

European Steel in Figures

2021

DATA COVERING 2020

The European Steel Association
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European Steel in Figures 2021

Axel Eggert, Director General

The European Steel Association (EUROFER)

Welcome to the thirteenth edition of the European Steel Association's (EUROFER) European Steel in Figures guide. European Steel in Figures 2021 includes data up to, and including full year 2020 for EU28.

To some extent, the numbers in this guide reflect the shock and tentative recovery experienced by the European steel sector in 2020 – largely as a result of the COVID pandemic. However, as they are full year figures, they do not tell the whole picture. For instance, direct employment at the end of 2020 was 326,500 – but at the peak of the crisis, up to 45% of the workforce had either been laid off or put on short time working.

Crude steel production for the year was down from 2019's 157.5 million to 139.3 million tonnes in 2020, but this hides the halving of production volumes in the second quarter. Order volumes collapsed, but yearly apparent consumption was 136 million, down sharply (-11.1%) for the year – but this hides the record-breaking 25% year-on-year drop in the second quarter.

All this to say that European Steel in Figures 2021 is only a partial guide to the European steel sector's performance in 2020. For more granular information on quarterly performance, consult *EUROFER's Economic and steel market outlook reports*, available on our website.

Even though the picture is only partial, it is clear that 2020 was one of the worst years in the history of the European steel industry. Though not as sharp a drop as the fall recorded in the wake of the financial crisis in 2008-2009 (-30%), the decline (-12.1%) in production in 2020 continues a trend of poor market conditions dating back to mid-2018.

This is part of a longer-term movement, with the Compound Annual Growth Rate (CAGR) of the European steel sector a disappointing -2.7% for the period 2008-2020.

The first five months of 2021 have shown improved conditions, but there is a long way to go for stability to return to the sector, as the figures herein attest.

Nevertheless, these statistics give a good overview of the European steel industry today. Awareness of the employment, production, demand and trade challenges the sector is facing help guide us and policy makers in making the right decisions. These will – hopefully – ensure that the recovery from the lows of 2020 rebuilds value and supports the EU steel sector on its pathway to decarbonisation.

With this in mind, I hope you enjoy using European Steel in Figures 2021.

JUNE 2021

About

About the European steel industry

The European steel industry is a world leader in innovation and environmental sustainability. It directly employs 326,500 highly-skilled people and through indirect and induced effects supports the jobs of up to 2.6 million in total. The sector produces on average 160 million tonnes of steel per year at more than 500 steel production sites across 22 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) AISBL represents 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.

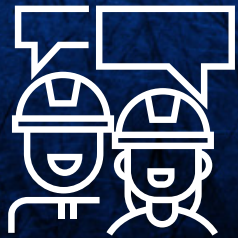
EUROFER's members are steel companies and national steel federations based throughout the EU. The national steel federation and major steel companies of Turkey are also associate members.

About the European Steel in Figures 2021 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 13th 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. NOTE: for the purpose of the European Steel in Figures Guide 2021, EU refers to EU28 unless otherwise specified, as the data is for 2020, and the UK only left the single market effective 1 February 2020.




Employment & economic impact

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Employment & GVA in the EU steel industry

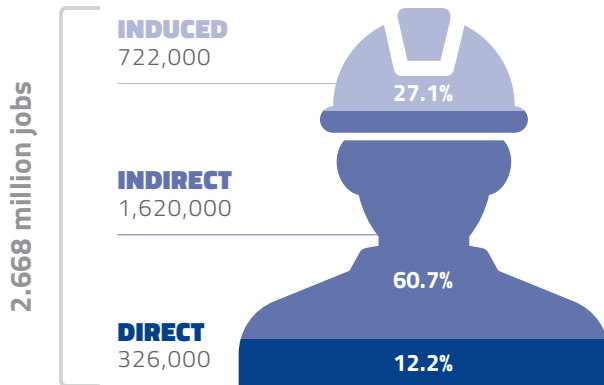
Direct, indirect & induced employment & GVA in the EU steel industry

EMPLOYMENT

GRAPHIC • 2020

SOURCE: OXFORD ECONOMICS

The EU steel industry supports over 2.6 million jobs

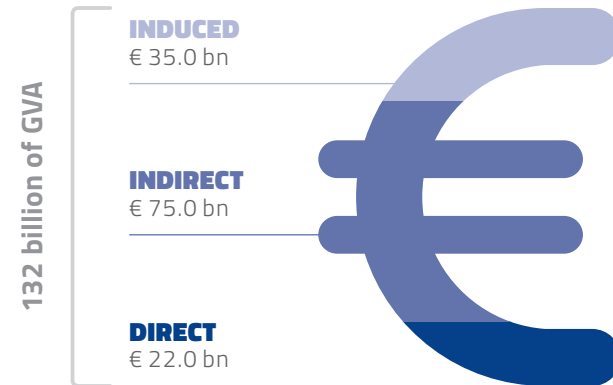


GROSS VALUE ADDED

GRAPHIC • 2020

SOURCE: OXFORD ECONOMICS

The EU steel industry creates around €132 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 • 2020

SOURCE: EUROFER
(steel companies + national steel companies)

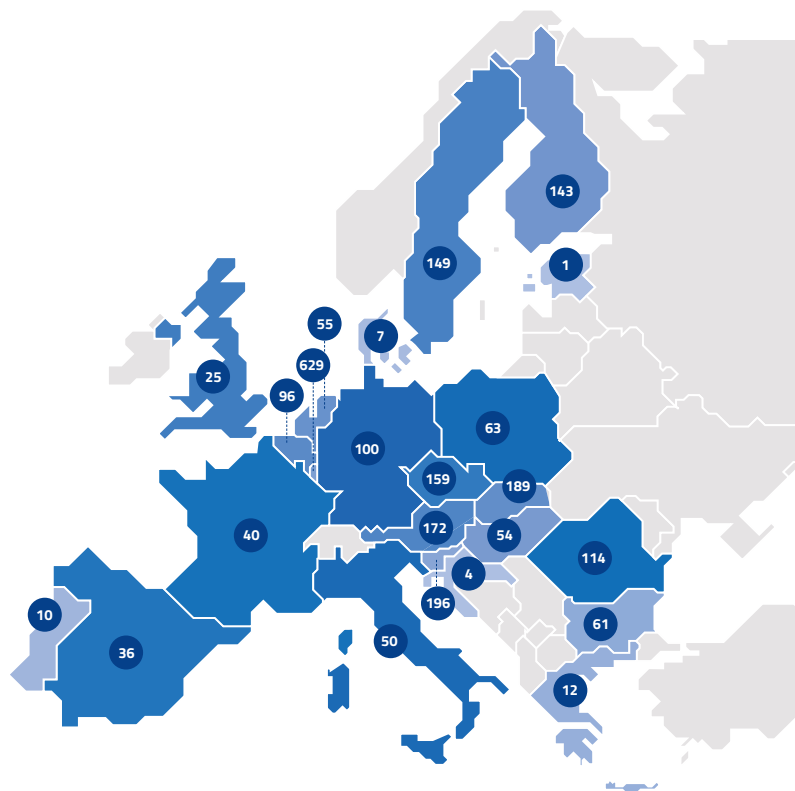
| | | % shares | |
|----|----------------|----------------|---------------|
| | 2020 | 2020 | 2020 |
| 1 | GERMANY | 83,200 | 25.5% |
| 2 | ITALY | 30,389 | 9.3% |
| 3 | FRANCE | 26,500 | 8.1% |
| 4 | POLAND | 24,000 | 7.4% |
| 5 | ROMANIA | 22,000 | 6.7% |
| 6 | SPAIN* | 17,150 | 5.3% |
| 7 | CZECH REPUBLIC | 17,000 | 5.2% |
| 8 | UNITED KINGDOM | 16,427 | 5.0% |
| 9 | SWEDEN | 15,300 | 4.7% |
| 10 | AUSTRIA | 15,300 | 4.7% |
| 11 | BELGIUM | 11,073 | 3.4% |
| 12 | SLOVAKIA | 10,300 | 3.2% |
| 13 | NETHERLANDS | 9,460 | 2.9% |
| 14 | FINLAND | 7,900 | 2.4% |
| 15 | HUNGARY | 5,300 | 1.6% |
| 16 | BULGARIA | 4,250 | 1.3% |
| 17 | SLOVENIA | 4,100 | 1.3% |
| 18 | LUXEMBOURG* | 3,900 | 1.2% |
| 19 | GREECE | 1,298 | 0.4% |
| 20 | PORTUGAL | 1,000 | 0.3% |
| 21 | DENMARK | 426 | 0.1% |
| 22 | CROATIA | 180 | 0.1% |
| 23 | ESTONIA | 9 | 0.0% |
| | TOTAL | 326,462 | 100,0% |

* Estimation

EMPLOYMENT IN STEEL PER 100,000 POPULATION

MAP • 2020

SOURCE: EUROFER



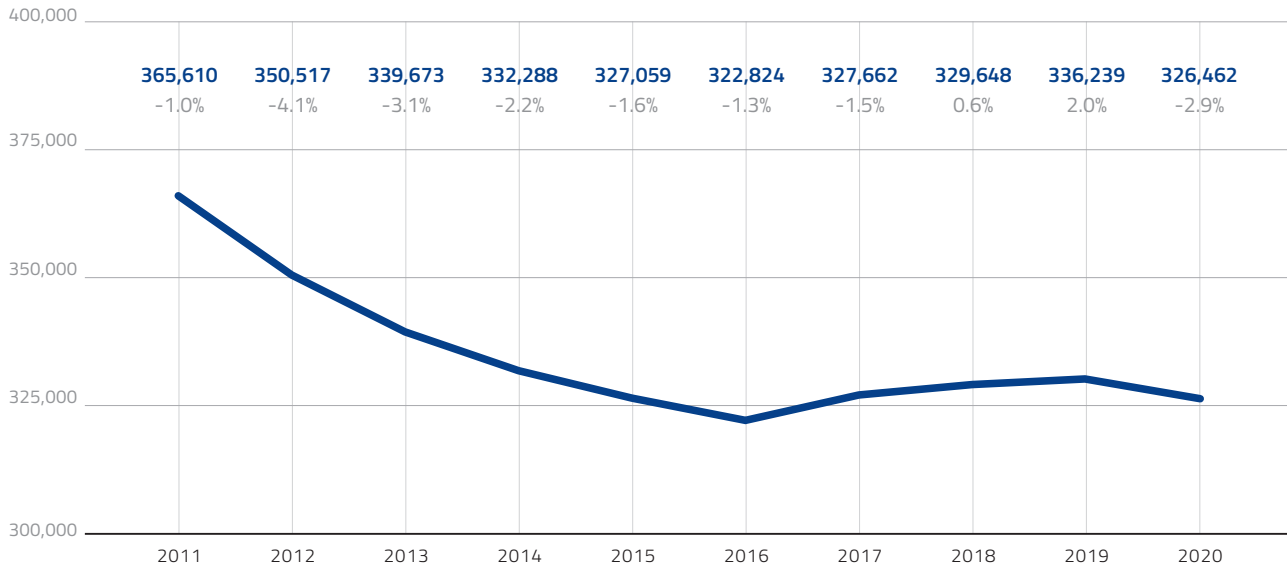
Direct employment in the EU steel industry: by country

Employment by absolute numbers

EMPLOYMENT: EVOLUTION

GRAPH ■ 2011-2020

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



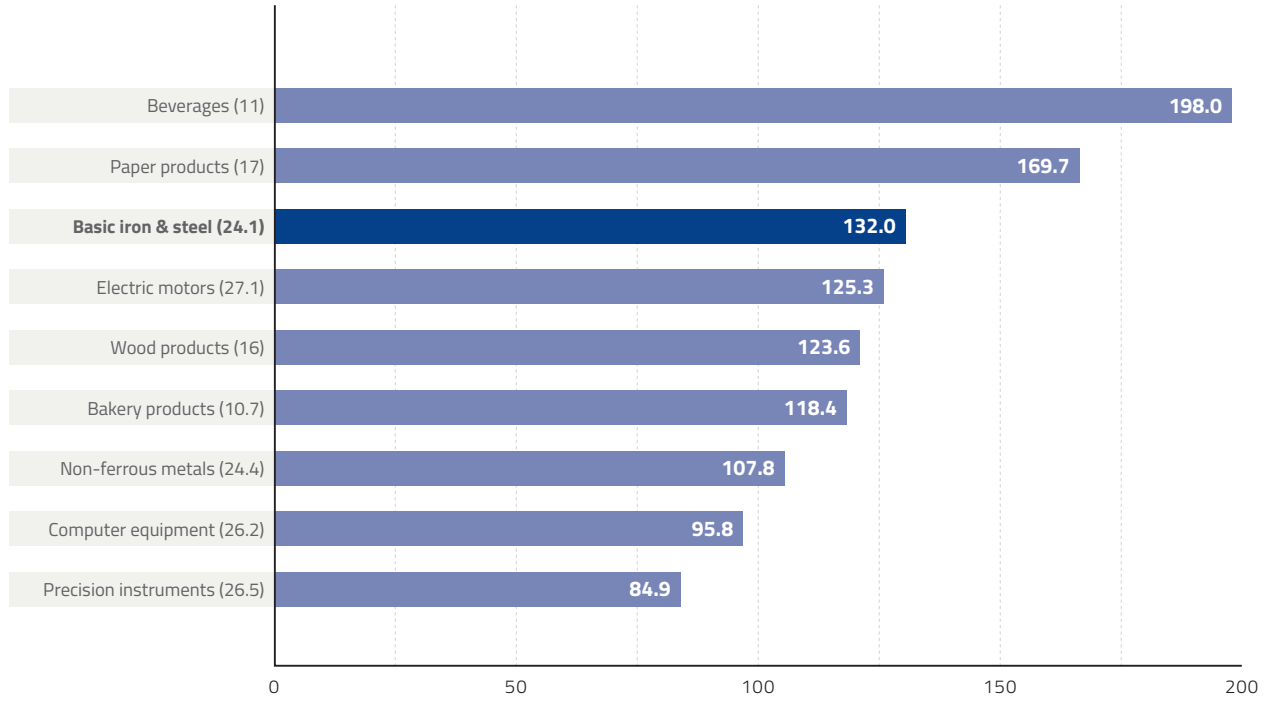
Gross Value Added: Comparison

Value added ▪ in € '000,000

VALUE OF PRODUCTION COMPARED WITH OTHER EU INDUSTRIES

CHART ▪ 2020

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 ▪ 2020

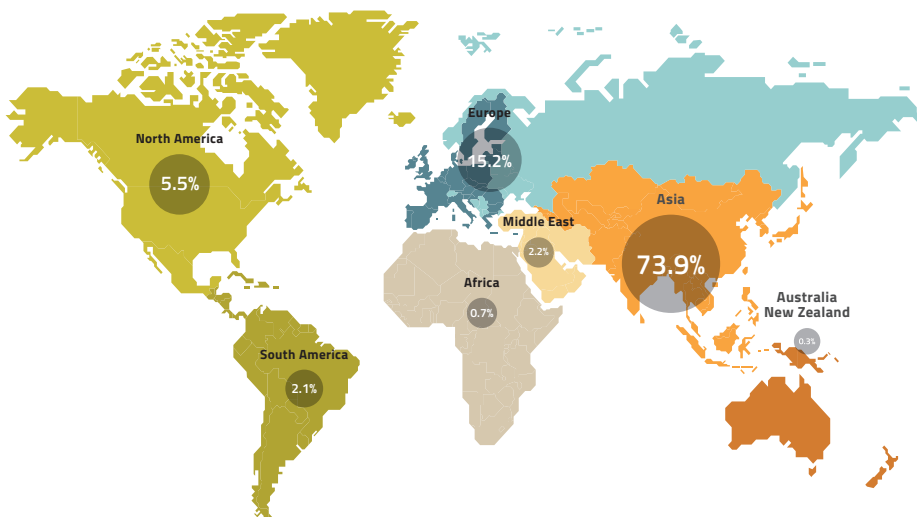
SOURCE: EUROFER

| | | % shares |
|------------------------------|----------------|--------------|
| | 2020 | 2020 |
| Asia | 1,351.3 | 73.9% |
| ▶ of which China | 1,054.7 | 57.7% |
| ▶ of which India | 100.3 | 5.5% |
| ▶ of which Japan | 83.2 | 4.6% |
| Europe | 278.1 | 15.2% |
| ▶ of which European Union | 139.3 | 7.6% |
| ▶ of which CIS | 100 | 5.5% |
| North America | 101 | 5.5% |
| of which United States | 72.7 | 4.0% |
| South America | 38.2 | 2.1% |
| Middle East | 40.7 | 2.2% |
| Africa | 12.6 | 0.7% |
| Australia/New Zealand | 6.1 | 0.3% |
| WORLD | 1,828.2 | 100% |

MAP OF STEEL PRODUCTION BY REGION

MAP ▪ 2020

SOURCE: EUROFER



Crude steel production per country: EU

All qualities • in '000 metric tonnes

EU COUNTRIES IN DESCENDING ORDER OF CRUDE STEEL PRODUCTION

TABLE • 2020

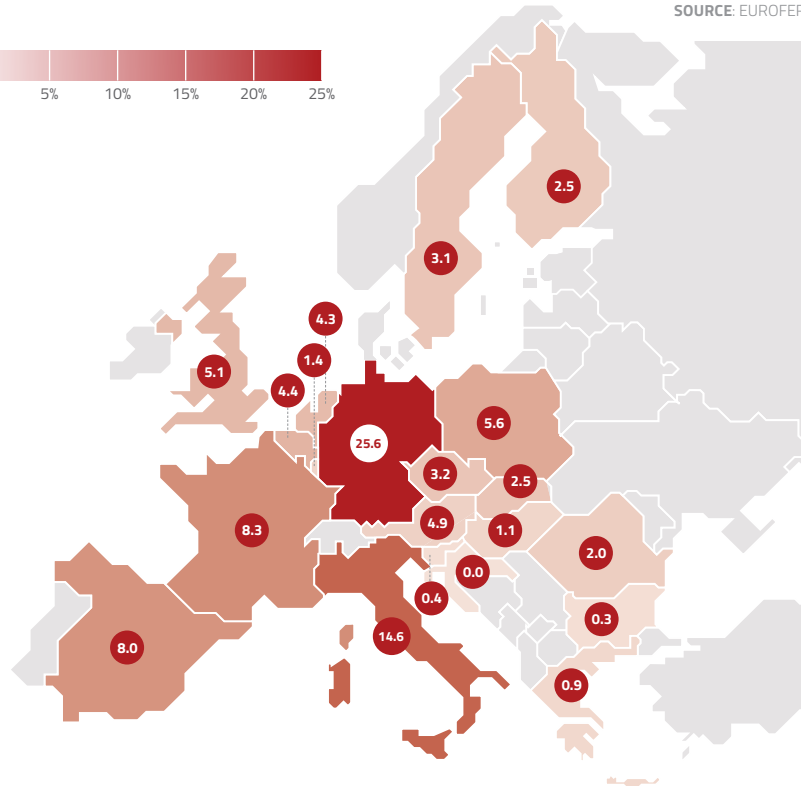
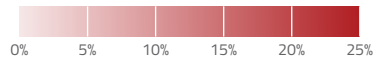
SOURCE: EUROFER

| | 2020 | % shares 2020 |
|-------------------|----------------|------------------|
| 1 GERMANY | 35,658 | 25.6% |
| 2 ITALY | 20,379 | 14.6% |
| 3 FRANCE | 11,596 | 8.3% |
| 4 SPAIN | 11,142 | 8.0% |
| 5 POLAND | 7,856 | 5.6% |
| 6 UNITED KINGDOM | 7,099 | 5.1% |
| 7 AUSTRIA | 6,765 | 4.9% |
| 8 BELGIUM | 6,119 | 4.4% |
| 9 NETHERLANDS | 6,054 | 4.3% |
| 10 CZECH REPUBLIC | 4,450 | 3.2% |
| 11 SWEDEN | 4,383 | 3.1% |
| 12 FINLAND | 3,498 | 2.5% |
| 13 SLOVAKIA | 3,444 | 2.5% |
| 14 ROMANIA | 2,790 | 2.0% |
| 15 OTHERS | 2,203 | 1.6% |
| 16 LUXEMBOURG | 1,886 | 1.4% |
| 17 HUNGARY | 1,513 | 1.1% |
| 18 GREECE | 1,308 | 0.9% |
| 19 SLOVENIA | 623 | 0.4% |
| 20 BULGARIA | 484 | 0.3% |
| 21 CROATIA | 45 | 0.0% |
| TOTAL | 139,295 | 100% |

