

COVERING 2009 – 2018

# 2019

## European Steel in Figures



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# European Steel in Figures 2019

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

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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

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## 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, CO<sub>2</sub>-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 11<sup>th</sup> 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

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

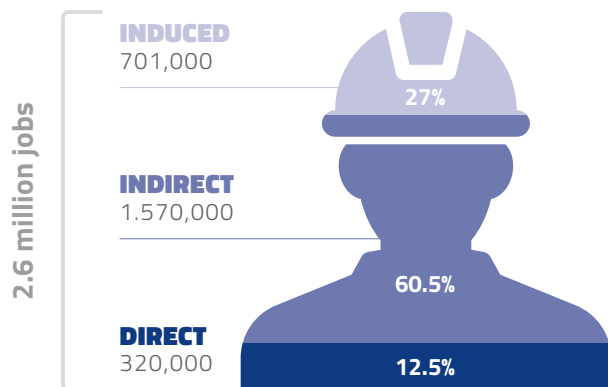
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## EMPLOYMENT

GRAPHIC • 2018

SOURCE: OXFORD ECONOMICS

The EU steel industry supports nearly 2.6 million jobs

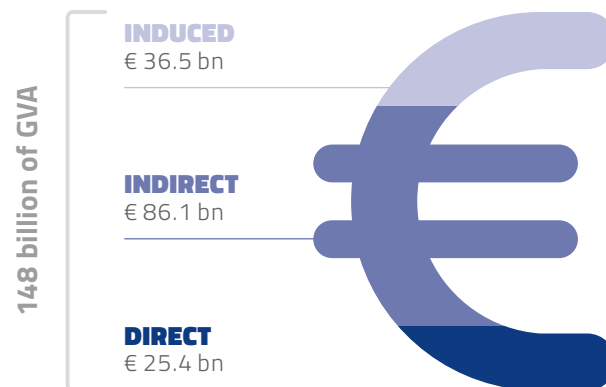


## GROSS VALUE ADDED

GRAPHIC • 2018

SOURCE: OXFORD ECONOMICS

The EU steel industry creates around €148 billion of Gross Value Added



	'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.

# Direct employment in the EU steel industry: by country

Employment by absolute numbers

EMPLOYMENT PER COUNTRY  
IN DESCENDING ORDER TABLE • 2018

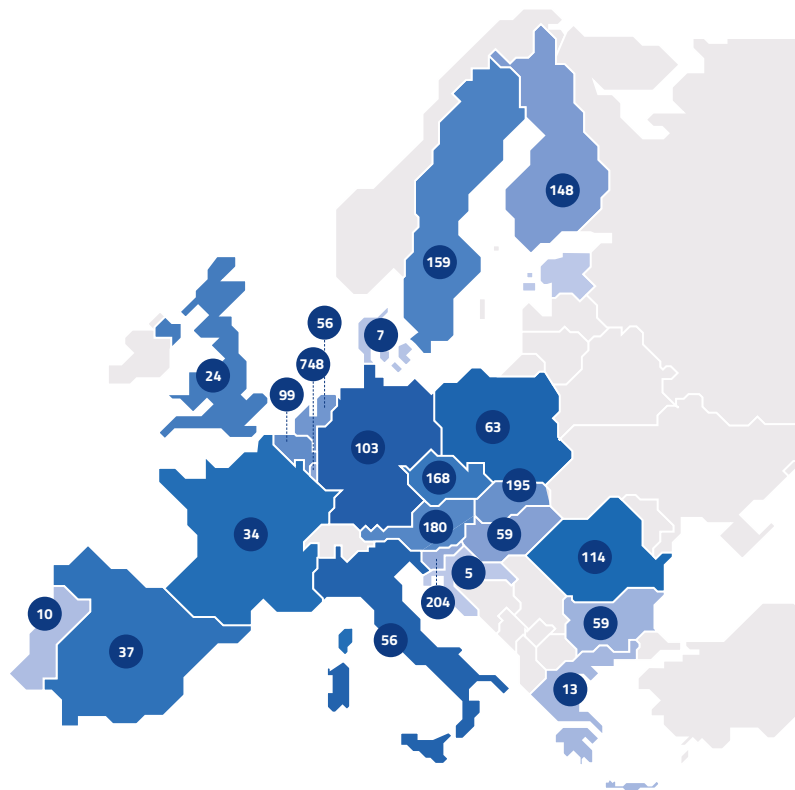
SOURCE: EUROFER

		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%
	<b>TOTAL</b>	<b>329,648</b>	<b>100%</b>

EMPLOYMENT IN STEEL PER 100,000 PEOPLE

MAP • 2018

SOURCE: EUROFER





# Direct employment in the EU steel industry: by country

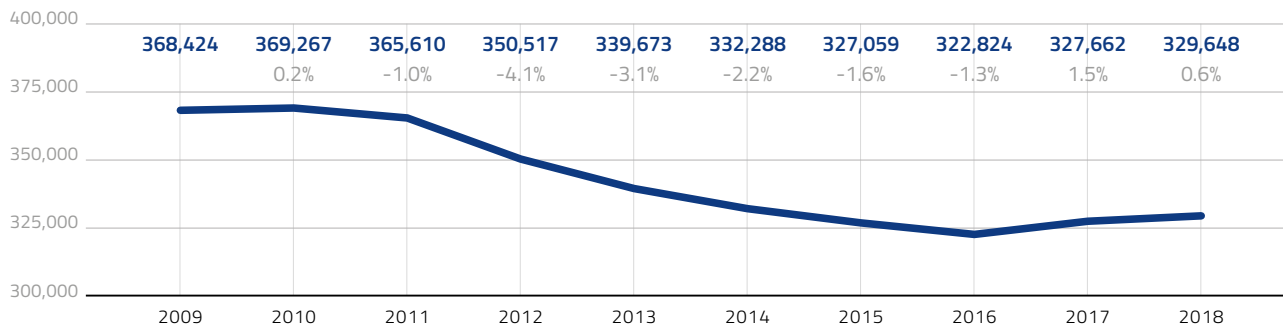
Employment by absolute numbers

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## EMPLOYMENT: EVOLUTION

GRAPH ■ 2009 – 2018

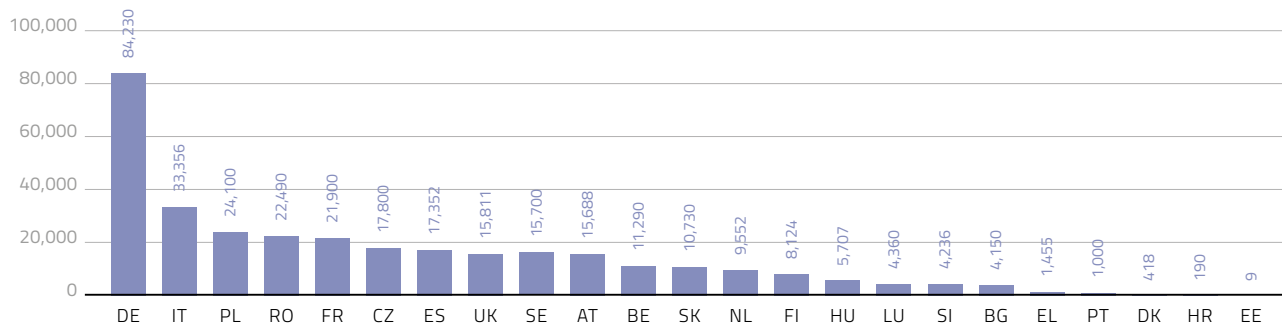
SOURCE: EUROFER



## EMPLOYMENT: BY COUNTRY

CHART ■ 2018

SOURCE: EUROFER



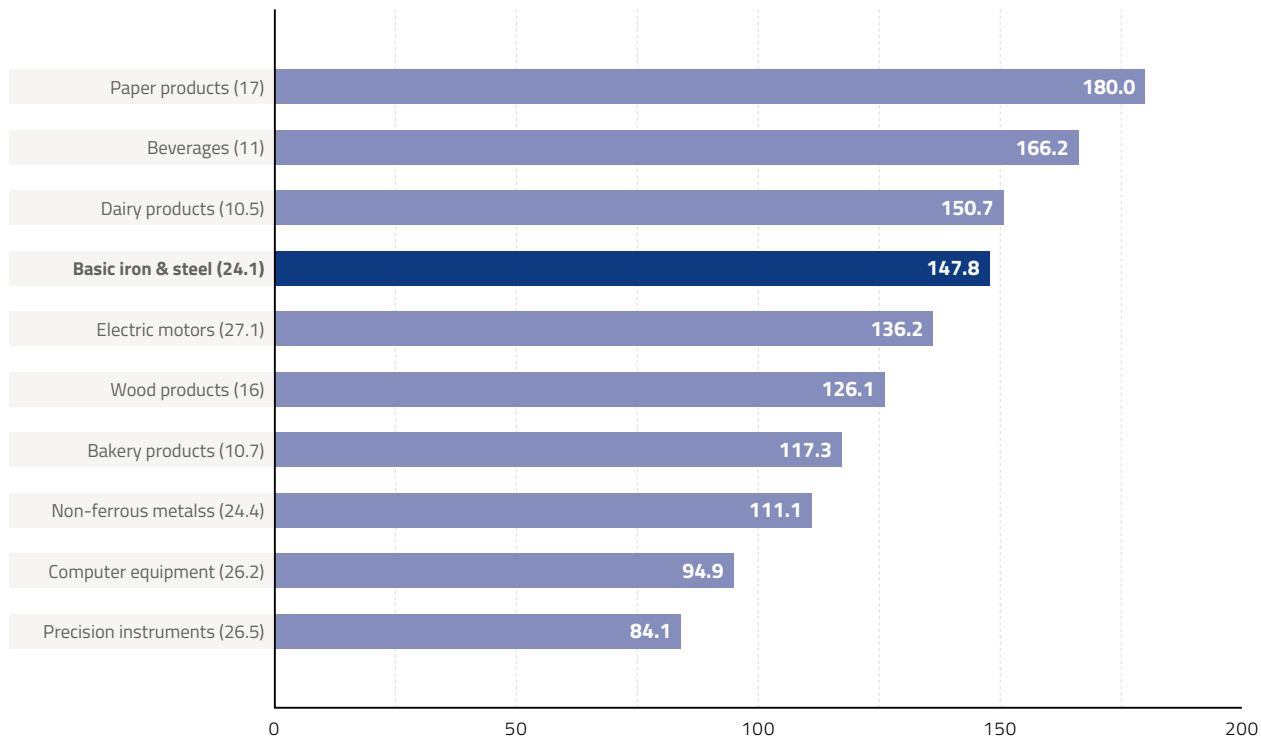
## Gross Value Added: Comparison

Value added • in € '000,000

### VALUE OF PRODUCTION COMPARED WITH OTHER EU INDUSTRIES

CHART • 2018

SOURCE: EUROSTAT – OXFORD ECONOMICS



# Production



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# Crude steel production per region: World

All qualities ▪ in '000,000 metric tonnes

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## REGIONS IN DESCENDING ORDER OF CRUDE STEEL PRODUCTION

TABLE ▪ 2018

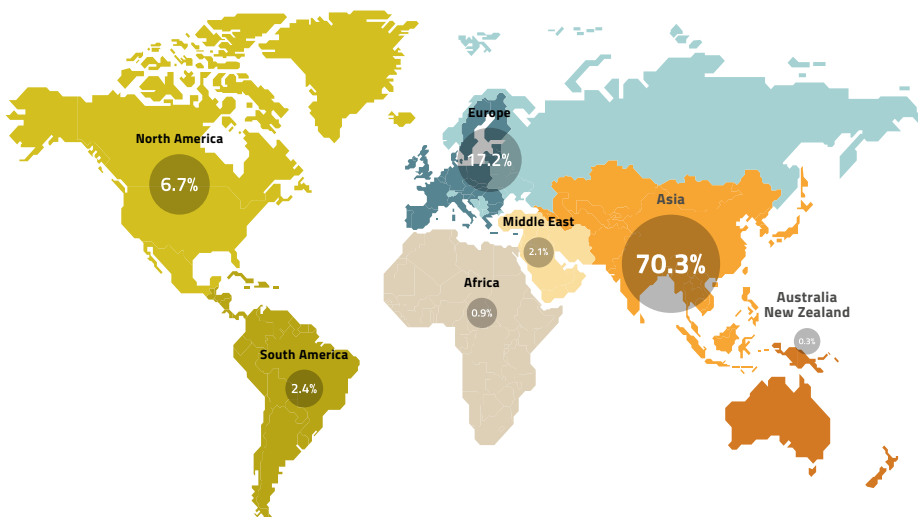
SOURCE: WORLDSTEEL

		% shares 2018	2018
<b>Asia</b>	<b>1,271</b>	<b>70.3%</b>	
▶ of which China	928	51.3%	
▶ of which Japan	104	5.8%	
<b>Europe</b>	<b>311</b>	<b>17.2%</b>	
▶ of which European Union	168	9.3%	
▶ of which CIS	101	5.6%	
<b>North America</b>	<b>121</b>	<b>6.7%</b>	
of which United States	87	4.8%	
<b>South America</b>	<b>44</b>	<b>2.4%</b>	
<b>Middle East</b>	<b>38</b>	<b>2.1%</b>	
<b>Africa</b>	<b>17</b>	<b>0.9%</b>	
<b>Australia/New Zealand</b>	<b>6</b>	<b>0.3%</b>	
<b>WORLD</b>	<b>1.808</b>	<b>100%</b>	

## 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

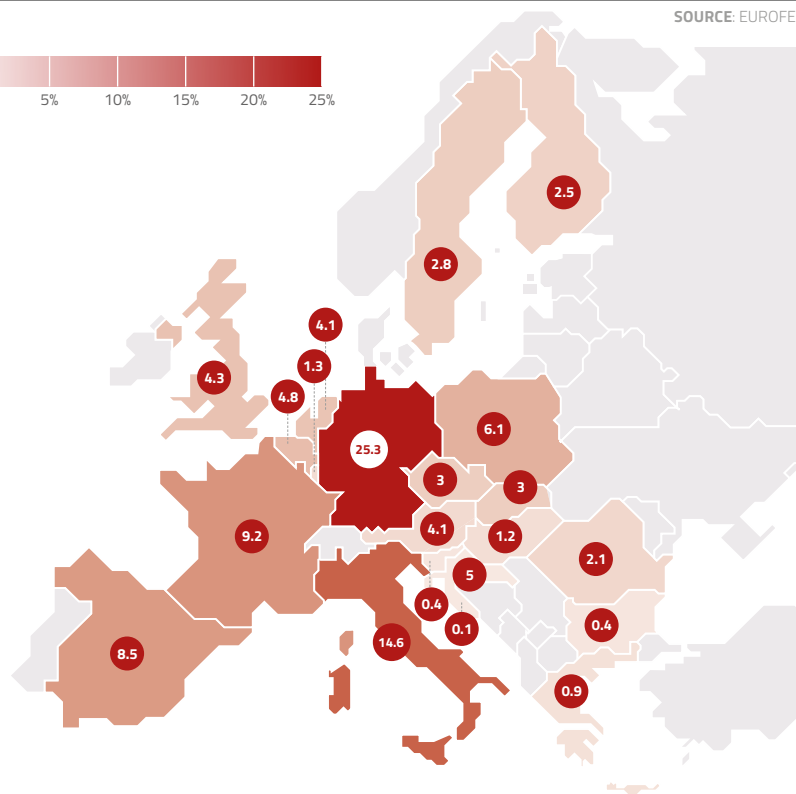
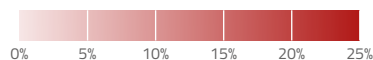
SOURCE: EUROFER

		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%
<b>TOTAL</b>		<b>167,370</b>	<b>100%</b>

## 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

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## 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%
<b>TOTAL</b>	<b>169,098</b>	<b>166,096</b>	<b>161,993</b>	<b>168,422</b>	<b>167,370</b>	<b>100%</b>

