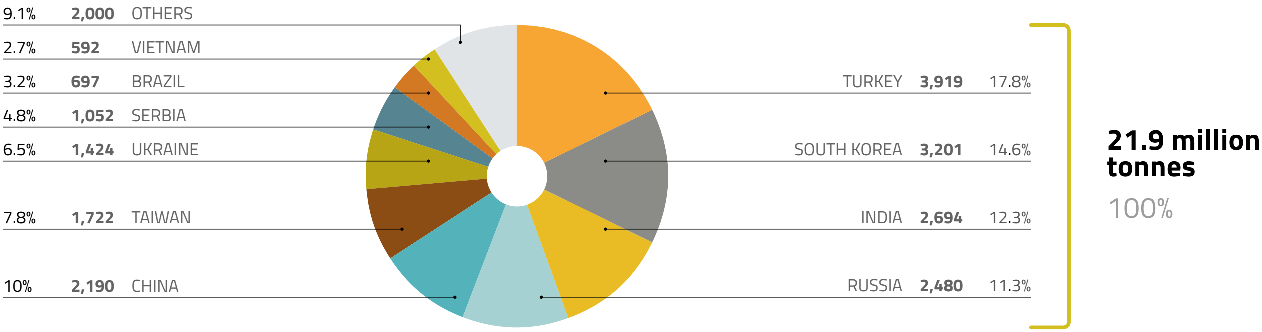
Imports: Top 10 countries of origin by product category

All qualities ▪ in '000 metric tonnes

TOP 10 FLAT PRODUCTS IMPORTS

CHART ▪ 2018

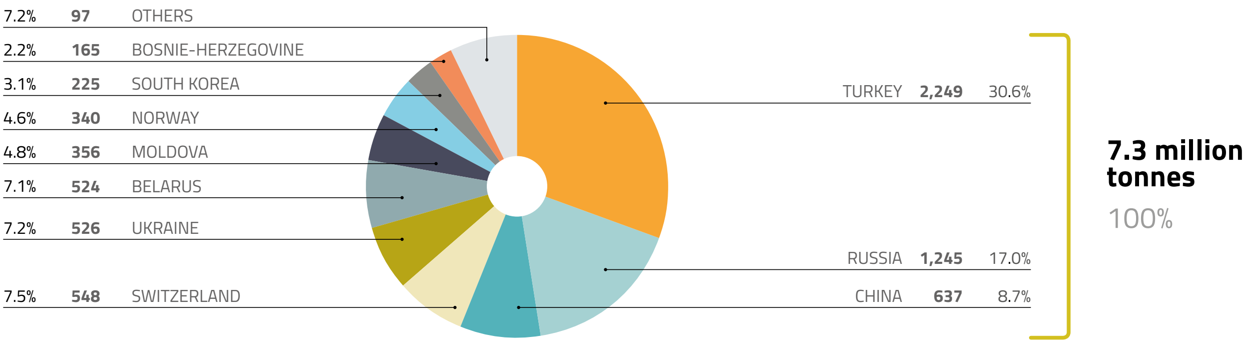
SOURCE: EUROFER



TOP 10 LONG PRODUCT IMPORTS

CHART ▪ 2018

SOURCE: EUROFER



Exports into the EU: Total

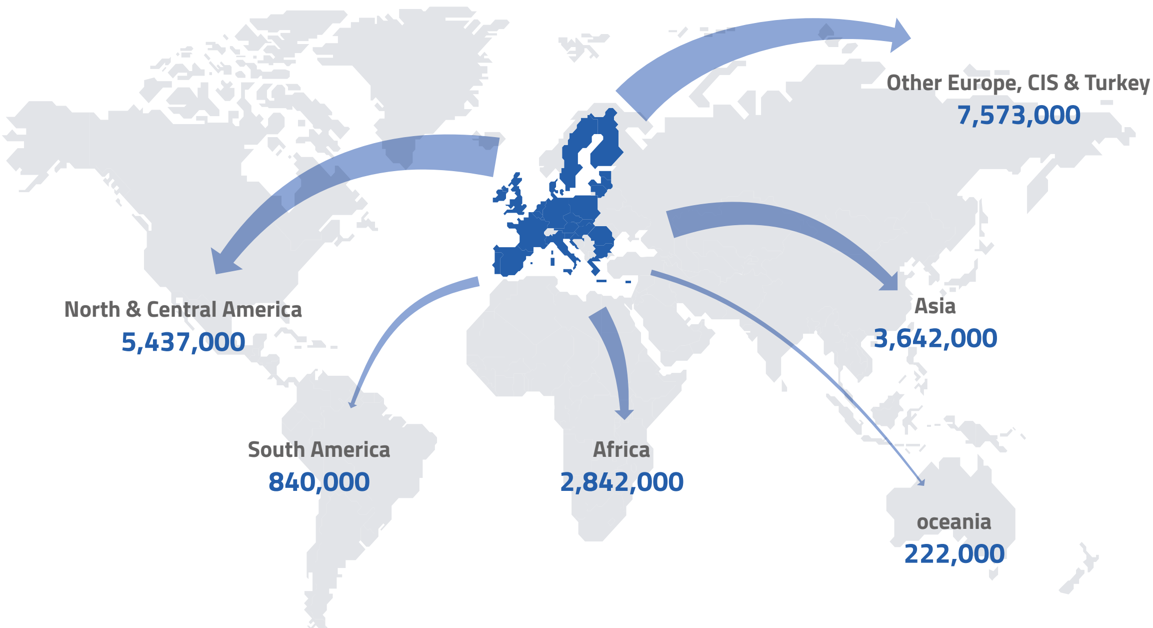
All qualities ▪ in metric tonnes

TOTAL EXPORTS INTO THE EU

MAP ▪ 2018

SOURCE: EUROFER

The EU exported 20.6 million tonnes of finished steel products in 2018



Exports from the EU: Total

All qualities ▪ in '000 metric tonnes

TOTAL EXPORTS FROM THE EU

TABLE ▪ 2009 – 2018

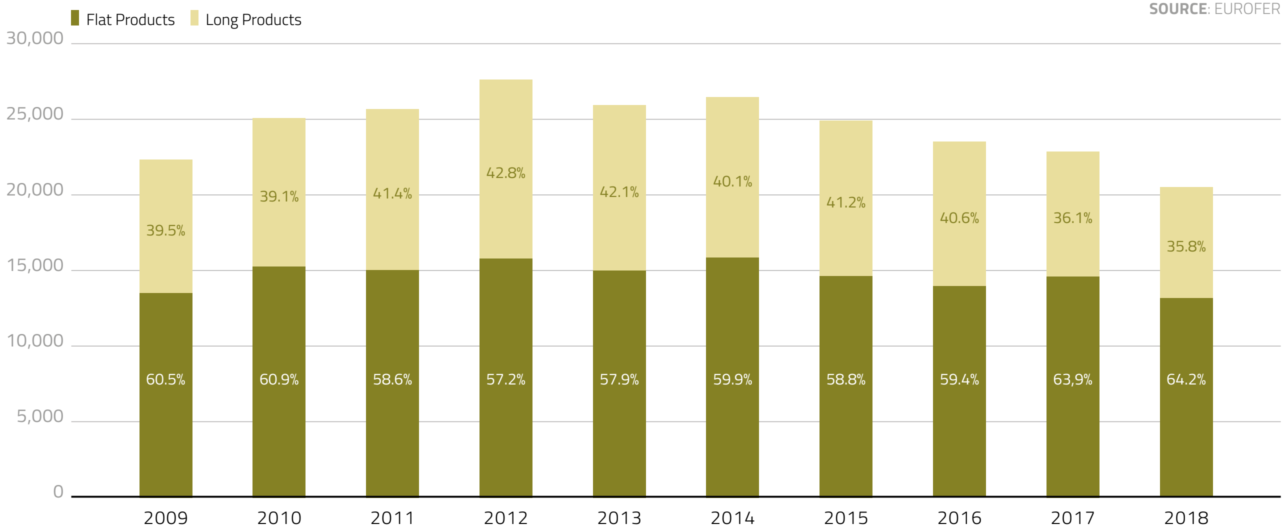
SOURCE: EUROFER

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	% shares 2018
Flat Products	13,545	15,308	15,090	15,830	15,050	15,906	14,676	14,005	14,639	13,208	64.2%
Long Products	8,859	9,827	10,661	11,857	10,932	10,627	10,281	9,578	8,264	7,356	35.8%
Finished Products	**22,403**	**25,135**	**25,751**	**27,687**	**25,983**	**26,533**	**24,957**	**23,583**	**22,903**	**20,564**	**100%**