EU COUNTRIES SHOWN BY RELATIVE SIZE OF CRUDE STEEL PRODUCTION

MAP • 2020

SOURCE: EUROFER



Crude steel production per country: EU

All qualities • in '000 metric tonnes

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CRUDE STEEL OUTPUT PER COUNTRY

TABLE • 2016 – 2020

SOURCE: EUROFER

| | 2016 | 2017 | 2018 | 2019 | 2020 | % shares 2020 |
|----------------|----------------|----------------|----------------|----------------|----------------|------------------|
| AUSTRIA | 7,438 | 8,135 | 6,885 | 7,424 | 6,765 | 4.9% |
| BELGIUM | 7,687 | 7,842 | 7,980 | 7,760 | 6,119 | 4.4% |
| BULGARIA | 527 | 652 | 666 | 566 | 484 | 0.3% |
| CROATIA | 0 | 0 | 136 | 69 | 45 | 0.0% |
| CZECH REPUBLIC | 5,305 | 4,686 | 4,938 | 4,550 | 4,450 | 3.2% |
| FINLAND | 4,101 | 4,003 | 4,146 | 3,473 | 3,498 | 2.5% |
| FRANCE | 14,413 | 15,506 | 15,385 | 14,451 | 11,596 | 8.3% |
| GERMANY | 42,080 | 43,297 | 42,435 | 39,627 | 35,658 | 25.6% |
| GREECE | 1,158 | 1,359 | 1,467 | 1,350 | 1,308 | 0.9% |
| HUNGARY | 1,279 | 1,901 | 1,989 | 1,769 | 1,513 | 1.1% |
| ITALY | 23,373 | 24,068 | 24,532 | 23,190 | 20,379 | 14.6% |
| LUXEMBOURG | 2,175 | 2,172 | 2,228 | 2,119 | 1,886 | 1.4% |
| NETHERLANDS | 6,917 | 6,781 | 6,813 | 6,657 | 6,054 | 4.3% |
| POLAND | 8,940 | 10,332 | 10,167 | 8,956 | 7,856 | 5.6% |
| ROMANIA | 3,276 | 3,361 | 3,550 | 3,448 | 2,790 | 2.0% |
| SLOVAKIA | 4,808 | 4,980 | 4,947 | 3,931 | 3,444 | 2.5% |
| SLOVENIA | 644 | 673 | 692 | 669 | 623 | 0.4% |
| SPAIN | 13,643 | 14,434 | 14,299 | 13,503 | 11,142 | 8.0% |
| SWEDEN | 4,595 | 4,692 | 4,632 | 4,699 | 4,383 | 3.1% |
| UNITED KINGDOM | 7,635 | 7,492 | 7,268 | 7,218 | 7,099 | 5.1% |
| OTHERS | 1,998 | 2,056 | 2,215 | 2,033 | 2,203 | 1.6% |
| TOTAL | 161,993 | 168,422 | 167,370 | 157,463 | 139,285 | 100% |

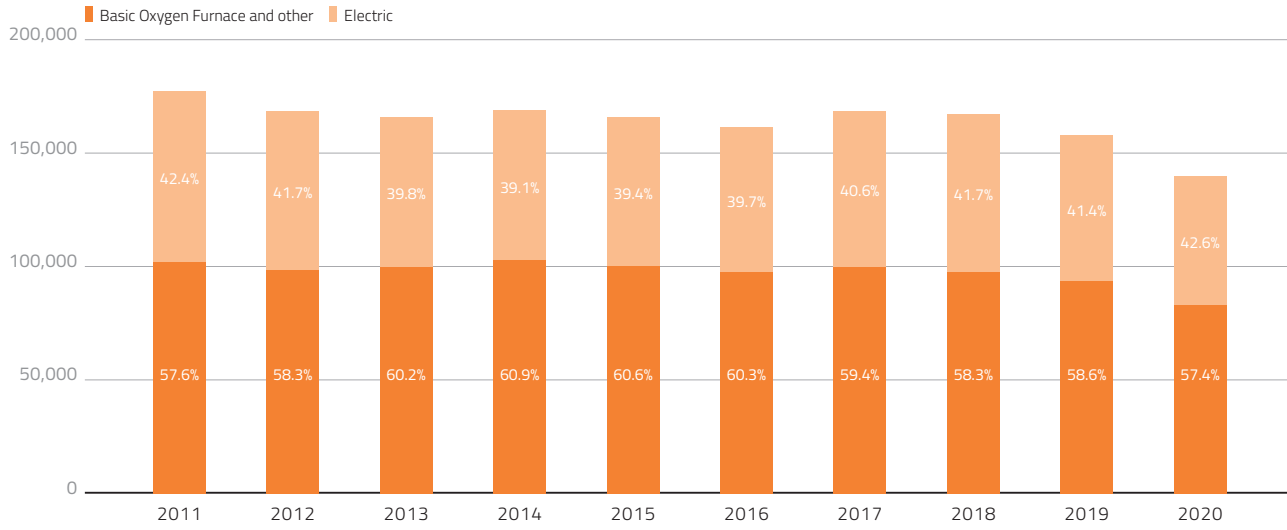
EU crude steel production: by process

EU CRUDE STEEL OUTPUT BY PRODUCTION ROUTE

TABLE, CHART • 2011 – 2020

SOURCE: EUROFER

| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | % shares 2020 |
|--------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|
| Basic Oxygen Furnace and other | 102,371 | 98,316 | 100,106 | 103,024 | 100,577 | 97,642 | 99,925 | 97,588 | 92,343 | 79,905 | 57.4% |
| Electric | 75,204 | 70,266 | 66,069 | 66,074 | 65,458 | 64,291 | 68,437 | 69,745 | 65,120 | 59,380 | 42.6% |
| Total Crude Steel | 177,576 | 168,583 | 166,175 | 169,098 | 166,035 | 161,933 | 168,362 | 167,333 | 157,463 | 139,285 | 100% |



EU crude steel production: by quality

All qualities • in '000 metric tonnes

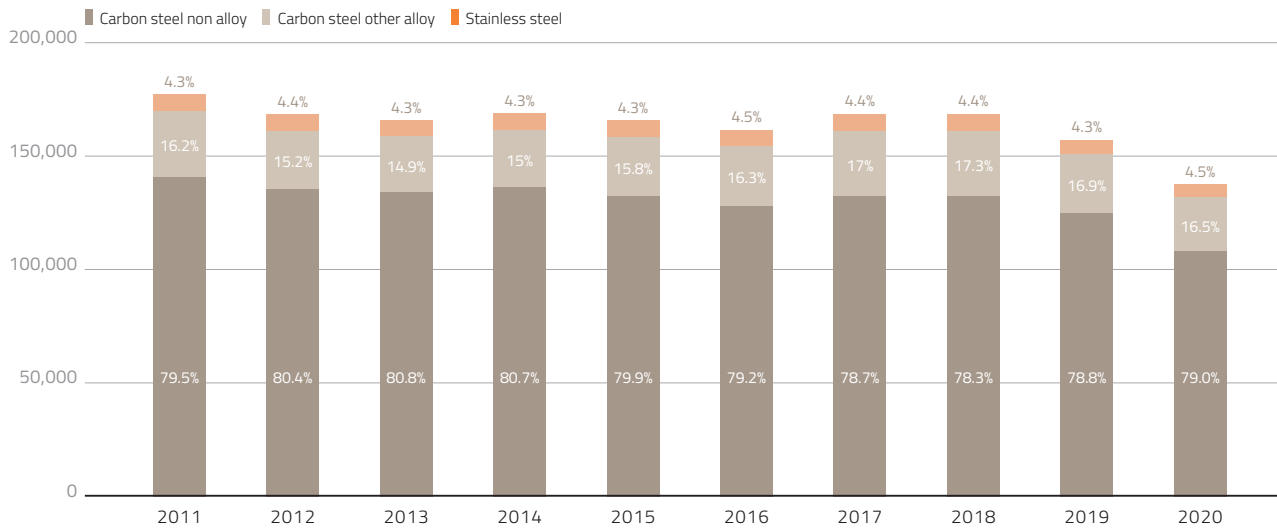
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EU CRUDE STEEL OUTPUT BY QUALITY

TABLE, CHART • 2011 – 2020

SOURCE: EUROFER

| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | % shares 2019 |
|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|
| Carbon steel non alloy | 141,204 | 135,559 | 134,281 | 136,472 | 132,673 | 128,270 | 132,439 | 130,976 | 124,017 | 110,057 | 79.0% |
| Carbon steel other alloy | 28,812 | 25,566 | 24,753 | 25,384 | 26,200 | 26,384 | 28,545 | 28,952 | 26,640 | 22,929 | 16.5% |
| Stainless steel | 7,559 | 7,458 | 7,142 | 7,242 | 7,163 | 7,279 | 7,377 | 7,405 | 6,805 | 6,309 | 4.5% |
| Total Crude Steel | 177,576 | 168,583 | 166,175 | 169,098 | 166,035 | 161,933 | 168,362 | 167,333 | 157,463 | 139,295 | 100% |



EU finished steel production: by product category

All qualities • in '000 metric tonnes

EU TOTAL FINISHED STEEL PRODUCTION BY PRODUCT

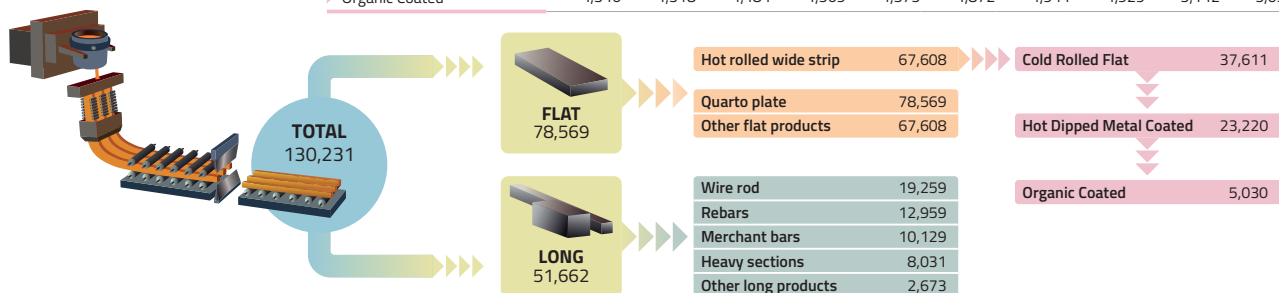
TABLE, CHART • 2011 – 2020

SOURCE: EUROFER

| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Total Hot Rolled | 161,068 | 152,412 | 150,303 | 152,200 | 150,862 | 150,333 | 154,102 | 154,956 | 145,652 | 130,231 |
| ▶ of which flat products | 97,095 | 92,592 | 92,835 | 94,380 | 92,465 | 92,280 | 95,554 | 95,268 | 88,793 | 78,569 |
| ▶ Quarto Plate | 13,187 | 12,350 | 11,021 | 11,595 | 10,963 | 10,580 | 11,207 | 11,249 | 10,331 | 9,378 |
| ▶ Hot Rolled Wide Strip | 82,151 | 78,719 | 80,358 | 81,281 | 80,024 | 80,015 | 82,535 | 82,184 | 76,761 | 67,608 |
| ▶ Other flat products | 1,756 | 1,523 | 1,456 | 1,504 | 1,477 | 1,686 | 1,812 | 1,836 | 1,700 | 1,583 |
| ▶ of which long products | 63,973 | 59,820 | 57,468 | 57,819 | 58,398 | 58,052 | 58,548 | 59,687 | 56,859 | 51,662 |
| ▶ Wire Rod | 22,452 | 20,652 | 20,138 | 20,159 | 20,843 | 20,389 | 21,184 | 21,830 | 20,907 | 19,259 |
| ▶ Rebars | 15,037 | 14,644 | 13,172 | 13,020 | 12,762 | 13,230 | 12,521 | 12,616 | 12,777 | 11,570 |
| ▶ Merchant Bars | 14,154 | 12,230 | 12,394 | 12,895 | 12,603 | 12,167 | 12,751 | 12,995 | 11,526 | 10,129 |
| ▶ Heavy Sections | 9,292 | 9,276 | 8,560 | 8,570 | 8,885 | 9,425 | 9,304 | 9,357 | 8,884 | 8,031 |
| ▶ Other long products | 3,038 | 3,018 | 3,204 | 3,175 | 3,304 | 2,841 | 2,789 | 2,889 | 2,834 | 2,673 |

Products obtained from upstream production – from Hot Rolled Wide Strip

| | | | | | | | | | | |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ▶ Cold Rolled Flat | 44,472 | 42,414 | 43,502 | 44,649 | 44,780 | 45,321 | 46,426 | 45,487 | 43,003 | 37,611 |
| ▶ Hot Dipped | 24,805 | 23,992 | 25,009 | 26,786 | 27,299 | 27,398 | 28,116 | 27,691 | 26,692 | 23,220 |
| ▶ Organic Coated | 4,346 | 4,318 | 4,484 | 4,569 | 4,575 | 4,872 | 4,944 | 4,929 | 5,142 | 5,030 |



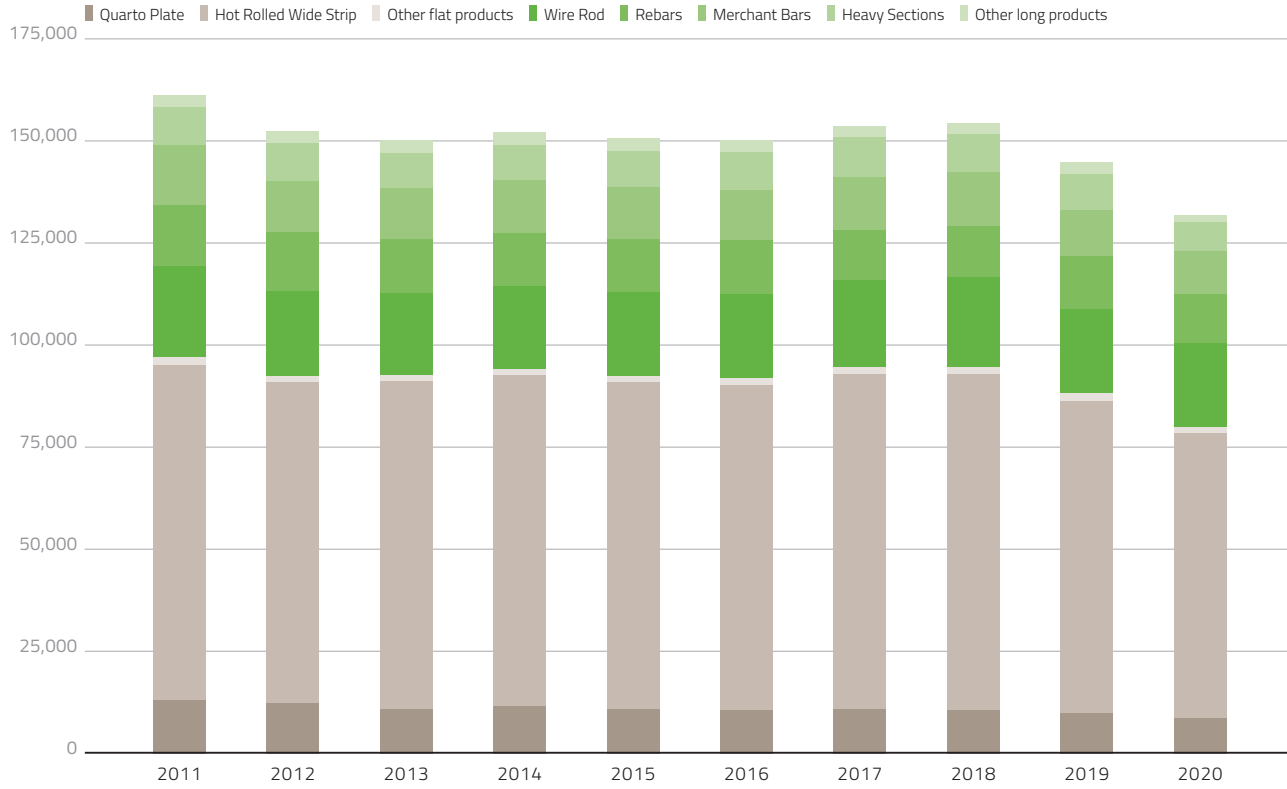
EU Hot Rolled finished steel production: by product category

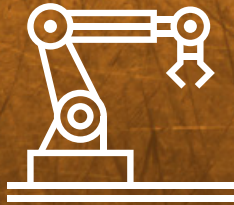
All qualities • in '000 metric tonnes

EU HOT ROLLED FINISHED STEEL PRODUCTION

CHART • 2011 – 2020

SOURCE: EUROFER





Steel use & market supply

Steel use & market supply

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Consumption: Real and apparent steel consumption

All products, all qualities

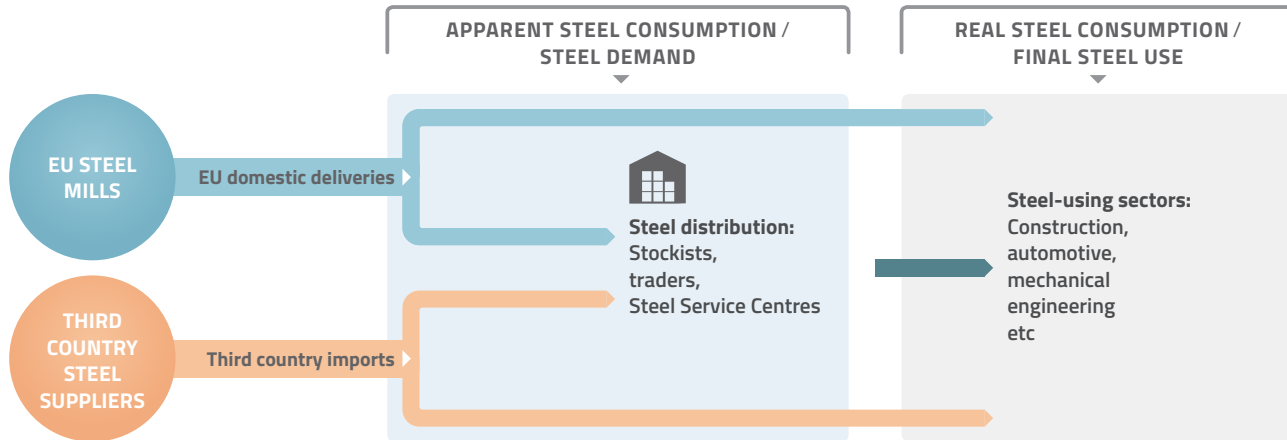
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ROUTES TO MARKET OR FINAL USE OF STEEL PRODUCTS

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.