## EU crude steel production: by process

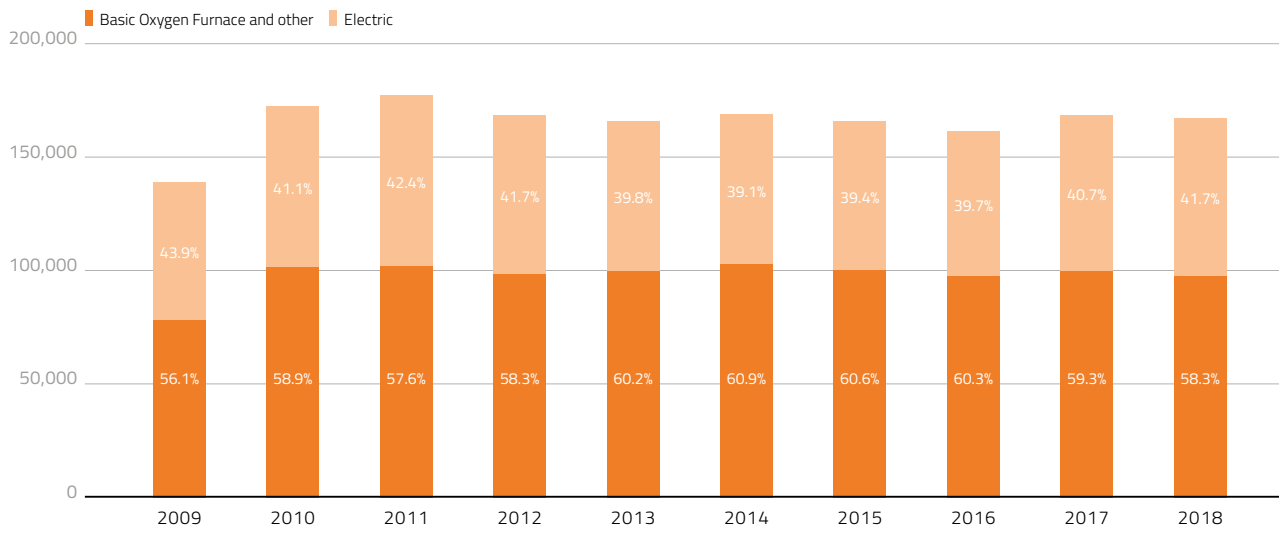
All qualities • in '000 metric tonnes

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%
<b>Total Crude Steel</b>	<b>139,344</b>	<b>172,785</b>	<b>177,576</b>	<b>168,583</b>	<b>166,175</b>	<b>169,098</b>	<b>166,096</b>	<b>161,993</b>	<b>168,422</b>	<b>167,370</b>	<b>100%</b>





# EU crude steel production: by quality

All qualities • in '000 metric tonnes

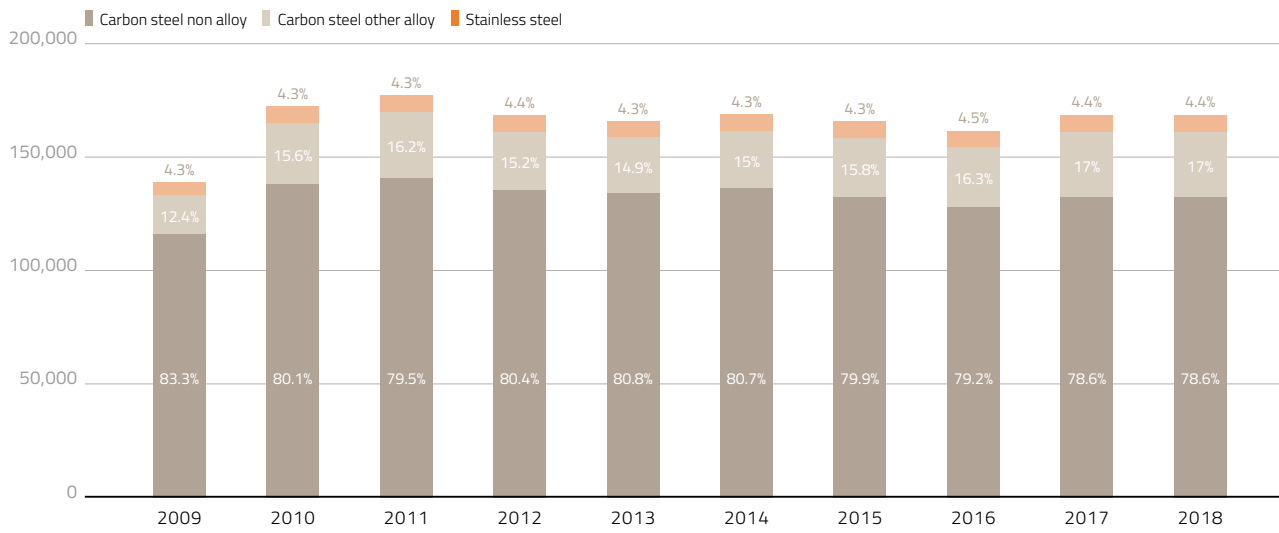
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## EU CRUDE STEEL OUTPUT BY QUALITY

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
<b>Total Crude Steel</b>	<b>139,344</b>	<b>172,785</b>	<b>177,576</b>	<b>168,583</b>	<b>166,175</b>	<b>169,098</b>	<b>166,096</b>	<b>161,993</b>	<b>168,422</b>	<b>167,370</b>	<b>100%</b>



# EU finished steel production: by product category

All qualities • in '000 metric tonnes

## EU TOTAL FINISHED STEEL PRODUCTION BY PRODUCT

TABLE, CHART • 2009 – 2018

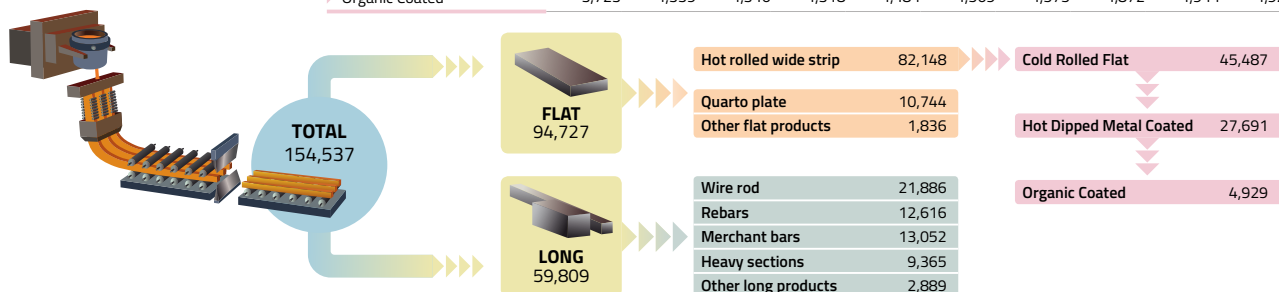
SOURCE: EUROFER

**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
<b>Total Hot Rolled</b>	<b>129,621</b>	<b>156,491</b>	<b>161,546</b>	<b>152,675</b>	<b>150,518</b>	<b>152,399</b>	<b>151,026</b>	<b>150,451</b>	<b>153,899</b>	<b>154,537</b>
▶ 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



# EU Hot Rolled finished steel production: by product category

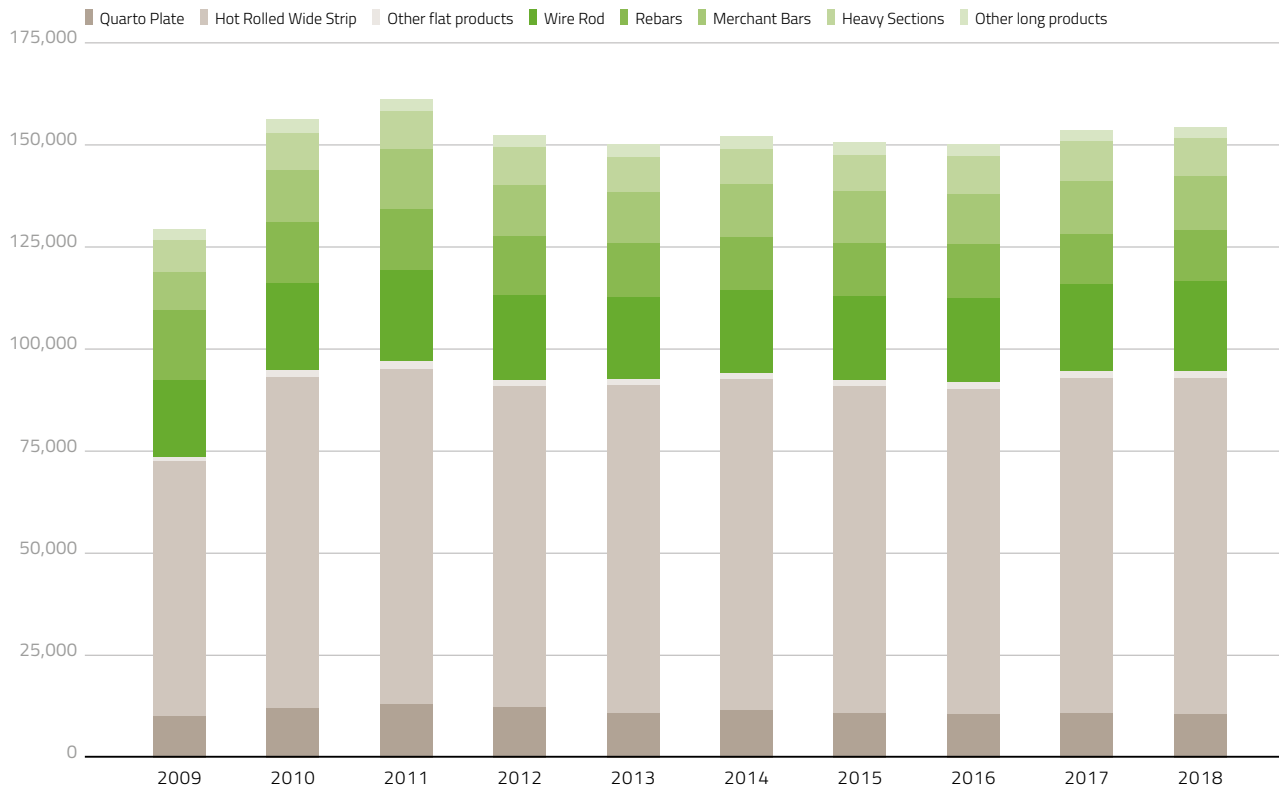
All qualities • in '000 metric tonnes

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## EU HOT ROLLED FINISHED STEEL PRODUCTION

CHART • 2009 – 2018

SOURCE: EUROFER





# Steel use & market supply



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# Consumption: Real & apparent steel consumption

All products, all qualities • in '000 metric tonnes

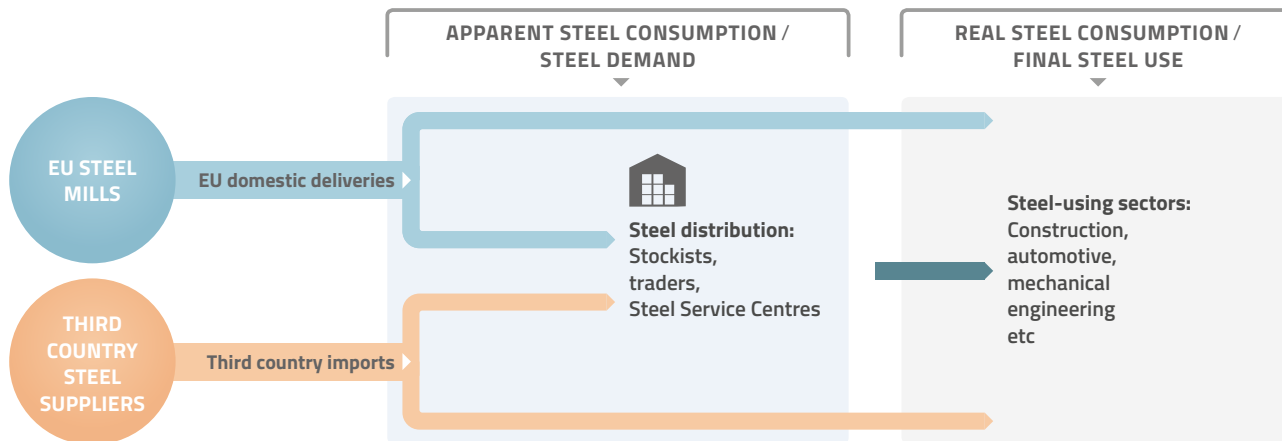
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## ROUTES TO MARKET OR FINAL USE OF STEEL PRODUCTS

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.

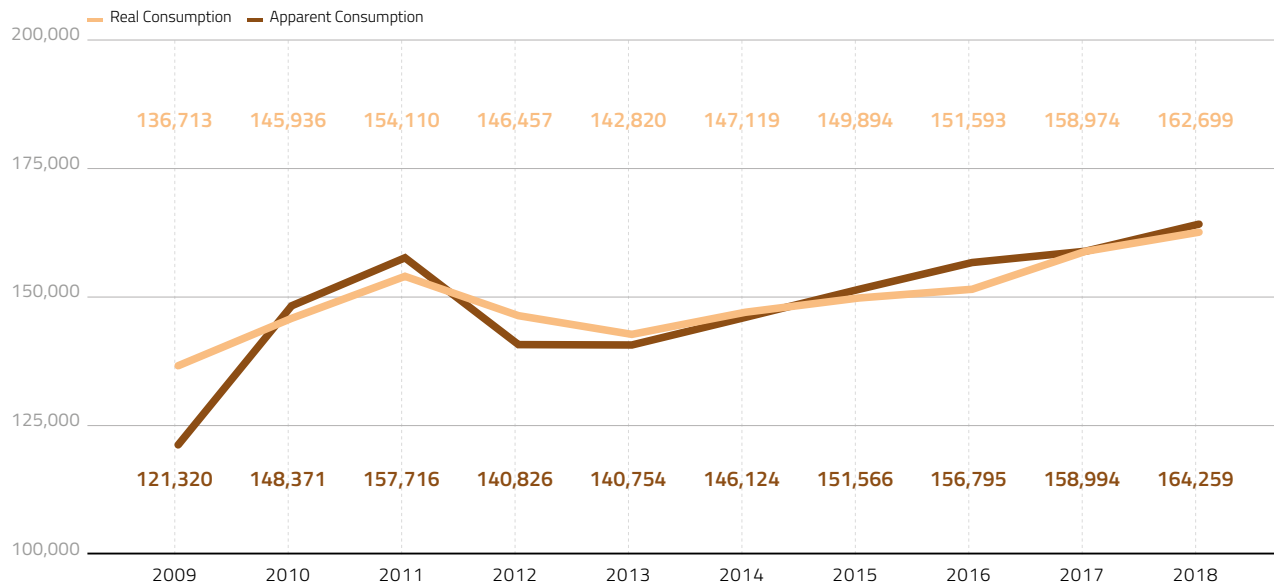
# Consumption: Real & apparent steel consumption

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

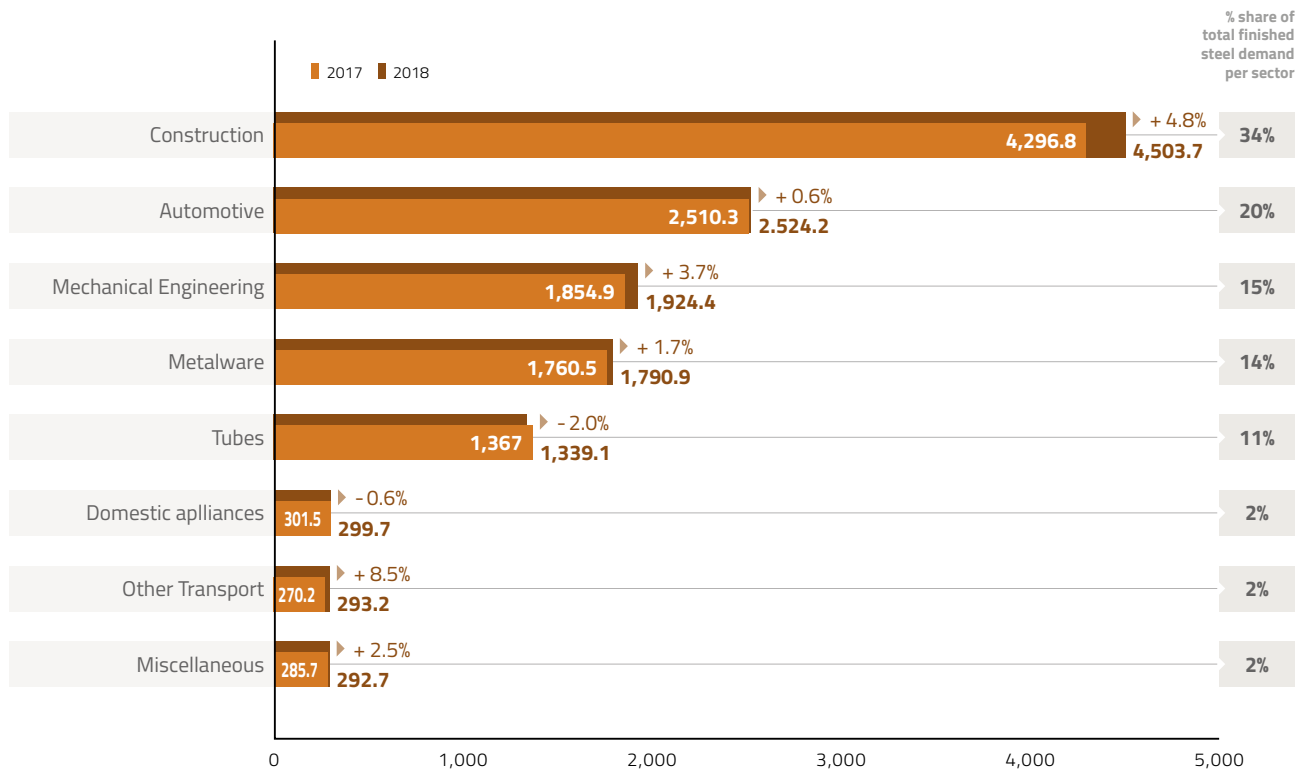
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### STEEL CONSUMPTION PER STEEL-USING SECTOR

