SMU Community Chat

March 9, 2022 Starting at 11 AM Eastern

Michael Cowden, Steel Market Update Dr. Johnny Sjöström, SSAB Special Steels



SteelMarketUpdate.com/Blog/SMU-Community-Chat-Webinars

Steel Market Update





SMU Newsletter developed for active buyers & sellers of flat rolled steel. **Prices – Momentum – Trends – Analysis – with a guarantee** For more information visit <u>www.SteelMarketUpdate.com</u>

Upcoming Events

STEEL MARKET UPDATE

Date	Event	Status	Venue
April 19-20	SMU Steel 101 Workshop	Live	Memphis, Tennessee
April 26-27	SMU Introduction to Steel Hedging Workshop	Virtual	Online
April 26-28	CRU Steel Decarbonisation Strategies 2022	Virtual	Online
July 19-20	SMU Steel 101 Workshop	Virtual	Online
August 22-24	SMU Steel Summit Conference	Live	Georgia International Convention Center, Atlanta, Georgia

If you would like more information about any of our workshops, you may visit <u>SteelMarketUpdate.com/Events</u> or e-mail our team at <u>Events@SteelMarketUpdate.com</u>

SMU Flat Rolled Market Trends Analysis





Steel 101 Workshop, Severstal Dearborn 2012

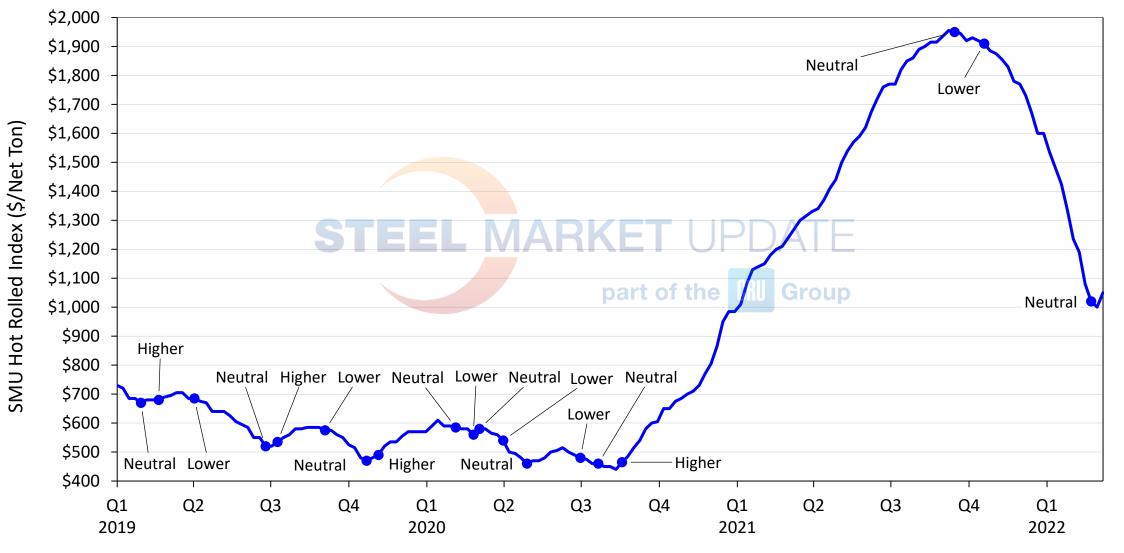
Our goal is to provide quality information to the flat rolled steel industry.

We invite over 500 companies to participate in our surveys.

All responses are kept confidential and are never attributed to the individual or company responding.

To become a data provider, contact Brett@SteelMarketUpdate.com

SMU Price Momentum Indicator History

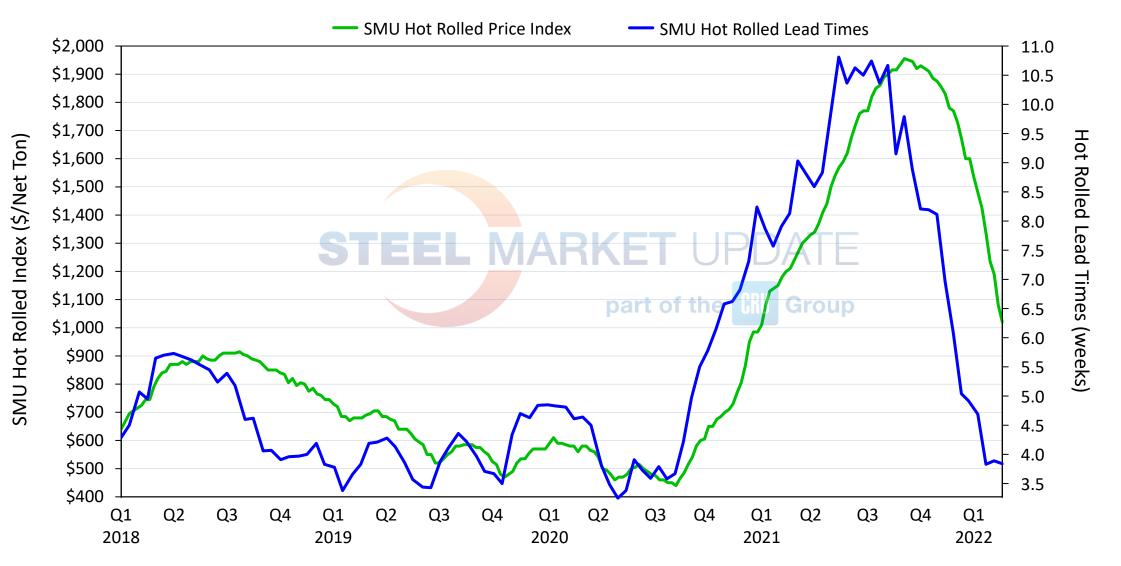


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SMU Hot Rolled Index vs Lead Times