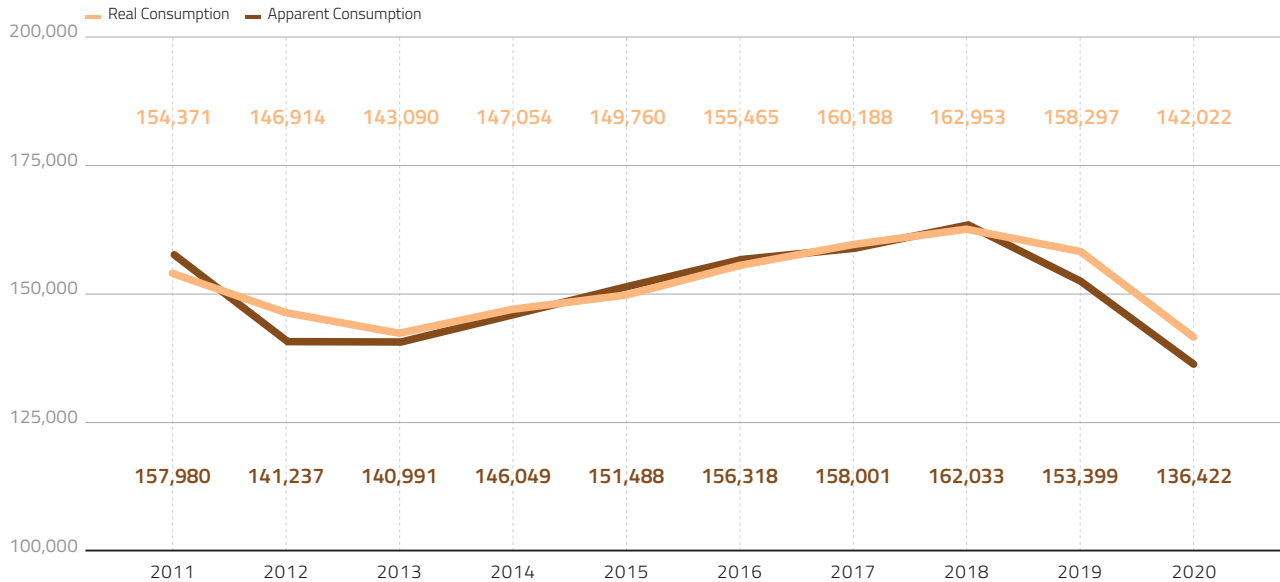
Consumption: Real & apparent steel consumption

All products, all qualities • in '000 metric tonnes

REAL VS APPARENT CONSUMPTION

GRAPH • 2011 – 2020

SOURCE: EUROFER



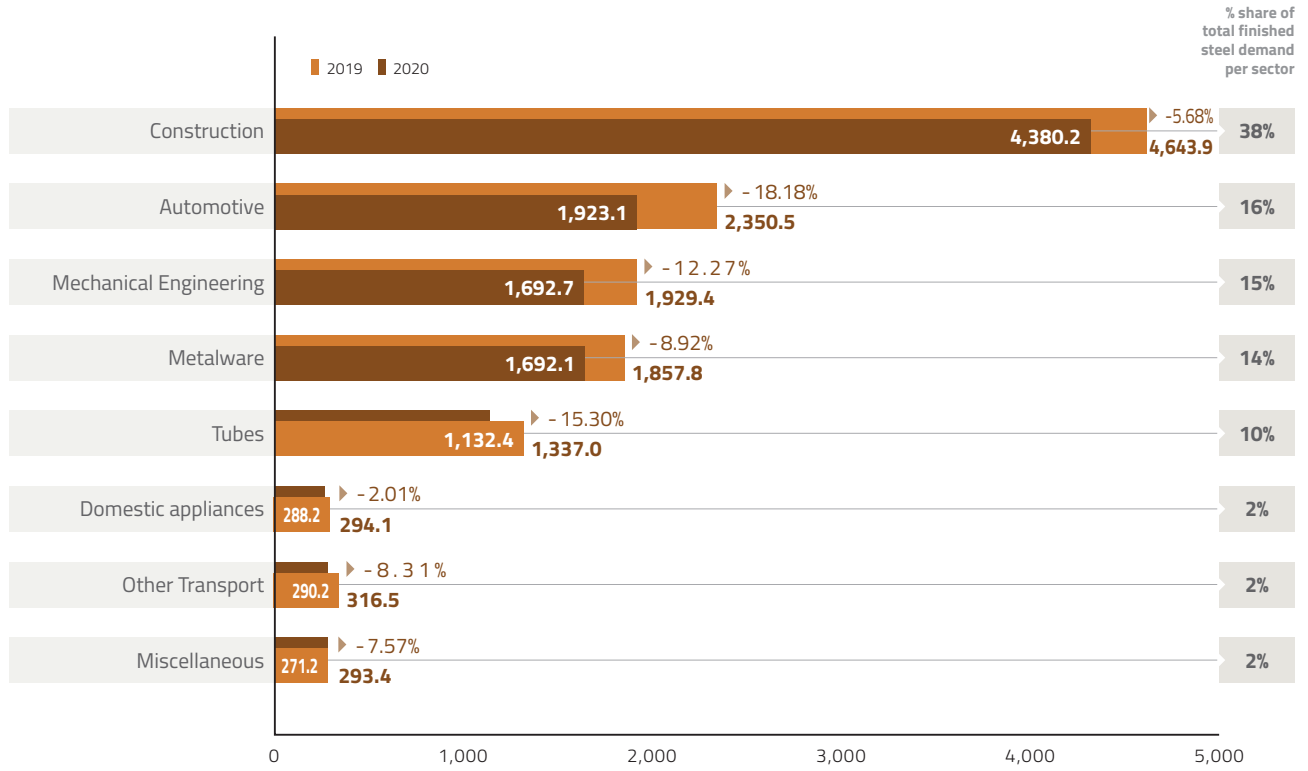
Consumption: by sector of economic activity

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

STEEL CONSUMPTION PER STEEL-USING SECTOR

CHART ▪ 2019 – 2020

SOURCE: EUROFER



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

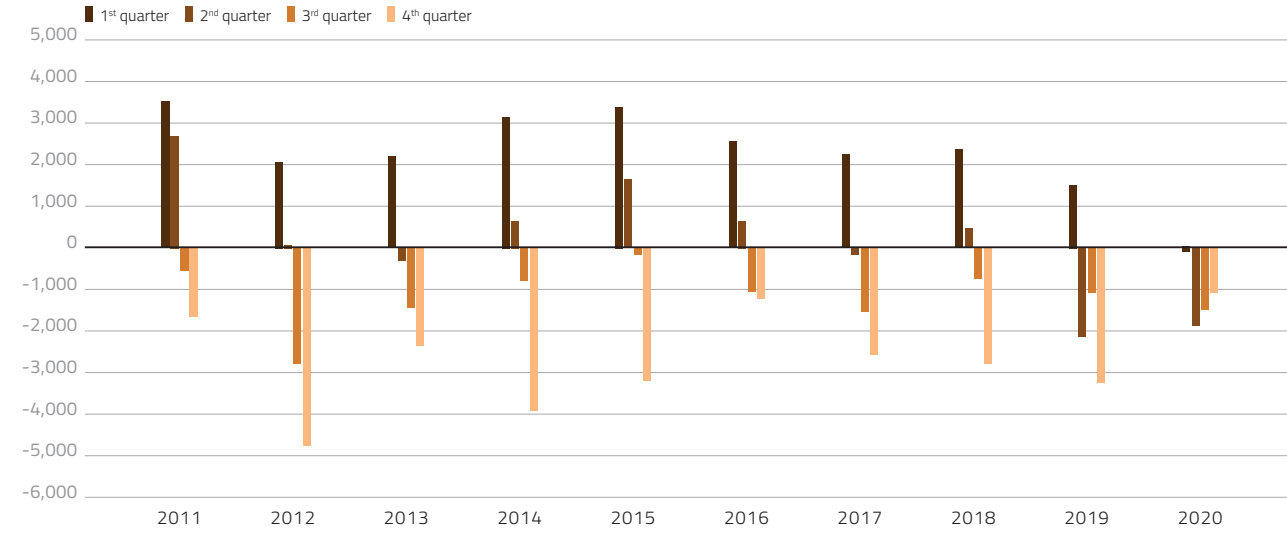
STOCK CHANGE

TABLE ■ 2011 – 2020

SOURCE: EUROFER

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

| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2019 |
|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 st quarter | 4,784 | 2,009 | 2,233 | 3,141 | 3,392 | 2,569 | 2,237 | 2,366 | 1,587 | -86 |
| 2 nd quarter | 3,385 | 39 | -342 | 669 | 1,695 | 685 | -248 | 405 | -2,180 | -2,861 |
| 3 rd quarter | -518 | -2,890 | -1,595 | -840 | -170 | -1,098 | -1,547 | -876 | -1,103 | -1,549 |
| 4 th quarter | -4,042 | -4,835 | -2,395 | -3,974 | -3,190 | -1,303 | -2,629 | -2,814 | -3,202 | -1,105 |



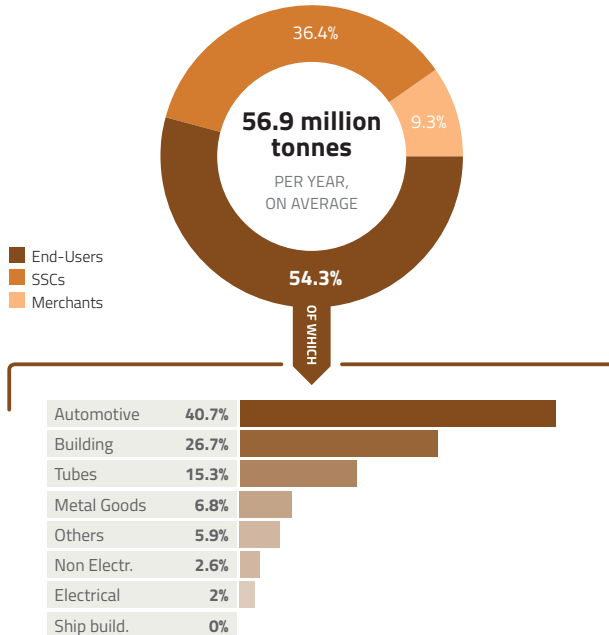
Consumption by steel-using sectors is calculated using the Steel-Weighted Industrial Production (SWIP) index, which is used to estimate changes in economic activity.

Specific flat product deliveries: Strip mill products & quarto plate

EU STRIP MILL PRODUCT DELIVERIES GRAPHIC • 2016/2020

SOURCE: EUROFER

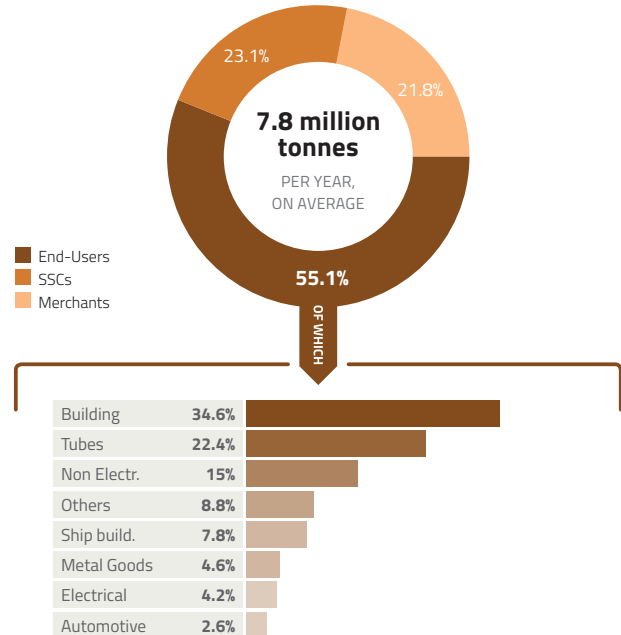
Strip mill products are flat products used in a variety of downstream applications.



EU QUARTO PLATE DELIVERIES GRAPHIC • 2016/2020

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 ■ 2011 – 2020

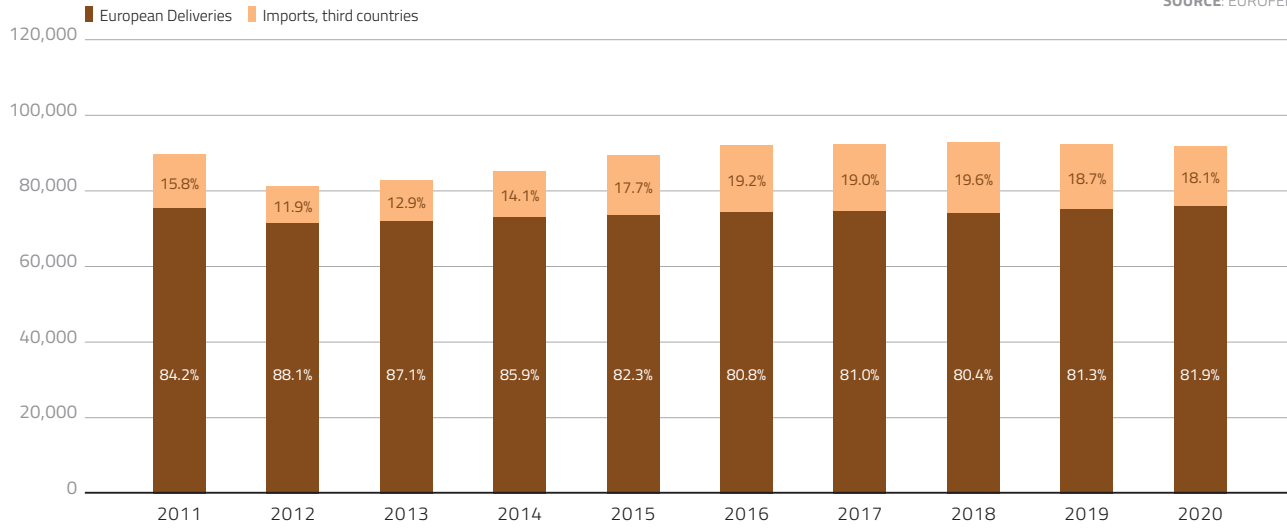
SOURCE: EUROFER

| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | % shares 2020 |
|-------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------------------|
| European Deliveries | 75,617 | 71,774 | 72,248 | 73,119 | 73,726 | 74,831 | 75,538 | 76,026 | 72,352 | 63,870 | 81.9% |
| Imports third countries | 14,213 | 9,701 | 10,705 | 12,039 | 15,819 | 17,790 | 17,752 | 18,533 | 16,662 | 14,102 | 18.1% |
| Market Supply | 89,830 | 81,475 | 82,953 | 85,158 | 89,545 | 92,621 | 93,290 | 94,559 | 89,014 | 77,972 | 100% |

TOTAL FLAT PRODUCTS

CHART ■ 2011 – 2020

SOURCE: EUROFER



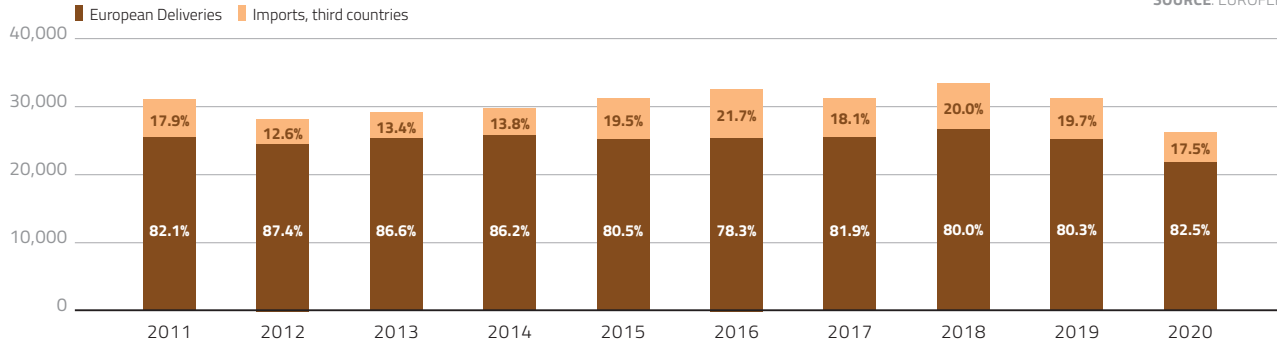
Market supply: Hot rolled flat & cold rolled sheet

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

HOT ROLLED FLAT PRODUCTS

CHART • 2011 – 2020

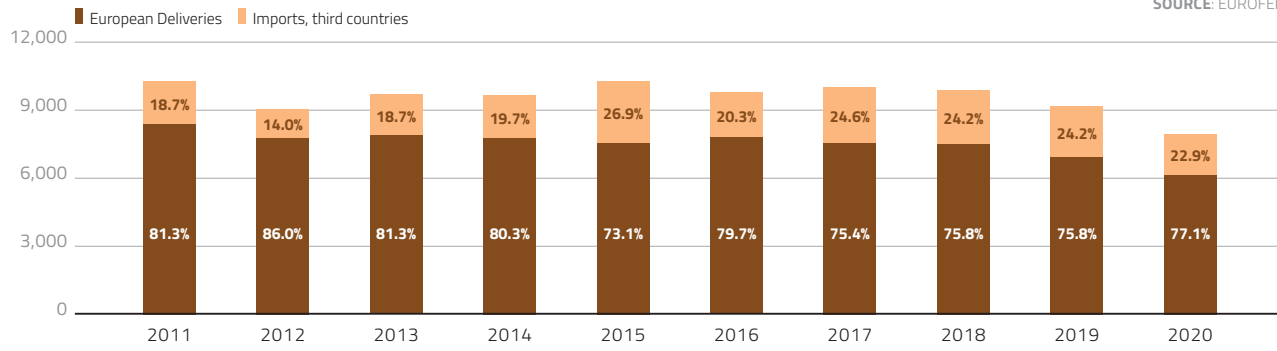
SOURCE: EUROFER



COLD ROLLED SHEETS

CHART • 2011 – 2020

SOURCE: EUROFER



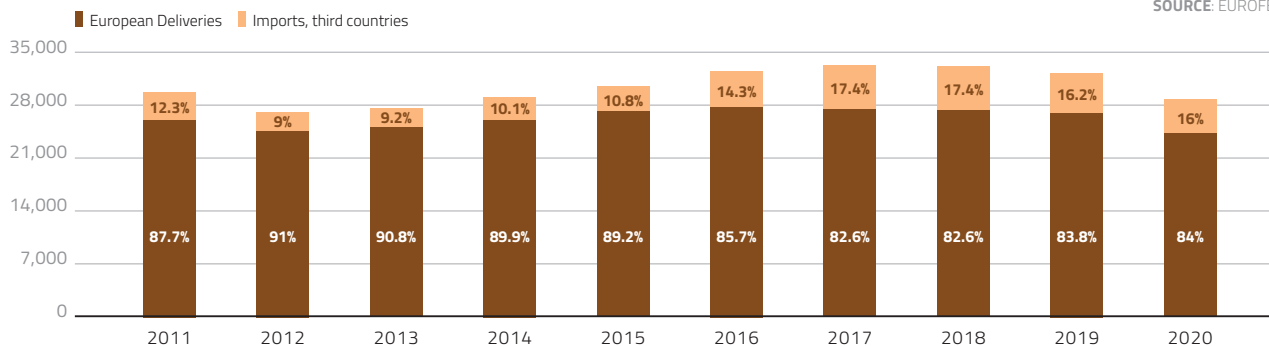
Market supply: Coated sheets & quarto plate

