

 This week:

Will coal demand for steelmaking remain firm in the coming years?

Despite the green steelmaking rhetoric in Europe, the region's steelmakers will remain dependent on coal for some time to come, while producers in developing economies will continue investments into new coal-based capacity, according to speakers at last week's Eurocoke Summit in Amsterdam.

The green hydrogen-based direct reduction-electric arc furnace route can reduce carbon emissions by 97% versus the conventional blast furnace-oxygen converter route; however, there is a huge obstacle to this. Green energy is needed on a scale hitherto unseen, Stahlinstitut VDEh executive board member Dr Hans Lungen pointed out at the event attended. Another challenge is the limited availability of DR-grade iron ore pellet, which is highly-beneficiated versus BF feed. A shorter-term alternative to direct carbon avoidance is to follow the smart carbon usage pathway, an example of which is the Hisarna ironmaking process installed at Tata Steel IJmuiden. This produces carbon-rich process gas that can be used effectively for carbon capture, utilisation and storage (CCUS) at an EU coastal plant, Lungen observed.

Tata Steel IJmuiden Hisarna Pilot Plant technology manager Johan Van Boggelen said the International Energy Agency has pointed out that a majority of global steelmaking will still be somehow dependent on carbon by 2050. This does not mean the conventional integrated process will remain dominant, but CCUS will increase.

"These firms who say they will use hydrogen won't do so immediately," he observed. The transition phase will involve the use of natural gas which will require some form of carbon capture. Green steelmaking will require the development of hydrogen storage infrastructure, which will take 10 years to build.

Direct smelting through Hisarna is a good alternative, Van Boggelen said, having demonstrated carbon emissions can be cut by 50% without carbon capture, by using 50% scrap feedstock charge and biomass instead of coal. The next step will be to introduce natural gas into the process. Coupled with CCUS, this can result in negative emissions.

The touted use of biomass on a large scale, meanwhile, will require processes to upgrade it to high levels of decarbonisation, while the issue of what to do with increased DRI slag also needs to be considered, Van Boggelen commented. Much of the BF slag currently produced is reused in the cement industry, but this is not possible with DRI slag.

H&W Worldwide Consulting principal consultant Dr. Neil Bristow meanwhile said the challenges of meeting hydrogen production and transport "have been underplayed."

Europe will be at the forefront of the decarbonisation push. India, South America and Southeast Asia will however see BOF-based steelmaking grow to 2035, requiring increased coking coal. These regions have insufficient scrap supply, while there is not enough BF pellet or hydrogen supply globally to ensure their decarbonisation. Growing steel demand can only be met through more integrated steelmaking investments.

"That's going to mean that demand for coking coal, even if Europe declines, is still going to develop strongly outside of Europe," Bristow concluded.

SCRAP

While coal demand can remain elevated, scrap demand is set to continue increasing in the near future, as the ongoing green transition is pushing steelmakers in developed parts of the world to transition toward EAFs.

Some European steelmakers are particularly concerned by the increasing scrap demand going forward and are lobbying the European Commission to impose new regulations to effectively limit scrap exports (Europe is the largest scrap exporter in the world). "Whatever happens, it is clear that one of the main elements of decarbonisation will be scrap and this could create strong tensions on the market," Alessandro Banzato, president of Italian steelmakers association Federacciaio said. "Scrap is generated on the national territory for a quantity of about 15 million tonnes and the rest of the requirement, on average equal to 4-5 million tonnes, is imported from both EU and third countries. The European Union as a whole is instead a net exporter, with a growing trend in recent years. EU-27 scrap exports amount to around 18 million tonnes."

In this weeks Issue:

- ▶ **PAGE 3**
Will positive Chinese sentiment hold?
- ▶ **PAGE 4**
Can EU longs transaction prices recover on high energy costs and lower production?
- ▶ **PAGE 5**
Is the historic bull run over for US sheet prices?
- ▶ **PAGE 6**
Will EU longs production cuts support further Turkish prices?
- ▶ **PAGE 9**
Is green steel here to stay?