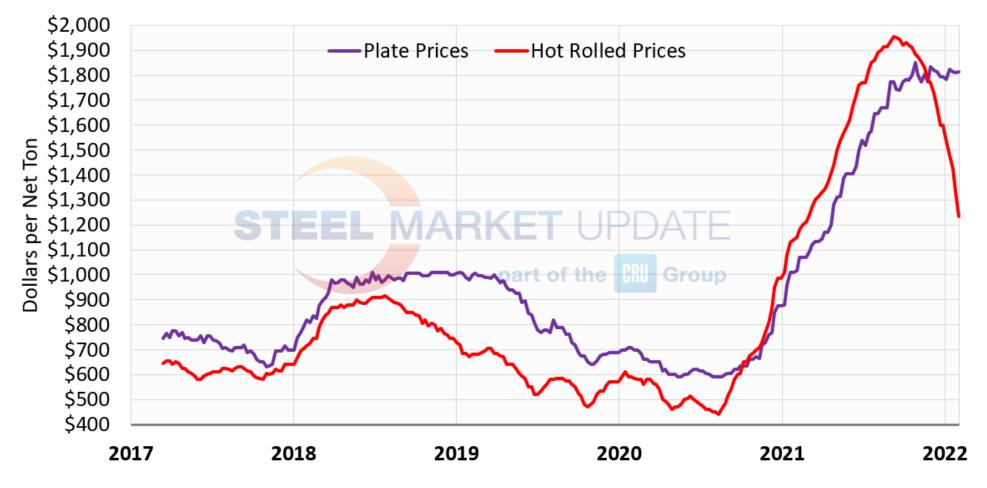


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HRC vs Plate Prices

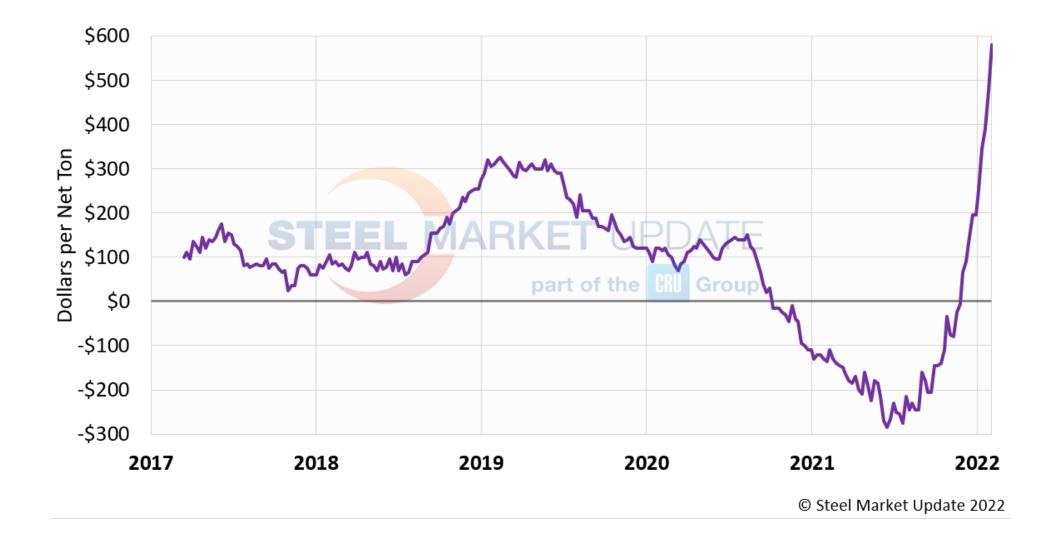


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HRC-Plate Spreads

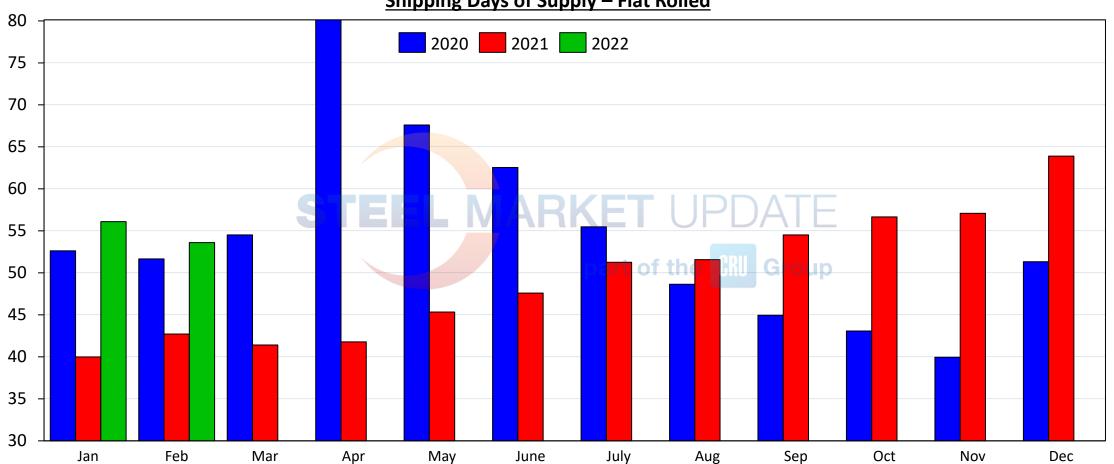


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Service Center Inventories

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Shipping Days of Supply – Flat Rolled

* Preliminary data shown for February 2022

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SSAB Special Steels

Dr. Johnny Sjöström SSAB Special Steels



Agenda

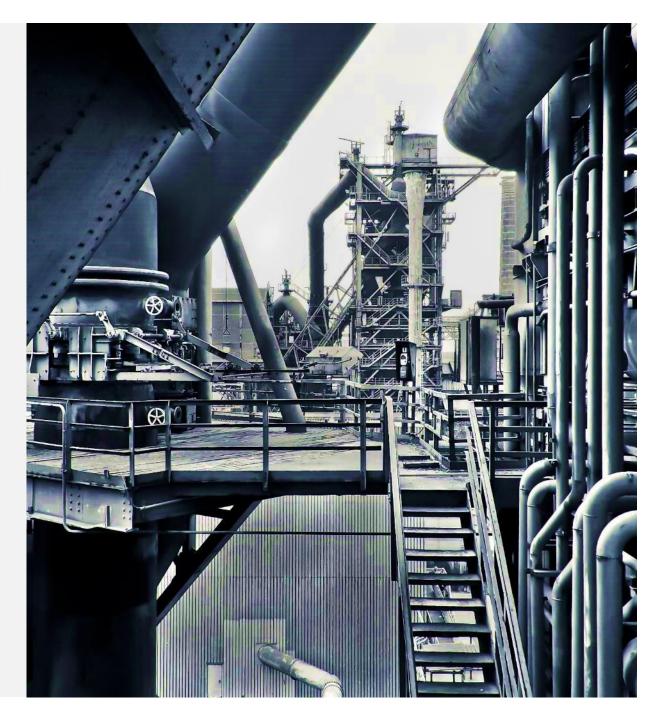
Introduction of Johnny Sjöström

Introduction of SSAB Special Steels

Impact from Russia's invasion on Ukraine

Global market forecast prior to Russia's invasion

Summary



Resumé Dr. Johnny Sjöström

- President/CEO/EVP SSAB Special Steels
- President Uddeholm, Sweden
- President Leshan-Scana, China
- ▶ VP, Outokumpu, Sweden
- Professor at Luleå University
- Doctorate in Material Science, Karlstad University
- Master's degree in Physics, Karlstad University
- MBA, Stockholm School of Economics





Agenda

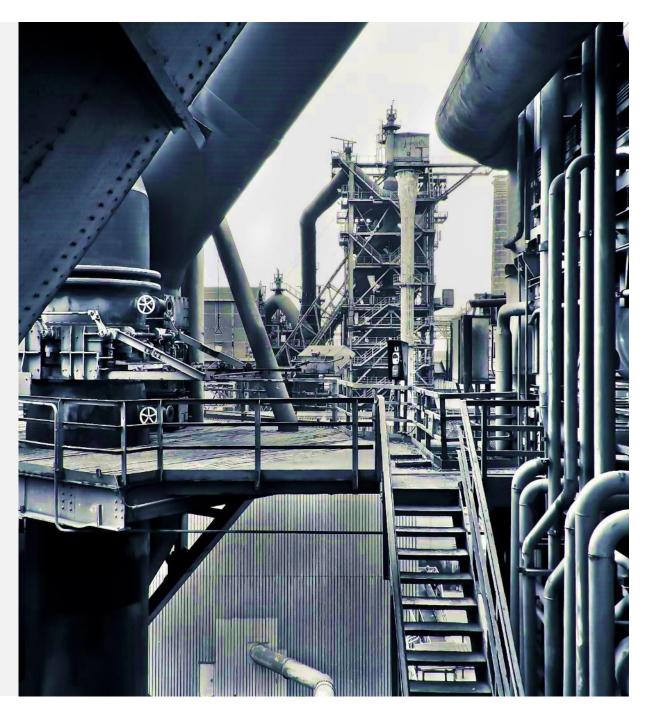
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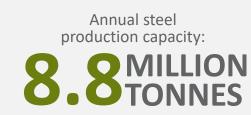
Summary



SSAB in Brief







Steel making since 1878

14,000 professionals over in 50 countries

OUR BUSINESSES:

SSAB Special Steels, SSAB Europe, SSAB Americas, Tibnor, Ruukki Construction



Our Businesses – Leaders in their Respective Sectors



SSAB SPECIAL STEELS

Global steel supplier and service partner in Quenched & Tempered Steels (Q&T) and Advanced High-Strength Steels (AHSS)



SSAB EUROPE

Leading Nordic-based steel producer of highquality strip, plate and tube products



SSAB AMERICAS

Market-leading North American producer of quality steel plate and coil



TIBNOR

Leading Nordic supplier of steel, other metals and processing services

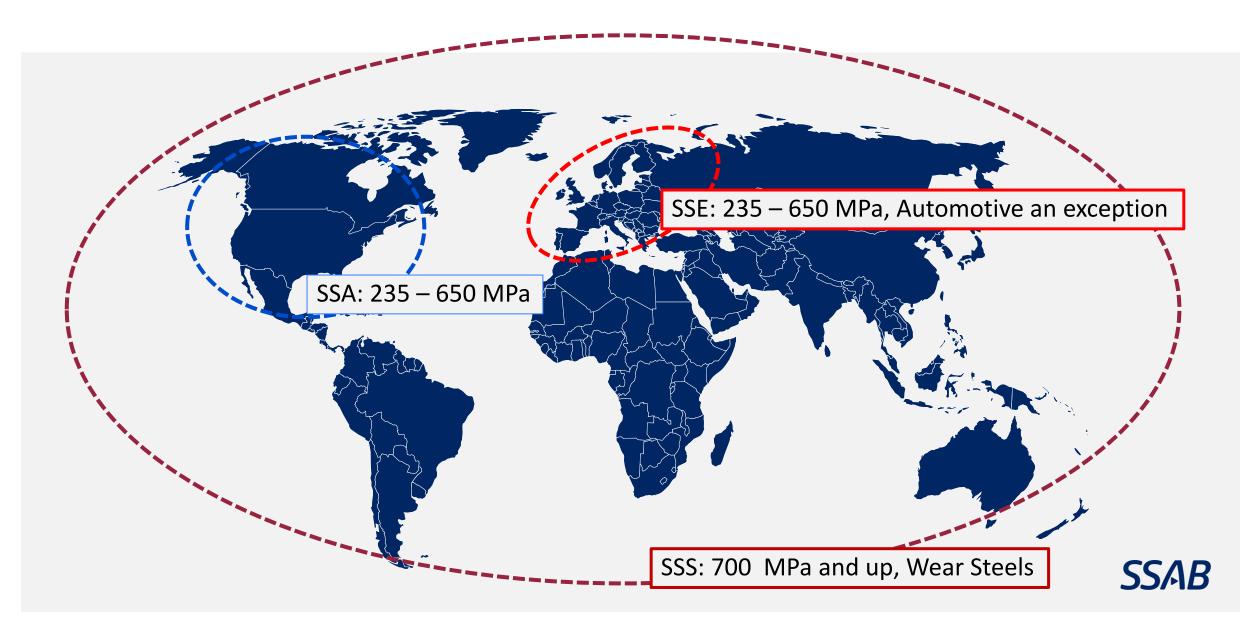


RUUKKI CONSTRUCTION

Sustainable building and construction products and services in Europe



Markets for SSAB Steel Divisions



Two Production Facilities in the U.S.









Across all SSAB divisions, ~2 Mn tons of steel is sold in the U.S. at an approximate value >2,5 BN USD

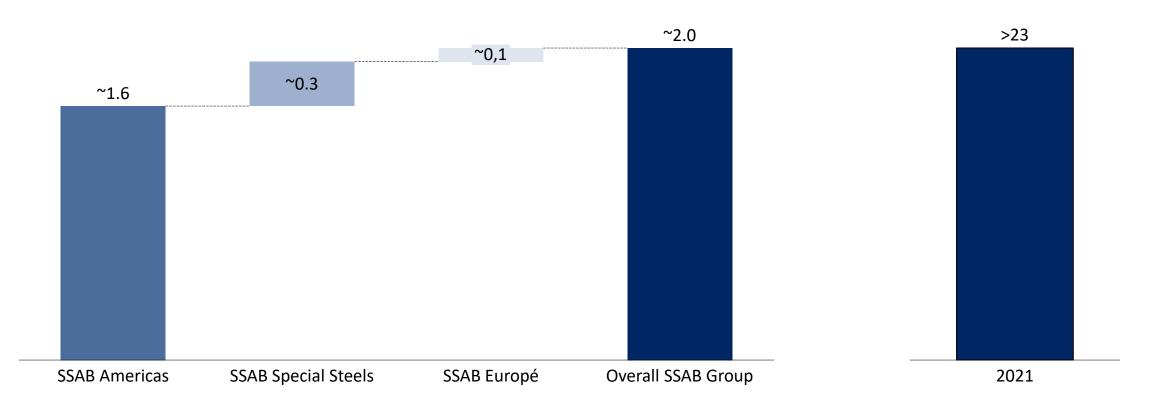
Volume sold 2021 in the US

Million metric tons

9



Billion SEK

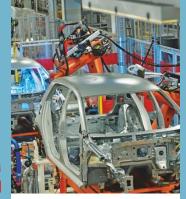


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Brief Overview: SSAB Special Steels