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

TOTAL COATED SHEETS

CHART • 2011 – 2020

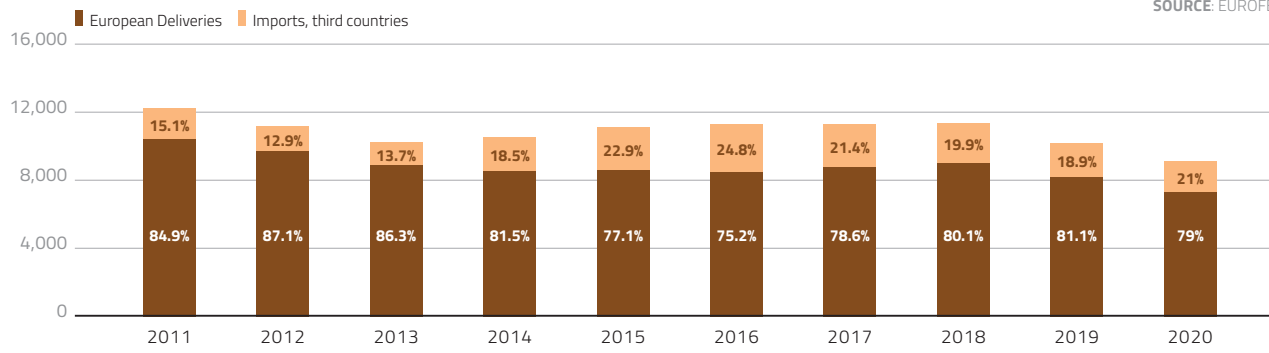
SOURCE: EUROFER



QUARTO PLATE

CHART • 2011 – 2020

SOURCE: EUROFER



Market supply: Total long products

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

32

TOTAL LONG PRODUCTS

TABLE ■ 2011 – 2020

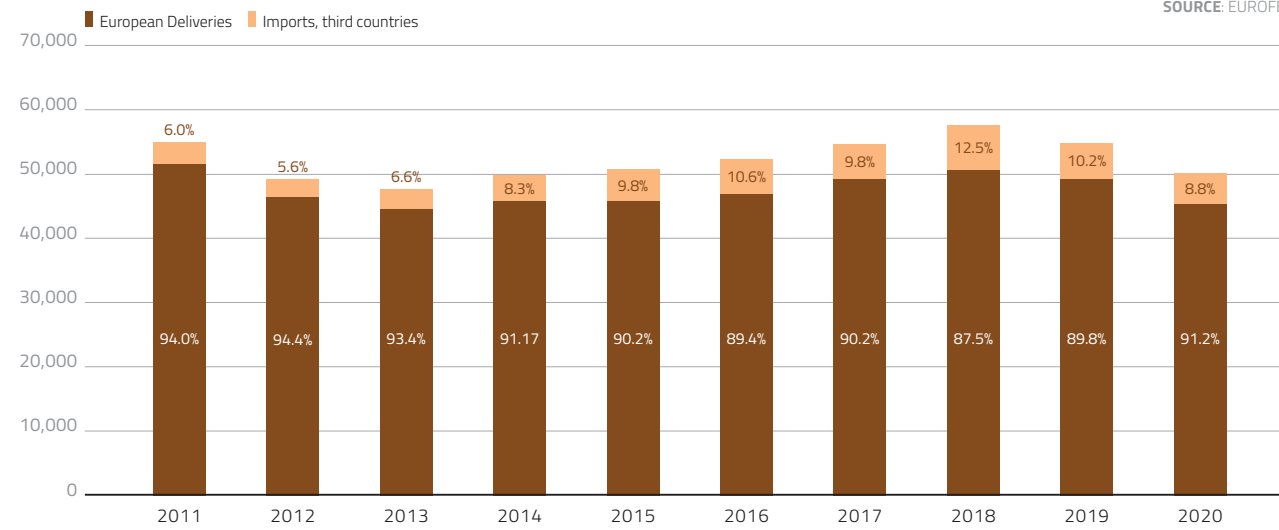
SOURCE: EUROFER

| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | % shares 2020 |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------------------|
| European Deliveries | 51,698 | 46,584 | 44,614 | 45,827 | 45,886 | 46,679 | 49,330 | 50,492 | 49,187 | 45,985 | 91.2% |
| Imports, third countries | 3,297 | 2,738 | 3,144 | 4,146 | 4,993 | 5,525 | 5,388 | 7,196 | 5,569 | 4,443 | 8.8% |
| Market Supply | 54,995 | 49,322 | 47,758 | 49,973 | 50,879 | 52,204 | 54,718 | 57,688 | 54,756 | 50,428 | 100% |

TOTAL LONG PRODUCTS

CHART ■ 2011 – 2020

SOURCE: EUROFER



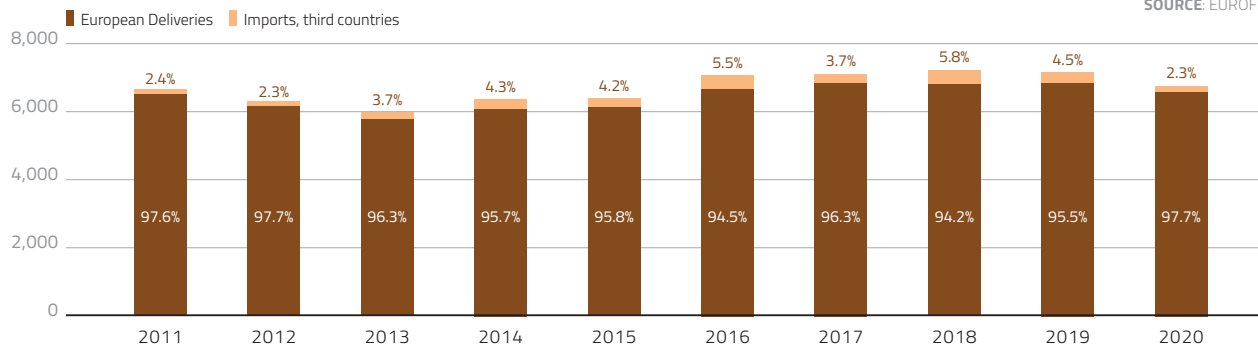
Market supply: Beams & rebar

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

BEAMS

CHART ■ 2011 – 2020

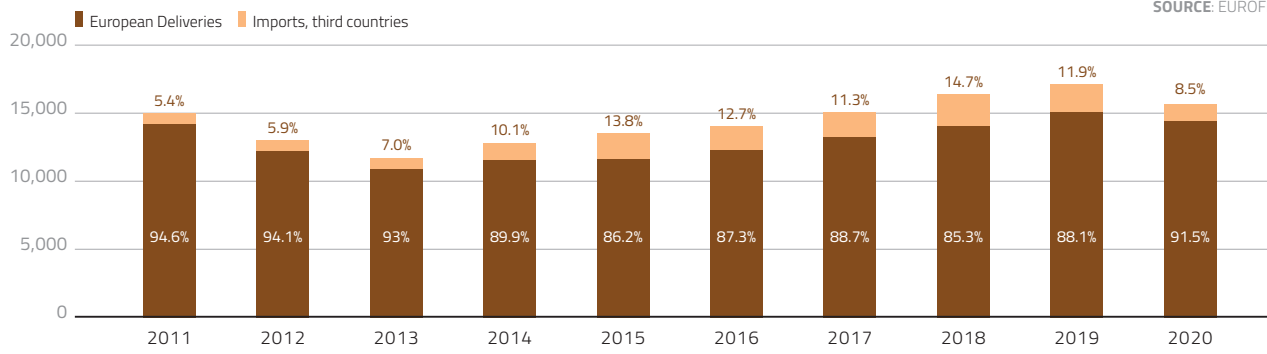
SOURCE: EUROFER



REBAR, INCLUDING DEFORMED RODS

CHART ■ 2011 – 2020

SOURCE: EUROFER



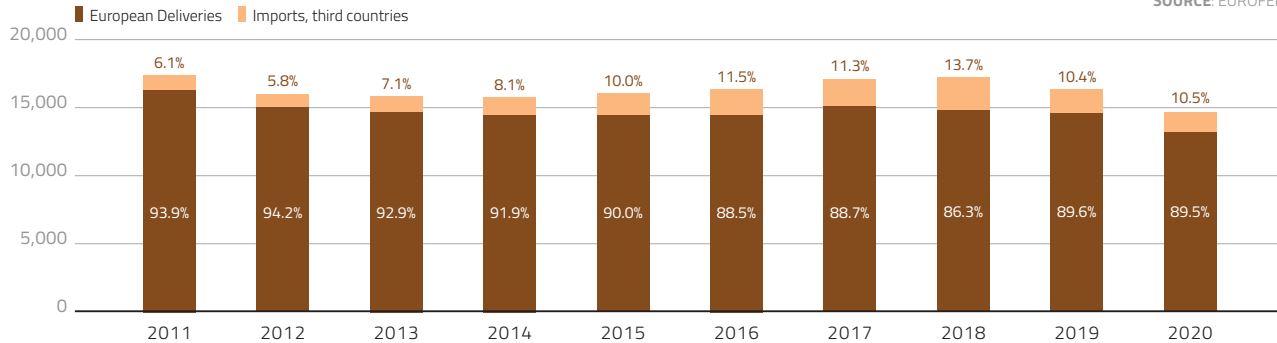
Market supply: Wire rod & merchant bar

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

WIRE ROD, EXCLUDING DEFORMED RODS

CHART • 2011 – 2020

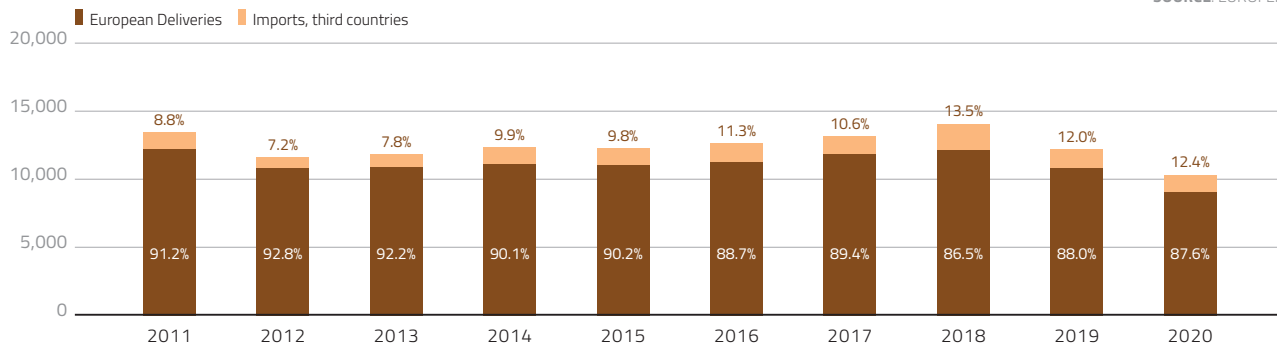
SOURCE: EUROFER



MERCHANT BARS

CHART • 2011 – 2020

SOURCE: EUROFER





International trade

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Imports into the EU: Total

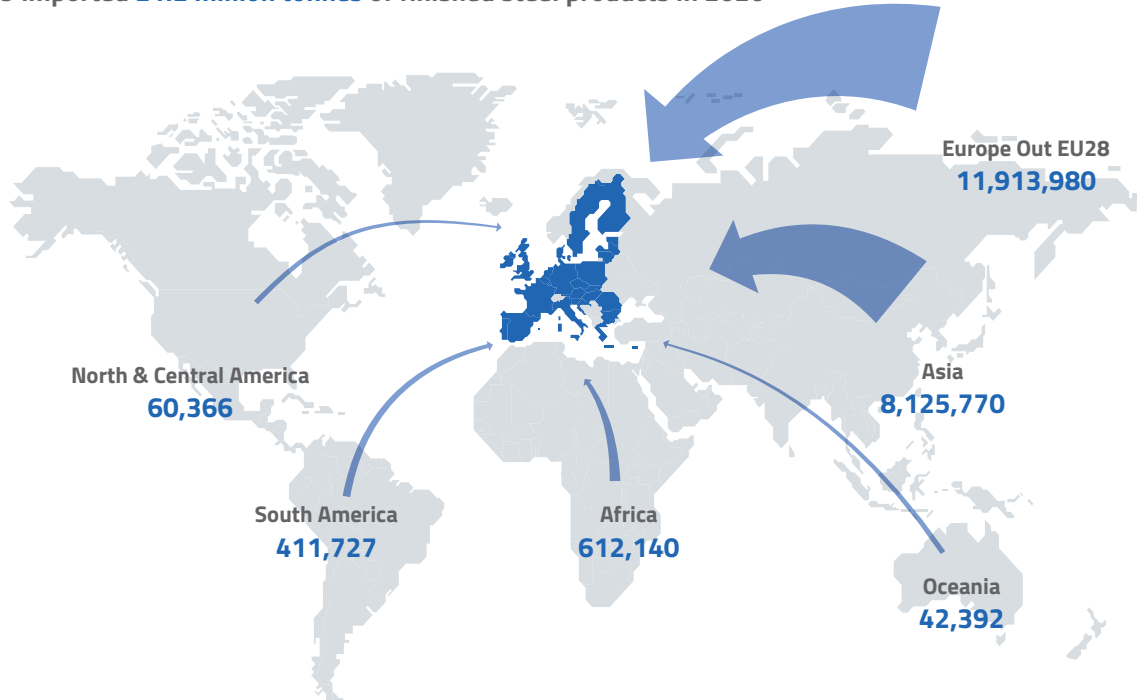
All qualities • in metric tonnes

TOTAL IMPORTS INTO THE EU

MAP • 2020

SOURCE: EUROFER

The EU imported **21.2 million tonnes** of finished steel products in 2020



Imports into the EU: Total

TOTAL IMPORTS INTO THE EU

TABLE ■ 2011 – 2020

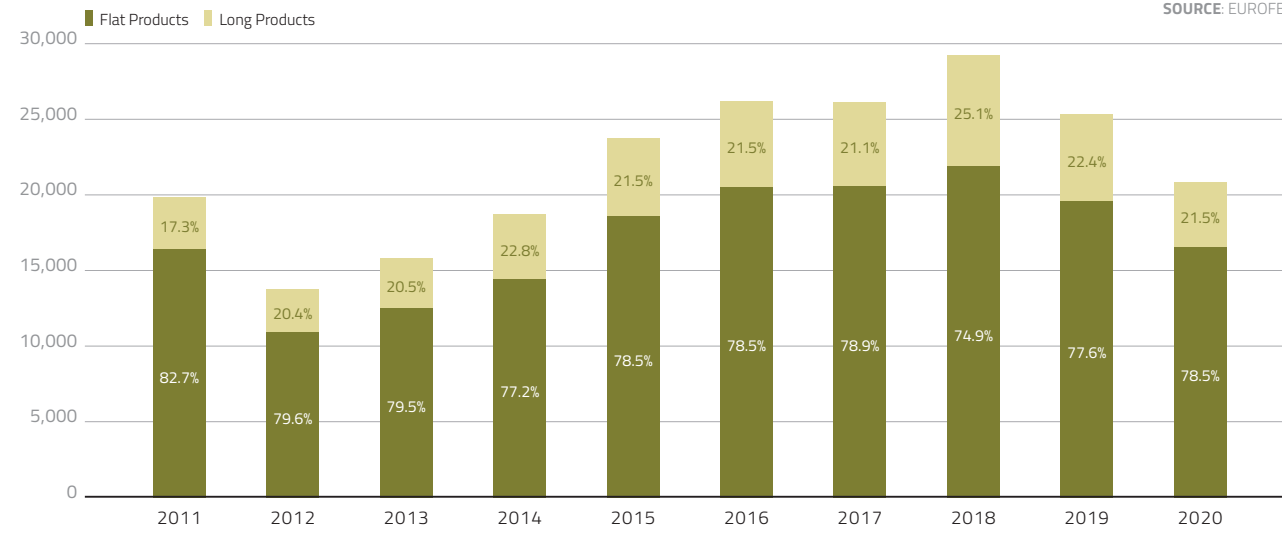
SOURCE: EUROFER

| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | % shares 2020 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------|
| Flat Products | 16,426 | 11,005 | 12,563 | 14,475 | 18,676 | 20,556 | 20,615 | 21,937 | 19,676 | 16,635 | 78,5% |
| Long Products | 3,434 | 2,827 | 3,244 | 4,277 | 5,101 | 5,638 | 5,503 | 7,341 | 5,696 | 4,545 | 21,5% |
| Finished Products | 19,860 | 13,833 | 15,807 | 18,753 | 23,777 | 26,194 | 26,118 | 29,277 | 25,371 | 21,180 | 100% |