KORE INDEX

Index	58%	62%	65%
W-o-w % Change	1.22%	2.14%	1.1%
8 Oct	90.47	121.73	144.59
7 Oct	89.56	117.43	140.31
6 Oct	89.33	117.10	140.02
5 Oct	89.22	116.95	139.88
4 Oct	89.00	117.23	140.20
Average	89.52	118.11	140.00
1 Oct	88.03	115.30	138.08
30 Sep	89.14	116.62	139.47
29 Sep	88.71	115.68	138.60
28 Sep	88.36	114.98	137.46
27 Sep	87.97	115.60	138.46
Average	88.44	115.64	138.50

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Global Overview

North America

- US flats momentum halts
- Still-historic skelp props up US pipe prices
- Biden administration seeks new China angle

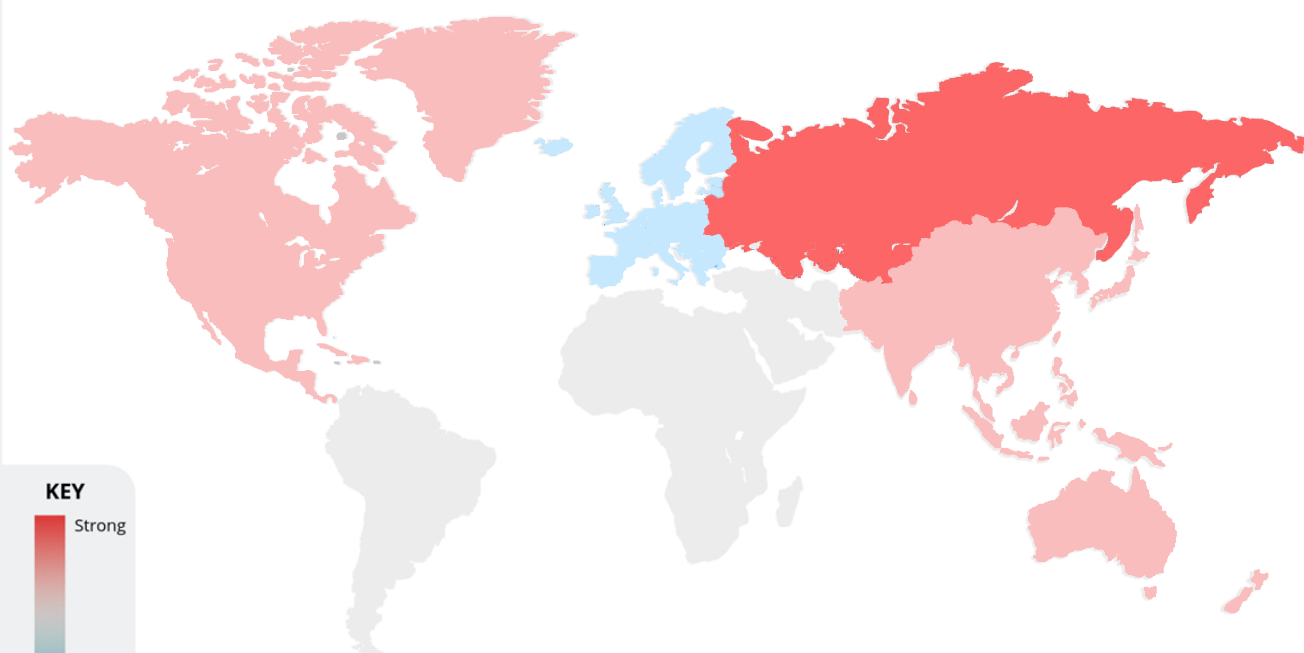
Europe:

- ArcelorMittal announces longs energy surcharge
- Benelux scrap recovers slightly
- Several EU safeguard quotas exhausted

Asia:

- Chinese steel prices recover
- Iron ore jumps
- Chinese buyers look at wire rod imports

KALLANISH STEEL WEEKLY GLOBAL SENTIMENT MAP



KEY



► [Click here to view this map online](#)

CIS:

- Ukraine considers scrap ban to Turkey and Russia
- CIS pig iron and billet look up
-

Middle East:

- Turkish scrap up again
- Longs prices look up
- Turkish HRC prices remain under pressure

📍 Asia

Strong Chinese steel sends iron ore soaring

Iron ore prices have soared to a record high of \$110 per tonne, driven by a combination of factors including a strong Chinese steel market, a tight supply of iron ore, and a global recovery from the COVID-19 pandemic. The price of iron ore has risen sharply since the beginning of the year, with a peak in late September. This is due to a combination of factors, including a strong Chinese steel market, a tight supply of iron ore, and a global recovery from the COVID-19 pandemic. The price of iron ore has risen sharply since the beginning of the year, with a peak in late September. This is due to a combination of factors, including a strong Chinese steel market, a tight supply of iron ore, and a global recovery from the COVID-19 pandemic.