Local Worldwide – a Unique Business Model

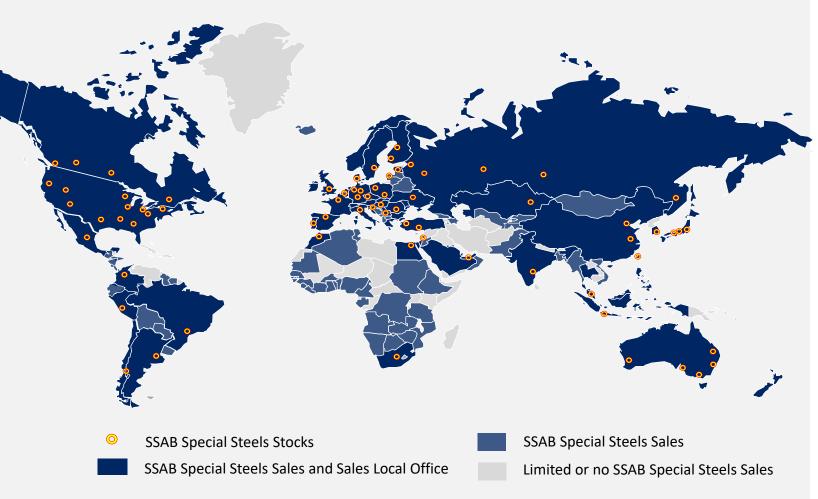
MARKET DIVERSIFICATION

- Geographical Markets
- Customers +10,000
- Segments
- Applications



SUPPORTED BY

- Global Organization
- Local Support & Service



Agenda

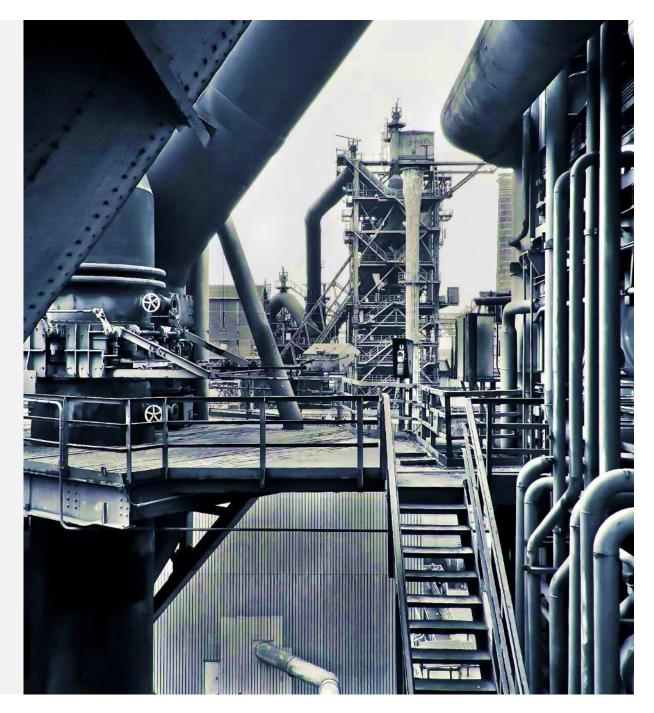
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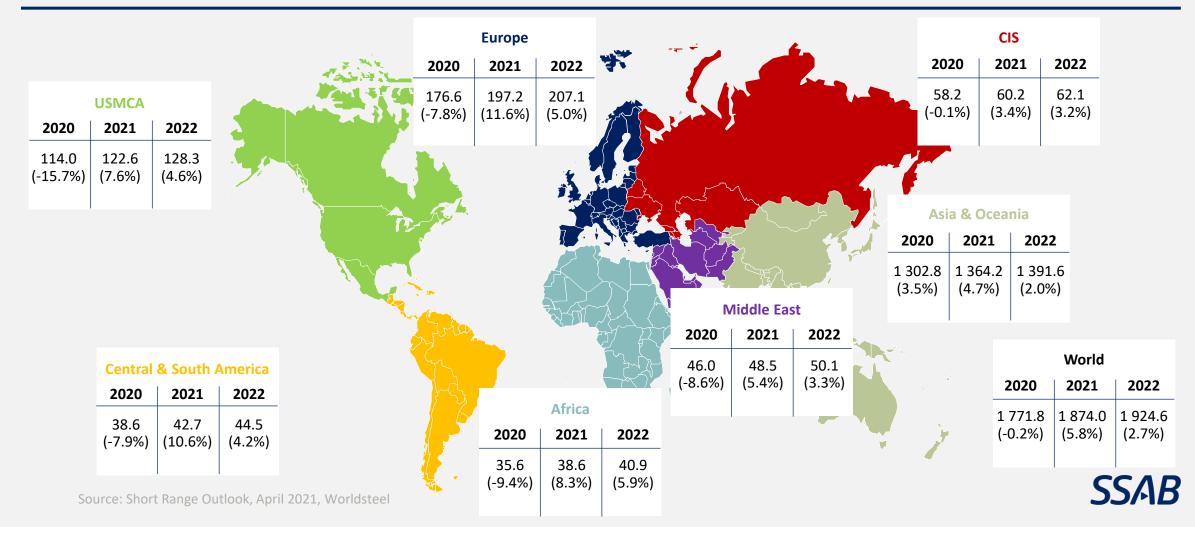
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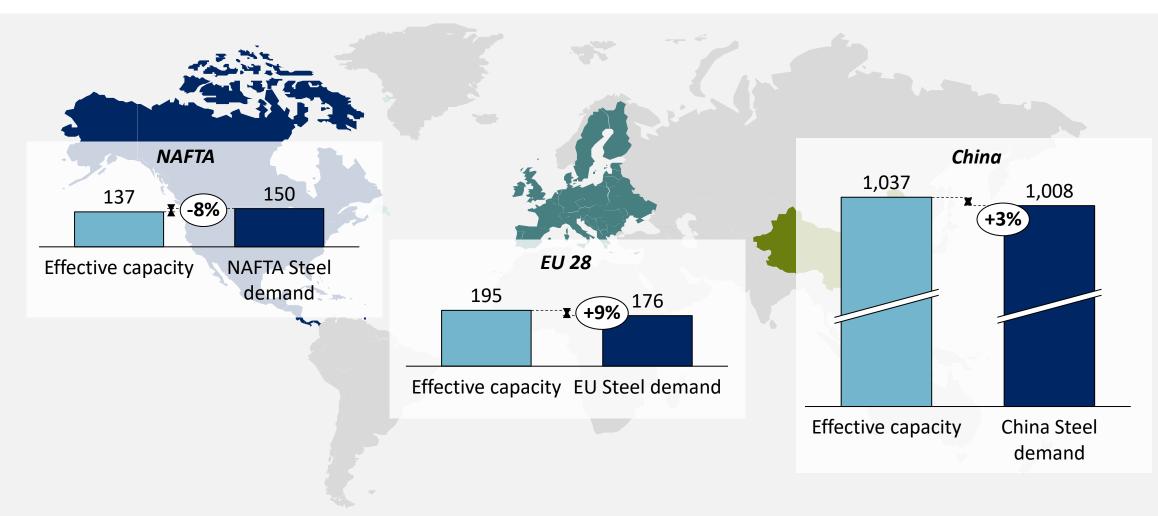


The Global Steel Demand

Short Range Demand Outlook, MTON (y-o-y growth rate)



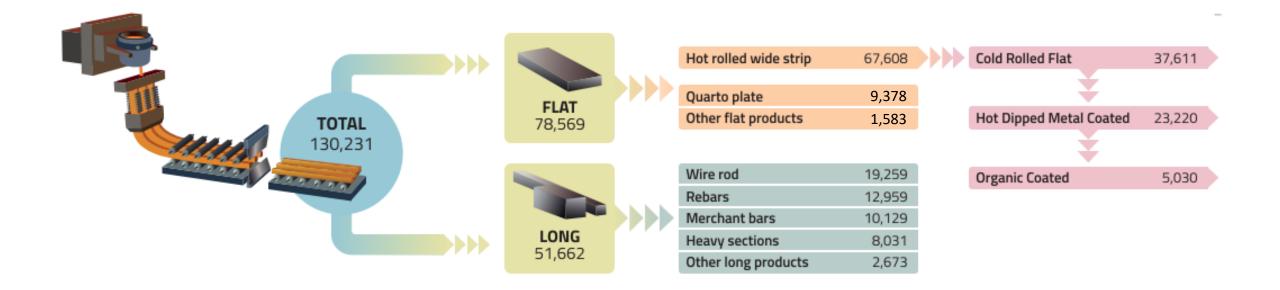
In 2019, the three main regions were more or less in balance



SSAB

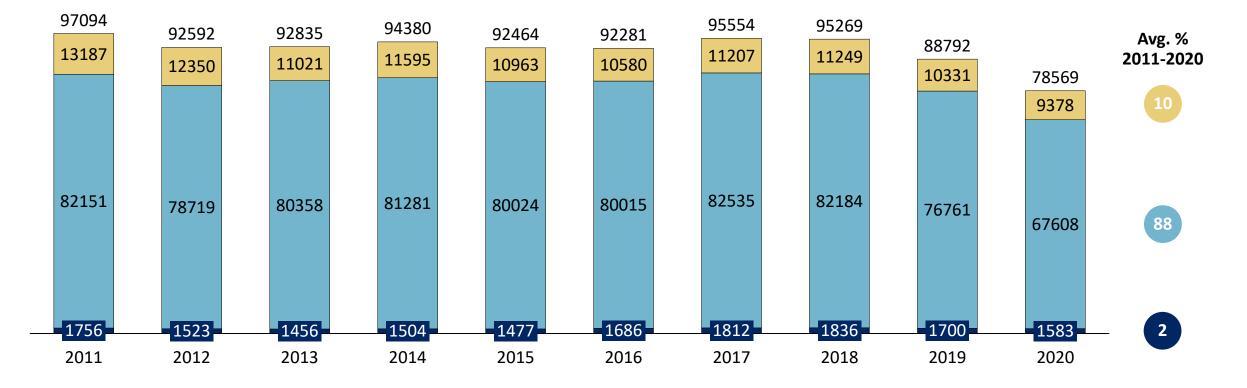
15

EU28 Production Flow 2020 (KTON)