TOTAL EXPORTS FROM THE EU

CHART ▪ 2009 – 2018

SOURCE: EUROFER



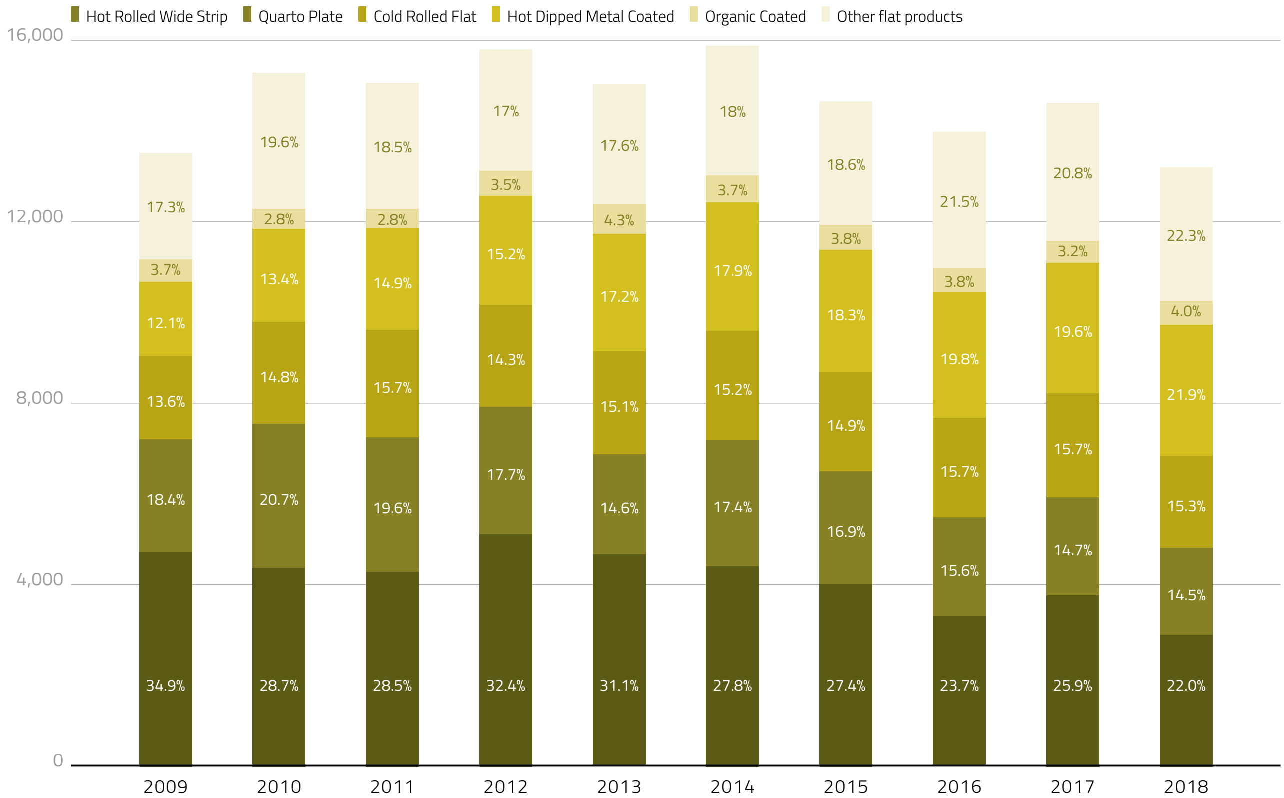
Exports from the EU: Flat products

All qualities ▪ in '000 metric tonnes

FLAT PRODUCT EXPORTS FROM THE EU BY PRODUCT

CHART ▪ 2009 – 2018

SOURCE: EUROFER



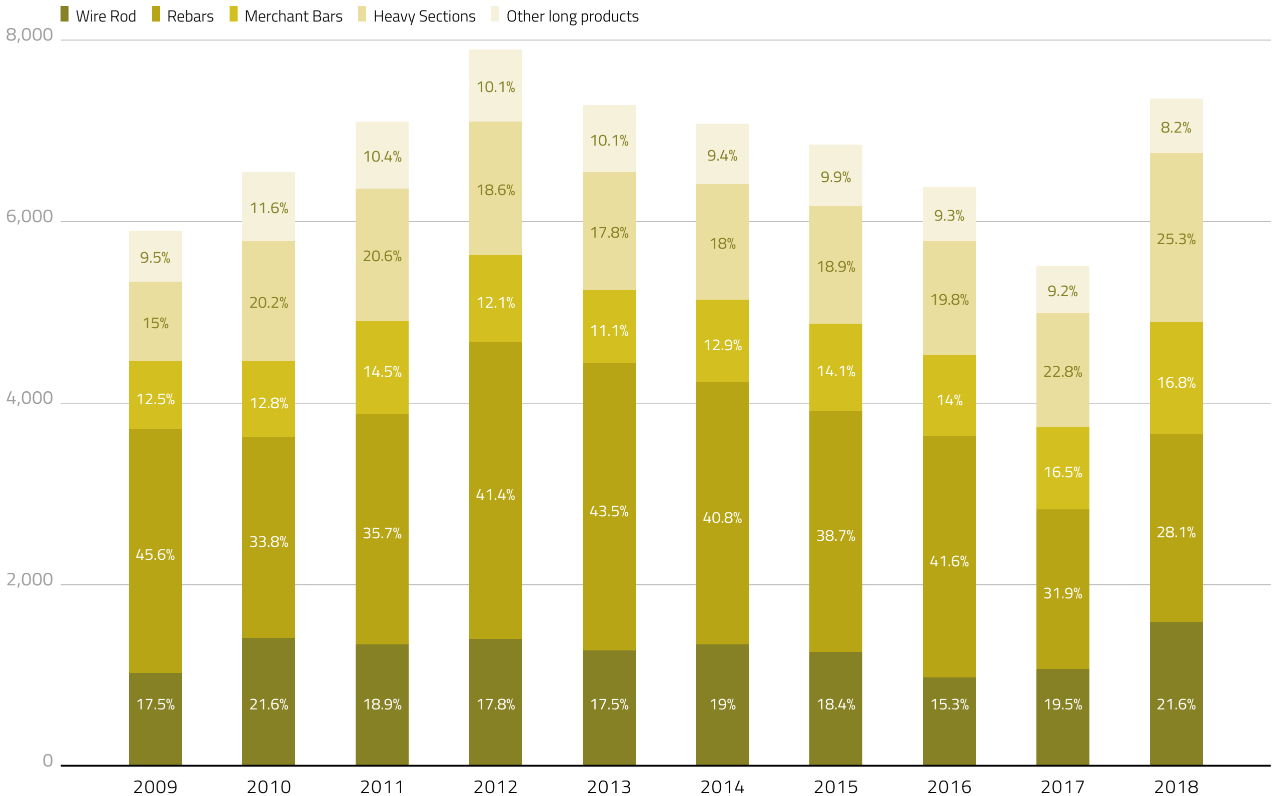
Exports from the EU: Long products

All qualities ▪ in '000 metric tonnes

LONG PRODUCT EXPORTS FROM THE EU BY PRODUCT

CHART ▪ 2009 – 2018

SOURCE: EUROFER



Export destinations: Top 10 countries

All qualities ▪ in '000 metric tonnes

TOP 10 EXPORTERS DESTINATIONS FOR ALL FINISHED PRODUCTS

TABLE ▪ 2009 – 2018

SOURCE: EUROFER

Countries ranked according to their 2018 order

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
U.S.A.	1,379	2,259	2,490	2,840	2,961	4,124	3,760	3,229	3,399	3,355
TURKEY	3,497	4,175	3,959	4,279	4,546	4,090	4,370	4,287	4,668	3,187
SWITZERLAND	1,465	1,892	1,996	1,917	1,883	1,834	1,709	1,842	1,890	1,879
MEXICO	534	755	869	988	794	756	604	745	897	1,228
CHINA	903	864	962	896	958	1,104	906	1,014	1,140	1,107
ALGERIA	3,640	2,745	3,492	4,489	4,574	4,978	4,419	3,586	1,663	935
CANADA	240	518	615	555	448	648	805	667	602	714
MOROCCO	513	447	498	620	793	642	598	677	642	606
RUSSIA	541	909	1,003	995	946	930	588	503	955	559
EGYPT	554	586	257	445	334	325	428	469	482	548
OTHERS	9,137	9,985	9,610	9,663	7,746	7,102	6,770	6,564	6,565	6,446
TOTAL	**22,403**	**25,135**	**25,751**	**27,687**	**25,983**	**26,533**	**24,957**	**23,583**	**22,903**	**20,564**