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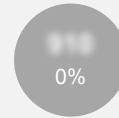
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By: Tomas Gutierrez, Editor Asia

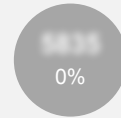
Chinese prices look up again



Prices to watch:



HRC / China
FOB
USD/t



Rebar / China
FOT
Warehouse
CNY/t



Billet / Manila
CFR
USD/t

In the news this week:



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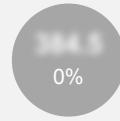
European long mills to increase offers on challenging energy costs

European long mills are expected to increase their offers on challenging energy costs. The industry is facing a difficult situation due to the high energy prices and the impact of the COVID-19 pandemic. The mills are trying to maintain their production levels while keeping their costs under control. The industry is also facing a shortage of raw materials, which is further increasing their costs. The mills are expected to increase their offers to cover the additional costs and maintain their production levels. The industry is also facing a shortage of skilled workers, which is further increasing their costs. The mills are expected to increase their offers to cover the additional costs and maintain their production levels. The industry is also facing a shortage of skilled workers, which is further increasing their costs. The mills are expected to increase their offers to cover the additional costs and maintain their production levels.

Prices to watch:



HRC / N
Europe Ex-
Works EUR/t



HMS 1/2
Scrap (80:20) /
Rotterdam
FOB USD/t



Rebar / Italy
Ex-Works
EUR/t

In the news this week:

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By: Emanuele Norsa, Europe Editor

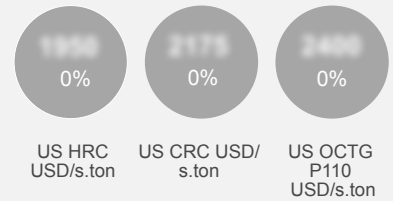
Americas

The Great 2021 Bull Run may have run its course

[illegible]

By: Dan Hilliard, North America Editor

Prices to watch:



In the news this week:

Figure 1. The effect of the number of trials on the number of correct responses. The number of correct responses was significantly higher for the 10-trial condition than for the 5-trial condition. Error bars represent the standard error of the mean.

📍 Middle East & CIS

Turkish scrap rebounds strongly, CIS billet eyes China

Turkish scrap prices rebounded strongly in the Turkish scrap market, following a sharp decline in the previous week. The rebound was driven by a combination of factors, including a sharp increase in demand for scrap from the automotive and construction sectors, and a sharp decline in supply from the scrap mills.

In the CIS market, billet prices are expected to rise sharply in the coming weeks, as demand from China increases. China's steel mills are expected to start producing high-quality billet in the coming weeks, which will lead to a sharp increase in demand for CIS billet.

The CIS market is also expected to see a sharp increase in demand for scrap, as China's steel mills start producing high-quality scrap. This will lead to a sharp increase in demand for CIS scrap, which will in turn lead to a sharp increase in prices.

Overall, the steel market in the Middle East and CIS is expected to see a sharp increase in demand and prices in the coming weeks. This is due to a combination of factors, including a sharp increase in demand from China, and a sharp decline in supply from the scrap mills.

By: Burcak Alpman, Journalist

Prices to watch:



HMS 1/2 scrap
CFR Turkey/
USD/t



Billet FOB
Black Sea/
USD/t



Rebar FOB
Turkey/
USD/t

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Price Movement

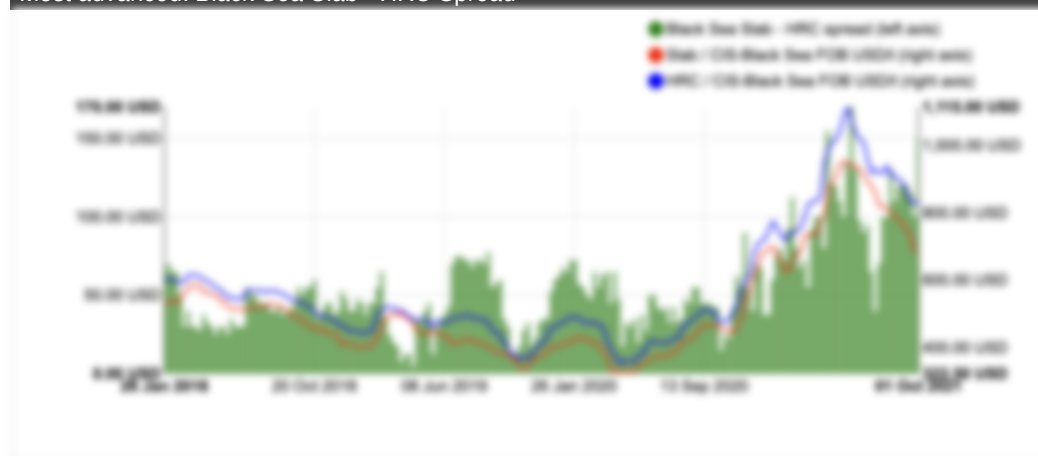
Product Group	Product	Frequency	Latest Update	Latest Price	Change
Flat Products	HRC / Italy Ex-Works EURR	Weekly	04 Oct 2021	900 - 950 EURR	-4.0%
Flat Products	CRC / Italy Ex-Works EURR	Weekly	04 Oct 2021	1150 - 1180 EURR	0.0%
Flat Products	HGG / Italy Ex-Works EURR	Weekly	04 Oct 2021	1150 - 1200 EURR	1.0%
Flat Products	HRC / Turkey FOB USDH	Weekly	05 Oct 2021	850 - 870 USDH	-3.0%
Flat Products	HRC / Turkey CFR USDH	Weekly	05 Oct 2021	830 - 840 USDH	-5.0%
Flat Products	HRC / Turkey Ex-Works USDH	Weekly	05 Oct 2021	860 - 880 USDH	-4.0%
Flat Products	HRC / CIS-Black Sea FOB USDH	Weekly	06 Oct 2021	800 - 810 USDH	-3.0%
Flat Products	Cold Rolled Sheet / China FOT Warehouse CNYS	Weekly	06 Oct 2021	6580.00 CNYS	0.0%
Flat Products	HGG / China FOT CNYS	Weekly	06 Oct 2021	6780.00 CNYS	0.0%
Flat Products	HRC / Japan FOB USDH	Weekly	06 Oct 2021	920.00 USDH	-1.0%
Flat Products	CRC / Japan FOB USDH	Weekly	06 Oct 2021	1050.00 USDH	0.0%
Flat Products	Plate (low grade) / Japan FOB USDH	Weekly	06 Oct 2021	980.00 USDH	-2.0%
Flat Products	CRC / China FOT Warehouse CNYS	Weekly	06 Oct 2021	6520.00 CNYS	1.0%
Flat Products	HRC / China FOT Warehouse CNYS	Weekly	06 Oct 2021	5870 - 5880 CNYS	2.0%
Flat Products	CRC / N Europe Ex-Works EURR	Weekly	06 Oct 2021	1220 - 1270 EURR	0.0%
Flat Products	HGG / N Europe Ex-Works EURR	Weekly	06 Oct 2021	1220 - 1270 EURR	-1.0%
Flat Products	HRC / N Europe Ex-Works EURR	Weekly	06 Oct 2021	1050 - 1100 EURR	-1.0%
Flat Products	HRC / China FOB USDH	Weekly	06 Oct 2021	905 - 915 USDH	0.0%
Flat Products	HRC / Vietnam CFR USDH	Weekly	06 Oct 2021	855 - 865 USDH	1.0%
Flat Products	HRC / N America Ex-Works USDH/ton	Weekly	11 Oct 2021	1940 - 1960 USDH/ton	0.0%
Flat Products	CRC / N America Ex-Works USDH/ton	Weekly	11 Oct 2021	2150 - 2200 USDH/ton	0.0%
Flat Products	Plate / N America Ex-Works USDH/ton	Weekly	11 Oct 2021	1650 - 1680 USDH/ton	0.0%
Long Products	Merchant Bar / Italy Ex-Works EURR	Weekly	04 Oct 2021	880 - 890 EURR	-1.0%
Long Products	Rebar / US Midwest Ex-Works USDH/ton	Weekly	05 Oct 2021	985 - 995 USDH/ton	0.0%
Long Products	Rebar / Middle East CFR USDH	Weekly	07 Oct 2021	670 - 690 USDH	2.0%
Long Products	Wire Rod / N Europe / Ex-Works EURR	Weekly	07 Oct 2021	780 - 820 EURR	-4.0%
Long Products	Wire Rod / SE Asia CFR USDH	Weekly	07 Oct 2021	750 - 760 USDH	1.0%
Long Products	Rebar / Singapore CFR USDH	Weekly	07 Oct 2021	725 - 730 USDH	1.0%
Long Products	Rebar / Turkey / Ex-Works / \$/ / excl. VAT	Weekly	07 Oct 2021	680 - 690 USDH	2.8%
Long Products	Rebar / Italy Ex-Works EURR	Weekly	07 Oct 2021	690 - 690 EURR	-1.0%