CHART ▪ 2017 – 2018

SOURCE: EUROFER

Activity in EU steel-using sectors grew in 2018



Note: Consumption by steel-using sector is calculated 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

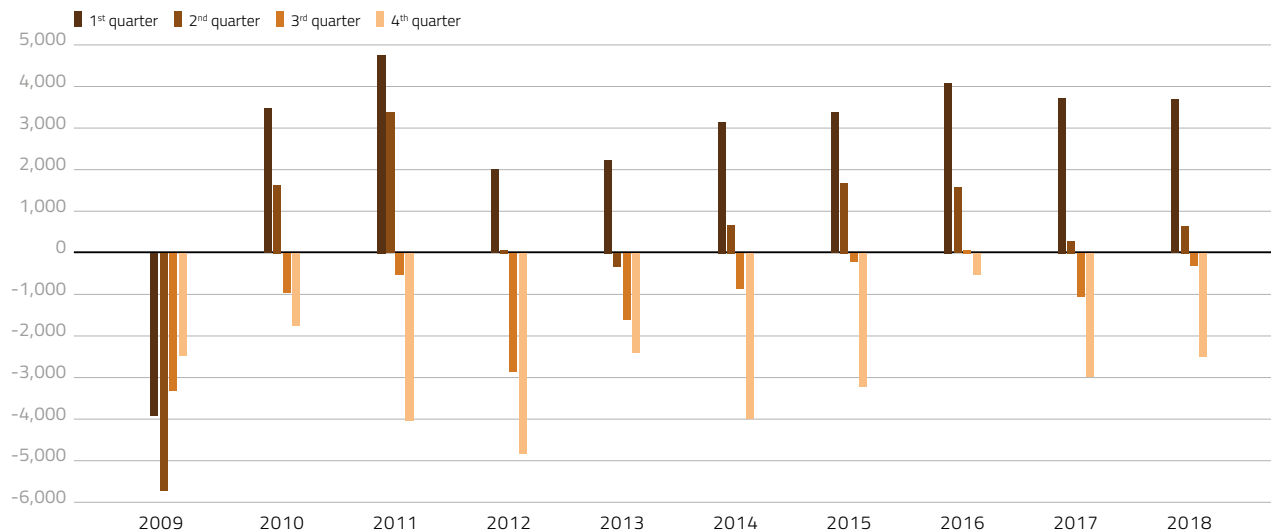
### STOCK CHANGE

TABLE ■ 2009 – 2018

SOURCE: EUROFER

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

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
1 <sup>st</sup> quarter	-3,903	3,492	4,769	2,011	2,241	3,158	3,387	4,094	3,734	3,695
2 <sup>nd</sup> quarter	-5,703	1,643	3,390	58	-325	682	1,689	1,583	293	653
3 <sup>rd</sup> quarter	-3,315	-945	-517	-2,885	-1,592	-851	-195	53	-1,037	-309
4 <sup>th</sup> 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 calculated using the Steel-Weighted Industrial Production (SWIP) index, which is used to estimate changes in economic activity.

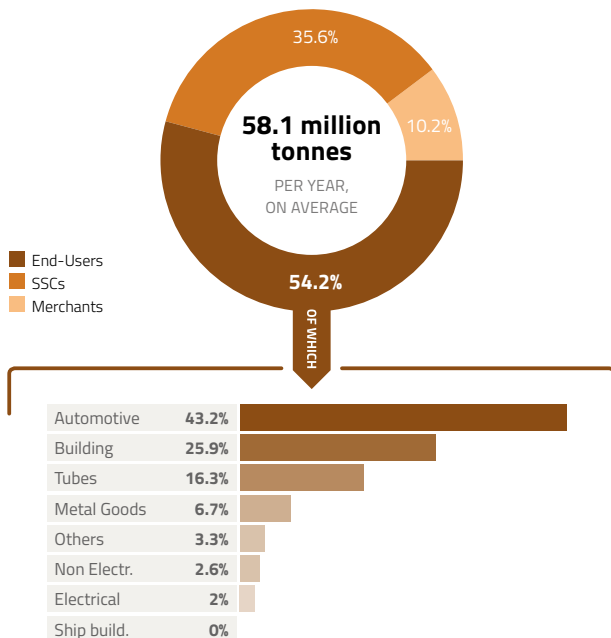
## Specific flat product deliveries: Strip mill products & quarto plate

### EU STRIP MILL PRODUCT DELIVERIES

GRAPHIC ■ 2014/2018

SOURCE: EUROFER

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

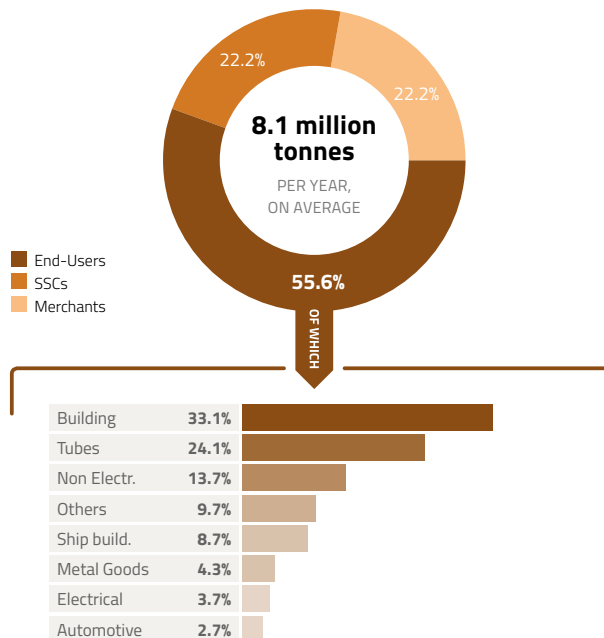


### EU QUARTO PLATE DELIVERIES

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

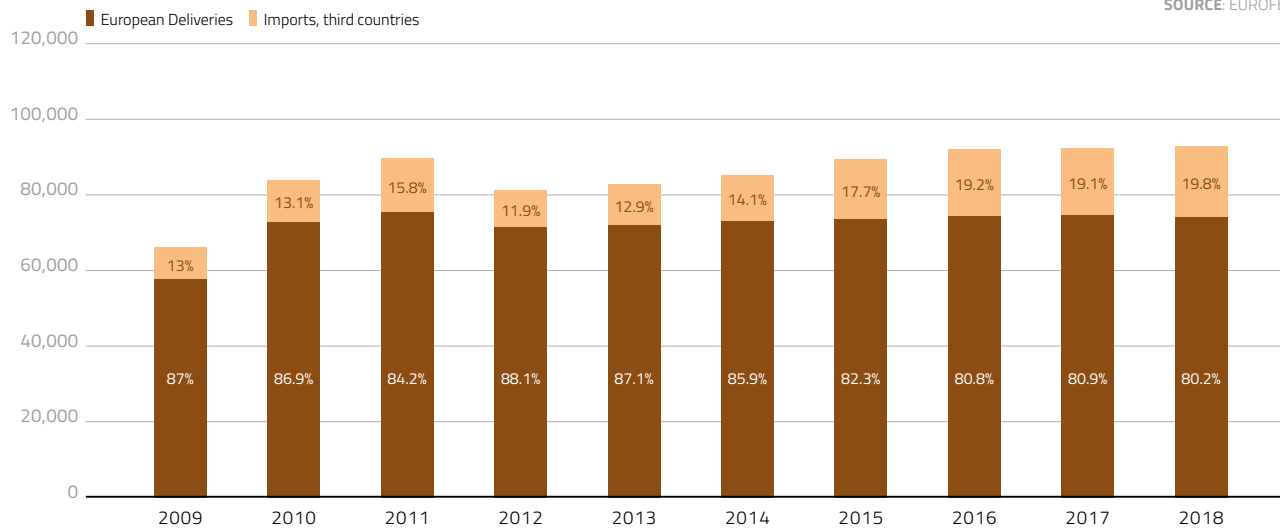
SOURCE: EUROFER

	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

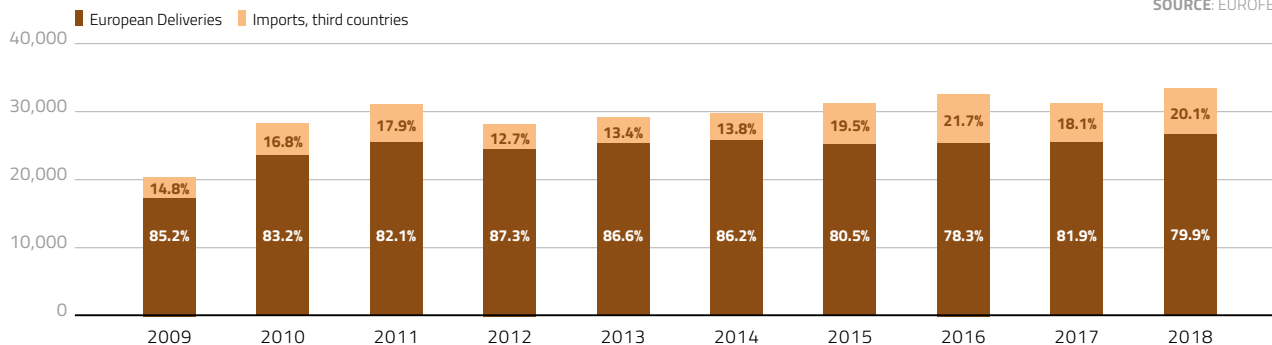
Non-alloy and other alloy steels • in '000 metric tonnes

29

## HOT ROLLED FLAT PRODUCTS

CHART • 2009 – 2018

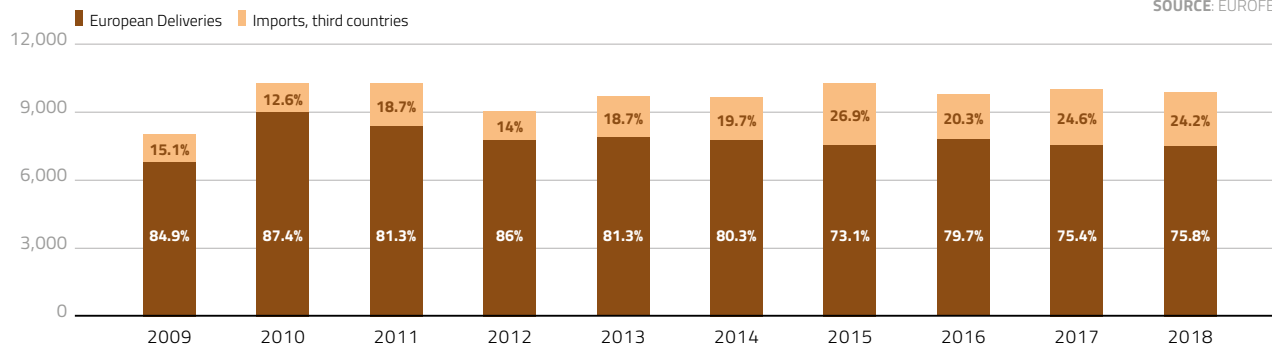
SOURCE: EUROFER



## COLD ROLLED SHEETS

CHART • 2009 – 2018

SOURCE: EUROFER



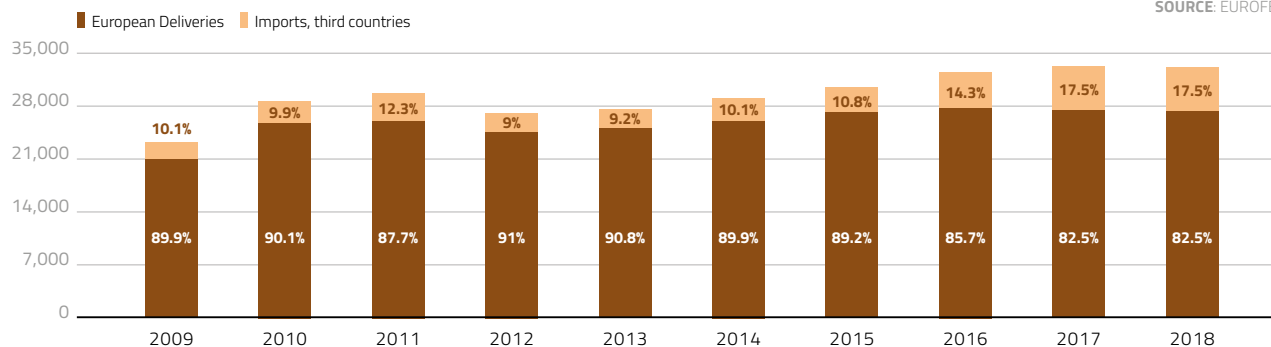
## Market supply: Coated sheets & quarto plate