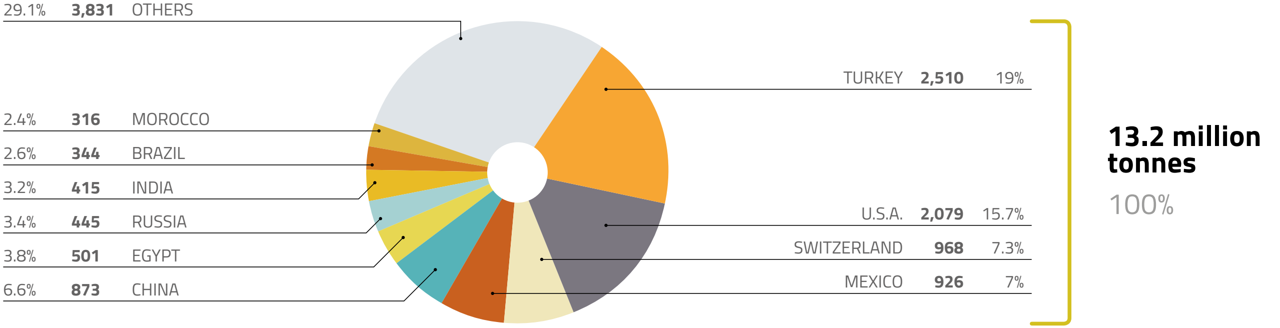
Export destinations: by product category