TOTAL IMPORTS INTO THE EU

CHART ■ 2011 – 2020

SOURCE: EUROFER



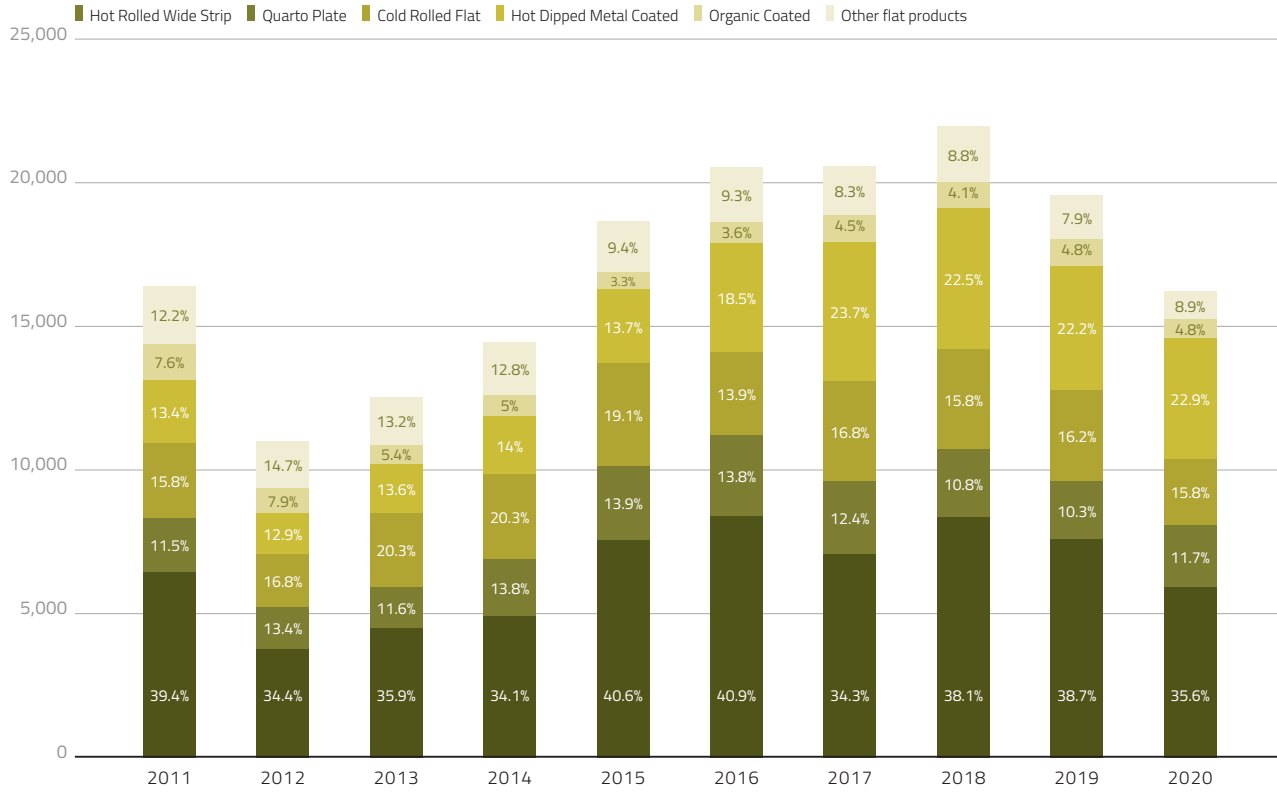
Imports into the EU: Flat products

All qualities • in '000 metric tonnes

FLAT PRODUCT IMPORTS INTO THE EU BY PRODUCT

CHART • 2011 – 2020

SOURCE: EUROFER



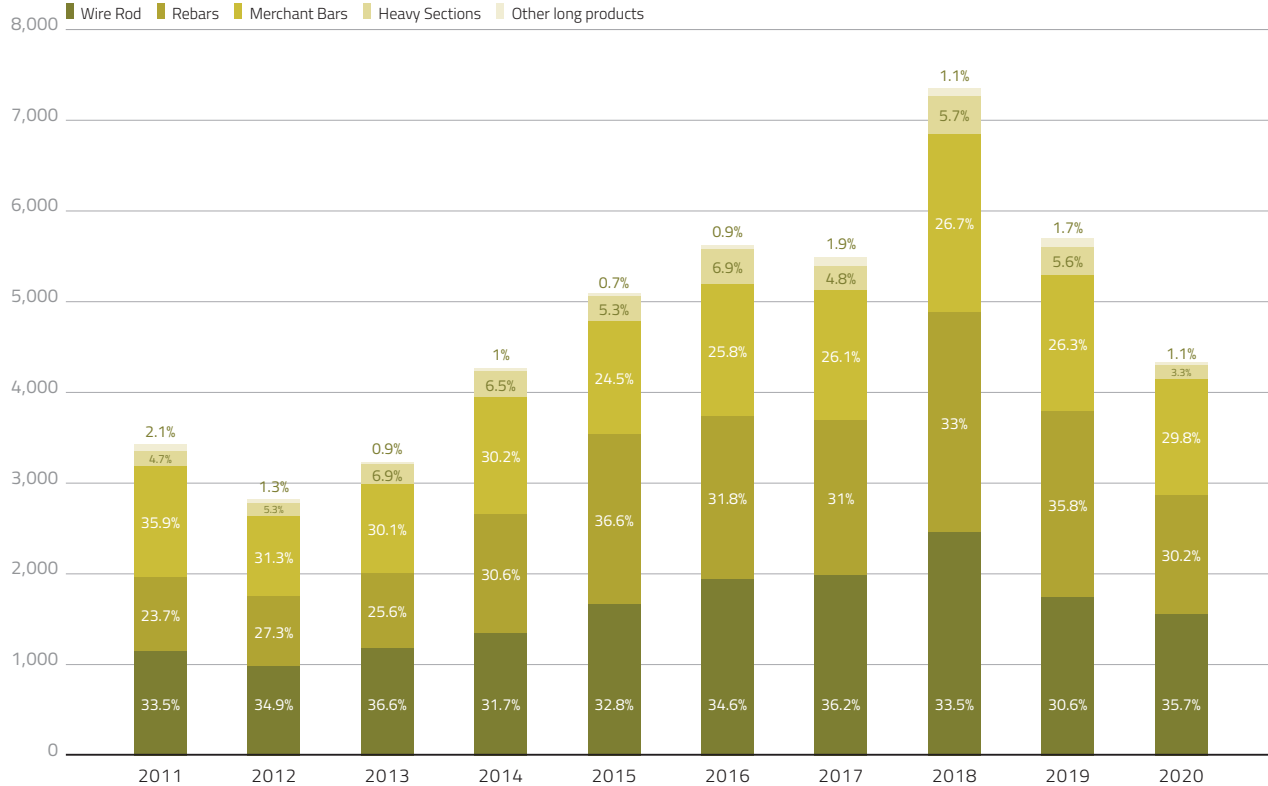
Imports into the EU: Long products

All qualities • in '000 metric tonnes

LONG PRODUCT IMPORTS INTO THE EU BY PRODUCT

CHART • 2011 – 2020

SOURCE: EUROFER



Imports: top 10 countries of origin

All qualities • in '000 metric tonnes

42

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

TABLE ■ 2011 – 2020

SOURCE: EUROFER

Countries ranked according to their 2020 order

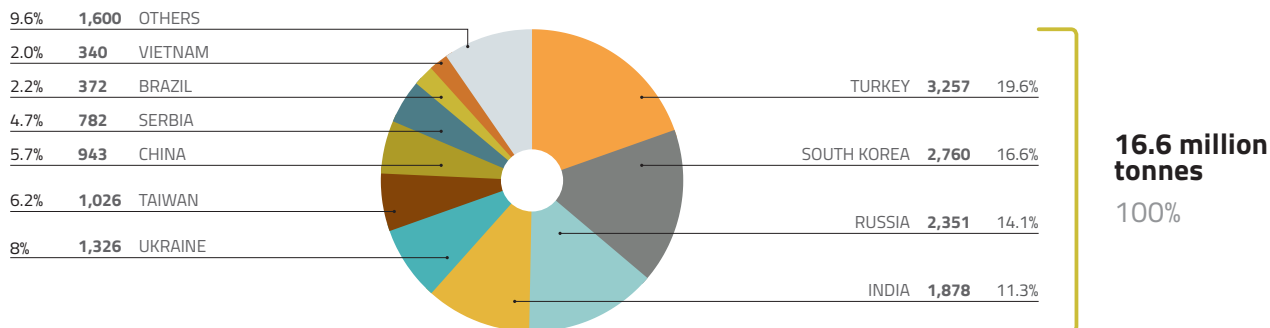
| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| TURKEY | 2,110 | 1,008 | 1,824 | 1,479 | 1,467 | 2,276 | 3,741 | 6,168 | 5,819 | 3,984 |
| RUSSIA | 2,141 | 2,456 | 2,706 | 2,765 | 3,490 | 3,541 | 2,404 | 3,698 | 3,039 | 3,213 |
| SOUTH KOREA | 1,410 | 1,203 | 1,391 | 1,519 | 2,021 | 2,725 | 3,131 | 3,423 | 2,959 | 2,874 |
| CHINA | 1,208 | 967 | 1,215 | 1,517 | 1,155 | 1,912 | 3,755 | 2,781 | 2,219 | 1,961 |
| INDIA | 2,807 | 1,839 | 2,050 | 2,278 | 2,532 | 3,072 | 2,209 | 1,945 | 1,808 | 1,661 |
| UKRAINE | 4,174 | 2,719 | 3,013 | 4,507 | 6,899 | 5,667 | 3,441 | 2,827 | 2,406 | 1,208 |
| TAIWAN | 551 | 356 | 583 | 681 | 454 | 779 | 1,231 | 1,749 | 1,338 | 1,043 |
| SERBIA | 851 | 227 | 196 | 280 | 580 | 582 | 775 | 1,072 | 1,122 | 796 |
| BELARUS | 252 | 271 | 235 | 349 | 740 | 709 | 527 | 528 | 616 | 656 |
| SWITZERLAND | 669 | 632 | 642 | 605 | 657 | 602 | 645 | 635 | 495 | 484 |
| OTHERS | 3,687 | 2,155 | 1,952 | 2,773 | 3,782 | 4,329 | 4,259 | 4,451 | 3,553 | 3,300 |
| TOTAL | 19,860 | 13,833 | 15,807 | 18,753 | 23,777 | 26,194 | 26,118 | 29,277 | 25,371 | 21,180 |

Imports: Top 10 countries of origin by product category

TOP 10 FLAT PRODUCTS IMPORTS

CHART • 2020

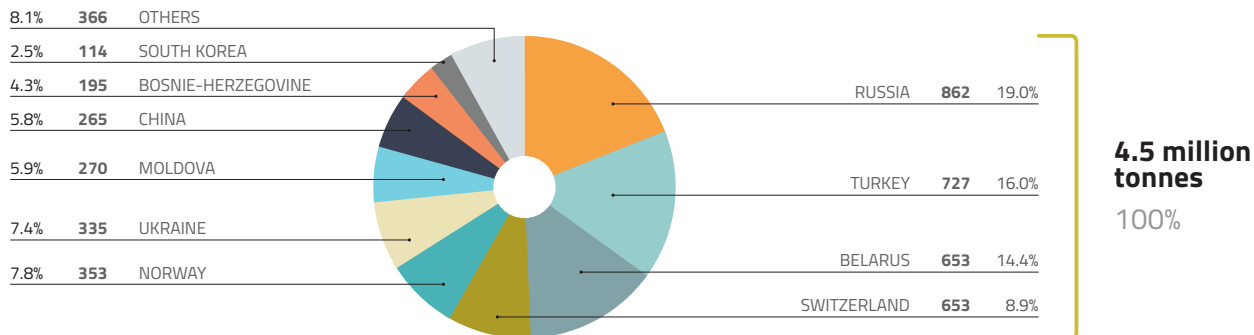
SOURCE: EUROFER



TOP 10 LONG PRODUCT IMPORTS

CHART • 2020

SOURCE: EUROFER



Exports into the EU: Total

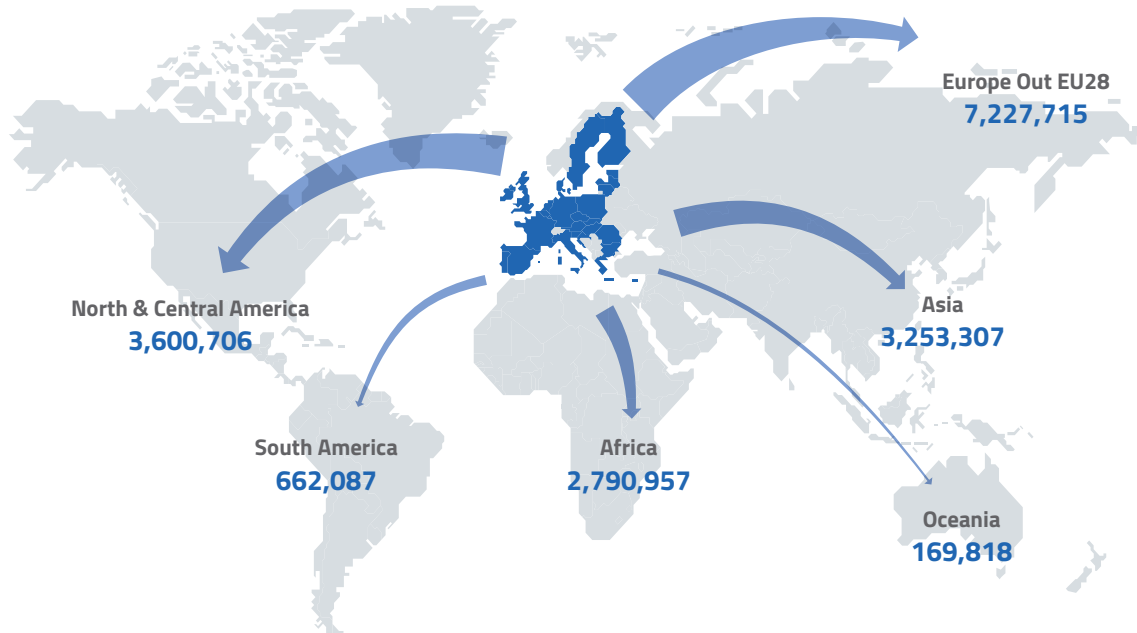
All qualities • in metric tonnes

TOTAL EXPORTS INTO THE EU

MAP • 2020

SOURCE: EUROFER

The EU exported **17.7 million tonnes** of finished steel products in 2020



Exports from the EU: Total

TOTAL EXPORTS FROM THE EU

TABLE ■ 2011 – 2020

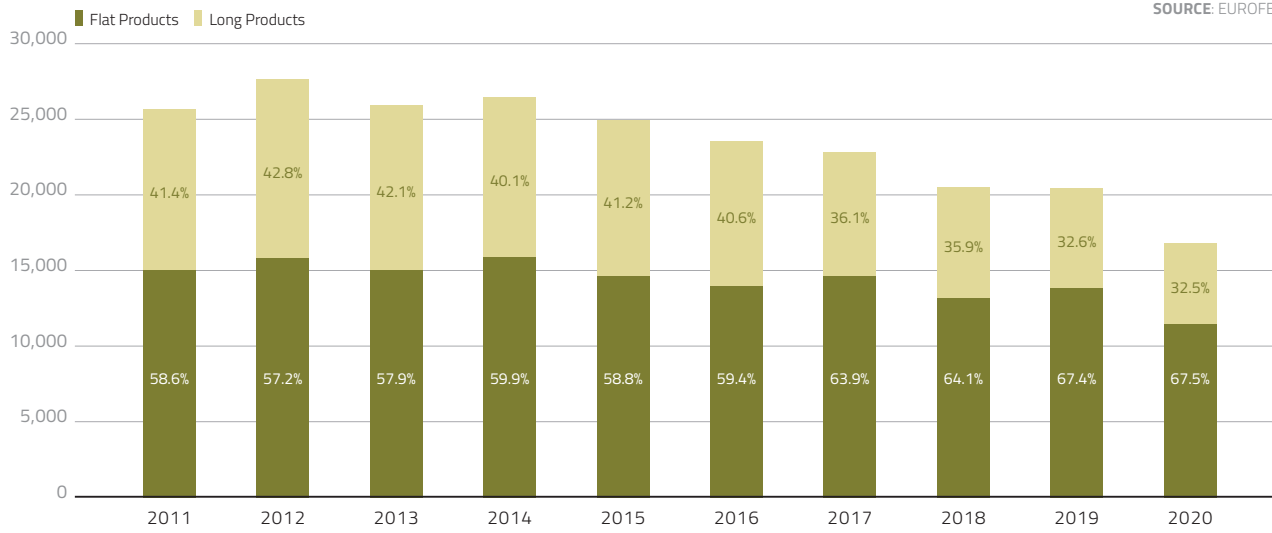
SOURCE: EUROFER

| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | % shares 2020 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------|
| Flat Products | 15,090 | 15,830 | 15,050 | 15,906 | 14,676 | 14,005 | 14,634 | 13,188 | 13,792 | 11,956 | 67.5% |
| Long Products | 10,661 | 11,857 | 10,932 | 10,627 | 10,281 | 9,578 | 8,266 | 7,376 | 6,677 | 5,750 | 32.5% |
| Finished Products | 25,751 | 27,687 | 25,983 | 26,533 | 24,957 | 23,583 | 22,901 | 20,563 | 20,468 | 17,706 | 100% |