EU28 Production of Flat Products

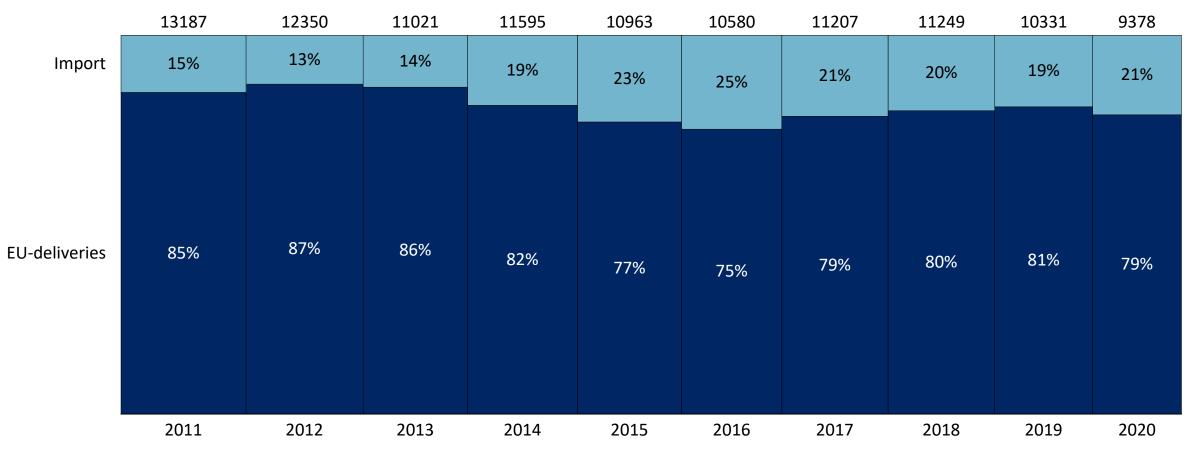
Hot rolled flat products Quarto plate Hot rolled wide strip Other flat products



EU28 Market Supply of Quarto Plate

Hot rolled flat products

KTON

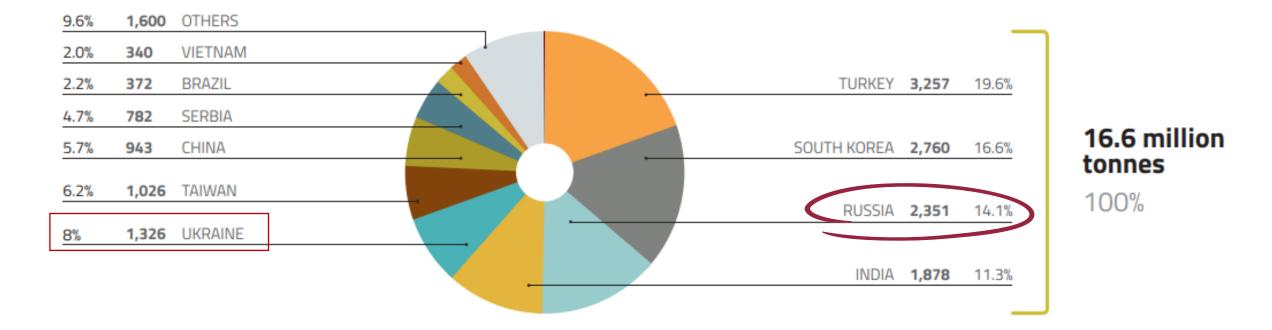


55%

EU28 Top 10 Import Countries of Flat Products

Top 10 countries flat products imports

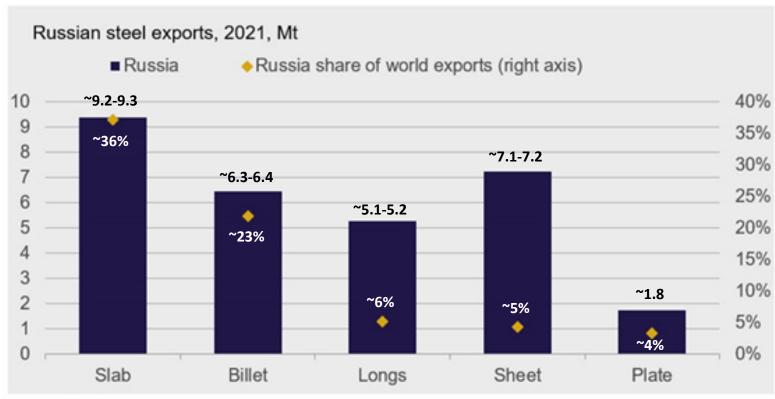
Percentage



Russia is a huge supplier of semis to the world. Less important but still key for finished steel

Russia trade figures

Million tonnes & %



Global export figures (based on graph):

- Semi-finished: 53 mt
- Finished: 272 mt
- **Slabs:** 26 mt
- Plate: 45 mt

Russia export figures (based on graph):

- Semi-finished goods e.g. slabs and billets: ~29% of world exports
- Finished goods e.g. longs, sheets and plate: ~5% of world exports



DATA: CRU, IHS Markit

Assumed Russian Slab Exporters

(based on SSAB discussion with steel trader contact (2020))

Slab sales & buy by producer

KTON

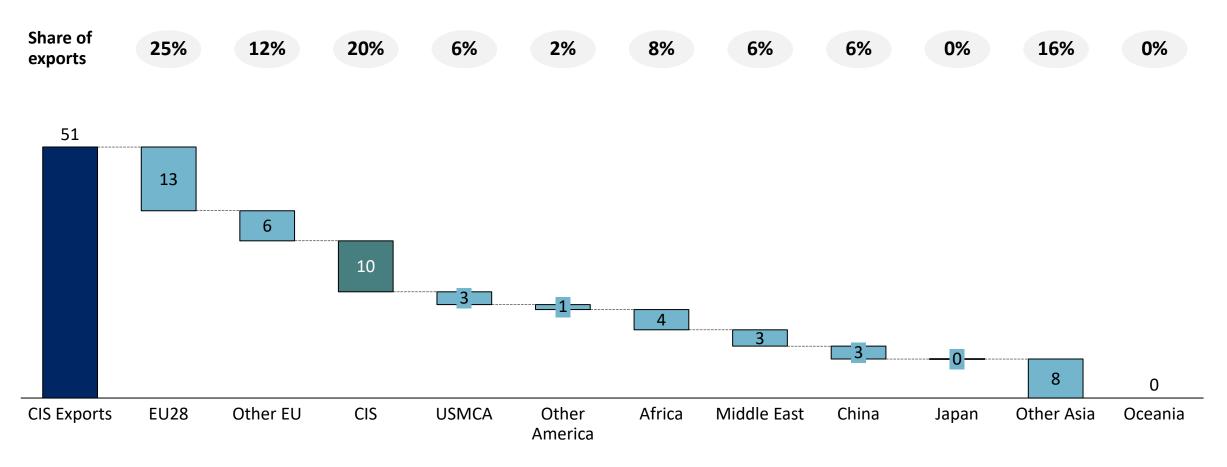
Producer	Estimated 2021 sell (global)	Estimated 2021 buy (global)
Severstal	500	0
EVRAZ (Nizhny Tagil (NTMK)	1,745	0
≡EVRAZ (W.Siberia (ZSMK)	1,646	0
(Chelyabinsk)	200	0
(Novolipetsk)	6,500	0
🔊 омк (plate mill for pipe)	0	1,000
Kuzmin (Novosibirsk)	0	200
SUM	10,591	1,200
Export – balance	9,391	