All qualities ▪ in '000 metric tonnes

TOP FLAT PRODUCT EXPORT DESTINATIONS

CHART ▪ 2018

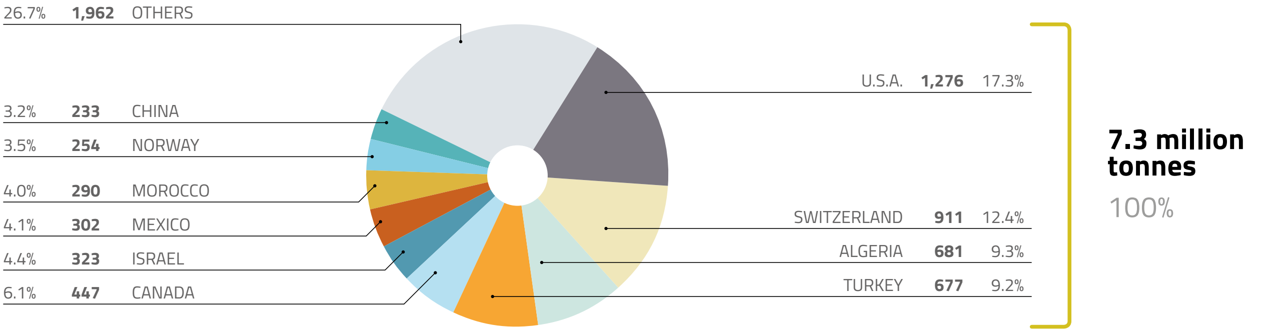
SOURCE: EUROFER



TOP LONG PRODUCT EXPORT DESTINATIONS

CHART ▪ 2018

SOURCE: EUROFER



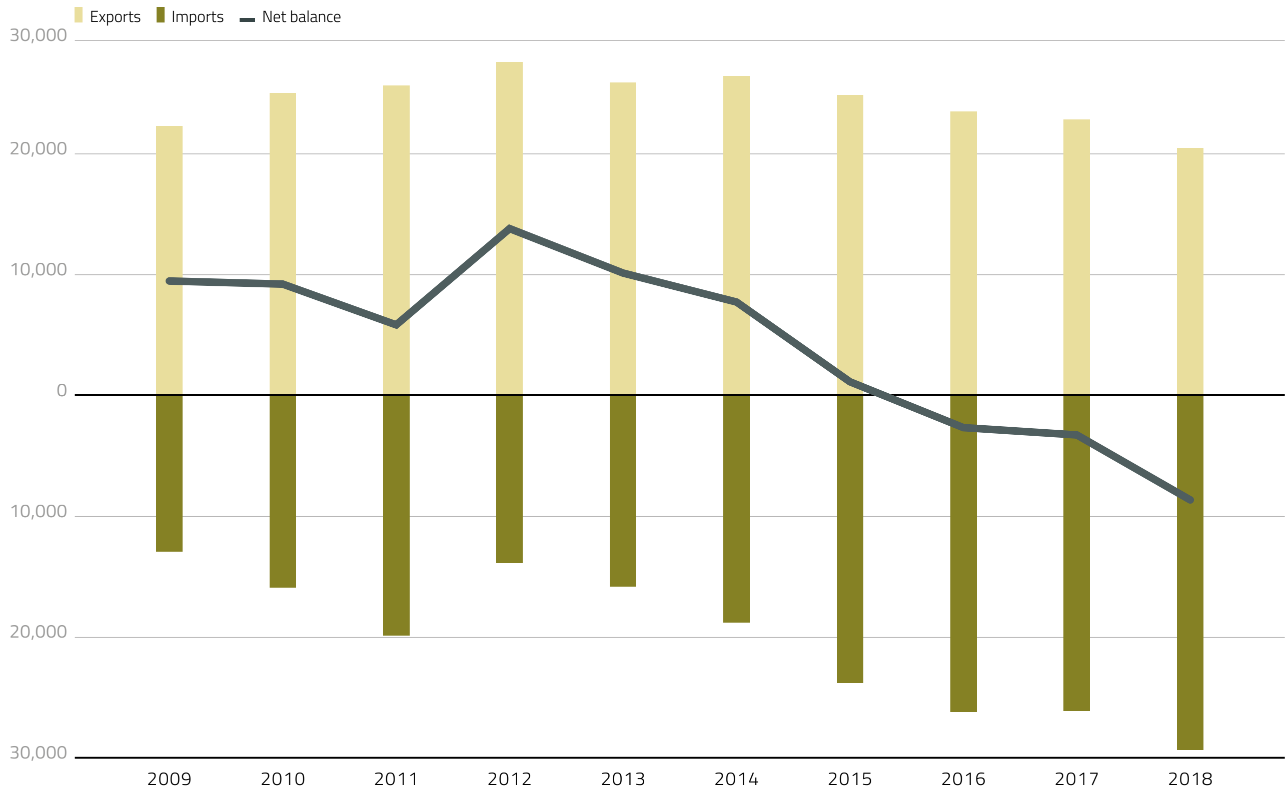
EU trade balance: by volume

All qualities ▪ in '000 metric tonnes

FINISHED PRODUCTS NET TRADE BALANCE BY VOLUME

CHART ▪ 2009 – 2018

SOURCE: EUROFER



Stainless & sustainability specialty steels

EUROPEAN STEEL IN FIGURES **2019**

www.eurofer.eu

EUROFER
The European Steel Association

Stainless & sustainability specialty steels

Follow us on twitter @EUROFER_eu

EUROFER
The European Steel Association

www.eurofer.eu

Stainless steel market supply: Total flat products

In '000 metric tonnes

TOTAL STAINLESS FLAT PRODUCT DELIVERIES BY SOURCE

TABLE ▪ 2009 – 2018

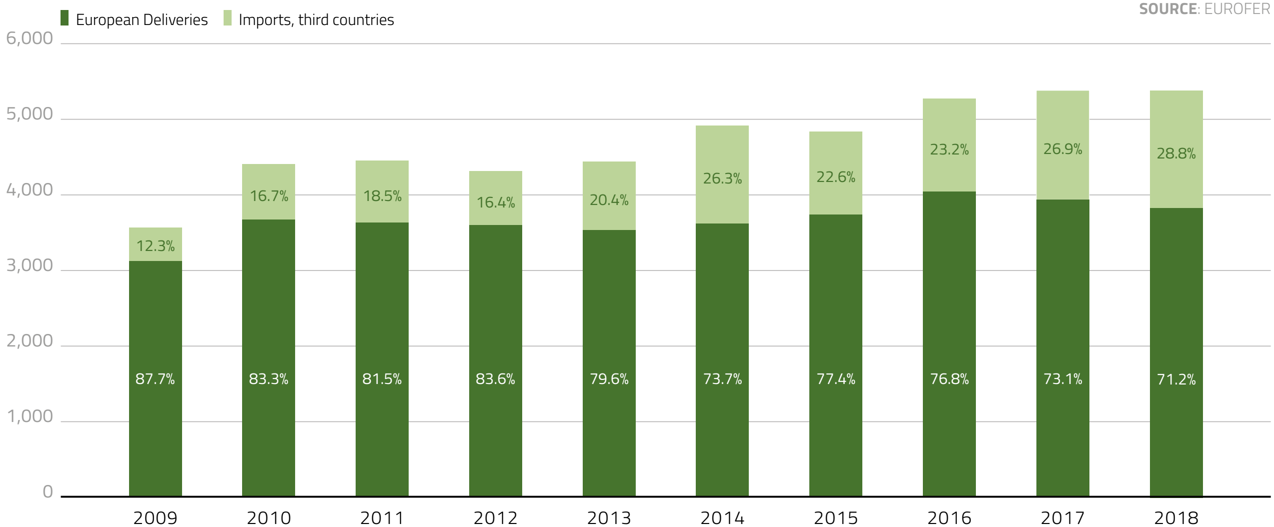
SOURCE: EUROFER

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	% shares 2018
European Deliveries	3,130	3,678	3,637	3,608	3,541	3,629	3,748	4,052	3,940	3,889	71.2%
Imports, Third Countries	441	740	824	710	909	1,292	1,096	1,229	1,447	1,548	28.8%
Market Supply	**3,572**	**4,418**	**4,462**	**4,318**	**4,450**	**4,921**	**4,844**	**5,282**	**5,387**	**5,437**	**100%**

TOTAL STAINLESS FLAT PRODUCT DELIVERIES BY SOURCE

CHART ▪ 2009 – 2018

SOURCE: EUROFER



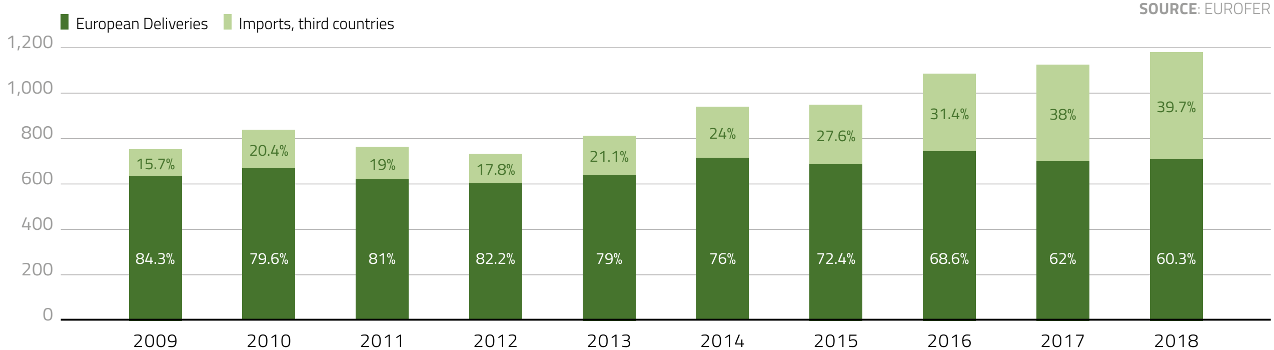
Stainless steel market supply: Hot rolled strip mill & Quarto plate

In ‘000 metric tonnes

HOT ROLLED STRIP MILL PRODUCTS FOR DIRECT USE

CHART ▪ 2009 – 2018

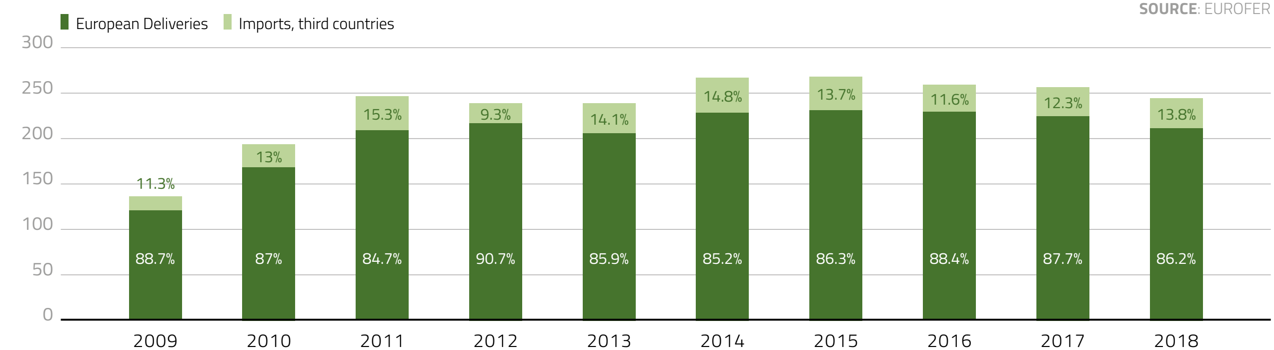
SOURCE: EUROFER



QUARTO PLATE

CHART ▪ 2009 – 2018

SOURCE: EUROFER



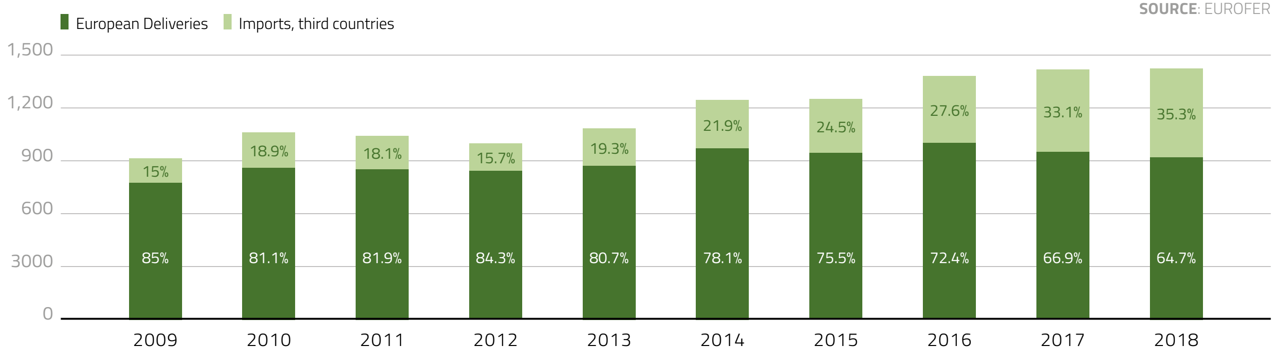
Stainless steel market supply: Hot & cold rolled flat