TOTAL EXPORTS FROM THE EU

CHART ■ 2011 – 2020

SOURCE: EUROFER



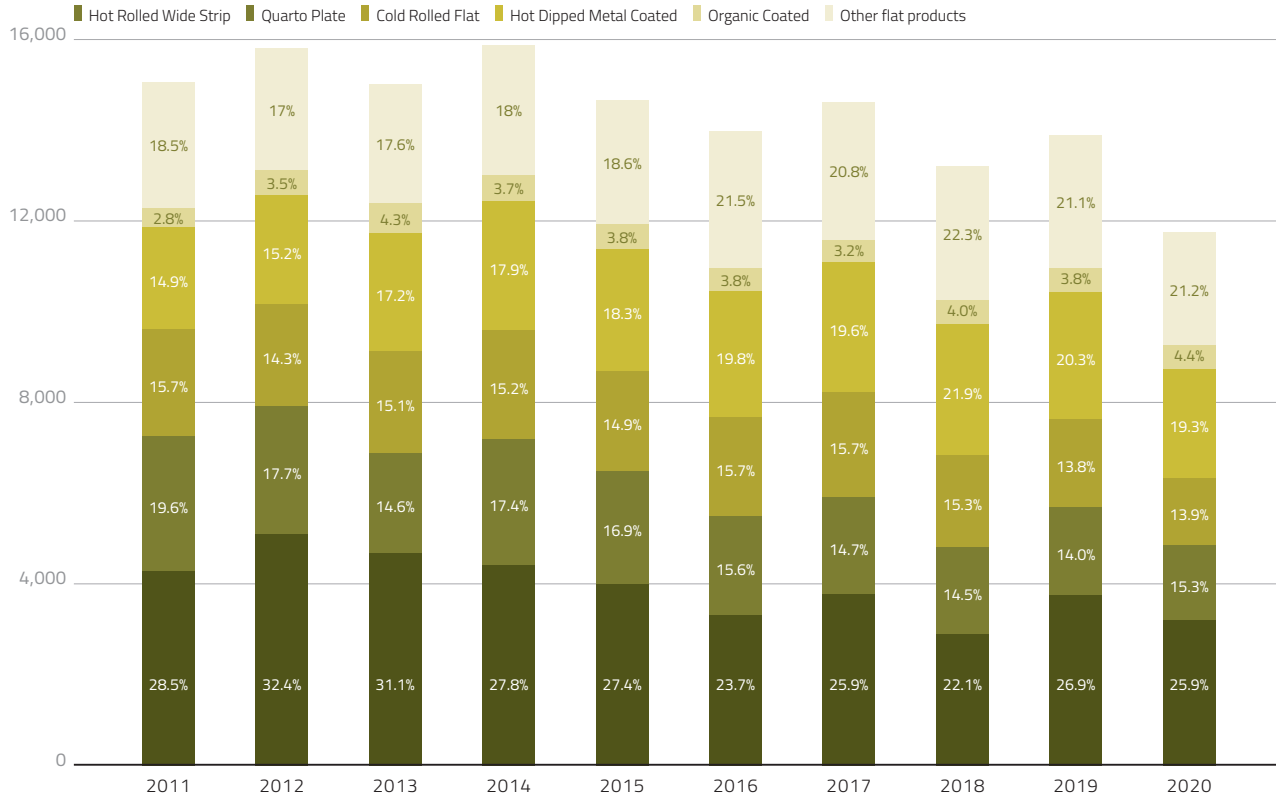
Exports from the EU: Flat products

All qualities • in '000 metric tonnes

FLAT PRODUCT EXPORTS FROM THE EU BY PRODUCT

CHART • 2011 – 2020

SOURCE: EUROFER



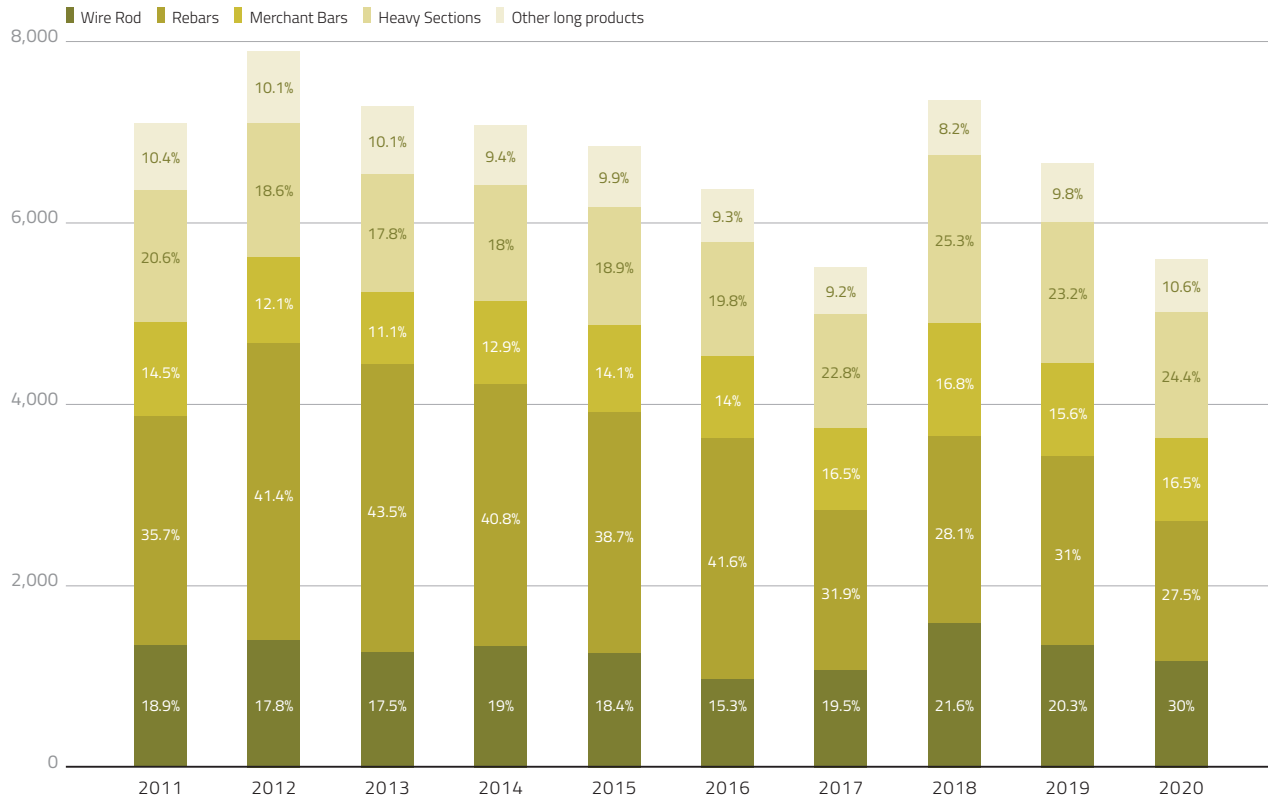
Exports from the EU: Long products

All qualities • in '000 metric tonnes

LONG PRODUCT EXPORTS FROM THE EU BY PRODUCT

CHART • 2011 – 2020

SOURCE: EUROFER



Export destinations: Top 10 countries

All qualities • in '000 metric tonnes

48

TOP 10 EXPORTERS DESTINATIONS FOR ALL FINISHED PRODUCTS

TABLE ■ 2011 – 2020

SOURCE: EUROFER

Countries ranked according to their 2018 order

| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| TURKEY | 3,959 | 4,279 | 4,546 | 4,090 | 4,370 | 4,287 | 4,668 | 3,197 | 3,898 | 3,399 |
| U.S.A. | 2,490 | 2,840 | 2,961 | 4,124 | 3,760 | 3,229 | 3,397 | 3,373 | 2,537 | 1,720 |
| SWITZERLAND | 1,996 | 1,917 | 1,883 | 1,834 | 1,709 | 1,842 | 1,890 | 1,877 | 1,708 | 1,568 |
| ALGERIA | 3,492 | 4,489 | 4,574 | 4,978 | 4,419 | 3,586 | 1,663 | 934 | 1,275 | 719 |
| MEXICO | 869 | 988 | 794 | 756 | 604 | 745 | 897 | 1,227 | 1,026 | 982 |
| CHINA | 962 | 896 | 958 | 1,104 | 906 | 1,014 | 1,140 | 1,106 | 906 | 1,060 |
| CANADA | 615 | 555 | 448 | 648 | 805 | 667 | 602 | 714 | 757 | 793 |
| RUSSIA | 1,003 | 995 | 946 | 930 | 588 | 503 | 955 | 559 | 620 | 387 |
| MOROCCO | 498 | 620 | 793 | 642 | 598 | 677 | 642 | 598 | 613 | 524 |
| EGYPT | 257 | 445 | 334 | 325 | 428 | 469 | 481 | 542 | 601 | 696 |
| OTHERS | 9,610 | 9,663 | 7,746 | 7,102 | 6,770 | 6,564 | 6,566 | 6,436 | 6,527 | 5,858 |
| TOTAL | 25,751 | 27,687 | 25,983 | 26,533 | 24,957 | 23,583 | 22,901 | 20,563 | 20,468 | 17,706 |

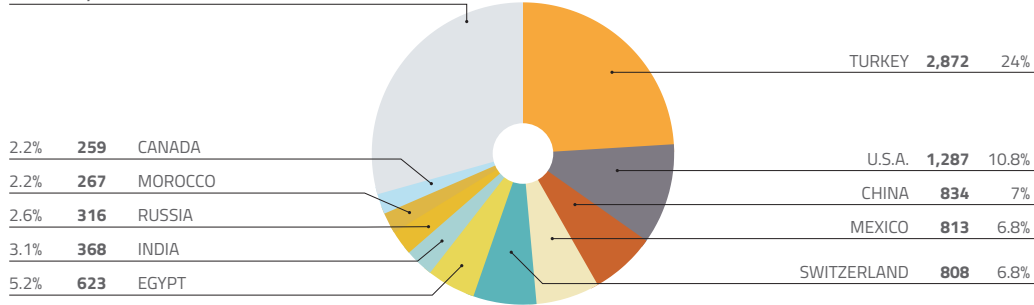
Export destinations: by product category

TOP FLAT PRODUCT EXPORT DESTINATIONS

CHART • 2020

SOURCE: EUROFER

29.3% 3,509 OTHERS



11.9 million tonnes

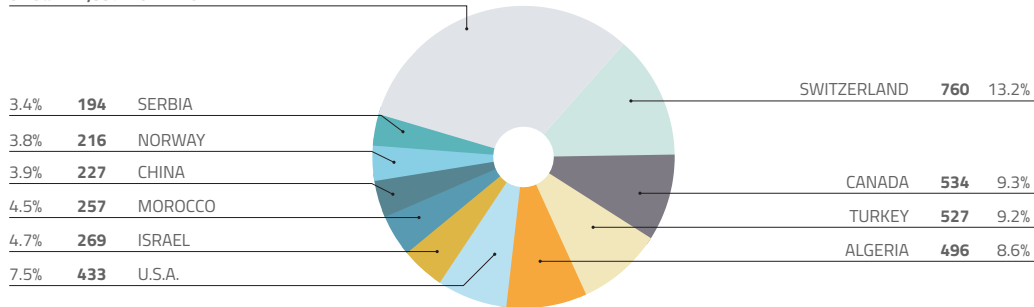
100%

TOP LONG PRODUCT EXPORT DESTINATIONS

CHART • 2020

SOURCE: EUROFER

31.9% 1,837 OTHERS



5.7 million tonnes

100%

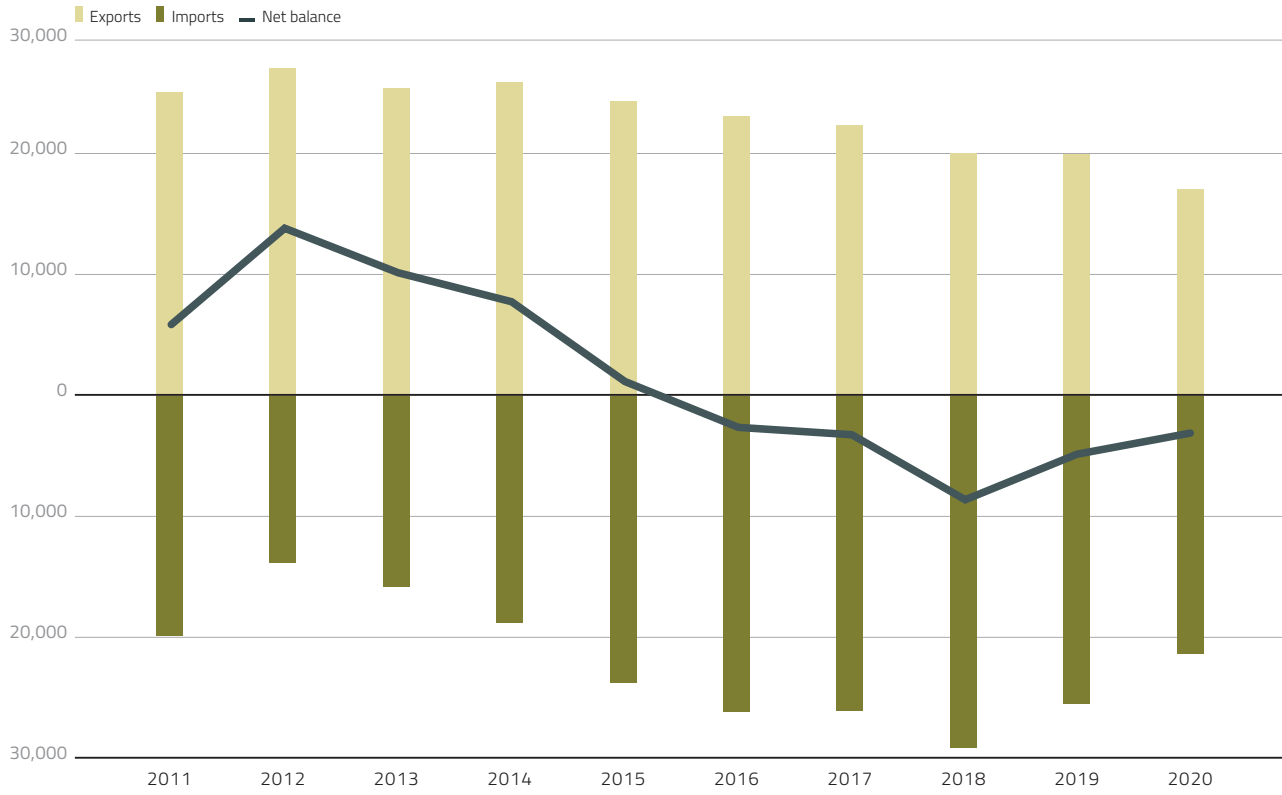
EU trade balance: by volume

All qualities • in '000 metric tonnes

FINISHED PRODUCTS NET TRADE BALANCE BY VOLUME

CHART • 2011 – 2020

SOURCE: EUROFER





Stainless steel

EUROPEAN STEEL IN FIGURES **2021**

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Stainless steel market supply: Total flat products

In '000 metric tonnes

53

TOTAL STAINLESS FLAT PRODUCT DELIVERIES BY SOURCE

TABLE ■ 2011 – 2020

SOURCE: EUROFER

| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | % shares 2020 |
|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------------|
| European Deliveries | 3,637 | 3,608 | 3,541 | 3,629 | 3,748 | 4,052 | 3,940 | 3,905 | 3,649 | 3,460 | 78.0% |
| Imports, Third Countries | 824 | 710 | 909 | 1,292 | 1,096 | 1,230 | 1,447 | 1,548 | 1,486 | 977 | 22.0% |
| Market Supply | 4,462 | 4,318 | 4,450 | 4,921 | 4,844 | 5,282 | 5,387 | 5,452 | 5,135 | 4,437 | 100% |