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

### TOTAL COATED SHEETS

CHART • 2009 – 2018

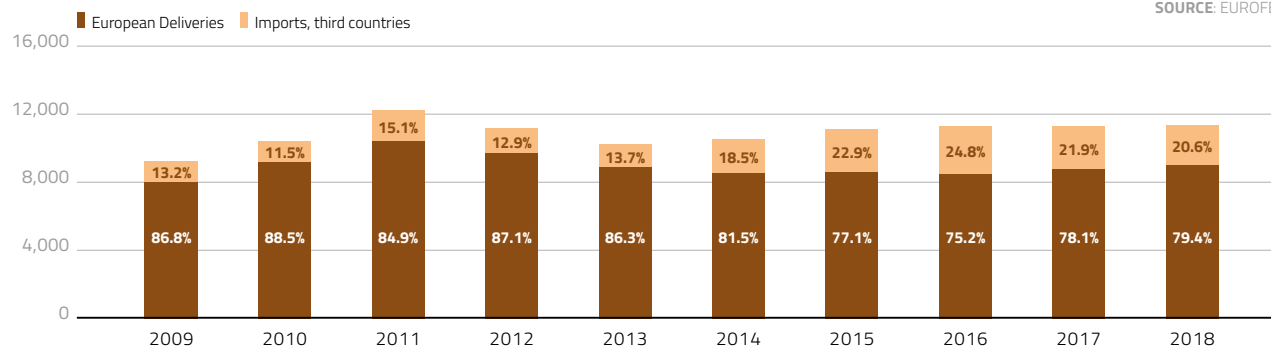
SOURCE: EUROFER



### QUARTO PLATE

CHART • 2009 – 2018

SOURCE: EUROFER



## Market supply: Total long products

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

31

### TOTAL LONG PRODUCTS

TABLE ■ 2009 – 2018

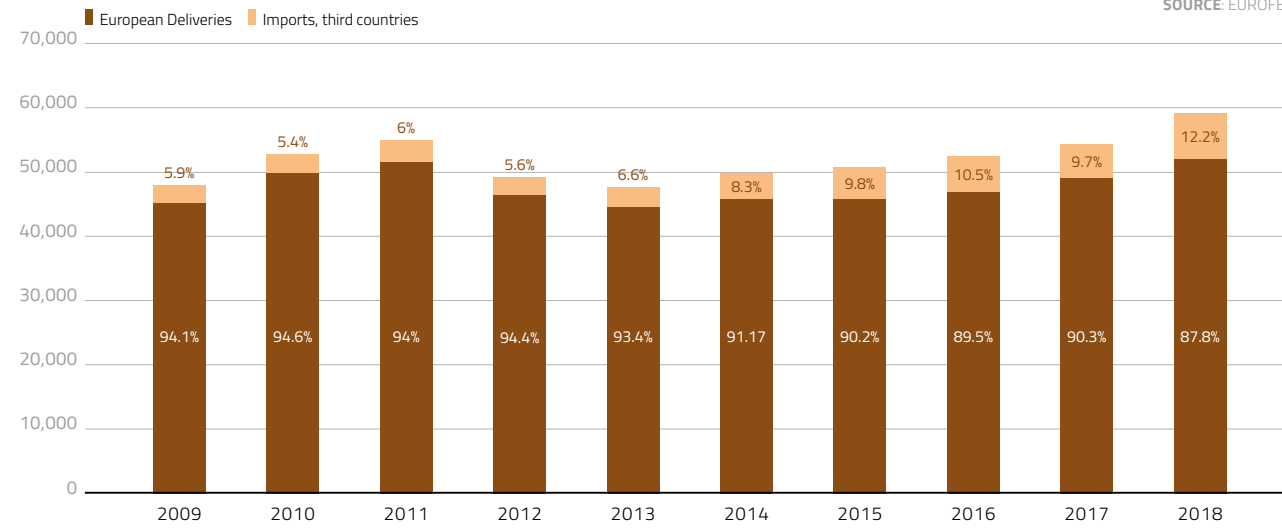
SOURCE: EUROFER

	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



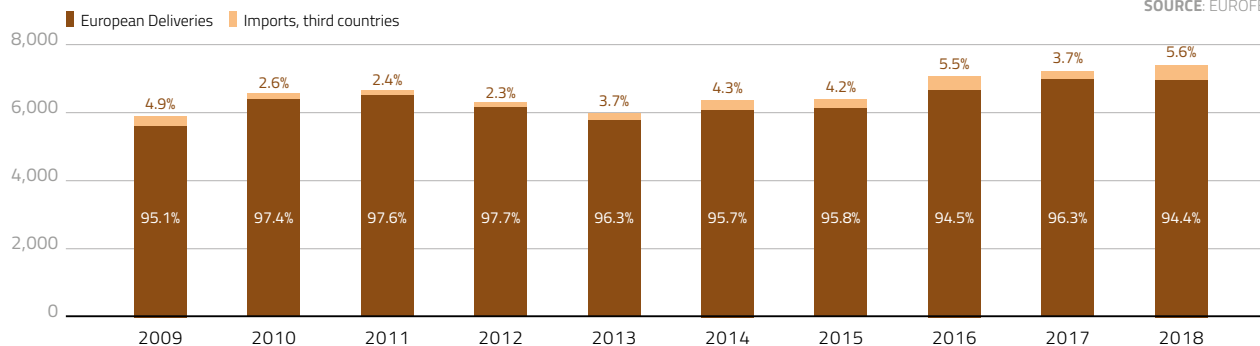
## Market supply: Beams & rebar

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

### BEAMS

CHART • 2009 – 2018

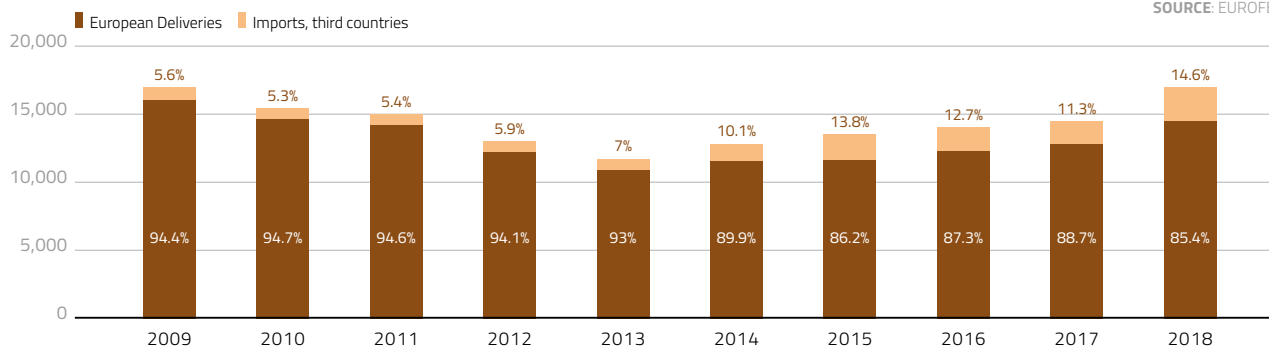
SOURCE: EUROFER



### REBAR, INCLUDING DEFORMED RODS

CHART • 2009 – 2018

SOURCE: EUROFER





## Market supply: Wire rod & merchant bar

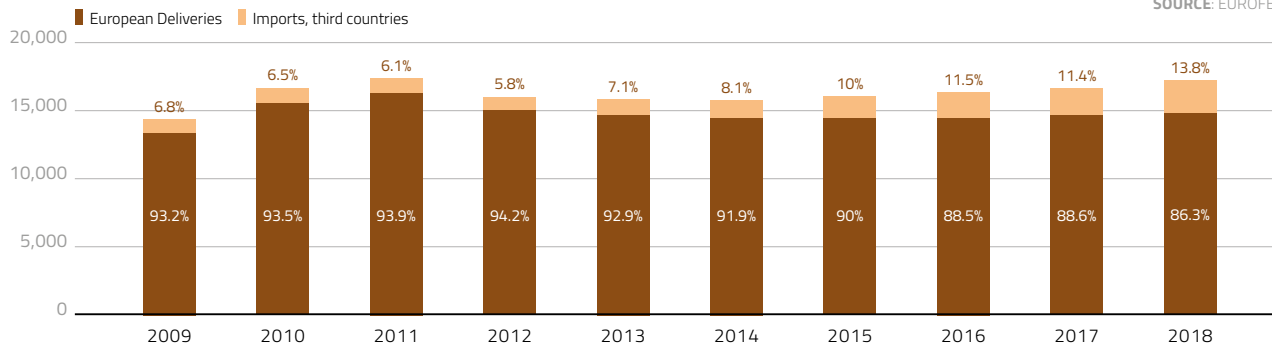
Non-alloy and other alloy steels • in '000 metric tonnes

33

### WIRE ROD, EXCLUDING DEFORMED RODS

CHART • 2009 – 2018

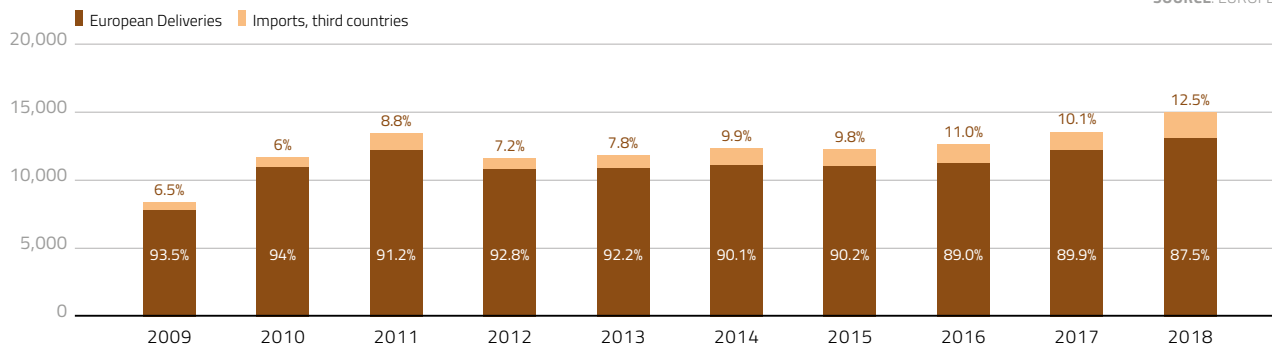
SOURCE: EUROFER



### MERCHANT BARS

CHART • 2009 – 2018

SOURCE: EUROFER





# International trade



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## Imports into the EU: Total