In '000 metric tonnes

HOT ROLLED FLAT PRODUCTS

CHART ▪ 2009 – 2018

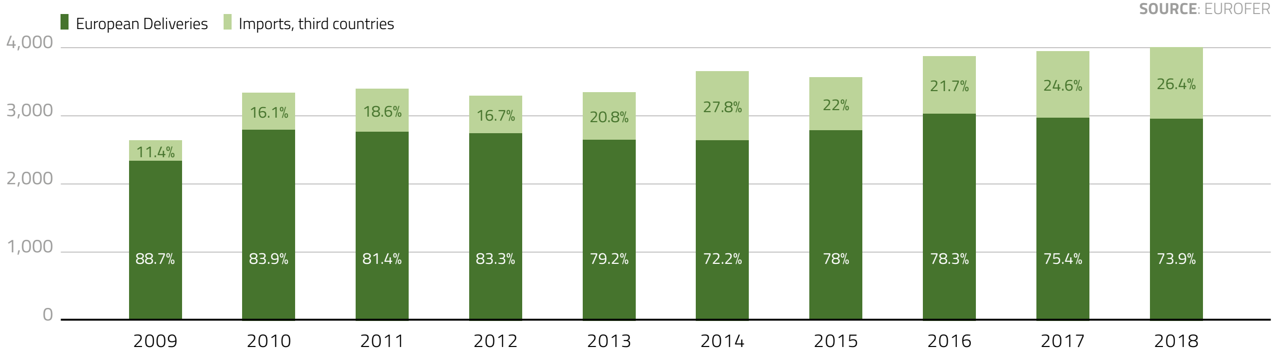
SOURCE: EUROFER



COLD ROLLED FLAT PRODUCTS

CHART ▪ 2009 – 2018

SOURCE: EUROFER



Stainless steel market supply: Long products

In '000 metric tonnes

TOTAL STAINLESS LONG PRODUCT DELIVERIES BY SOURCE

TABLE ▪ 2009 – 2018

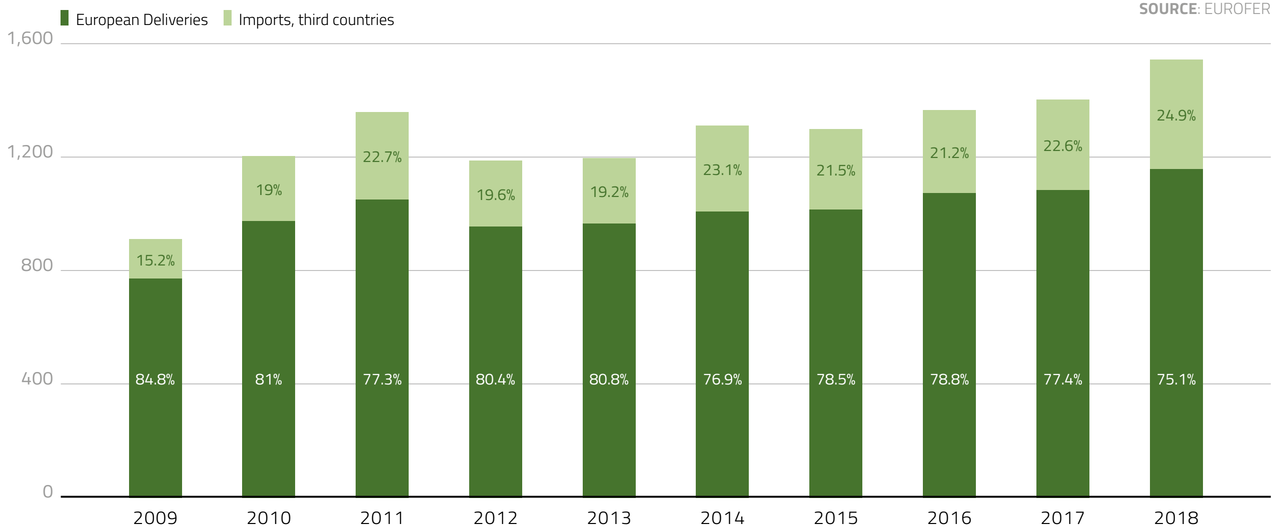
SOURCE: EUROFER

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	% shares 2018
European Deliveries	774	977	1,053	958	970	1,011	1,034	1,092	1,092	1,160	75.1%
Imports, Third Countries	139	229	309	232	230	303	283	292	319	385	24.9%
Market Supply	**913**	**1,206**	**1,362**	**1,191**	**1,200**	**1,314**	**1,317**	**1,385**	**1,411**	**1,545**	**100%**

TOTAL STAINLESS LONG PRODUCT DELIVERIES BY SOURCE

CHART ▪ 2009 – 2018

SOURCE: EUROFER



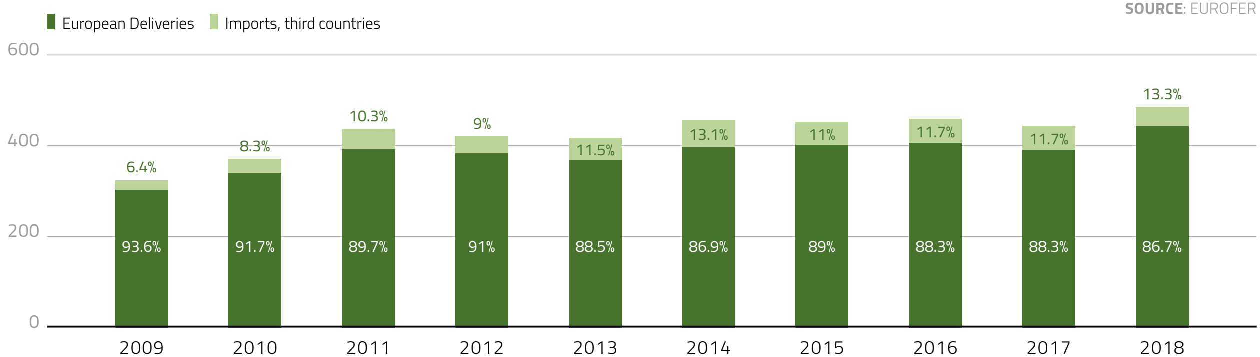
Stainless steel market supply: Hot rolled & bright bars, & sections

In '000 metric tonnes

HOT ROLLED BARS & SECTIONS

CHART ▪ 2009 – 2018

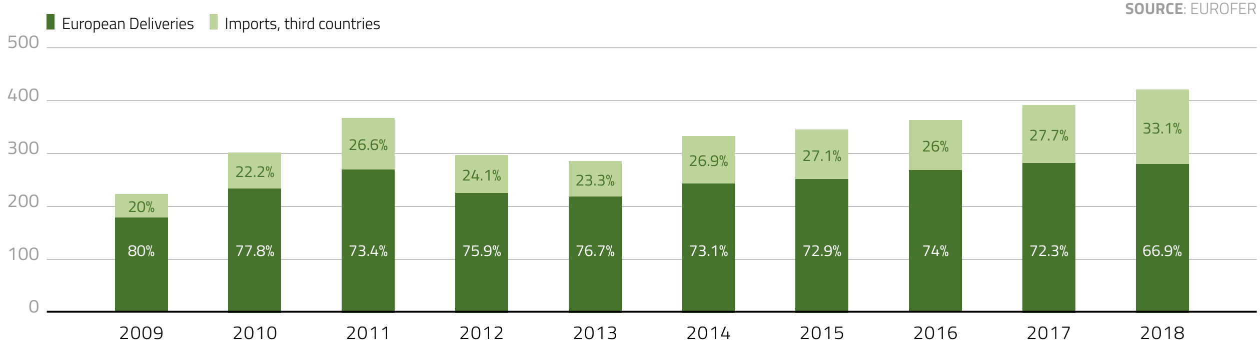
SOURCE: EUROFER



BRIGHT BARS

CHART ▪ 2009 – 2018

SOURCE: EUROFER



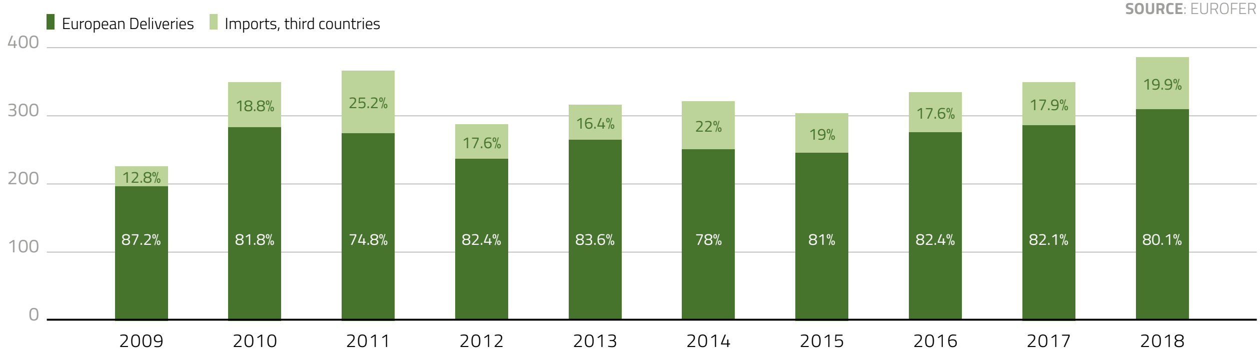
Stainless steel market supply: wire rod & drawn wires