TOTAL STAINLESS FLAT PRODUCT DELIVERIES BY SOURCE

CHART ■ 2011 – 2020

SOURCE: EUROFER

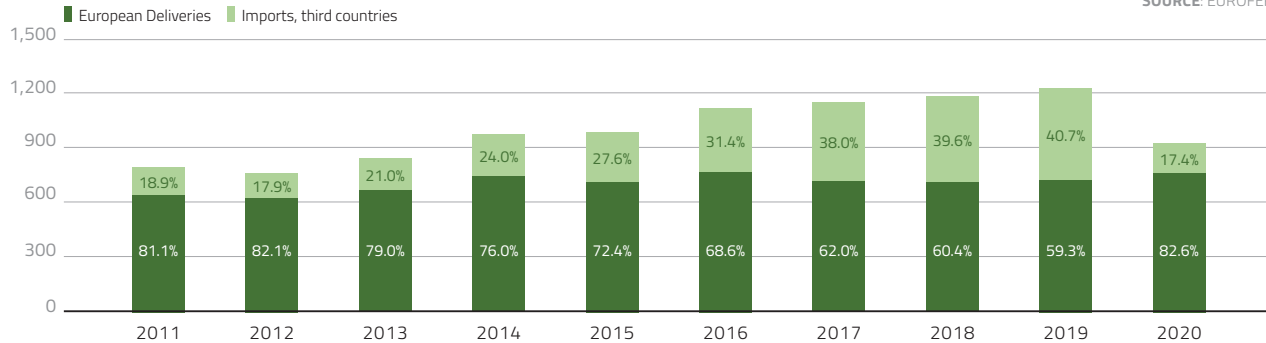


Stainless steel market supply: Hot rolled strip mill & plates

HOT ROLLED STRIP MILL PRODUCTS

CHART ■ 2011 – 2020

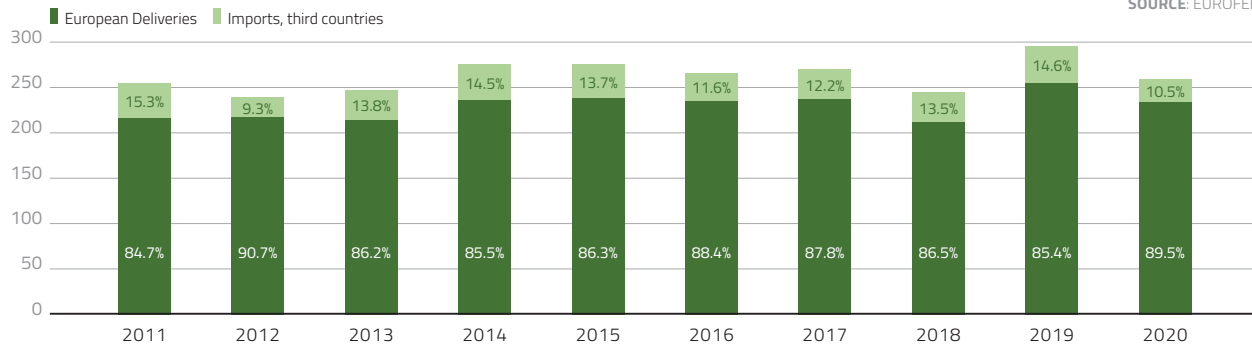
SOURCE: EUROFER



PLATES

CHART ■ 2011 – 2020

SOURCE: EUROFER



Stainless steel market supply: Hot & cold rolled flat

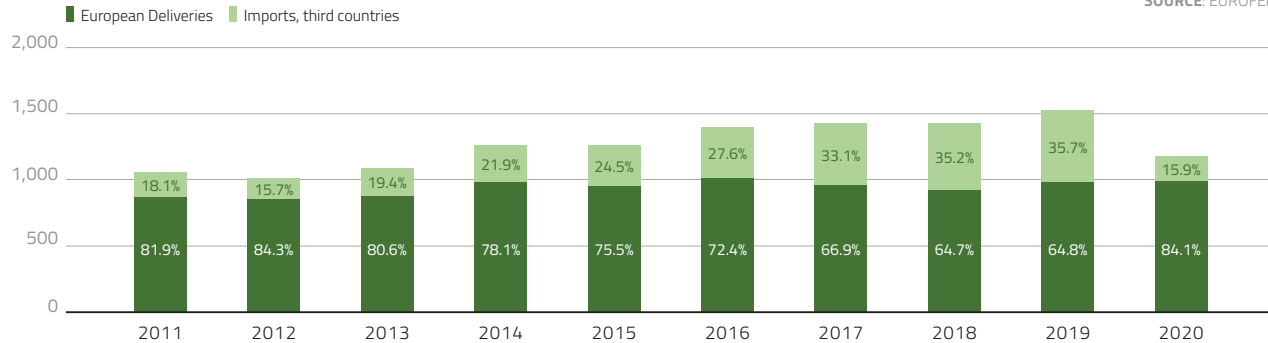
In '000 metric tonnes

55

HOT ROLLED FLAT PRODUCTS

CHART ■ 2011 – 2020

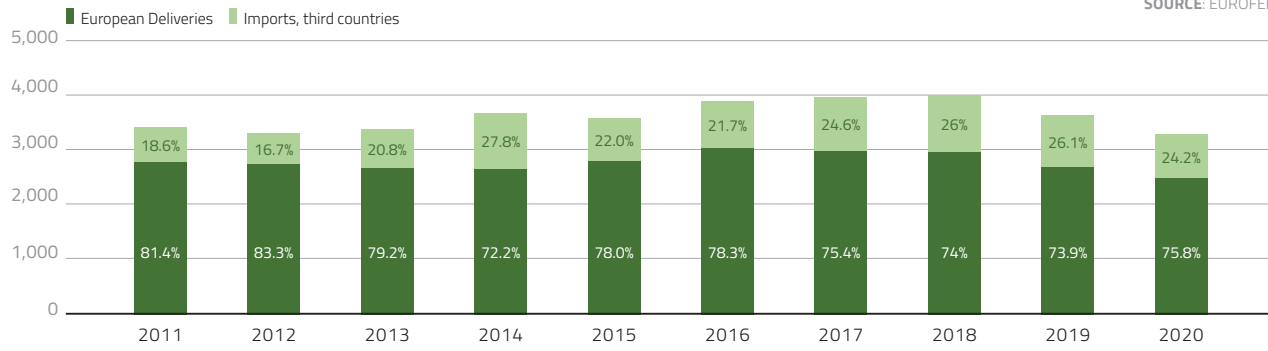
SOURCE: EUROFER



COLD ROLLED FLAT PRODUCTS

CHART ■ 2011 – 2020

SOURCE: EUROFER



TOTAL STAINLESS LONG PRODUCT DELIVERIES BY SOURCE

TABLE ■ 2011 – 2020

SOURCE: EUROFER

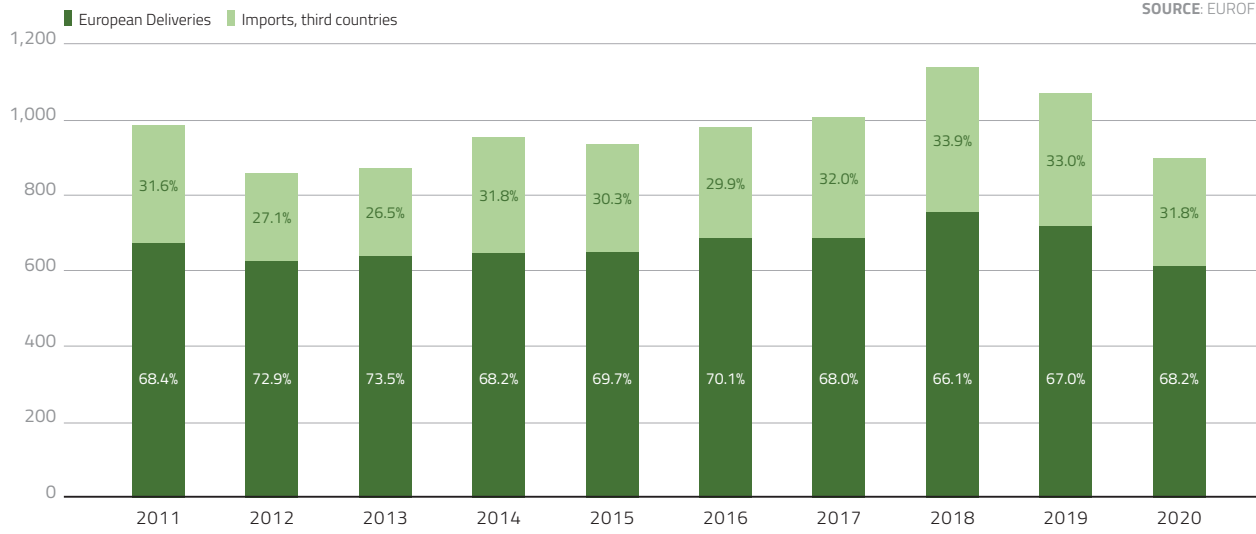
| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | % shares 2020 |
|---------------------------|------------|------------|------------|------------|------------|------------|--------------|--------------|--------------|------------|------------------|
| European Deliveries | 670 | 623 | 637 | 651 | 651 | 685 | 681 | 755 | 708 | 612 | 68.2% |
| Imports, Third Countries* | 309 | 232 | 230 | 303 | 283 | 292 | 320 | 385 | 352 | 285 | 31.8% |
| Market Supply | 979 | 855 | 867 | 954 | 934 | 977 | 1,001 | 1,140 | 1,060 | 897 | 100% |

* including Bright Bars and Wires

TOTAL STAINLESS LONG PRODUCT DELIVERIES BY SOURCE

CHART ■ 2011 – 2020

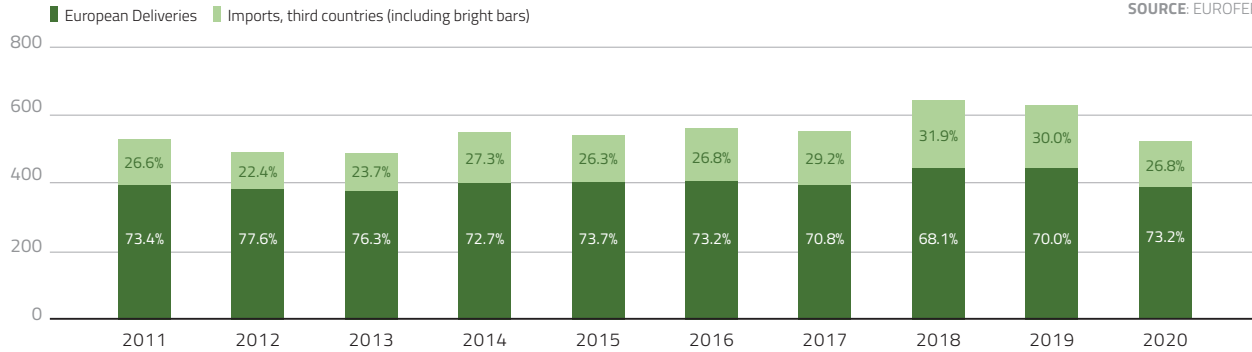
SOURCE: EUROFER



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

HOT ROLLED BARS & SECTIONS

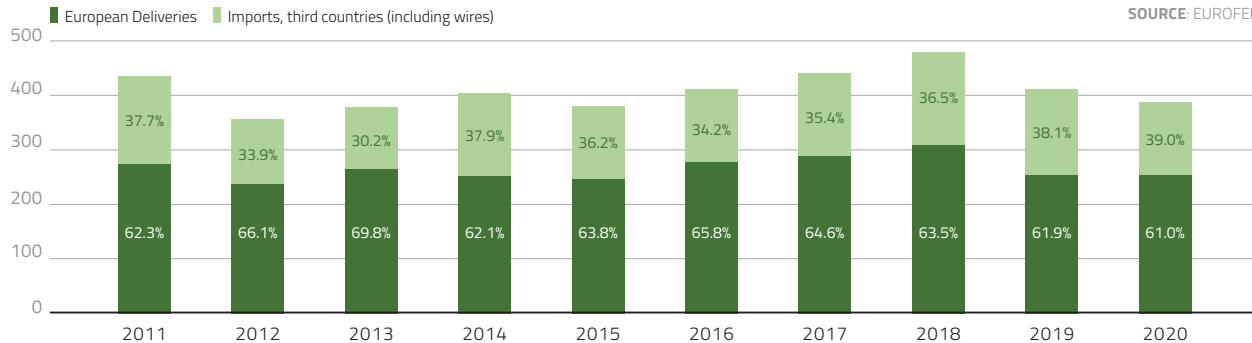
CHART ▪ 2011 – 2020



SOURCE: EUROFER

WIRE ROD

CHART ▪ 2011 – 2020



SOURCE: EUROFER

Imports into the EU: Total stainless steel

In '000 metric tonnes

IMPORTS OF FINISHED STAINLESS STEELS BY PRODUCT

TABLE ■ 2011 – 2020

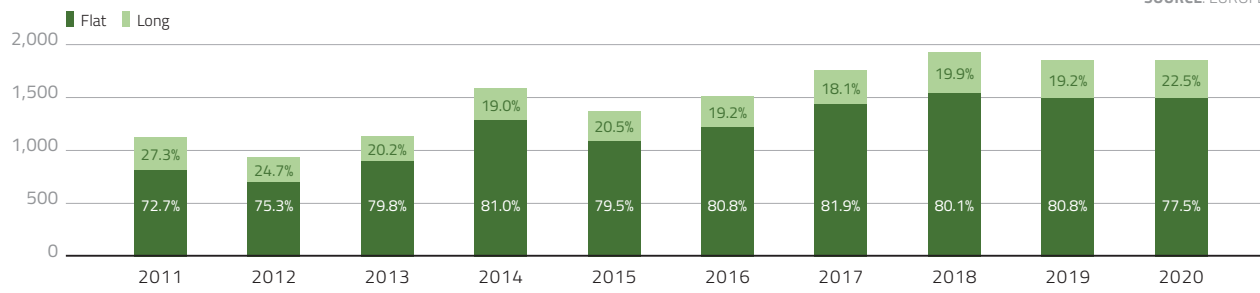
SOURCE: EUROFER

| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|--------------------------------|--------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Finished Products | 1,133 | 943 | 1,139 | 1,595 | 1,379 | 1,522 | 1,767 | 1,934 | 1,838 | 1,261 |
| ▶ of which flat products | 824 | 710 | 909 | 1,292 | 1,096 | 1,230 | 1,447 | 1,548 | 1,486 | 977 |
| ▶ Hot Rolled sheets and strips | 126 | 110 | 136 | 182 | 215 | 302 | 377 | 398 | 427 | 119 |
| ▶ Plates | 39 | 23 | 34 | 40 | 38 | 31 | 33 | 33 | 43 | 27 |
| ▶ Cold Rolled Flat | 635 | 552 | 698 | 1,019 | 788 | 846 | 976 | 1,045 | 943 | 789 |
| ▶ of which long products | 309 | 232 | 230 | 303 | 283 | 292 | 320 | 386 | 352 | 285 |
| ▶ Wire Rod | 92 | 51 | 52 | 71 | 58 | 59 | 63 | 77 | 62 | 53 |
| ▶ Merchant Bars | 45 | 39 | 48 | 60 | 50 | 54 | 52 | 68 | 64 | 49 |
| ▶ Bright Bars | 98 | 72 | 67 | 90 | 94 | 95 | 110 | 140 | 129 | 93 |
| ▶ Drawn Wires | 75 | 71 | 63 | 83 | 82 | 85 | 95 | 101 | 97 | 90 |
| ▶ Flat | 72.7% | 75.3% | 79.8% | 81.0% | 79.5% | 80.8% | 81.9% | 80.1% | 80.8% | 77.5% |
| ▶ Long | 27.3% | 24.7% | 20.2% | 19.0% | 20.5% | 19.2% | 18.1% | 19.9% | 19.2% | 22.5% |

IMPORTS OF FINISHED STAINLESS STEELS BY PRODUCT CATEGORY

CHART ■ 2011 – 2020

SOURCE: EUROFER



Exports from the EU: Total stainless steel

In '000 metric tonnes

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EXPORTS OF FINISHED STAINLESS STEELS BY PRODUCT

TABLE ■ 2011 – 2020

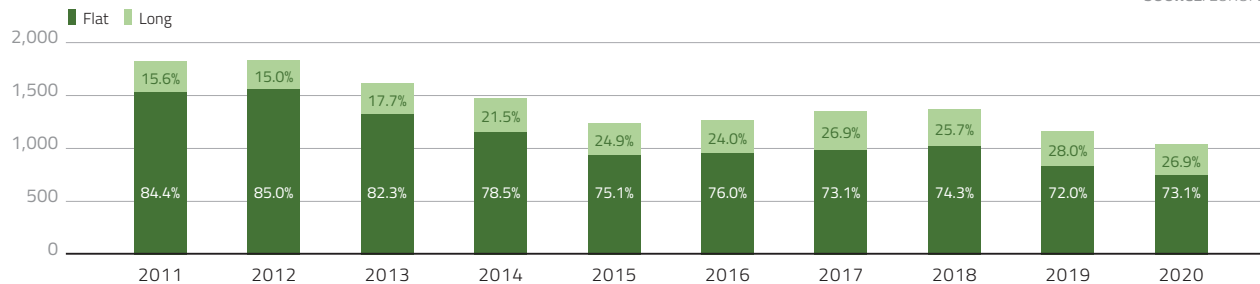
SOURCE: EUROFER

| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|--------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Finished Products | 1,830 | 1,844 | 1,620 | 1,481 | 1,251 | 1,271 | 1,355 | 1,371 | 1,177 | 1,047 |
| ▶ of which flat products | 1,541 | 1,568 | 1,333 | 1,163 | 939 | 966 | 990 | 1,017 | 848 | 765 |
| ▶ Hot Rolled sheets and strips | 570 | 635 | 434 | 292 | 180 | 197 | 226 | 240 | 158 | 114 |
| ▶ Plates | 88 | 85 | 80 | 104 | 99 | 91 | 82 | 96 | 89 | 82 |
| ▶ Cold Rolled Flat | 754 | 713 | 708 | 667 | 579 | 596 | 595 | 592 | 516 | 504 |
| ▶ of which long products | 288 | 276 | 288 | 317 | 312 | 305 | 365 | 352 | 329 | 283 |
| ▶ Wire Rod | 67 | 65 | 68 | 73 | 71 | 70 | 84 | 78 | 76 | 61 |
| ▶ Merchant Bars | 56 | 55 | 64 | 73 | 67 | 67 | 86 | 83 | 86 | 75 |
| ▶ Bright Bars | 140 | 132 | 130 | 146 | 147 | 143 | 169 | 164 | 142 | 125 |
| ▶ Drawn Wires | 25 | 24 | 26 | 25 | 26 | 25 | 25 | 28 | 25 | 22 |
| ▶ Flat | 84.4% | 85.0% | 82.3% | 78.5% | 75.1% | 76.0% | 73.1% | 74.3% | 72.0% | 73.1% |
| ▶ Long | 15.6% | 15.0% | 17.7% | 21.5% | 24.9% | 24.0% | 26.9% | 25.7% | 18.6% | 14.9% |

EXPORTS OF FINISHED STAINLESS STEEL BY PRODUCT CATEGORY

TABLE ■ 2011 – 2020

SOURCE: EUROFER



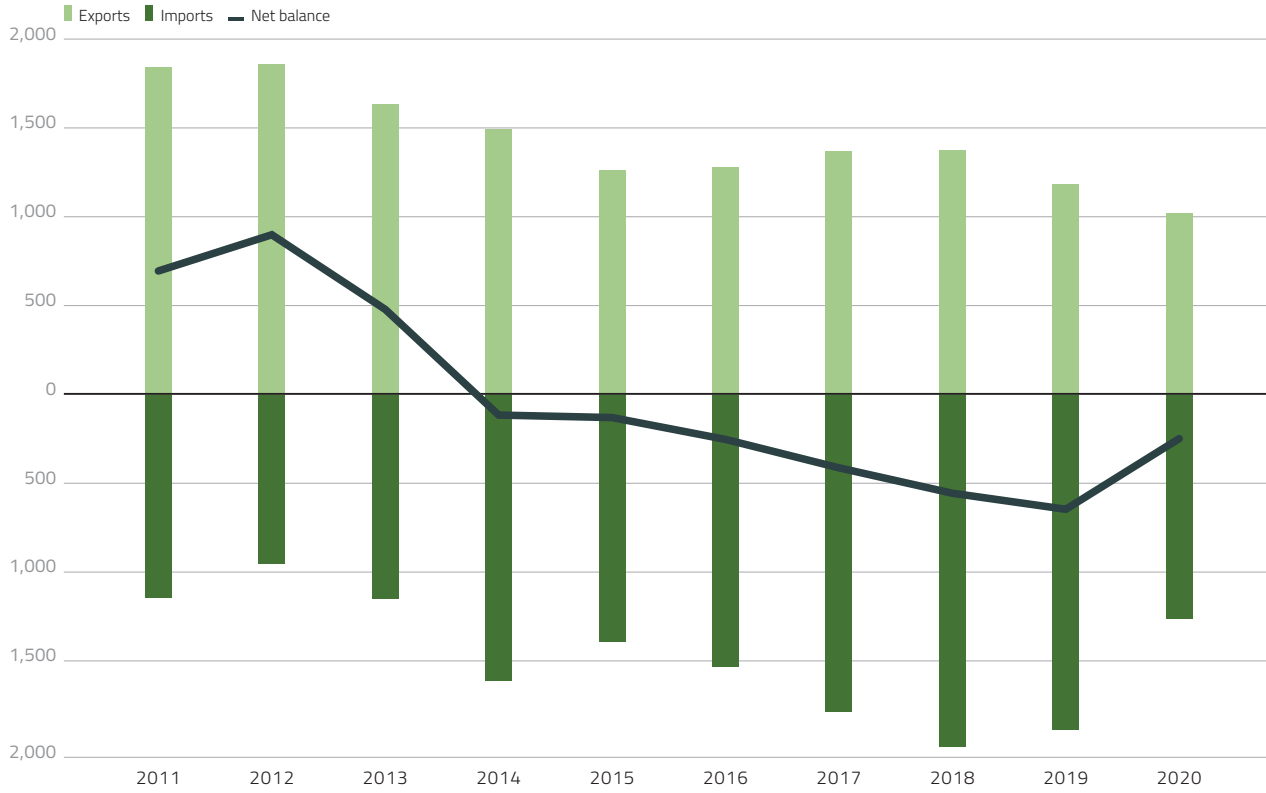
EU Trade balance: by volume

In '000 metric tonnes

NET TRADE BALANCE BY VOLUME

CHART ■ 2011 – 2020

SOURCE: EUROFER






Sustainability

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Imports into the EU: scrap steel

In '000 metric tonnes

63

IMPORTS OF SCRAP INTO THE EU

TABLE ■ 2011 – 2020

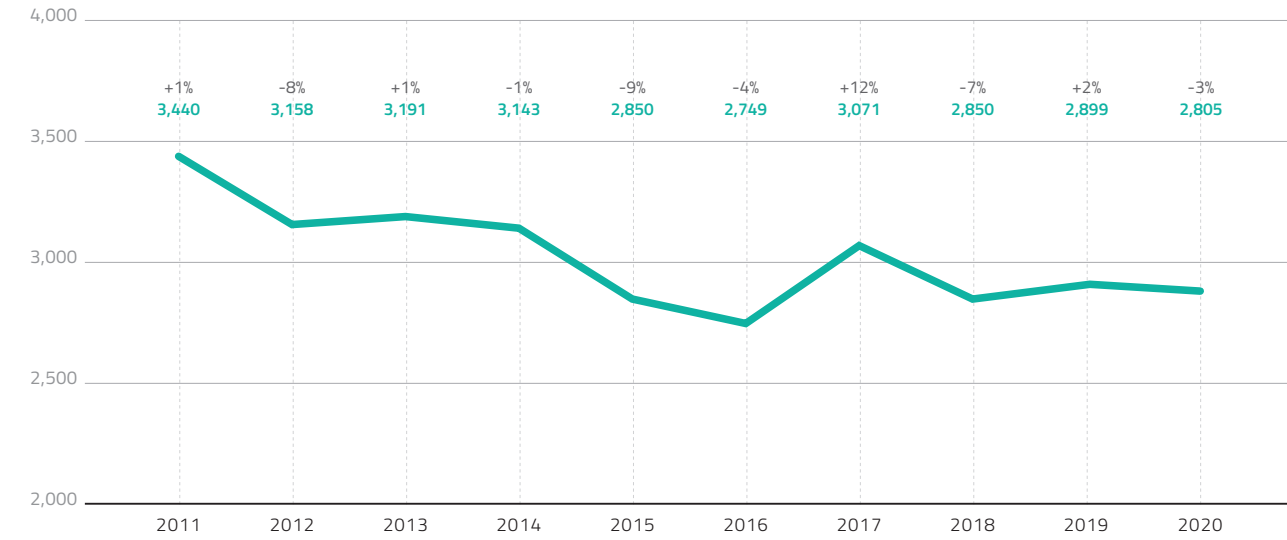
SOURCE: EUROFER

| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Imports Comext | 3,440 | 3,158 | 3,191 | 3,143 | 2,850 | 2,749 | 3,071 | 2,850 | 2,899 | 2,805 |