World Trade in Steel by Region/Geography



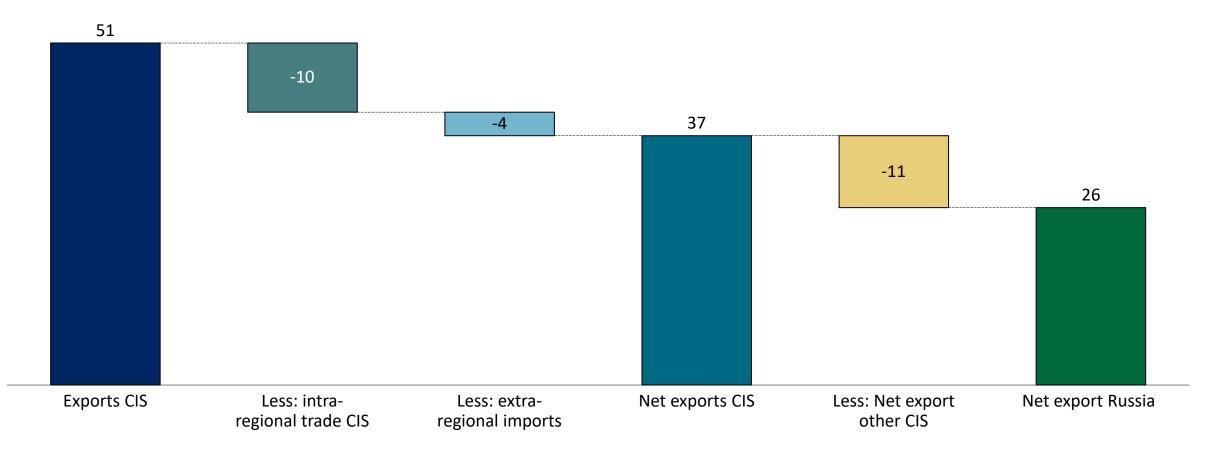
Million tonnes



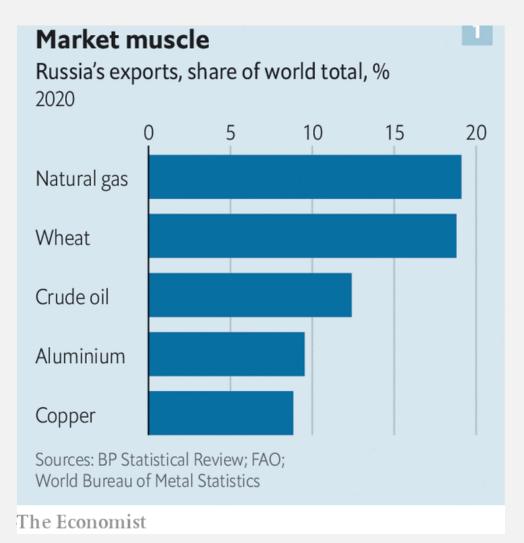
World Trade in Steel by Region/Geography

Net exports CIS & Russia 2020

Million tonnes



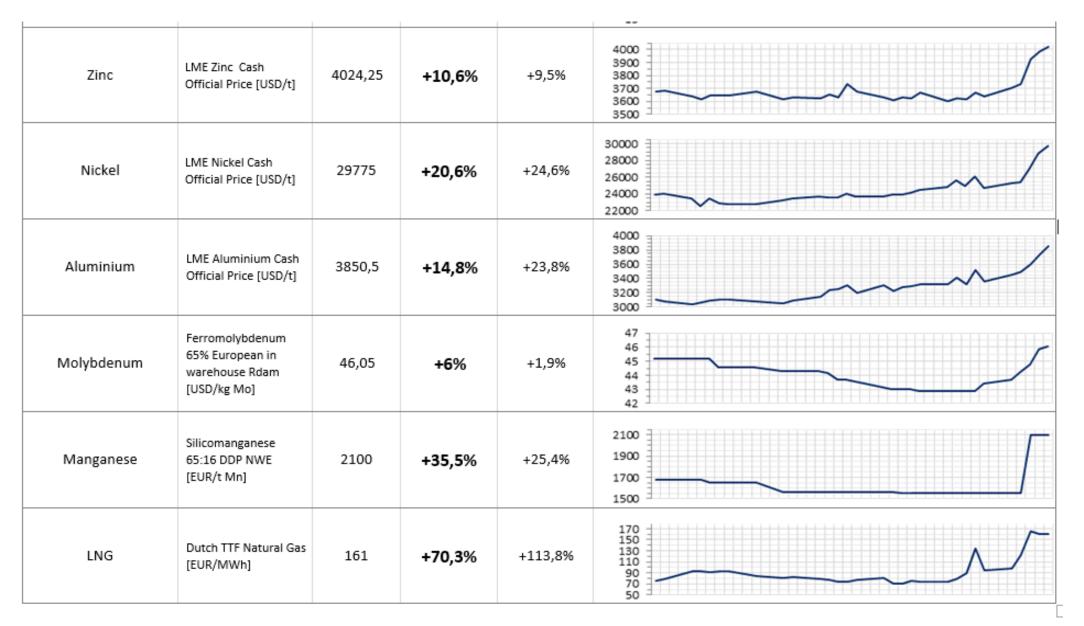
Global Dependency on Russian Supplies



- Russia has a very strong position on the natural gas market in Europé.
- We have already seen prices peak to over 300 Euro/MWh, average in 2021 was 70 Euro/MWh
- We have also already seen Ni, Al, Zn, Mn prices increase since Russia has a large exports of these minerals (except for Mn)



Alloy Prices are Increasing

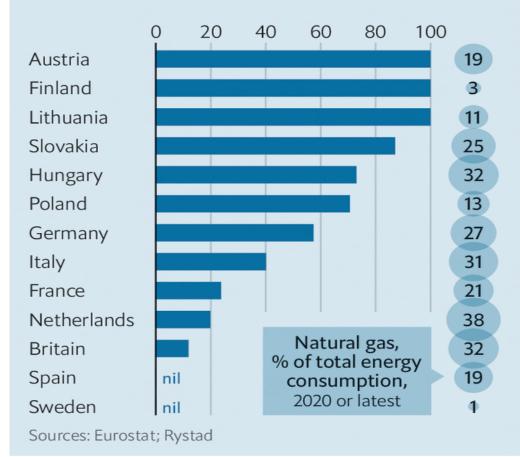


SSAB

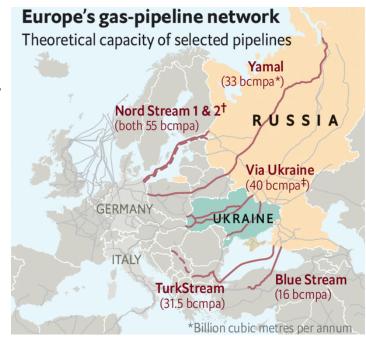
European Dependency on Russian Gas is a Major Problem