In '000 metric tonnes

WIRE ROD

CHART ▪ 2009 – 2018

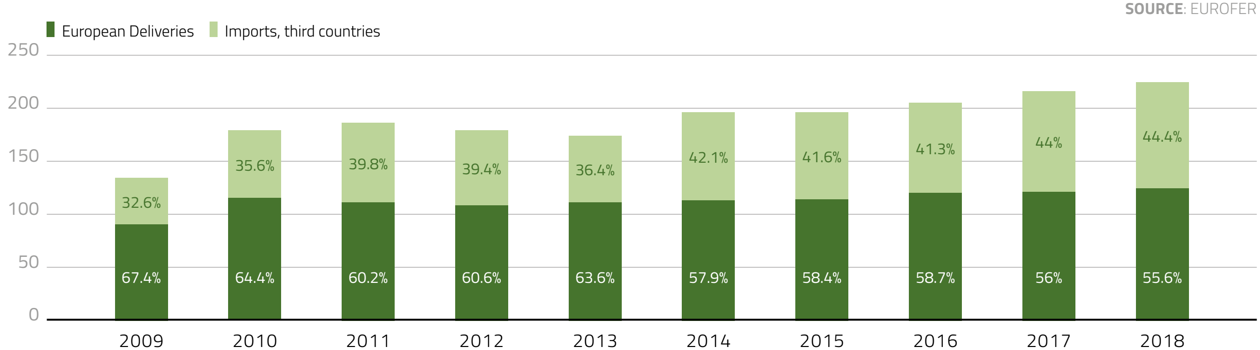
SOURCE: EUROFER



DRAWN WIRES

CHART ▪ 2009 – 2018

SOURCE: EUROFER



Imports into the EU: Total stainless & specialty steel

In '000 metric tonnes

IMPORTS OF FINISHED STAINLESS & SPECIALTY STEELS BY PRODUCT

TABLE ▪ 2009 – 2018

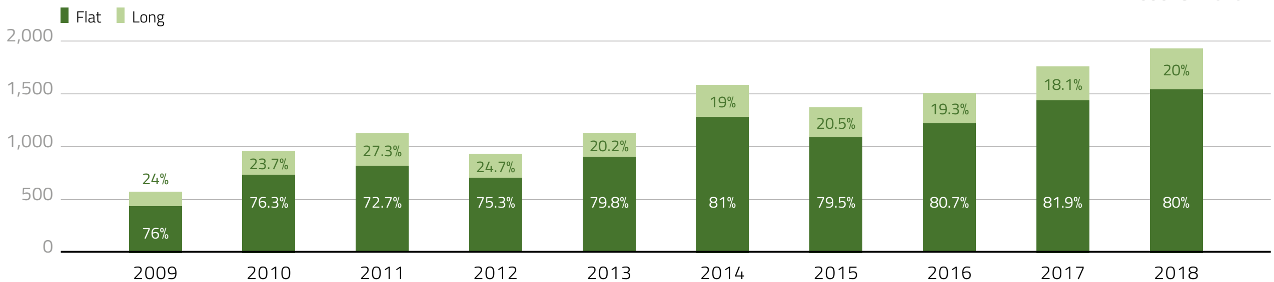
SOURCE: EUROFER

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Finished Products	**580**	**970**	**1,133**	**943**	**1,139**	**1,595**	**1,379**	**1,522**	**1,766**	**1,934**
of which flat products	441	740	824	710	909	1,292	1,096	1,229	1,447	1,548
Hot Rolled Wide Strip	101	152	126	110	136	182	215	302	377	398
Quarto Plate	16	26	39	23	34	40	38	31	33	33
Cold Rolled Sheet	303	539	635	552	698	1,019	788	846	976	1,045
of which long products	139	229	309	232	230	303	283	292	319	385
Wire Rod	29	66	92	51	52	71	58	59	63	77
Merchant Bars	21	31	45	39	48	60	50	54	52	68
Bright Bars	45	68	98	72	67	90	94	95	109	140
Drawn Wires	44	64	75	71	63	83	82	85	95	100
Flat	76%	76.3%	72.7%	75.3%	79.8%	81%	79.5%	80.7%	81.9%	80.0%
Long	24%	23.7%	27.3%	24.7%	20.2%	19%	20.5%	19.3%	18.1%	20.0%

IMPORTS OF FINISHED STAINLESS & SPECIALTY STEELS BY PRODUCT CATEGORY

CHART ▪ 2009 – 2018

SOURCE: EUROFER



Exports from the EU: Total stainless & specialty steel

In '000 metric tonnes

EXPORTS OF FINISHED STAINLESS & SPECIALTY STEELS BY PRODUCT

TABLE ▪ 2009 – 2018

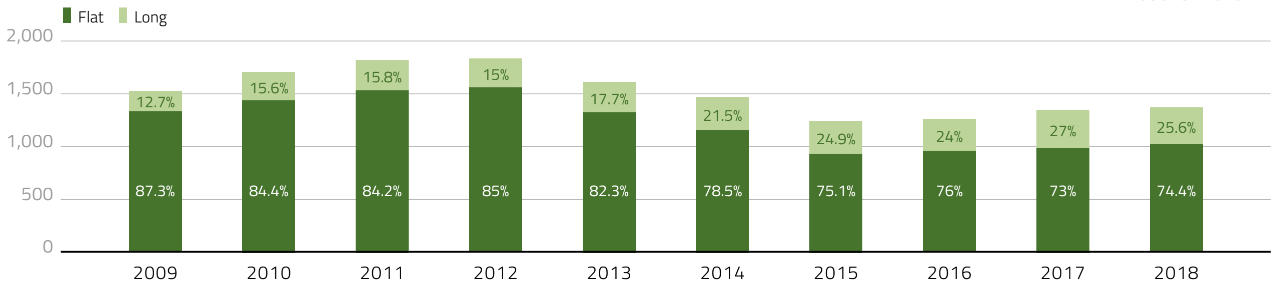
SOURCE: EUROFER

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Finished Products	**1,535**	**1,714**	**1,830**	**1,844**	**1,620**	**1,481**	**1,251**	**1,271**	**1,355**	**1,378**
of which flat products	1,340	1,447	1,541	1,568	1,333	1,163	939	966	990	1,025
Hot Rolled Wide Strip	563	560	570	635	434	292	180	197	226	240
Quarto Plate	65	74	88	85	80	104	99	91	82	96
Cold Rolled Sheet	634	710	754	713	708	667	579	596	595	599
of which long products	195	266	288	276	288	317	312	305	365	353
Wire Rod	48	76	67	65	68	73	71	70	84	78
Merchant Bars	42	48	56	55	64	73	67	67	86	83
Bright Bars	84	115	140	132	130	146	147	143	169	164
Drawn Wires	20	27	25	24	26	25	26	25	25	28
Flat	76%	76.3%	72.7%	75.3%	79.8%	81%	79.5%	80.7%	81.9%	80.1%
Long	24%	23.7%	27.3%	24.7%	20.2%	19%	20.5%	19.3%	18.1%	19.9%