All qualities • in metric tonnes

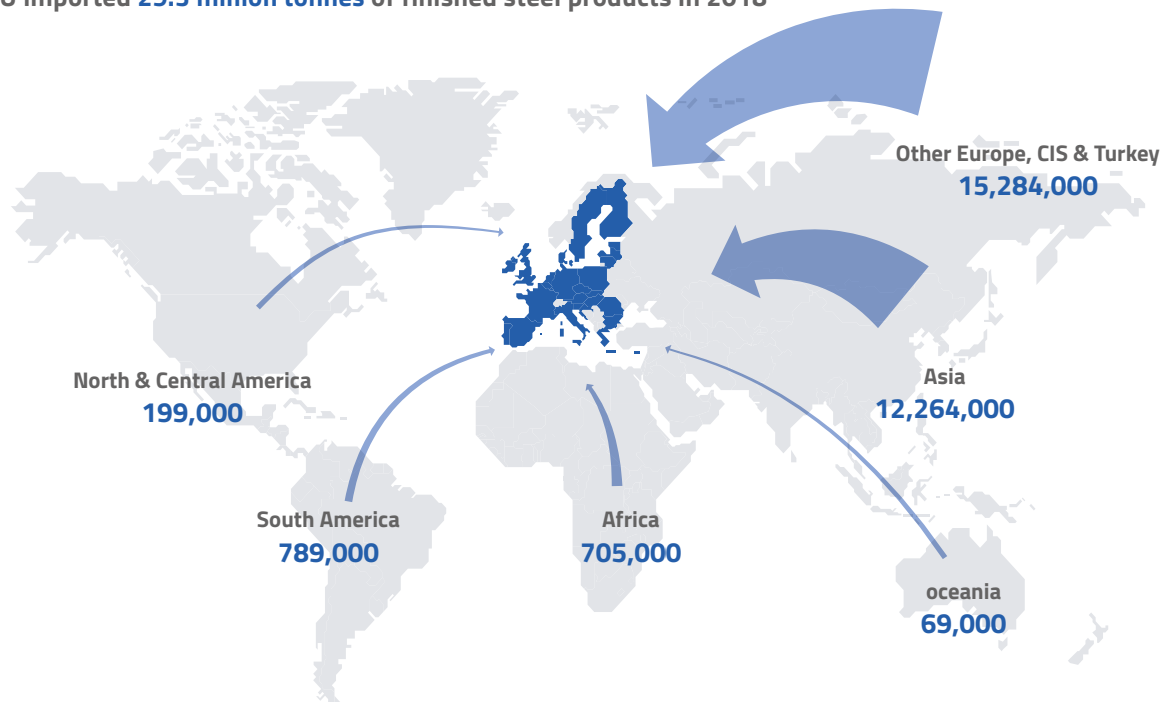
37

### 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

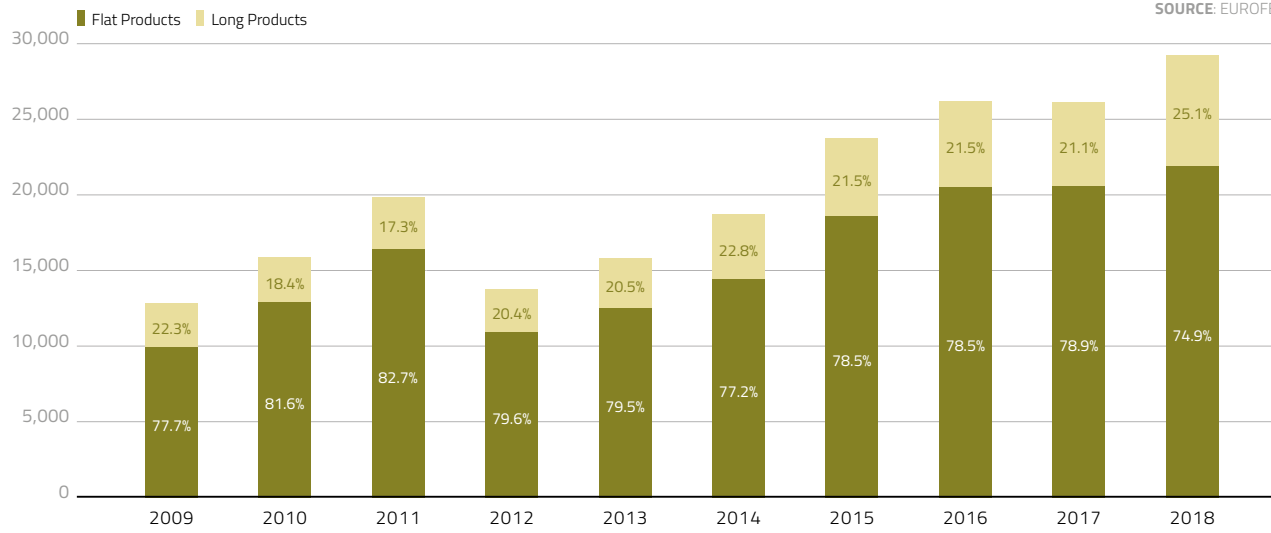
SOURCE: EUROFER

	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

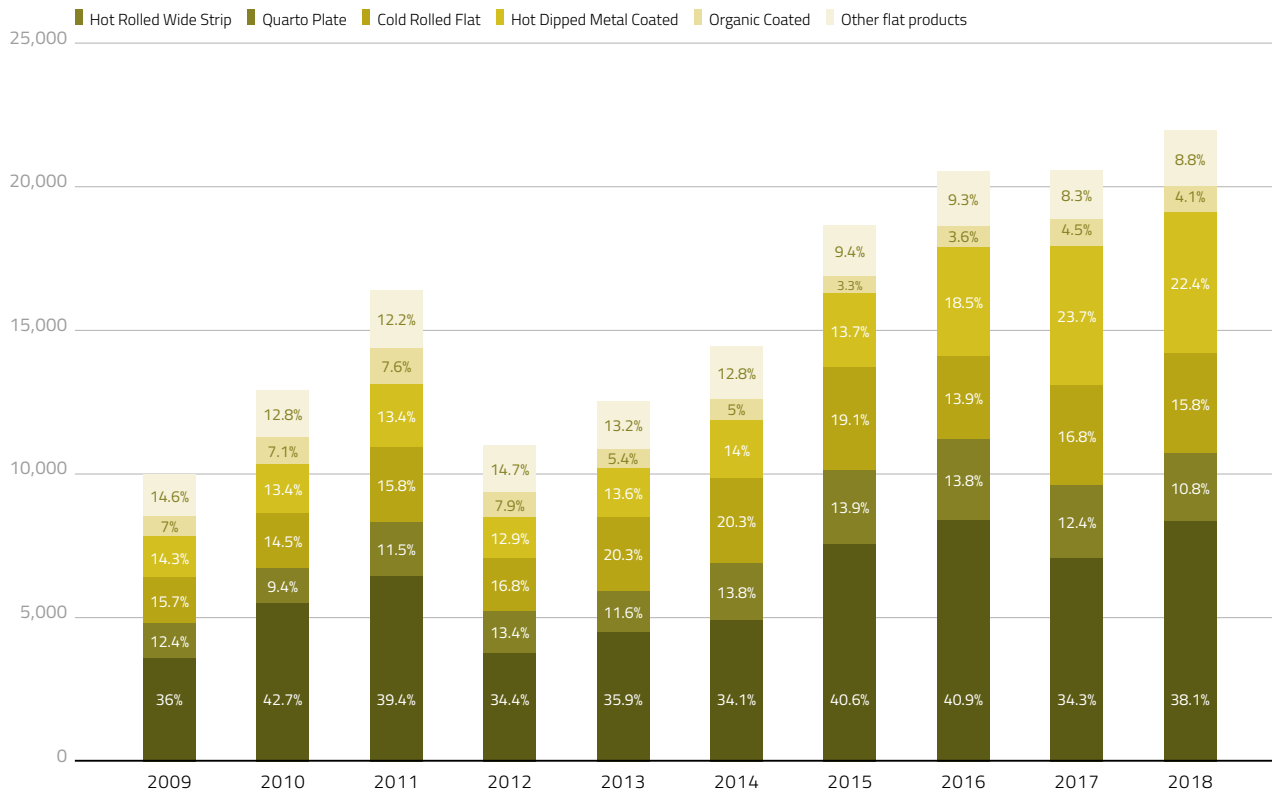
All qualities • in '000 metric tonnes

39

## FLAT PRODUCT IMPORTS INTO THE EU BY PRODUCT

CHART • 2009 – 2018

SOURCE: EUROFER



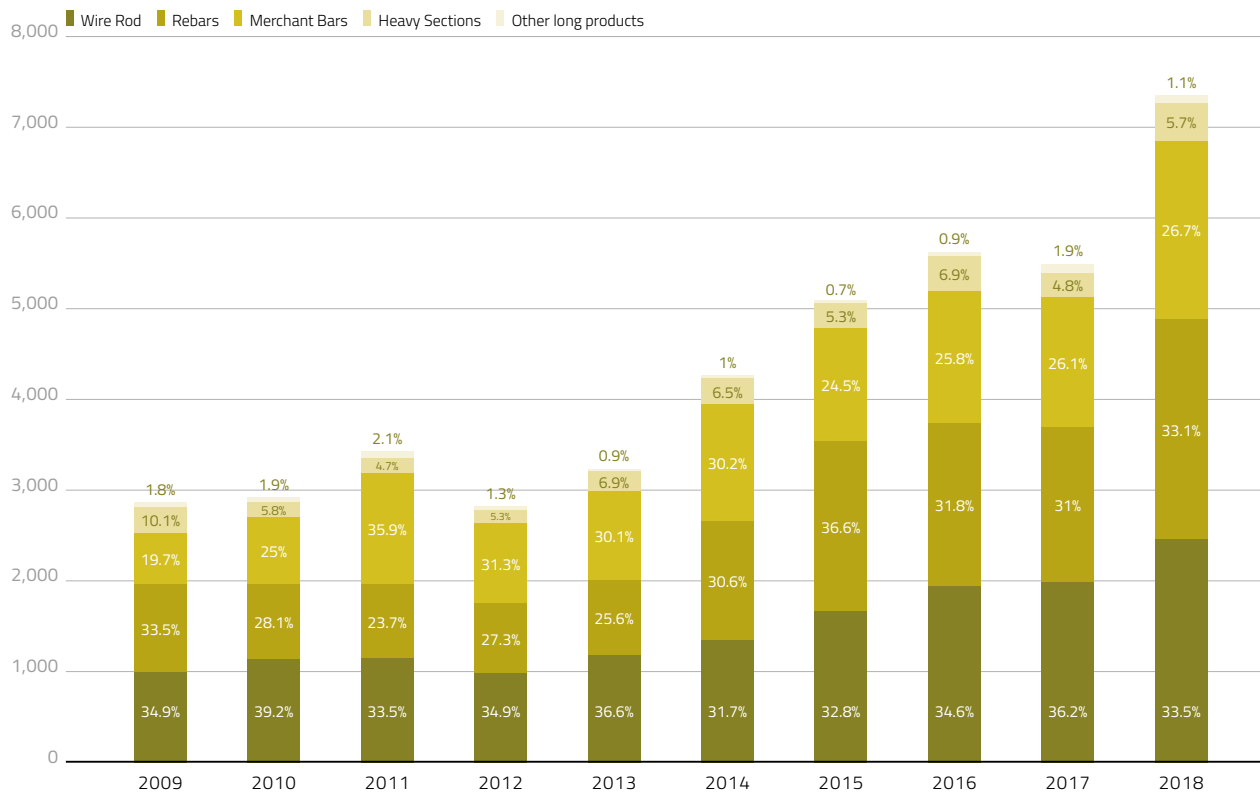
# Imports into the EU: Long products

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

41

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
<b>TOTAL</b>	<b>12,886</b>	<b>15,872</b>	<b>19,860</b>	<b>13,833</b>	<b>15,807</b>	<b>18,753</b>	<b>23,776</b>	<b>26,193</b>	<b>26,119</b>	<b>29,316</b>

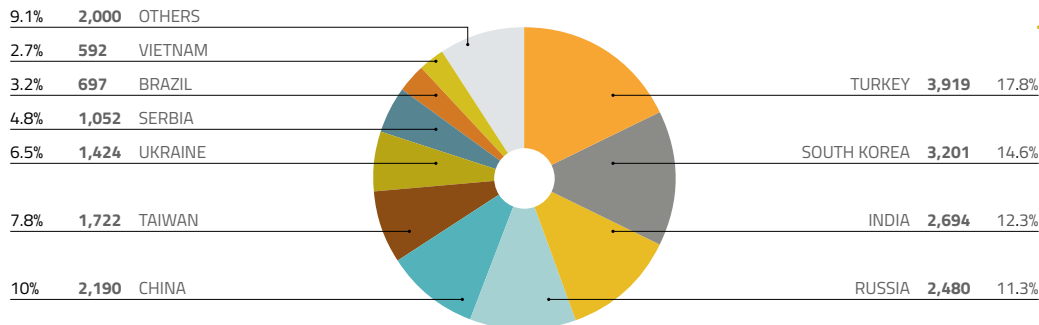
## Imports: Top 10 countries of origin by product category

All qualities • in '000 metric tonnes

### TOP 10 FLAT PRODUCTS IMPORTS

CHART • 2018

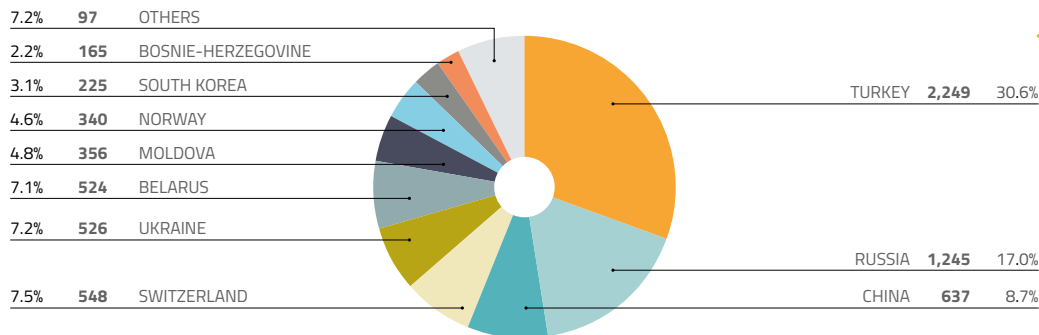
SOURCE: EUROFER


**21.9 million tonnes**
**100%**

### TOP 10 LONG PRODUCT IMPORTS

CHART • 2018

SOURCE: EUROFER


**7.3 million tonnes**
**100%**

## Exports into the EU: Total

All qualities • in metric tonnes

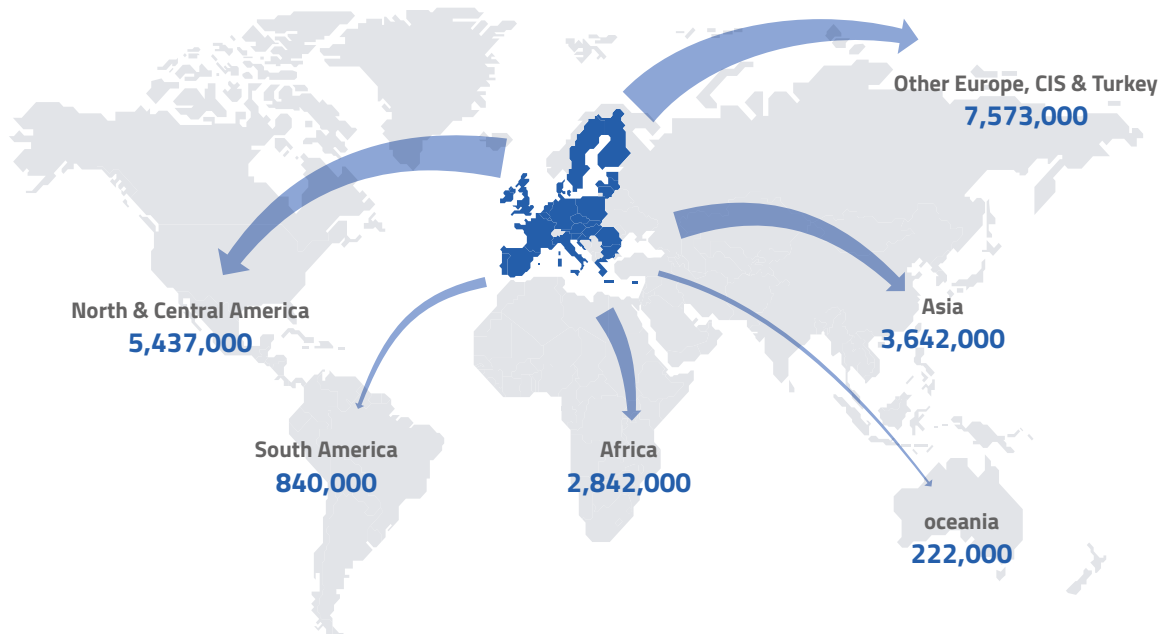
43

### 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

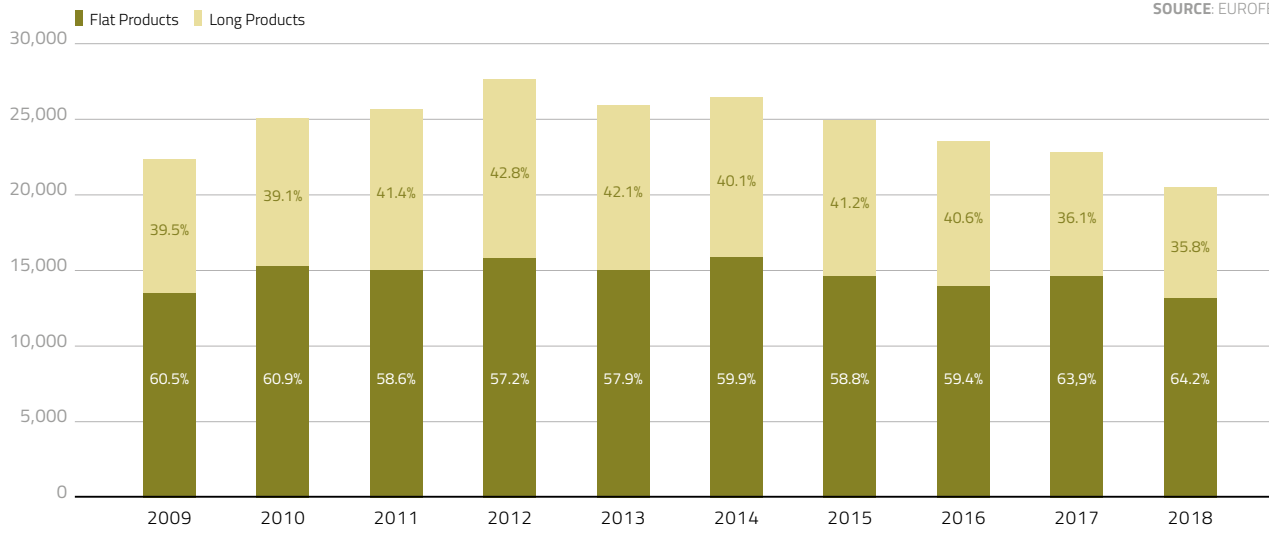
SOURCE: EUROFER

	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

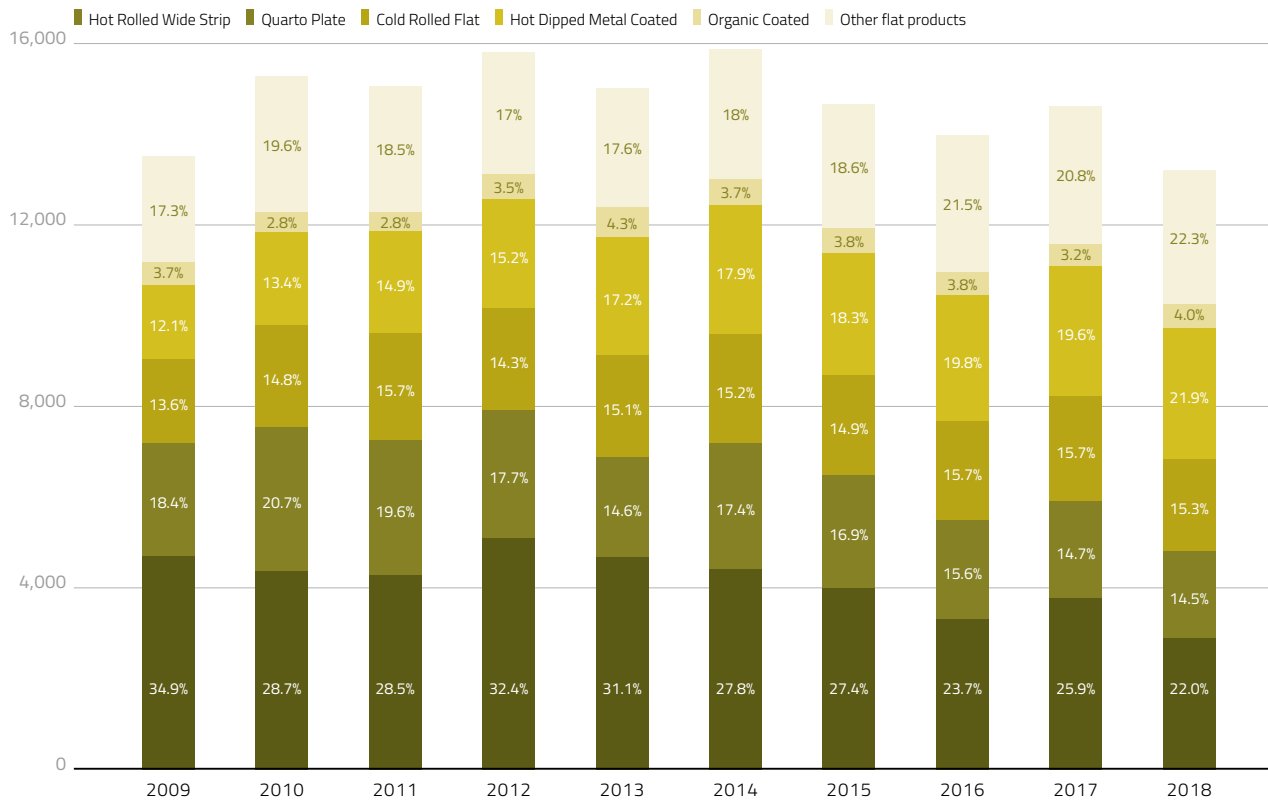
All qualities • in '000 metric tonnes

45

## FLAT PRODUCT EXPORTS FROM THE EU BY PRODUCT

CHART • 2009 – 2018

SOURCE: EUROFER



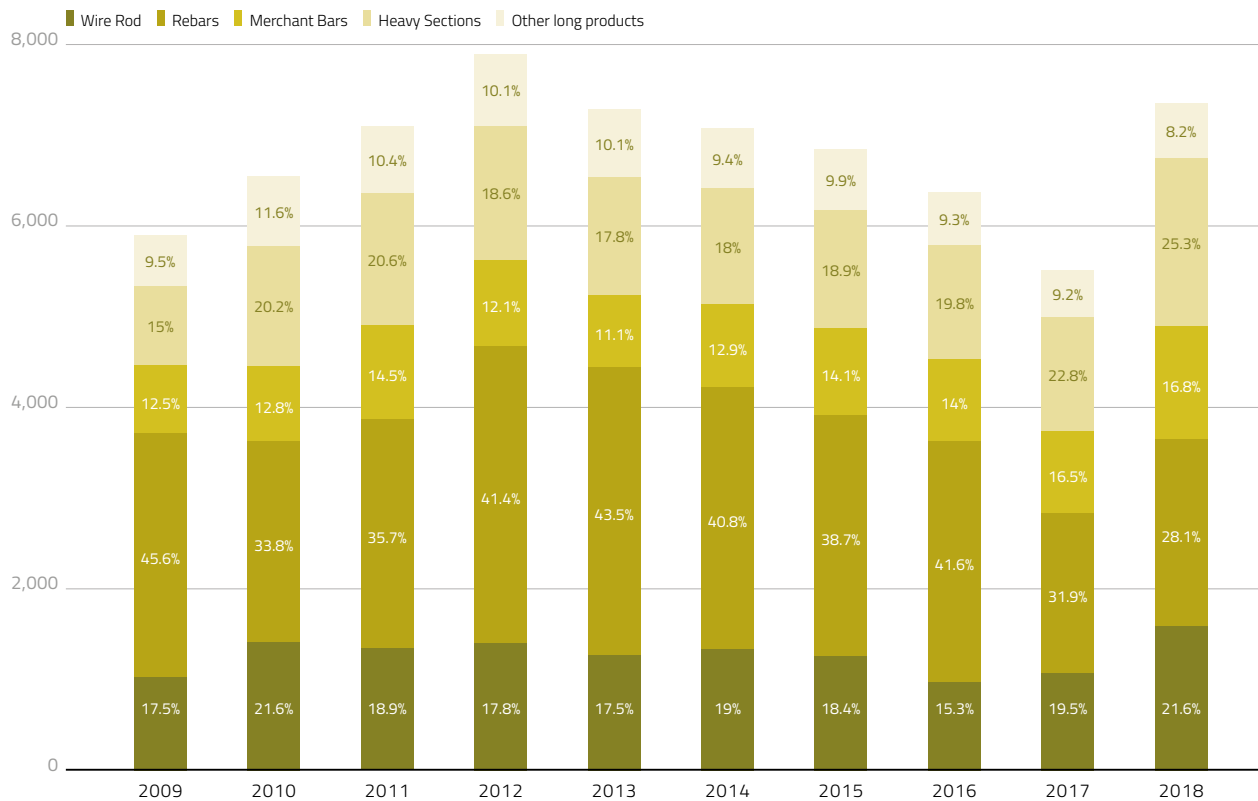
# Exports from the EU: Long products

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

47

### 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
<b>TOTAL</b>	<b>22,403</b>	<b>25,135</b>	<b>25,751</b>	<b>27,687</b>	<b>25,983</b>	<b>26,533</b>	<b>24,957</b>	<b>23,583</b>	<b>22,903</b>	<b>20,564</b>