Long Products	High Speed Wire Rod / Shanghai FOT CNYS	Weekly	08 Oct 2021	6330.00 CNYS	1.0%
Long Products	Rebar in Coil / Shanghai FOT CNYS	Weekly	08 Oct 2021	6030.00 CNYS	1.0%
Long Products	Wire Rod / Turkey FOB USDH	Weekly	08 Oct 2021	780 - 805 USDH	4.0%
Long Products	Angle Bar / Turkey FOB USDH	Weekly	08 Oct 2021	685 - 710 USDH	2.0%
Long Products	Rebar / N Europe Ex-Works EURR	Weekly	08 Oct 2021	830 - 900 EURR	-2.0%
Long Products	Rebar / China FOT Warehouse CNYS	Weekly	08 Oct 2021	5620 - 5650 CNYS	0.0%
Raw Materials	E3 Demolition Scrap / Italy Delivered Basic EURR	Weekly	04 Oct 2021	350 - 370 EURR	0.0%
Raw Materials	E1 Heavy Demolition Scrap / Italy Delivered Basic EURR	Weekly	04 Oct 2021	320 - 340 EURR	-6.0%
Raw Materials	E3 Demolition Scrap / Germany Ex-Works EURR	Weekly	04 Oct 2021	380 - 440 EURR	0.0%
Raw Materials	E2 & E3 Shipbreaking scrap / Turkey / Delivered basic / USDH	Weekly	06 Oct 2021	445.00 USDH	0.0%
Raw Materials	E8 New cutting scrap (DMP) / Turkey / Delivered basic, TRYR	Weekly	06 Oct 2021	3670 - 4320 TRYR	2.8%
Raw Materials	HMS 1/2 Scrap / Taiwan CFR USDH	Weekly	06 Oct 2021	460 - 460 USDH	0.0%
Raw Materials	Pig Iron / Black Sea FOB USDH	Weekly	07 Oct 2021	480 - 500 USDH	0.0%
Raw Materials	H2 Scrap / Japan Tokyo Bay FAS JPYR	Weekly	08 Oct 2021	48000.00 JPYR	3.0%
Raw Materials	H2 Scrap / Japan Domestic Delivered Basic JPYR	Weekly	08 Oct 2021	50000 - 51000 JPYR	7.0%
Raw Materials	Scrap / China / cfr / \$/	Weekly	08 Oct 2021	590 - 590 USDH	0.0%
Raw Materials	HMS 1/2 Scrap (80/20) / Rotterdam FOB USDH	Weekly	11 Oct 2021	412 - 414 USDH	8.0%
Raw Materials	HMS 1 Scrap / US Midwest Delivered Basic USDH	Weekly	11 Oct 2021	415 - 420 USDH	0.0%
Raw Materials	HMS 80/20 Scrap / Benelux / delivered dock, EURR	Weekly	11 Oct 2021	325 - 330 EURR	8.3%
Raw Materials	E40 Shredded Scrap / Italy Delivered Basic EURR	Weekly	11 Oct 2021	370 - 410 EURR	-1.0%
Raw Materials	E8 Light New Scrap / Italy Ex-Works EURR	Weekly	11 Oct 2021	440 - 480 EURR	0.0%
Raw Materials	HMS 1/2 Scrap (80/20) / US East Coast FOB USDH	Weekly	11 Oct 2021	422 - 424 USDH	4.0%
Semis	Billet / Italy Ex-Works EURR	Weekly	04 Oct 2021	910 - 920 EURR	-12.0%
Semis	Billet / Turkey FOB USDH	Weekly	07 Oct 2021	910 - 920 USDH	-1.0%
Semis	Billet / CIS-Black Sea FOB USDH	Weekly	07 Oct 2021	805 - 815 USDH	1.0%
Semis	Slab / Japan FOB USDH	Weekly	08 Oct 2021	830.00 USDH	-2.0%
Semis	Billet / Manila CFR USDH	Weekly	08 Oct 2021	690 - 700 USDH	0.0%
Tubes & Pipes	Welded Pipe (S235) / Turkey FOB USDH	Weekly	07 Oct 2021	840 - 900 USDH	-1.0%
Tubes & Pipes	OCTG P110 Pipe 5.5" diameter / N America FOB USDH/ton	Weekly	08 Oct 2021	2300 - 2500 USDH/ton	0.0%
Tubes & Pipes	Welded Tubes & Pipes / N America Ex-Works USDH/ton	Weekly	08 Oct 2021	2100 - 2200 USDH/ton	0.0%