DRAWN WIRES

TABLE ▪ 2009 – 2018

SOURCE: EUROFER



EU Trade balance: by volume

In '000 metric tonnes

NET TRADE BALANCE BY VOLUME

CHART ▪ 2009 – 2018

SOURCE: EUROFER

Sustainability

EUROPEAN STEEL IN FIGURES **2019**

www.eurofer.eu

EUROFER
The European Steel Association

Sustainability

Follow us on twitter @EUROFER_eu

EUROFER
The European Steel Association

www.eurofer.eu

Imports into the EU: scrap steel

In '000 metric tonnes

IMPORTS OF SCRAP INTO THE EU

TABLE ▪ 2009 – 2018

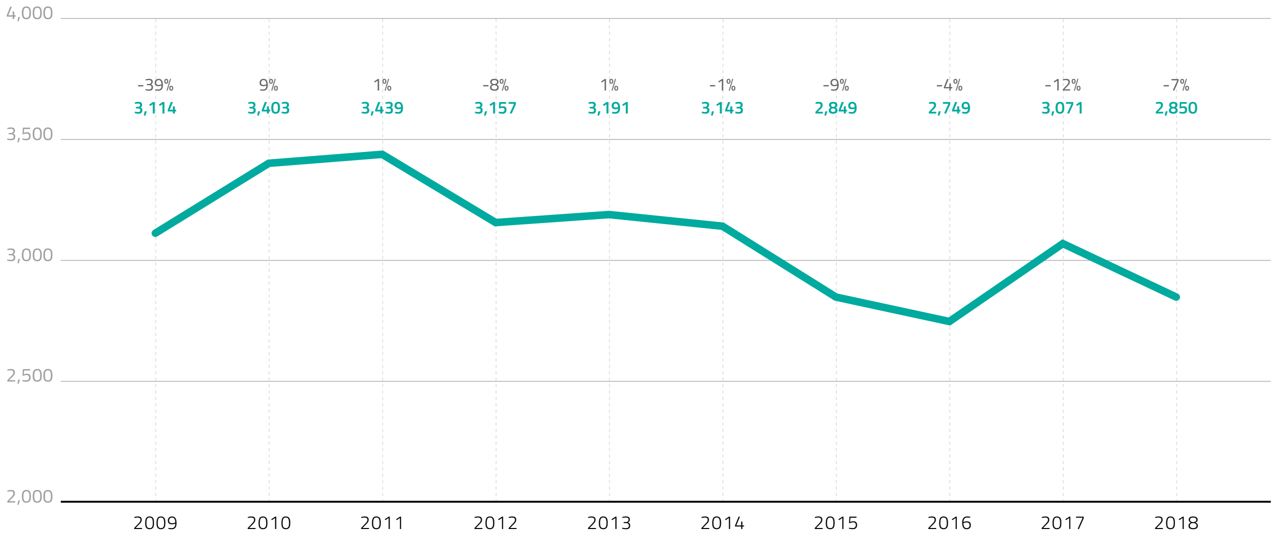
SOURCE: EUROFER

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Imports Comext	3,114	3,403	3,440	3,158	3,191	3,143	2,850	2,749	3,071	2,850

IMPORTS OF SCRAP INTO THE EU

CHART ▪ 2009 – 2018

SOURCE: EUROFER



Exports from the EU: scrap steel

In '000 metric tonnes

EXPORTS OF SCRAP FROM THE EU

TABLE ▪ 2009 – 2018

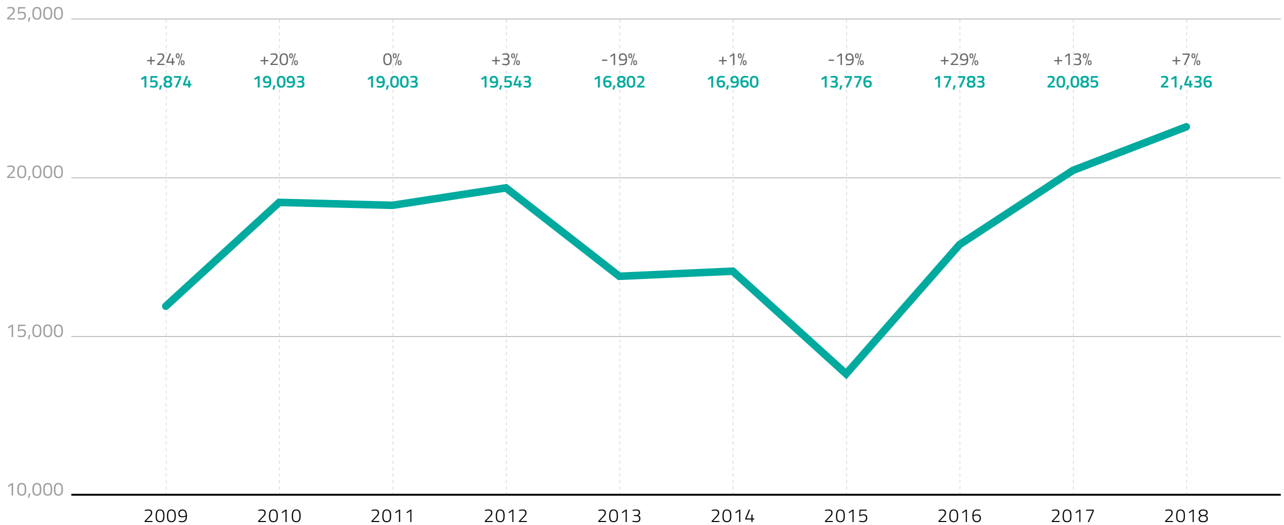
SOURCE: EUROFER

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Imports Comext	15,874	19,093	19,003	19,543	16,802	16,960	13,776	17,784	20,085	21,436

EXPORTS OF SCRAP FROM THE EU

GRAPH ▪ 2009 – 2018

SOURCE: EUROFER



Consumption & net export: scrap

In '000 metric tonnes

CONSUMPTION & NET EXPORT OF SCRAP STEEL

TABLE ▪ 2009 – 2018

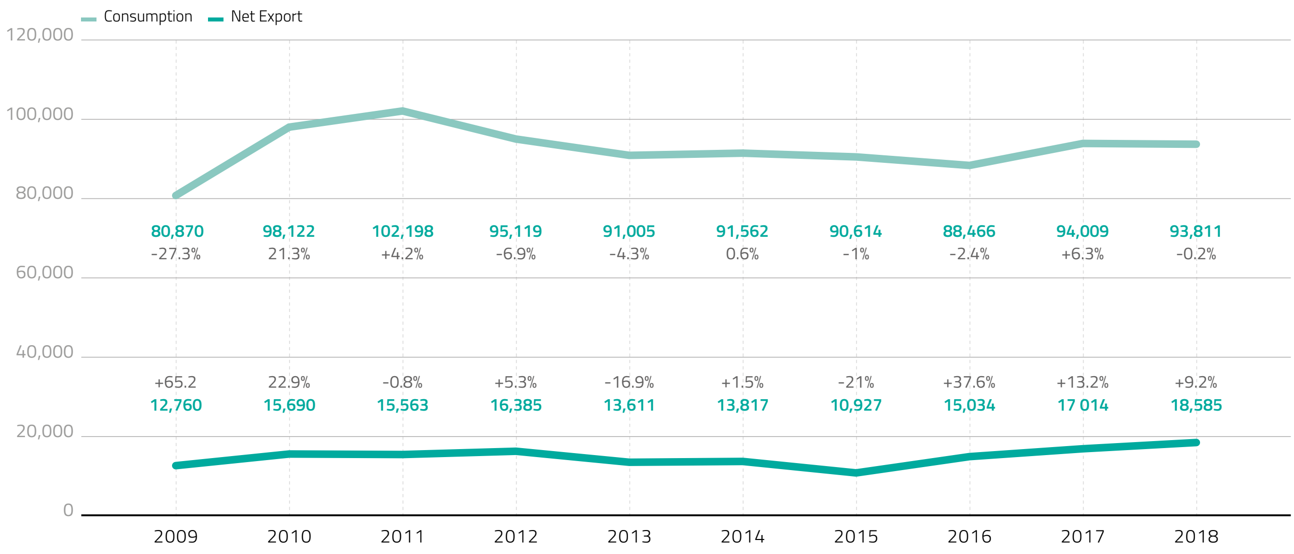
SOURCE: EUROFER

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Consumption Total	80,870	98,123	102,199	95,119	91,006	91,563	90,614	88,466	94,009	93,812
Net Export	12,760	15,690	15,563	16,385	13,612	13,817	10,927	15,034	17,014	18,586