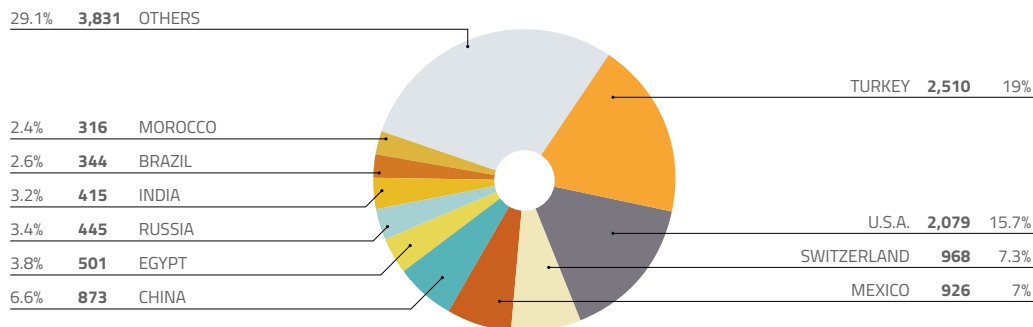
## Export destinations: by product category

All qualities • in '000 metric tonnes

### TOP FLAT PRODUCT EXPORT DESTINATIONS

CHART • 2018

SOURCE: EUROFER



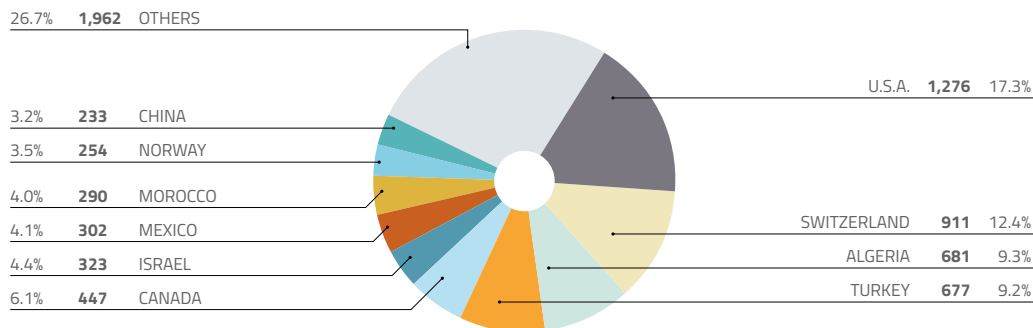
**13.2 million tonnes**

100%

### TOP LONG PRODUCT EXPORT DESTINATIONS

CHART • 2018

SOURCE: EUROFER



**7.3 million tonnes**

100%



## EU trade balance: by volume

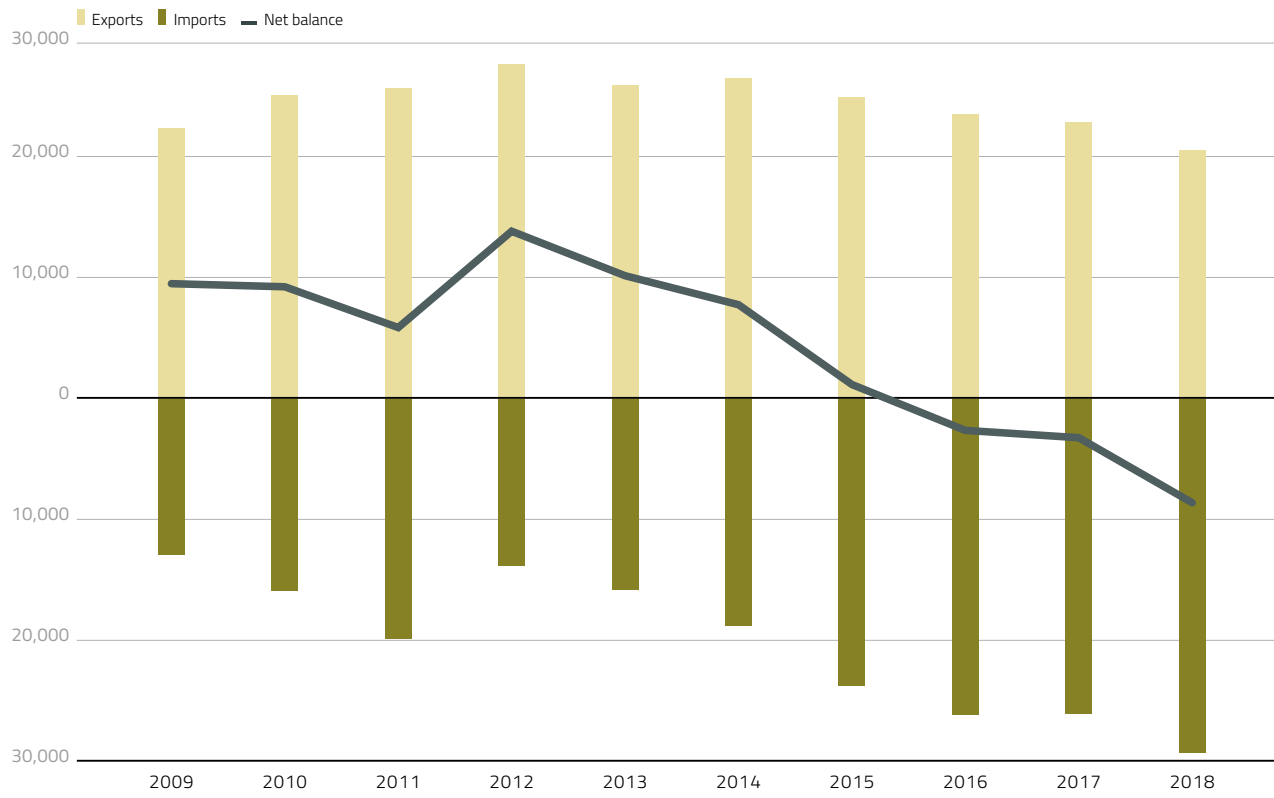
All qualities • in '000 metric tonnes

49

### FINISHED PRODUCTS NET TRADE BALANCE BY VOLUME

CHART • 2009 – 2018

SOURCE: EUROFER





# Stainless & sustainability specialty steels



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# EU finished stainless steel production: Total

In '000 metric tonnes

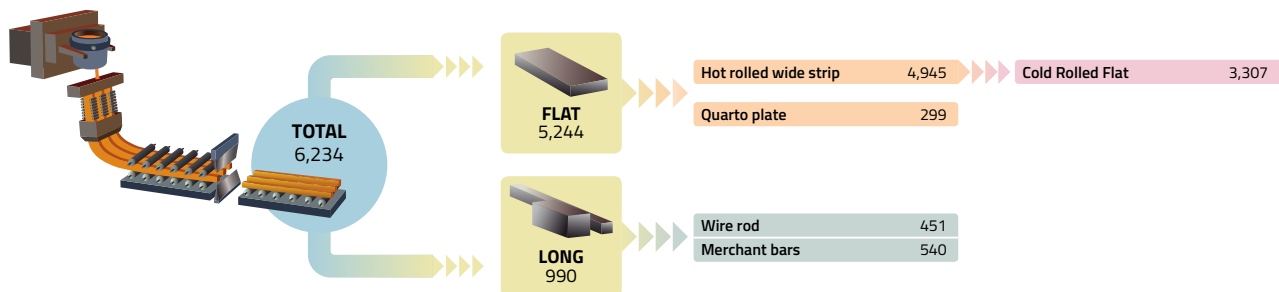
53

## EU TOTAL FINISHED STEEL PRODUCTION BY PRODUCT

TABLE ■ 2009 – 2018

SOURCE: EUROFER

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<b>Total Hot Rolled</b>	<b>5,088</b>	<b>6,006</b>	<b>6,030</b>	<b>5,999</b>	<b>5,669</b>	<b>5,590</b>	<b>4,969</b>	<b>4,749</b>	<b>5,039</b>	<b>6,234</b>
▶ of which flat products	4,490	5,217	5,198	5,208	4,866	4,733	4,109	3,856	4,104	5,244
▶ Hot Rolled Wide Strip	4,331	5,007	4,920	4,923	4,594	4,423	3,781	3,528	3,785	4,945
▶ Quarto Plate	158	210	278	285	272	311	328	328	319	299
▶ of which long products	599	789	832	791	803	856	860	893	935	990
▶ Wire Rod	254	398	383	346	373	384	388	413	450	451
▶ Merchant Bars	345	391	449	445	430	473	472	480	486	540
Products obtained from upstream production – from Hot Rolled Wide Strip										
▶ Cold Rolled Flat	2,711	3,226	3,215	3,170	3,076	3,017	3,140	3,401	3,332	3,307



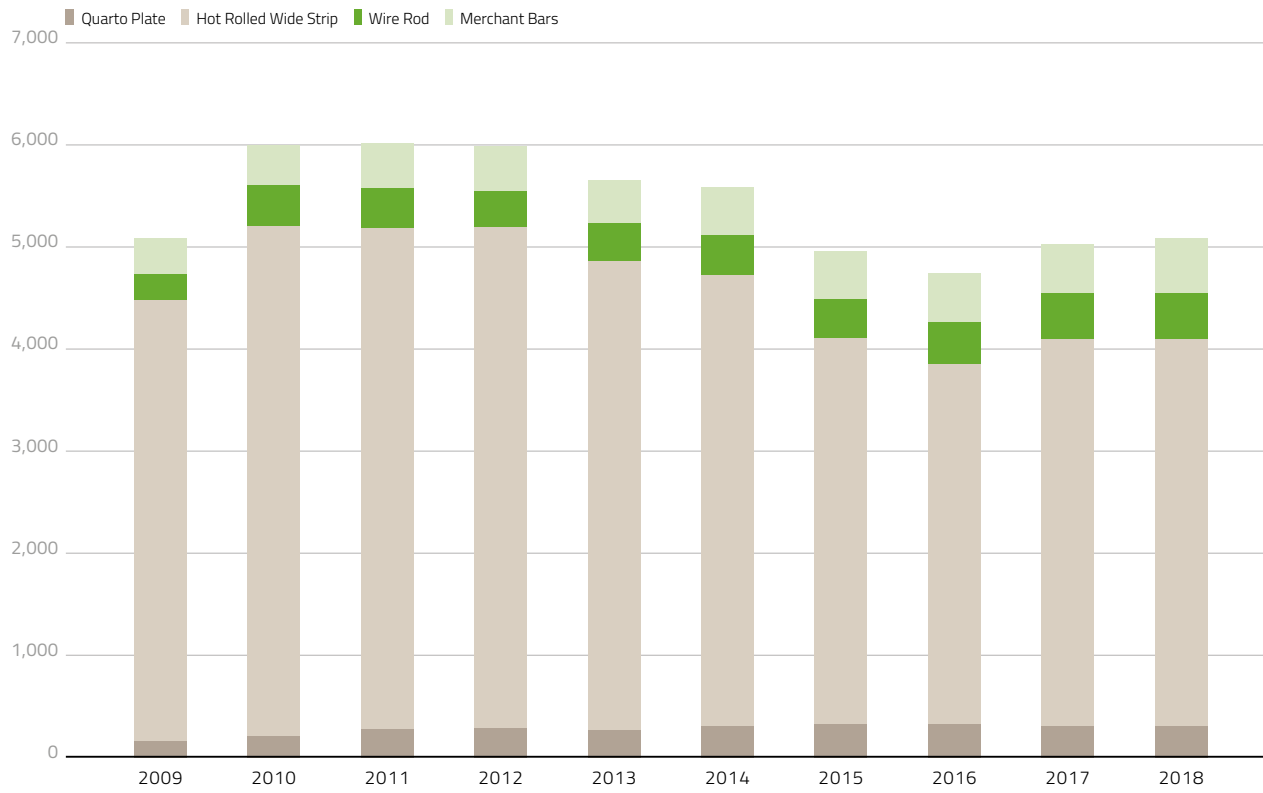
## EU Hot Rolled finished stainless steel production: Total

In '000 metric tonnes

### EU HOT ROLLED FINISHED STEEL PRODUCTION BY PRODUCT

CHART ■ 2009 – 2018

SOURCE: EUROFER



## Stainless steel market supply: Total flat products

In '000 metric tonnes

55

### TOTAL STAINLESS FLAT PRODUCT DELIVERIES BY SOURCE

TABLE ■ 2009 – 2018

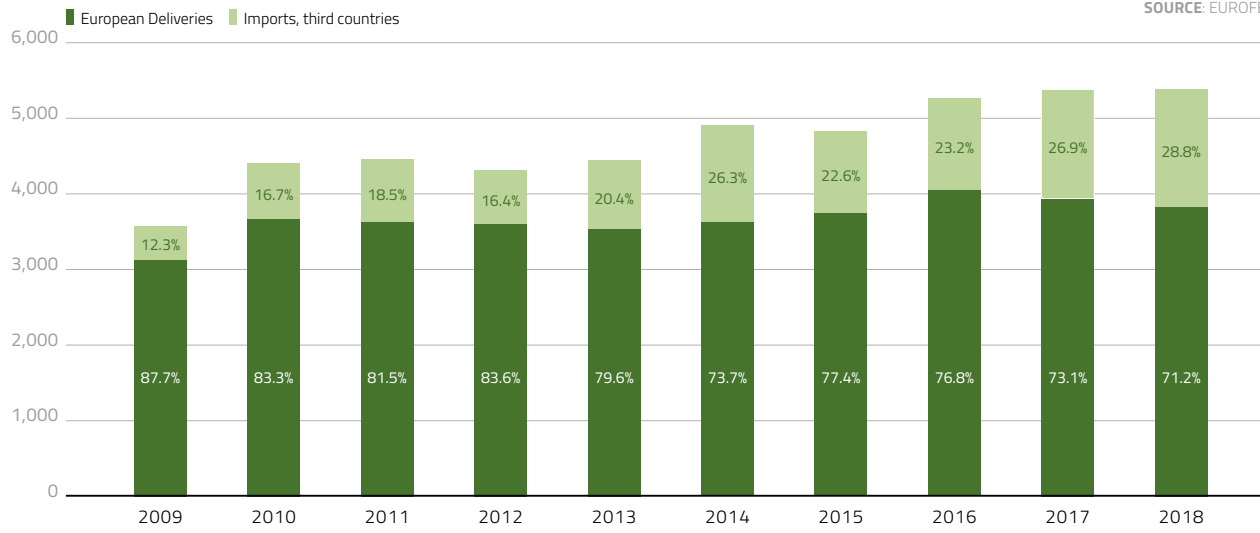
SOURCE: EUROFER

	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



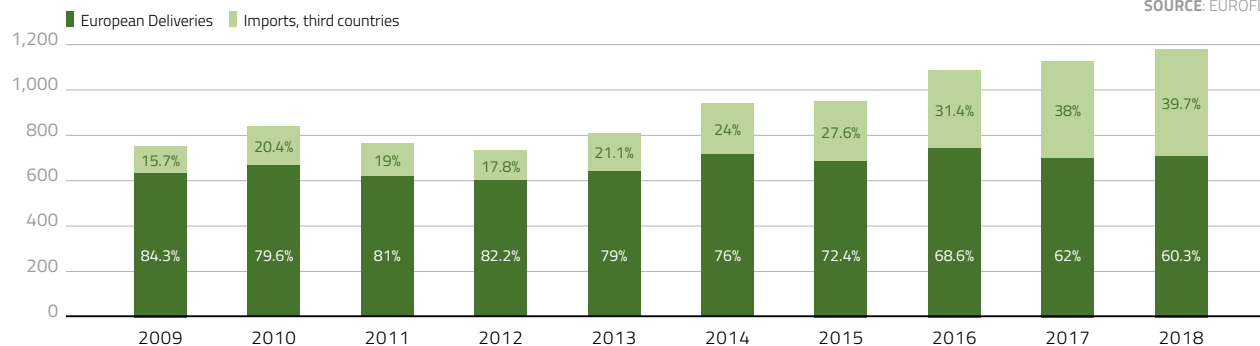
# Stainless steel market supply: Hot rolled strip mill & Quarto plate