Spot the problem

Gas imports from Russia, % of total 2021, selected European countries



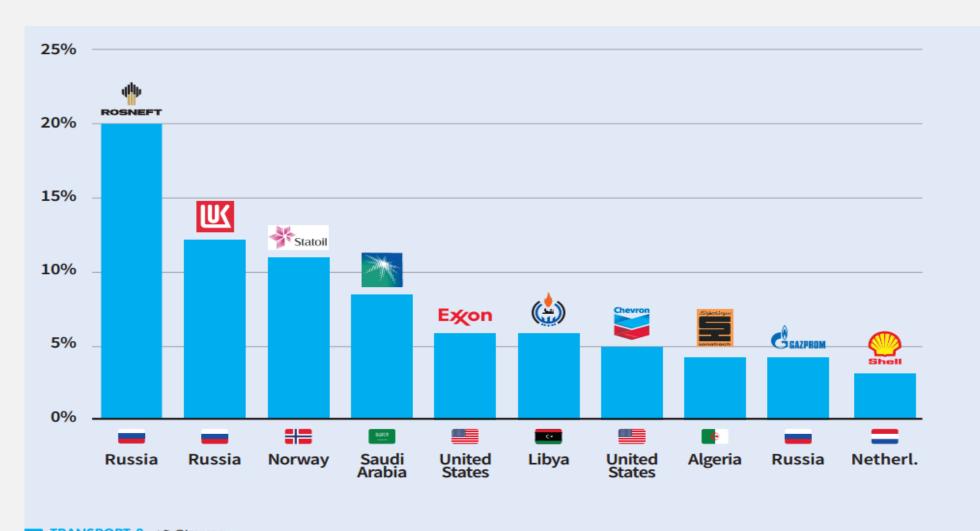
- Some gas suppliers (owners) are on the sanction list
- Most gas suppliers cannot get paid due to the ban of Swift transfer to Russia
- Customers demands material with no Russian supply
- Without the gas large steel companies such as voestalpine, Liberty, Arcelor Mittal will have a limited production





The Economist

Russia's Supply of Oil to Europe



Agenda

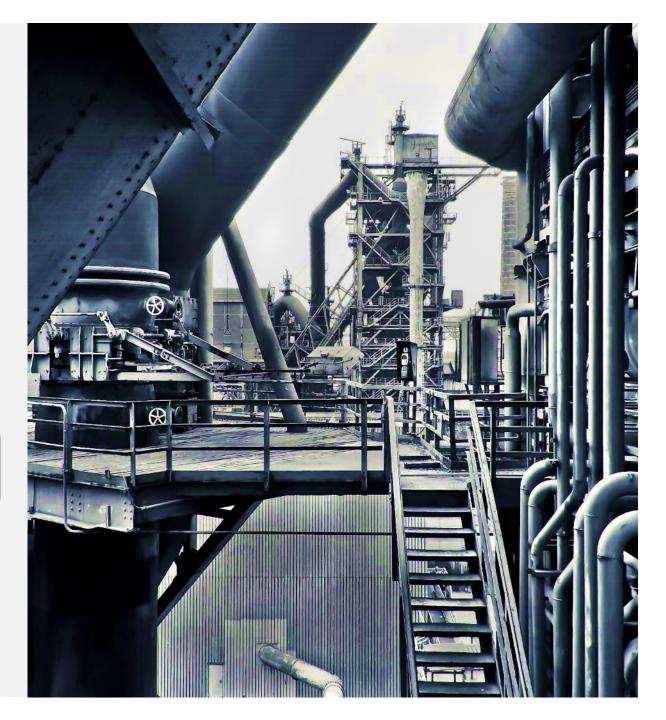
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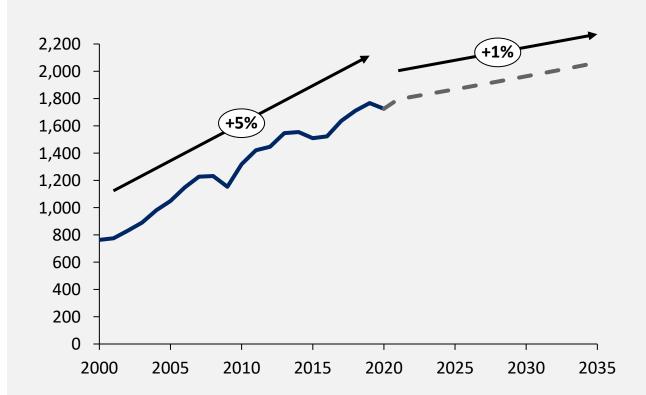
Summary



Global steel demand is expected to grow towards 2 billion metric tons per year, but at a slower pace than historically

Global steel demand forecast

Apparent steel use



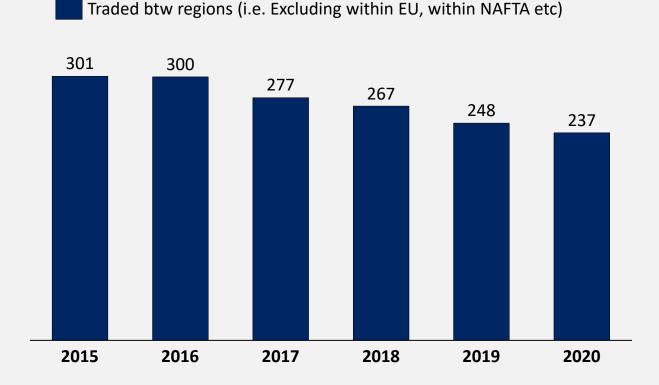
- Worldsteel estimates a growth rate of around 1% per annum could be expected until 2040, which would bring the global steel usage up to around 2 billion metric tons per annum
- Accenture Strategy expects a growth between 0.4% 1.4% per annum until 2035, depending on the impact of disruptors. This would bring their expectations up to around 1.75 – 2.00 billion metric tons per annum (from a 2015 baseline)
- China has been the driver of steel demand in recent decades, but now demand in China has likely peaked and we should expect a flat development

Global Steel Trade between Regions Continues to Decrease

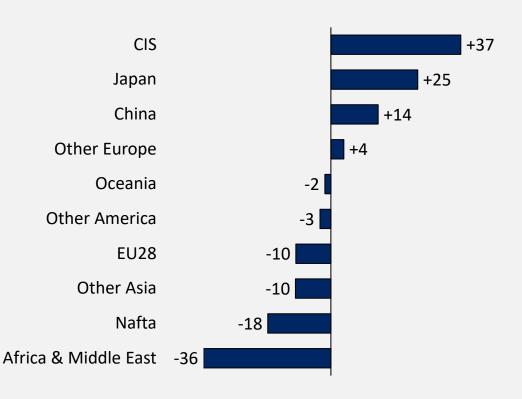
Steel world trade, mton

Source: Worldsteel

32



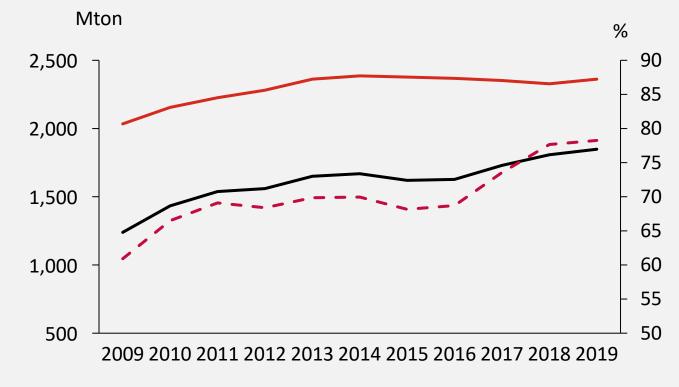
Regional trade balance 2020, mton



Before Covid-19 the global steel industry was back at healthy production and supply levels