CONSUMPTION & NET EXPORT OF SCRAP STEEL

GRAPH ▪ 2009 – 2018

SOURCE: EUROFER



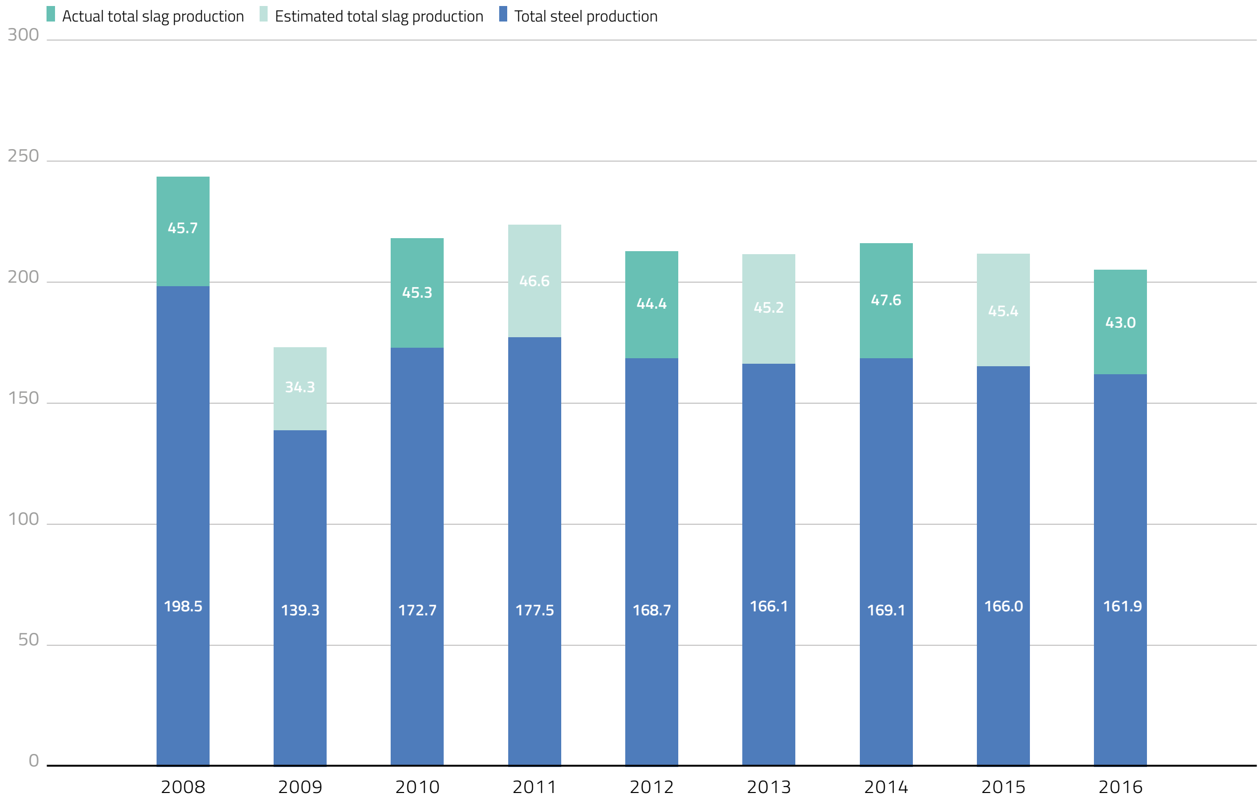
Slag production and use

In 000,000 metric tonnes

SLAG PRODUCTION IN THE EU

CHART ▪ 2008 – 2016

SOURCE: EUROSLAG



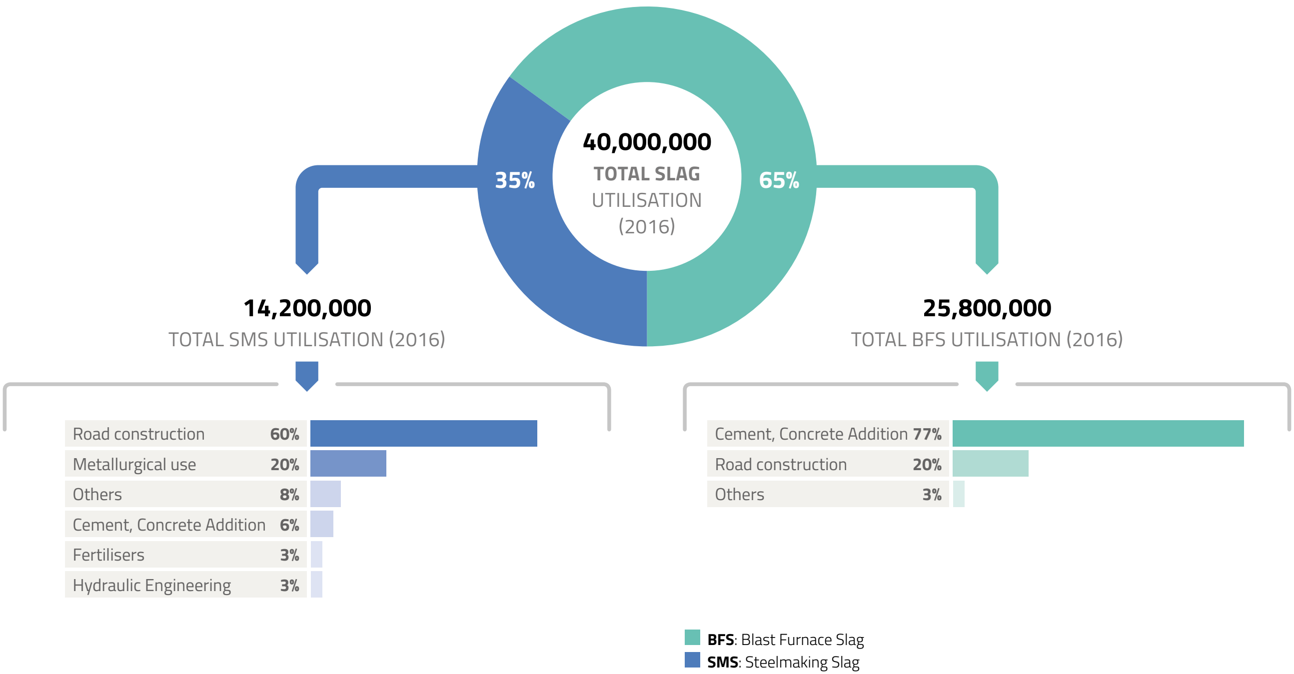
Slag production and use

In metric tonnes

USE OF SLAG IN DOWNSTREAM INDUSTRIES

CHART ▪ 2016

SOURCE: EUROSLAG



NOTE: 3,000,000 tonnes of slag for final deposit and interim storage not shown

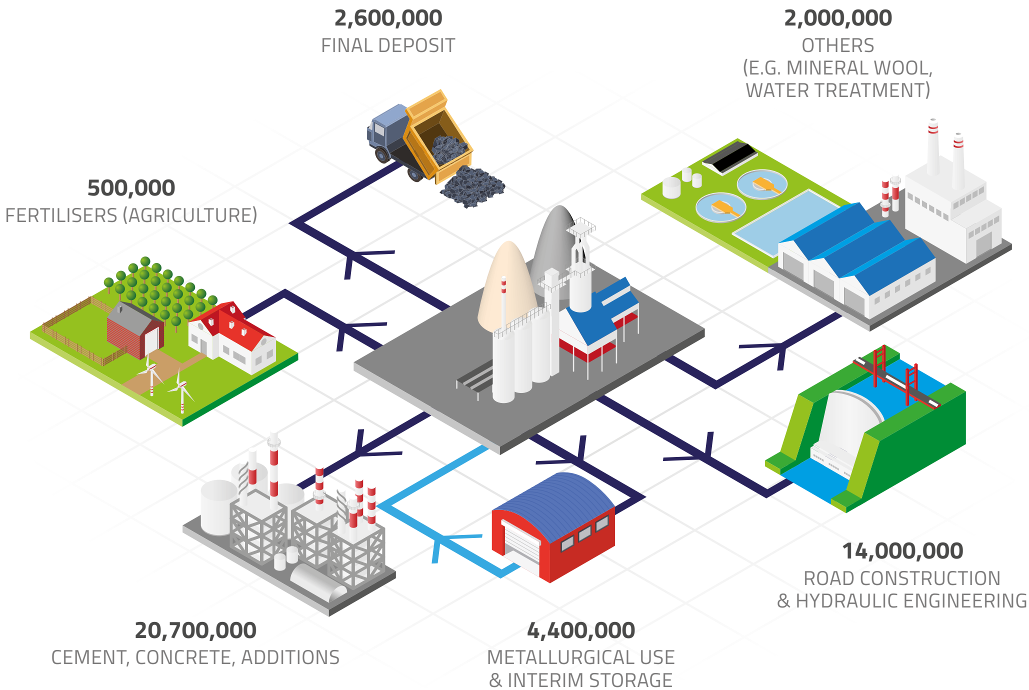
Slag production and use

In metric tonnes

USAGE PATHS OF SLAG IN SYNERGISTIC SECTORS

ISOMETRIC DIAGRAM ▪ 2016

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



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.

www.eurofer.eu

EUROFER
The European Steel Association

EUROFER AISBL

Avenue de Cortenbergh, 172
B-1000 Brussels
+32 (2) 738 79 20
mail@eurofer.be

www.eurofer.eu

EUROFER
The European Steel Association

Follow us on twitter @EUROFER_eu