In '000 metric tonnes

## HOT ROLLED STRIP MILL PRODUCTS FOR DIRECT USE

CHART ■ 2009 – 2018

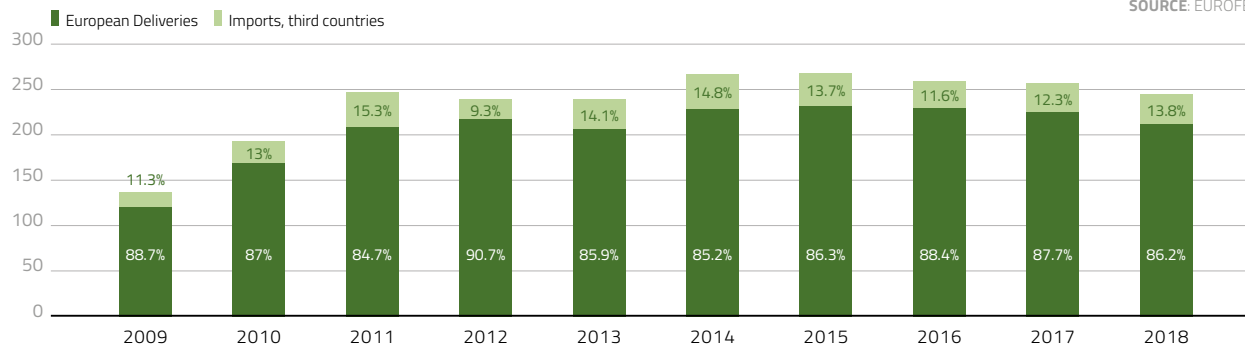
SOURCE: EUROFER



## QUARTO PLATE

CHART ■ 2009 – 2018

SOURCE: EUROFER





# Stainless steel market supply: Hot & cold rolled flat

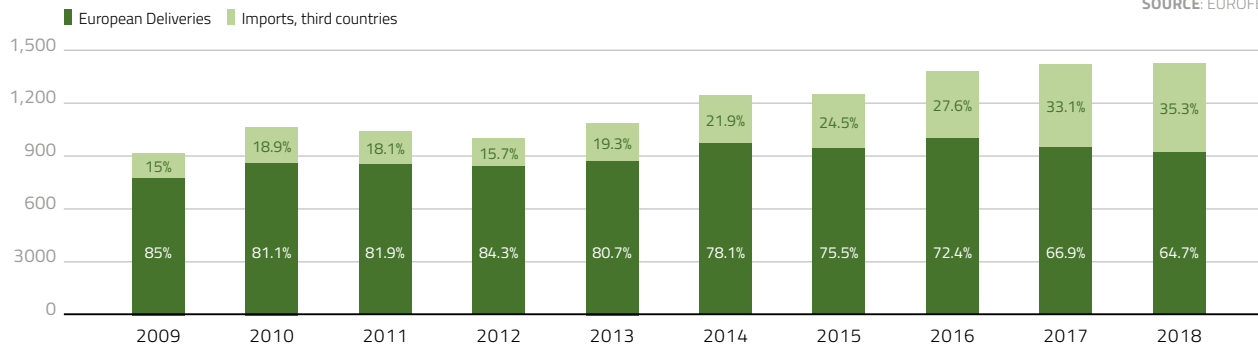
In '000 metric tonnes

57

## HOT ROLLED FLAT PRODUCTS

CHART ■ 2009 – 2018

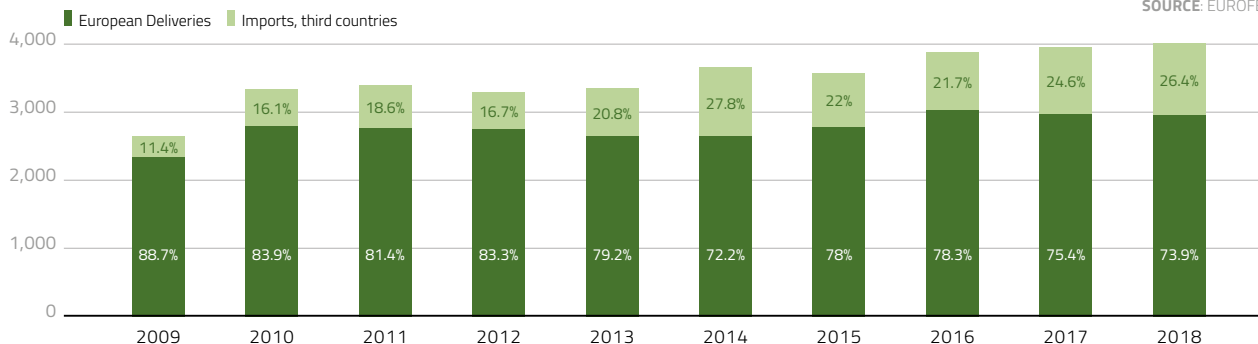
SOURCE: EUROFER



## 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

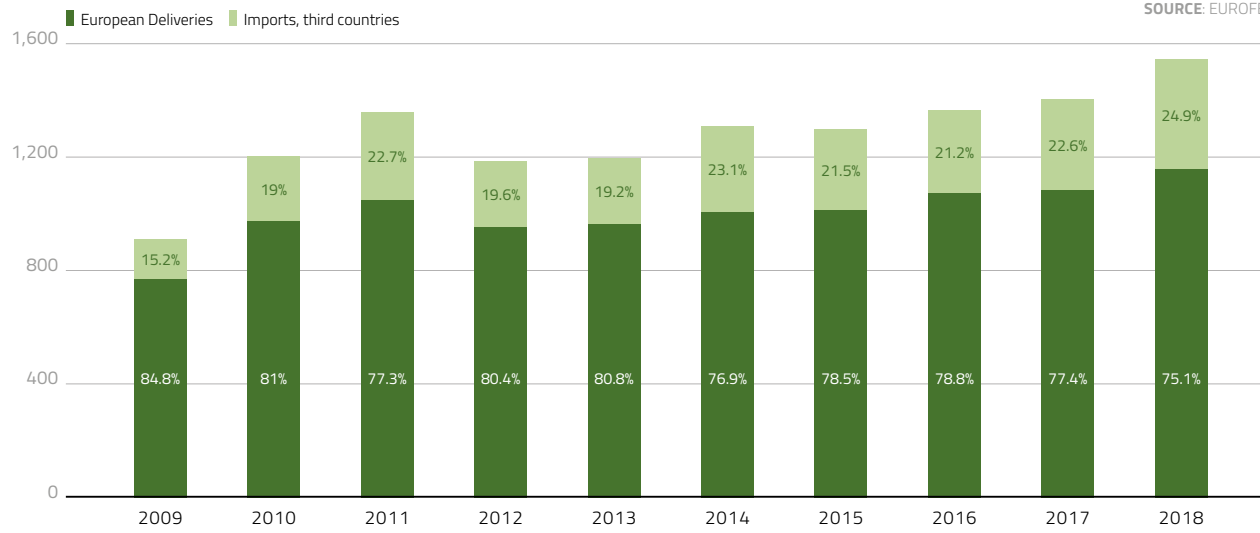
SOURCE: EUROFER

	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

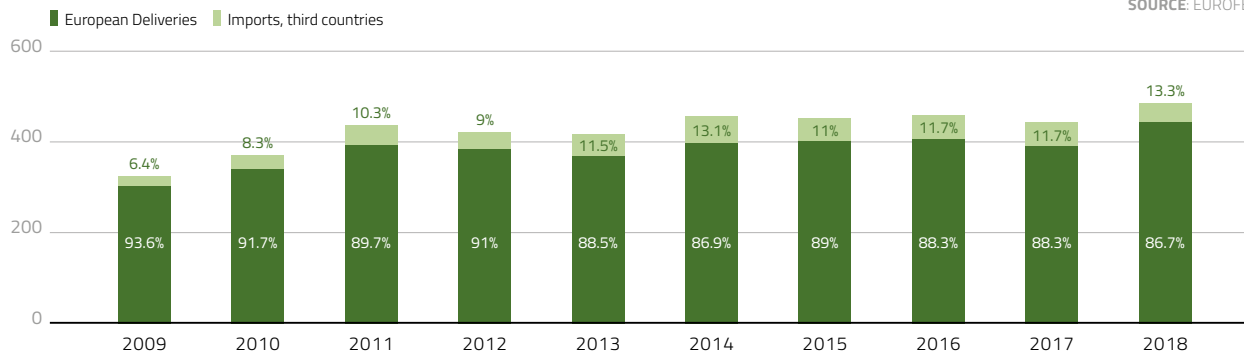
In '000 metric tonnes

59

## HOT ROLLED BARS & SECTIONS

CHART ■ 2009 – 2018

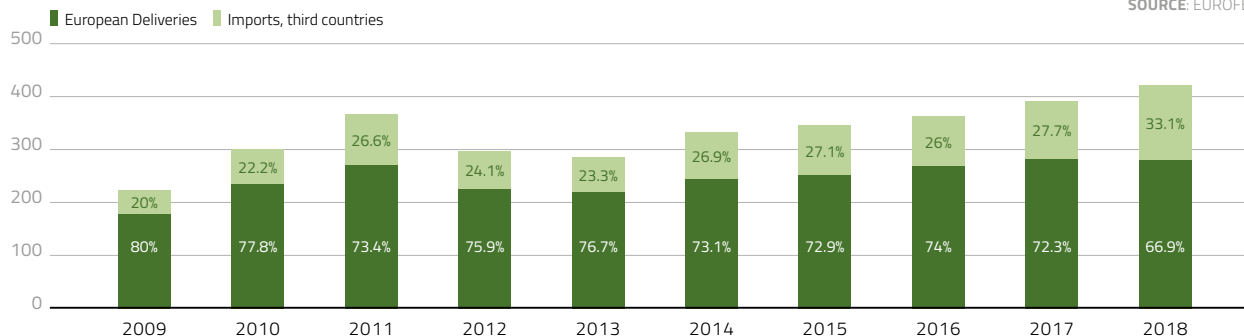
SOURCE: EUROFER



## BRIGHT BARS

CHART ■ 2009 – 2018

SOURCE: EUROFER



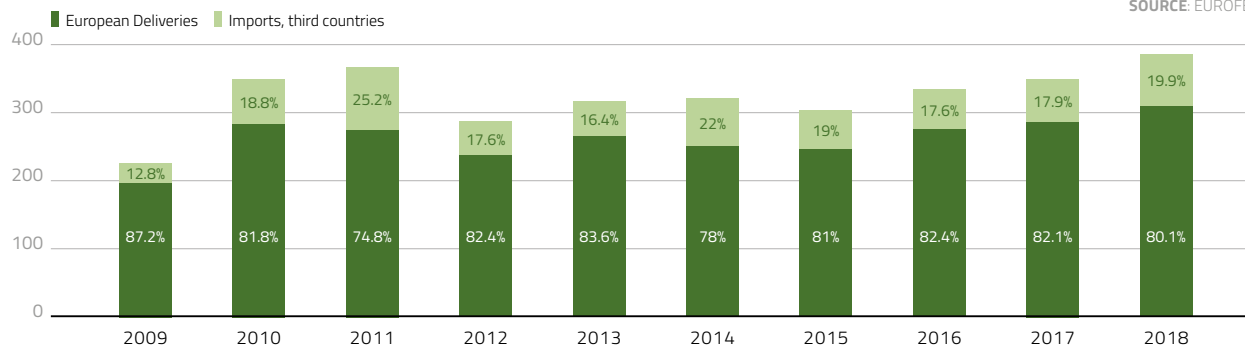
# Stainless steel market supply: wire rod & drawn wires

In '000 metric tonnes

## WIRE ROD

CHART ■ 2009 – 2018

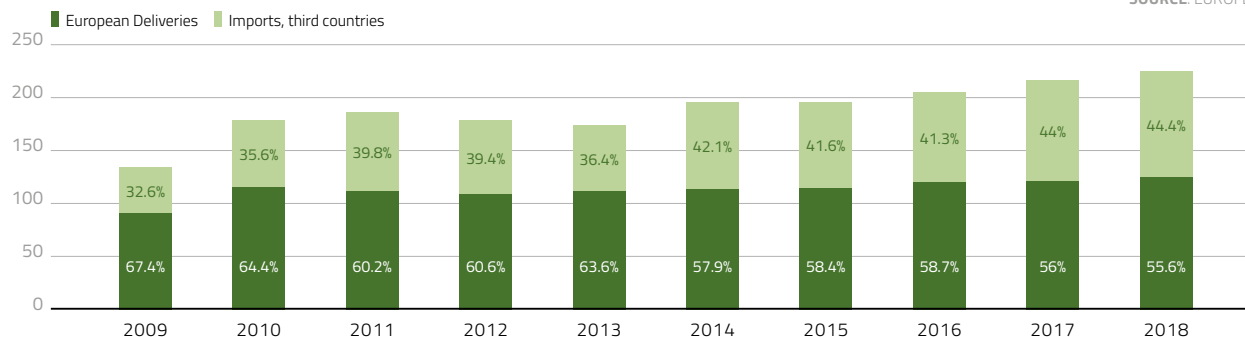
SOURCE: EUROFER



## DRAWN WIRES

CHART ■ 2009 – 2018

SOURCE: EUROFER



# Imports into the EU: Total stainless & specialty steel

In '000 metric tonnes

61

## IMPORTS OF FINISHED STAINLESS & SPECIALTY STEELS BY PRODUCT

TABLE ■ 2009 – 2018

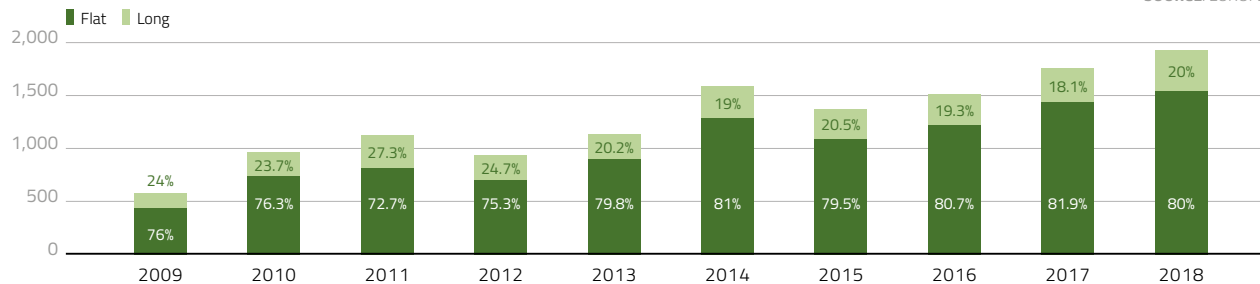
SOURCE: EUROFER

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<b>Finished Products</b>	<b>580</b>	<b>970</b>	<b>1,133</b>	<b>943</b>	<b>1,139</b>	<b>1,595</b>	<b>1,379</b>	<b>1,522</b>	<b>1,766</b>	<b>1,934</b>
▶ 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

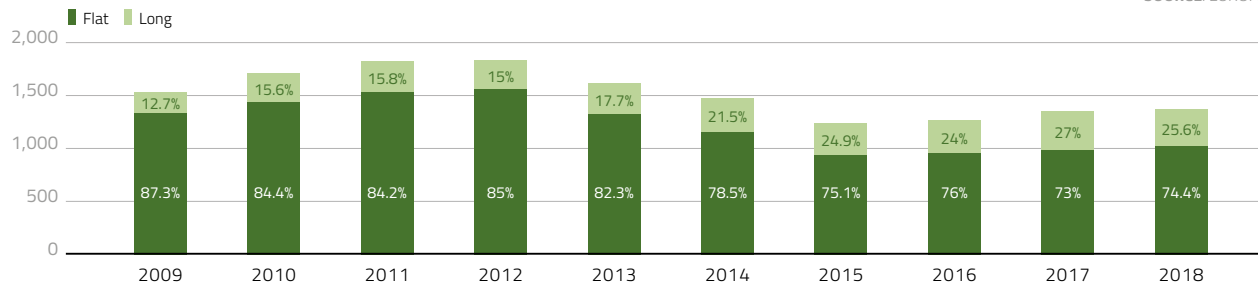
SOURCE: EUROFER

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<b>Finished Products</b>	<b>1,535</b>	<b>1,714</b>	<b>1,830</b>	<b>1,844</b>	<b>1,620</b>	<b>1,481</b>	<b>1,251</b>	<b>1,271</b>	<b>1,355</b>	<b>1,378</b>
▶ 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