Global production and capacity balance

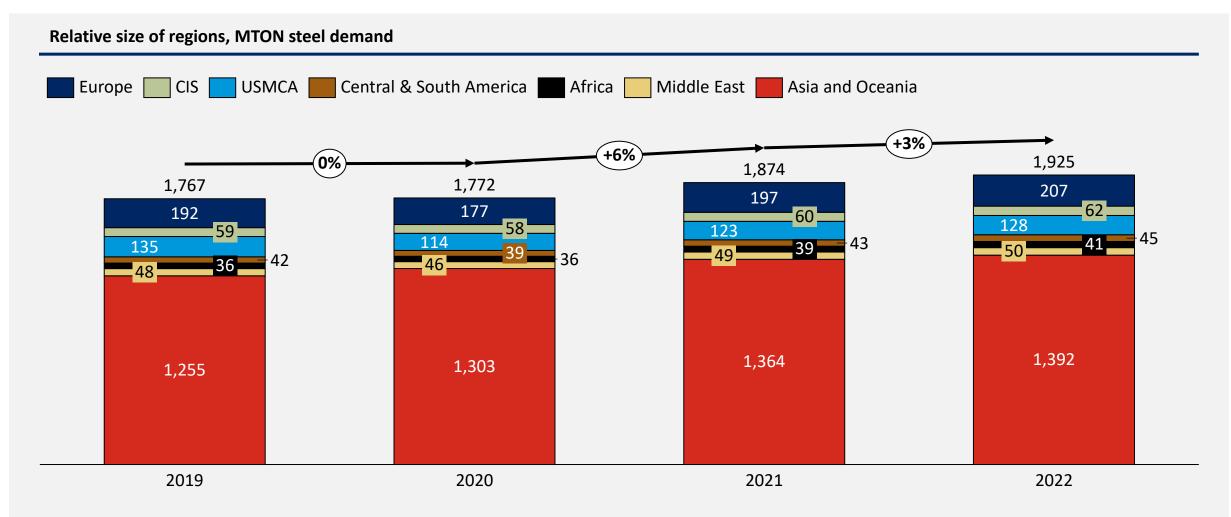
- World crude steel production – Capacity utlization
- World crude steel capacity



- Global steel industry approaching 80% utilization
 a healthy level
- Saw an increase in global capacity for the first time since 2014, growing by 1.5% compared to 2018
- 2019 capacity development for selected regions:
 - Asia: +30 Mton (+2%)
 - NAFTA: -4 Mton (-2%)
 - EU: Flat
- 2020 crude steel production down 1% compared to 2019, capacity figures not yet released



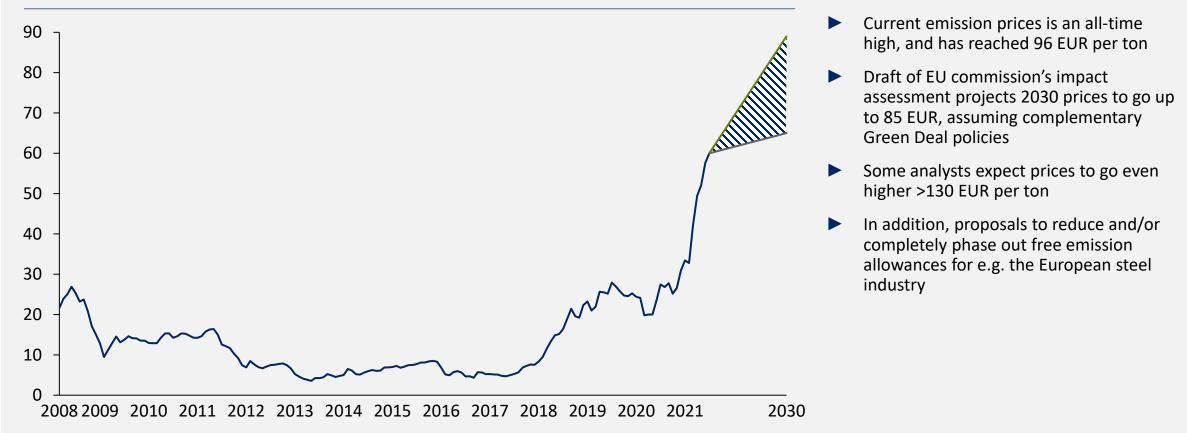
Global steel demand did not drop during Covid-19, and the outlook indicates continued global growth





CO2 emissions in the European Union are no longer 'cheap' with expectations going up

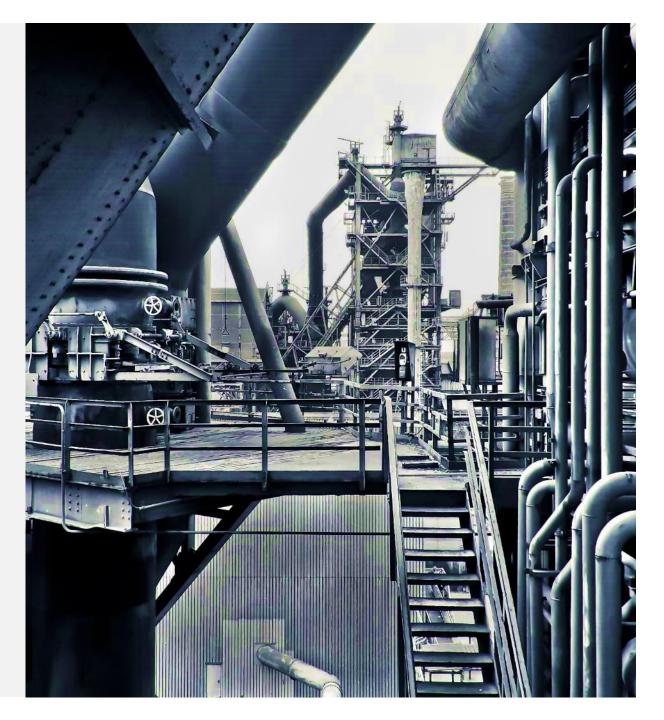
Daily EU ETS carbon market price (€ per tonne)



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- Introduction of Johnny Sjöström
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Summary





- Russia's attack on Ukraine might last a long time
- Steel production cost in Europe is increasing fast
- Raw material prices have already increased significantly
- It is likely that steel availability will decrease 15-20% due to lower imports and an additional 15-20% due to lower production due to lack of raw material or energy
- The U.S. will short term suffer from the lack of pig iron, but new supply routes will be set up soon.
- Global steel prices are increasing production, and the U.S. has a favorable cost position

Thank You



Thank you for attending our SMU Community Chat. And a special thank you to Dr. Sjöström for his participation today.

To contact Michael Cowden: <u>Michael@SteelMarketUpdate.com</u>

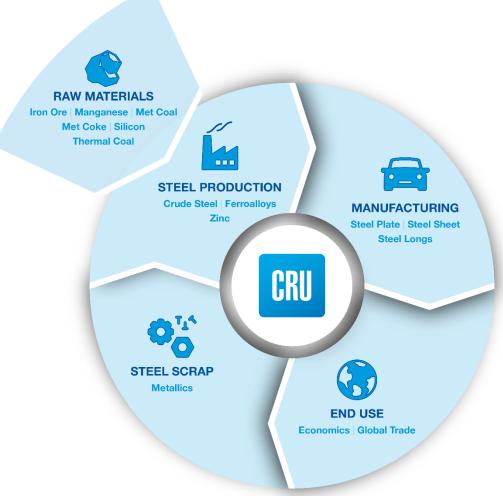
For information about subscribing to SMU, contact Paige Mayhair: <u>Paige@SteelMarketUpdate.com</u>

To participate in our survey, contact Brett Linton: <u>Brett@SteelMarketUpdate.com</u>

To become a data provider for our service center inventory report, contact Estelle Tran: <u>Estelle.Tran@CRUGroup.com</u>

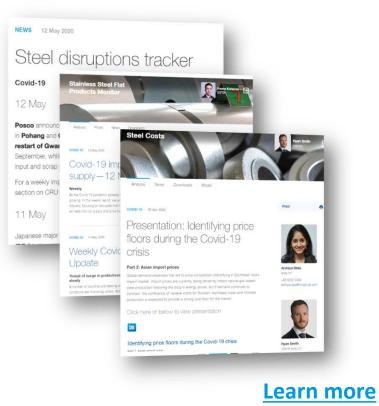
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