Price Spreads

Product	Region	Frequency	Updated On	Latest Spread	Change
Italy Stainless HRC - Stainless CRC spread	Italy	Monthly	01/09/2021	100.00 EUR/t	-48.0%
Italy CRC - HRC spread	Italy	Weekly	04/10/2021	10.00 EUR/t	-48.0%
Turkey HRC - CRC spread	Turkey	Weekly	05/10/2021	85.00 USD/t	-43.0%
Turkey Billet - Angle Bars spread	Turkey	Weekly	07/10/2021	82.50 USD/t	-14.0%
Black Sea HRC - CRC spread	Black Sea	Weekly	06/10/2021	130.00 USD/t	-13.0%
China CRC - HRC spread	China	Weekly	08/10/2021	280.00 CNY/t	-10.0%
East Asia Slab - HRC spread	Japan	Weekly	08/10/2021	90.00 USD/t	-10.0%
Turkey Hrc - Welded Tubes spread	Turkey	Weekly	05/10/2021	-30.00 USD/t	-8.0%
China Billet - Rebar spread	China	Daily	11/10/2021	525.00 CNY/t	-4.0%
Iron Ore China CFR - Turkey Scrap CFR	Qinghai	Daily	11/10/2021	326.12 USD/t	-3.99%
China Billet - Rebar in Coil spread	China	Daily	11/10/2021	720.00 CNY/t	-3.0%
Turkey Billet - Wire Rod spread	Turkey	Weekly	07/10/2021	145.00 USD/t	-2.0%
China Billet - Wire Rod spread	China	Daily	11/10/2021	253.21 CNY/t	0.0%
East Asia Slab - Plate spread	Japan	Weekly	08/10/2021	150.00 USD/t	0.0%
N America HRC - CRC spread	N America	Weekly	11/10/2021	225.00 USD/t ton	0.0%
N America HRC - Welded pipes spread	N America	Weekly	11/10/2021	200.00 USD/t ton	0.0%
Turkey Billet - Rebar spread	Turkey	Weekly	07/10/2021	65.00 USD/t	4.0%
China HRC - CRC spread	China	Weekly	08/10/2021	101.38 USD/t	10.0%
N Europe HRC - CRC spread	N Europe	Weekly	08/10/2021	170.00 EUR/t	10.0%
Italy HRC - CRC spread	Italy	Weekly	04/10/2021	240.00 EUR/t	17.0%
Italy Billet - Merchant Bar spread	Italy	Weekly	04/10/2021	370.00 EUR/t	21.0%
East Asia HRC - CRC spread	Japan	Weekly	08/10/2021	130.00 USD/t	30.0%
Italy Billet - Rebar spread	Italy	Weekly	04/10/2021	165.00 EUR/t	43.0%
Black Sea Slab - HRC spread	Black Sea	Weekly	30/09/2021	150.00 USD/t	50.0%

[Click here to view these spreads online](#)

Most advanced: Black Sea Slab - HRC Spread



[Click here to view this graph online](#)

Most declined: Italy Stainless HRC - Stainless CRC spread



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Special Feature

Green steel is here – and here to stay

The world's leading steel producers are working to reduce the carbon footprint of their products, and there is no sign of slowing down.

As the world's leading steel producers, we are committed to reducing the carbon footprint of our products. This is a challenge, but we are determined to meet it. We are working with our customers and suppliers to find ways to reduce our carbon footprint. We are also investing in new technologies that will help us to produce steel with a lower carbon footprint.

There is a growing demand for green steel, and we are responding to this demand. We are working with our customers to develop new products that are made from green steel. We are also investing in new technologies that will help us to produce steel with a lower carbon footprint. We are committed to reducing the carbon footprint of our products, and we are working to ensure that our products are made from green steel.

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By: Dan Hilliard, North America Editor



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Word of the week

Green Hydrogen



Green hydrogen is made by using a process called electrolysis to split water into hydrogen and oxygen. If that process is powered by a renewable energy source, such as wind or solar power, then the hydrogen is referred to as being green. Green hydrogen is produced from the electrolysis of water, using renewable energy. It can be used as a fuel and energy source in hard-to-decarbonise industries.

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If you found this issue of Kallanish Steel Weekly interesting please let us know, we would love to hear from you.

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