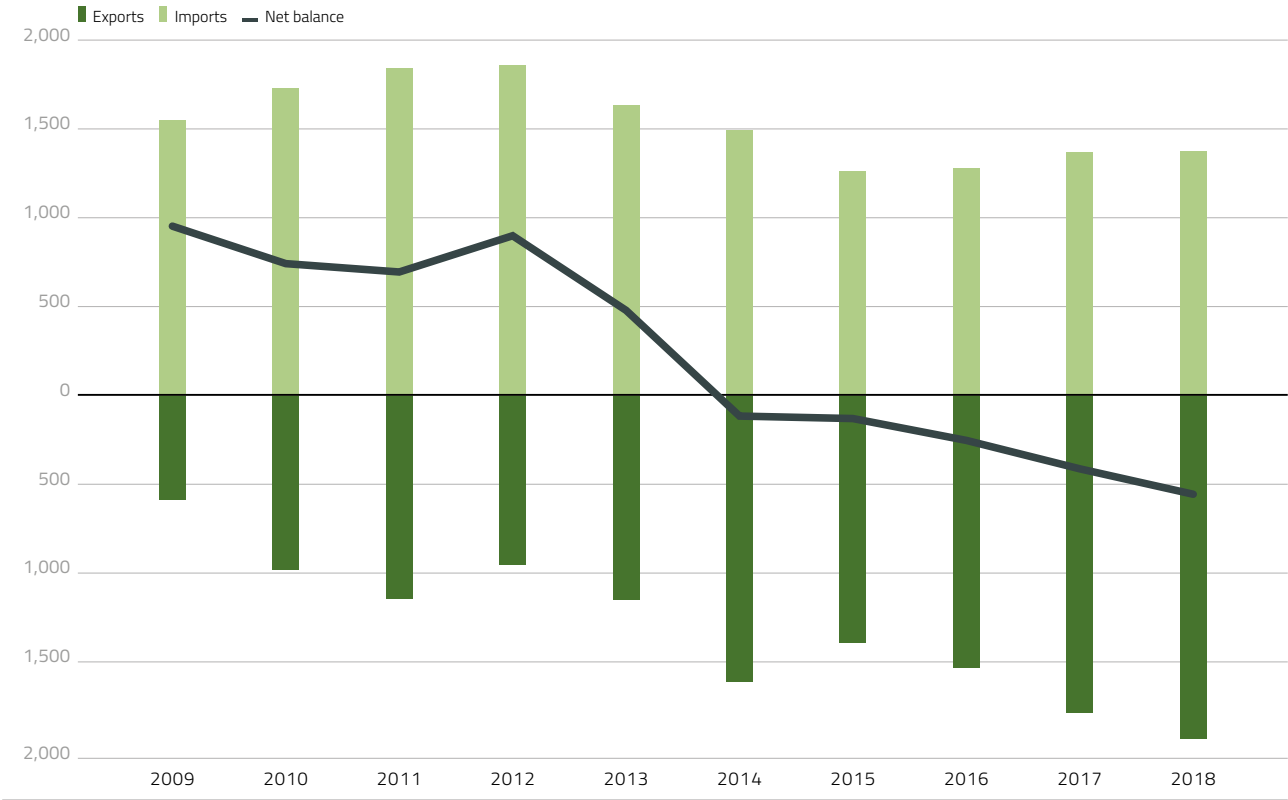
# EU Trade balance: by volume

In '000 metric tonnes

## NET TRADE BALANCE BY VOLUME

CHART ■ 2009 – 2018

SOURCE: EUROFER







# Sustainability



EUROPEAN STEEL IN FIGURES **2019**

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# Imports into the EU: scrap steel

In '000 metric tonnes

## IMPORTS OF SCRAP INTO THE EU

TABLE ■ 2009 – 2018

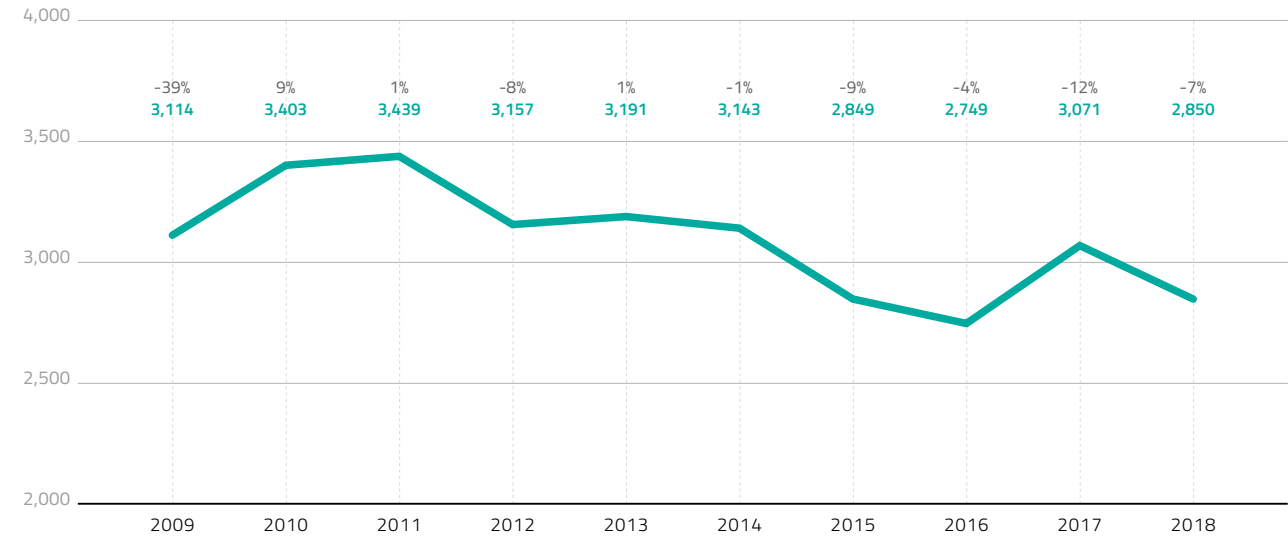
SOURCE: EUROFER

	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

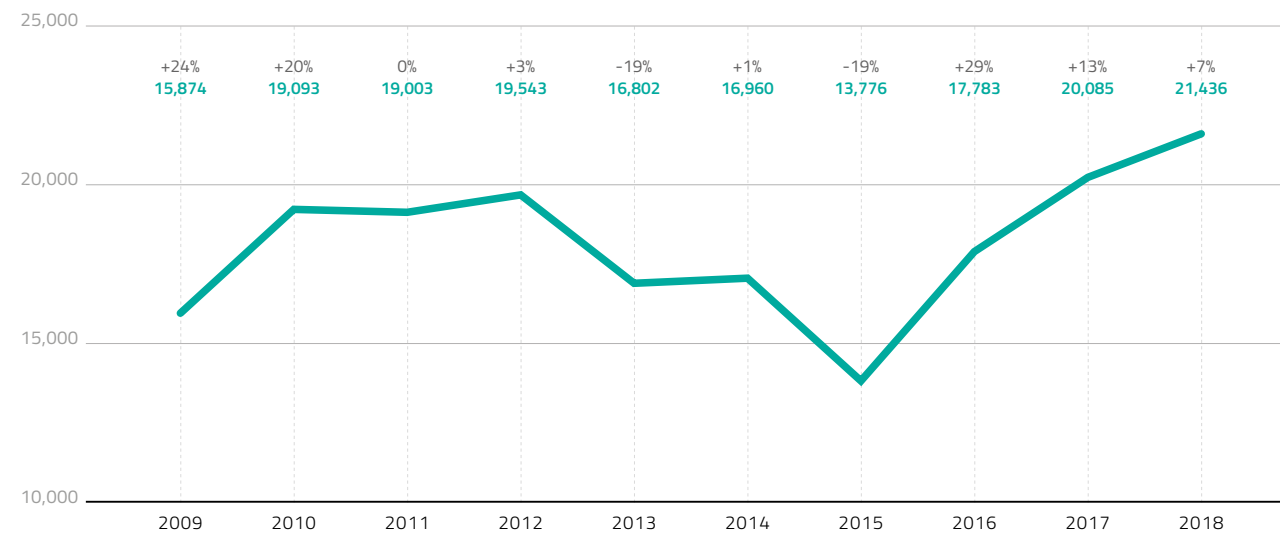
SOURCE: EUROFER

	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

69

### CONSUMPTION & NET EXPORT OF SCRAP STEEL

TABLE ■ 2009 – 2018

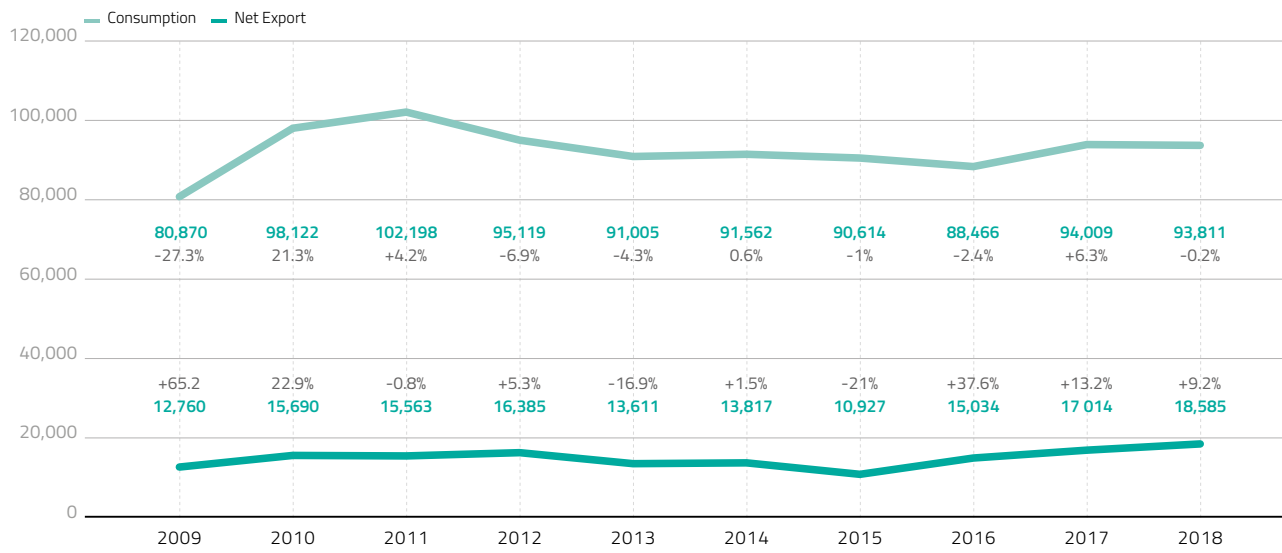
SOURCE: EUROFER

	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 IN THE EU

CHART ■ 2008 – 2016

SOURCE: EUROSILAG



# Slag production and use

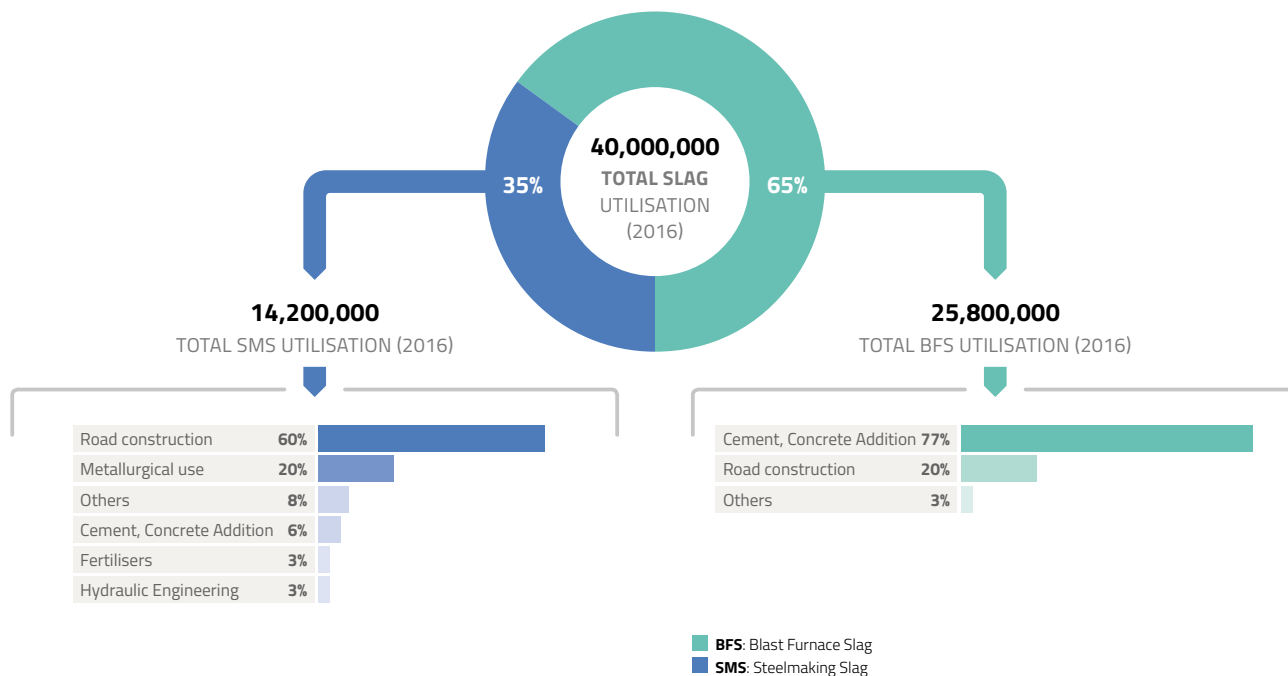
In metric tonnes

71

## USE OF SLAG IN DOWNSTREAM INDUSTRIES

CHART • 2016

SOURCE: EUROSLAG

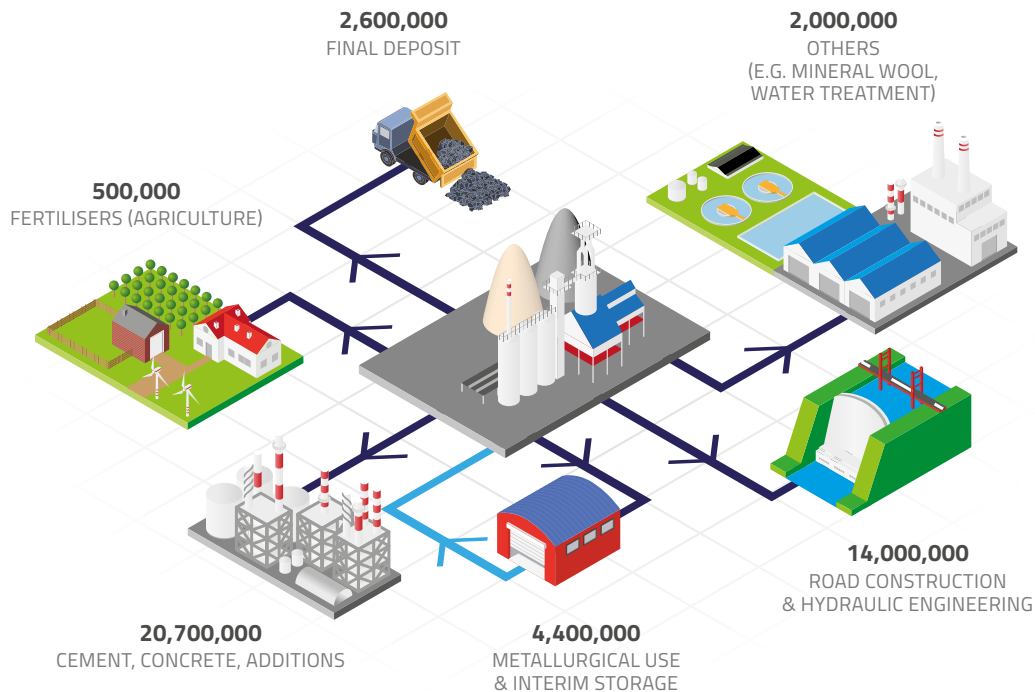


NOTE: 3,000,000 tonnes of slag for final deposit and interim storage not shown

## USAGE PATHS OF SLAG IN SYNERGISTIC SECTORS

ISOMETRIC DIAGRAM • 2016

DATA SOURCE: EUROS LAG – 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

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### ► Steel Tubes

- 24.2 Manufacture of steel tubes

---

### ► Metal Goods

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

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### ► 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

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### 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.

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### 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.

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### 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

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### Steel industry receipts

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

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### 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

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### 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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