IMPORTS OF SCRAP INTO THE EU

CHART ■ 2011 – 2020

SOURCE: EUROFER



Exports from the EU: scrap steel

EXPORTS OF SCRAP FROM THE EU

TABLE ■ 2011 – 2020

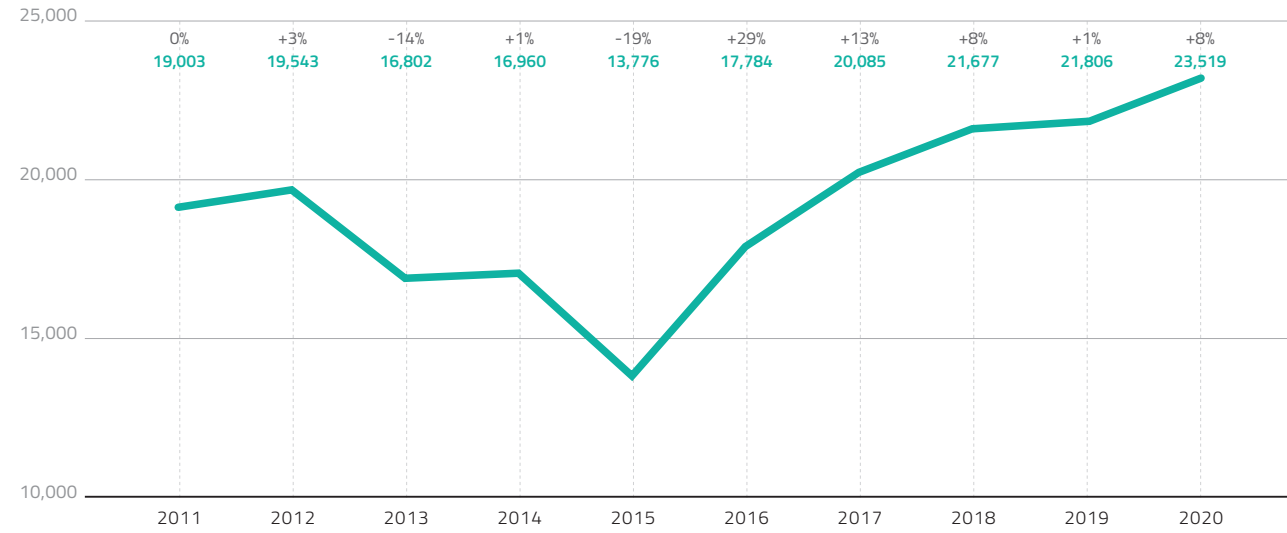
SOURCE: EUROFER

| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Imports Comext | 19,003 | 19,543 | 16,802 | 16,960 | 13,776 | 17,784 | 20,085 | 21,677 | 21,806 | 23,519 |

EXPORTS OF SCRAP FROM THE EU

GRAPH ■ 2011 – 2020

SOURCE: EUROFER



Consumption & net export: scrap

In '000 metric tonnes

65

CONSUMPTION & NET EXPORT OF SCRAP STEEL

TABLE ■ 2011 – 2020

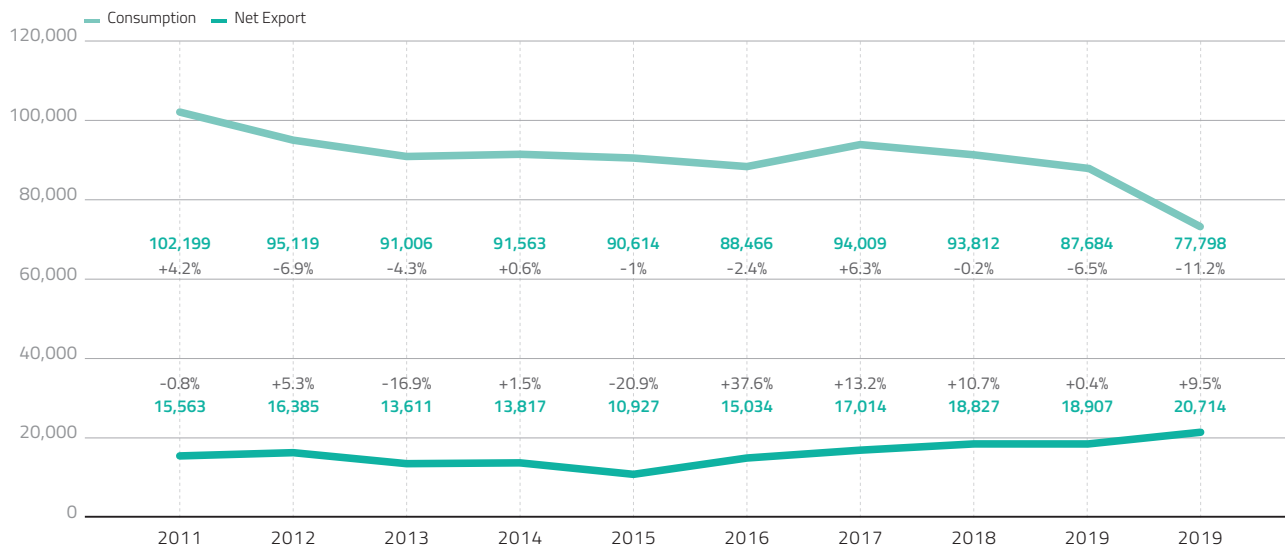
SOURCE: EUROFER

| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|-------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Consumption Total | 102,199 | 95,119 | 91,006 | 91,563 | 90,614 | 88,466 | 94,009 | 93,812 | 87,684 | 77,798 |
| Net Export | 15,563 | 16,385 | 13,611 | 13,817 | 10,927 | 15,034 | 17,014 | 18,827 | 18,907 | 20,714 |

CONSUMPTION & NET EXPORT OF SCRAP STEEL

GRAPH ■ 2011 – 2020

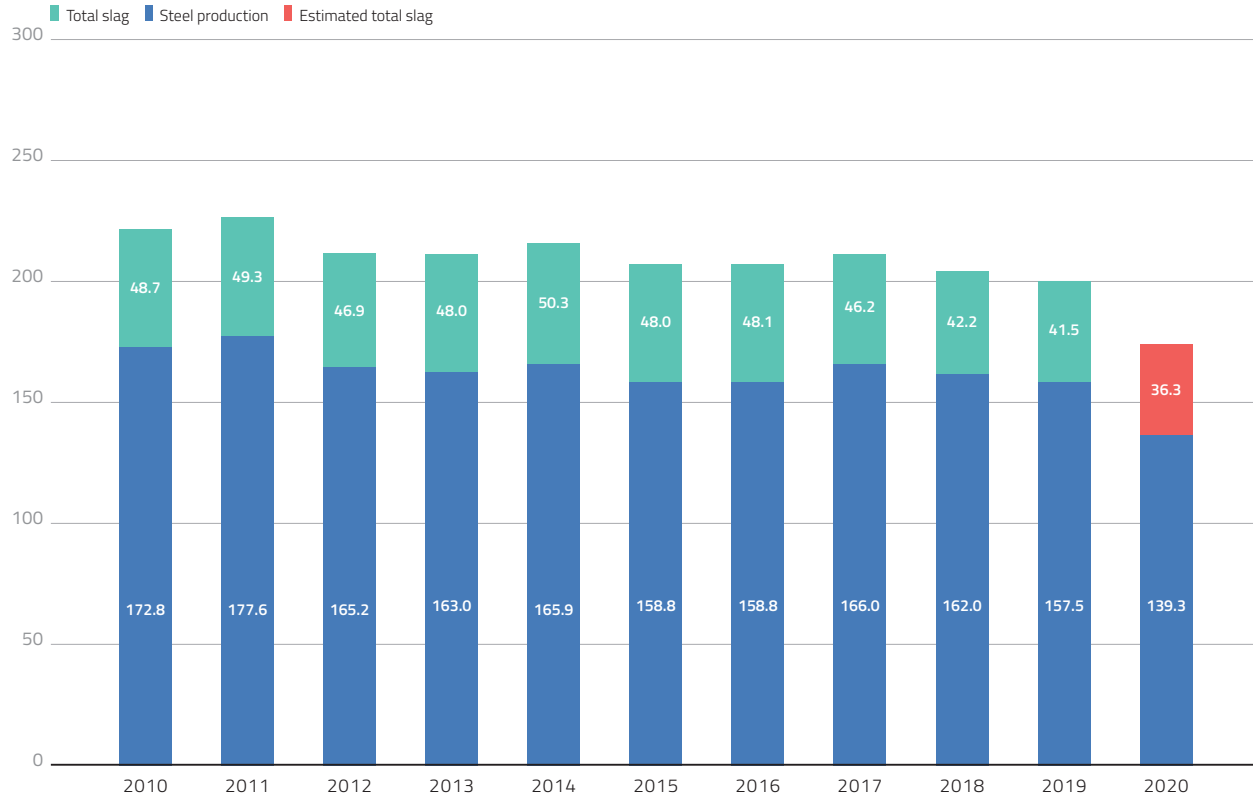
SOURCE: EUROFER



SLAG PRODUCTION IN THE EU

CHART ■ 2010 – 2020

SOURCE: EUROSLAG, calculations by EUROFER



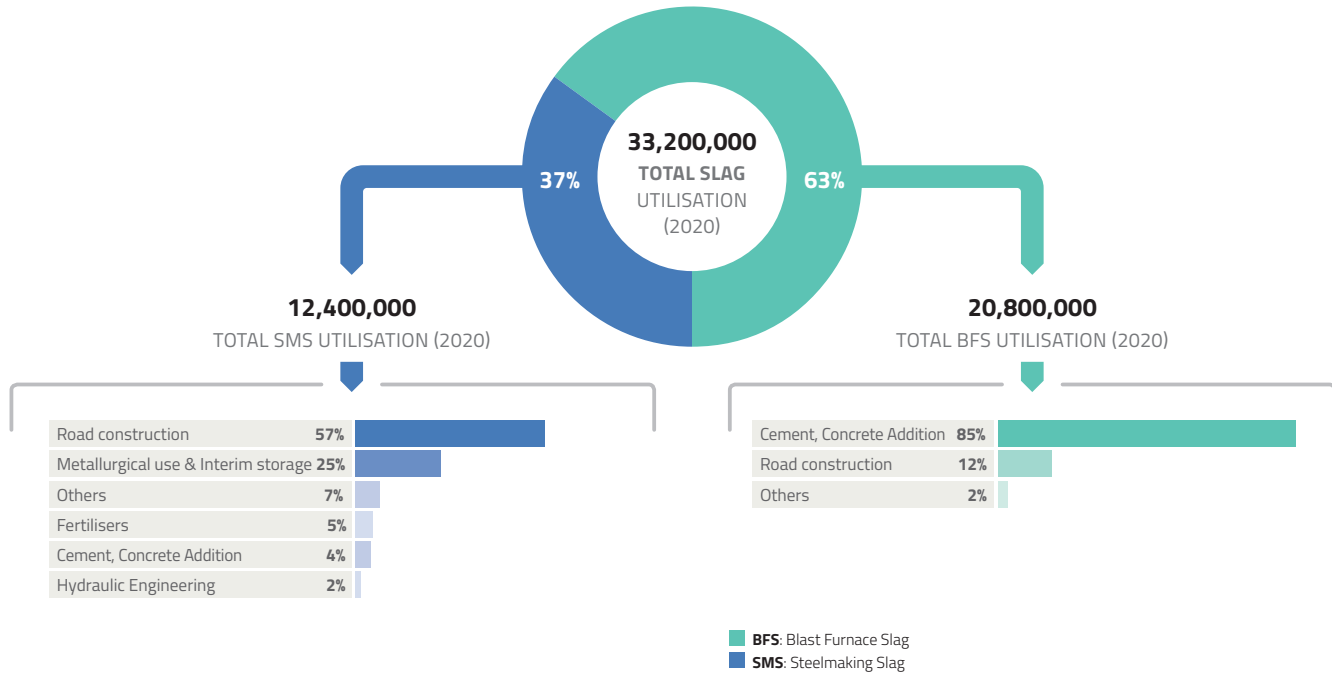
Slag production and use

In metric tonnes

USE OF SLAG IN DOWNSTREAM INDUSTRIES

CHART • 2020

SOURCE: EUROSLAG, calculations by EUROFER



NOTE: Data does not cover all EU steel production; Not comparable to the figures in European Steel in Figures 2020

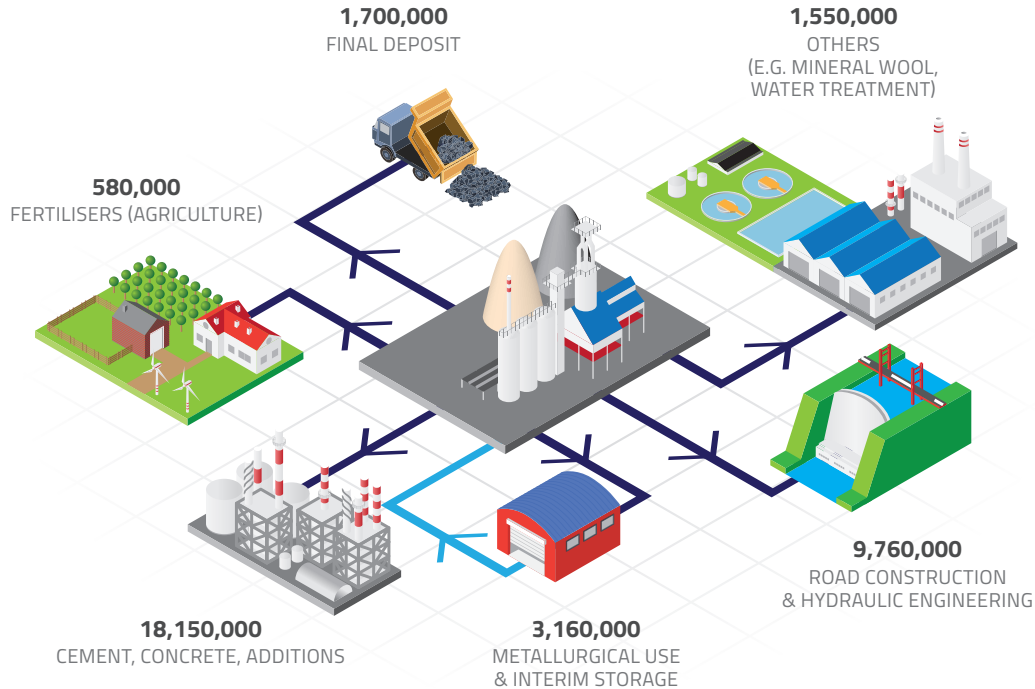
Slag production and use

In metric tonnes

USAGE PATHS OF SLAG IN SYNERGISTIC SECTORS

ISOMETRIC DIAGRAM • 2020

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 2020. 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

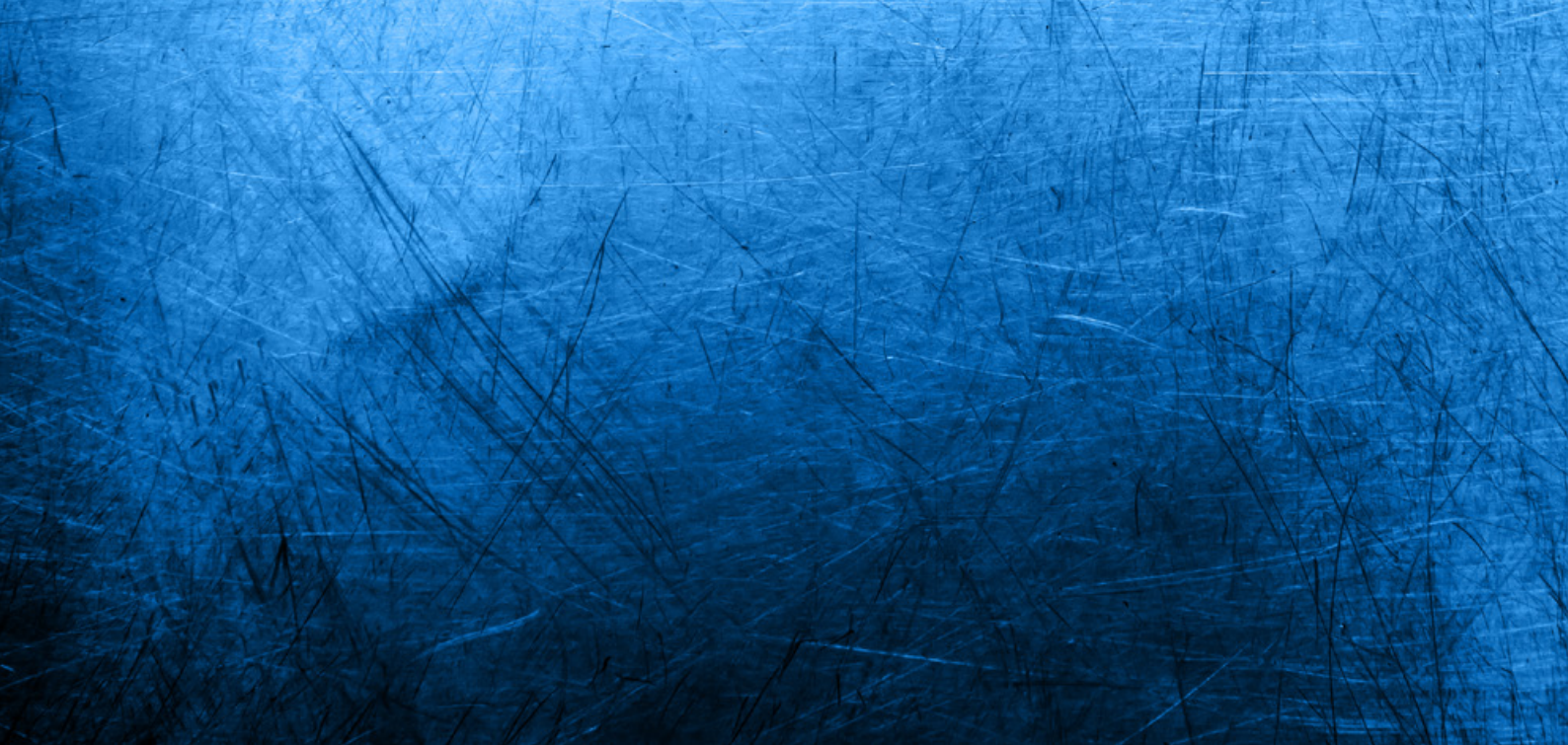
deliveries for further processing from within the steel industry itself – subtracted to avoid double-counting of steel consumption

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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