



CHINA STEEL INTELLIGENCE REPORT

China's climate ambition is commercial

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CHINA'S CLIMATE AMBITION IS COMMERCIAL

BY TOMAS GUTIERREZ

China's climate goals have been given increasing prominence, and measures to improve local air quality levels have already had a significant impact on the steel industry. Will China's new climate goals impact steel in the same way as local emissions controls? And will the impact be as deep? In the long term the global steel industry, China included, will need to invest huge sums of money in replacing equipment with low carbon technologies. In the short term however, the picture is less clear.

In this issue we try to break down some of the impacts of China's targets.

TABLE 1. SUPPLY AND DEMAND

	2020	Jan-Jul 2021	Y-o-y	2021 Outlook	Y-o-y
Official Crude Steel Output	1,115	949	-8.00%	1061.4	-5.80%
Apparent consumption	1,035	989	+5.87%	973.3	-1.20%
End user demand	1,031	996	+7.12%	975.2	-0.90%

Source: National Steel Times

FIGURE 1. STEEL PRODUCTION AND DEMAND 2016-2021



Source: National Steel Times

China aims to reach peak carbon emissions in 2030 and net zero emissions by 2060. The steel sector however has been given its own targets of peak emissions by 2025 and net zero emissions by 2060. While the peak carbon target is sooner than the national target, it should be easy to achieve. The much harder carbon neutral target can be achieved over the coming 40 years. A peak in carbon emissions from the steel industry by 2025 comes in line with peak production. In terms of emissions from steelmaking it is difficult to



see how emissions could not already be peaking. China aims to keep 2021 crude steel output level from 2020, while at the same time increasing scrap rates and the proportion of EAF steelmaking.

Exact estimates of China's steelmaking carbon emissions using international standards is difficult due to differing material mixes and differing carbon intensities for imported energy. According to the International Energy Association however, BF-BuF steelmaking generates around 1.2t of CO₂e per tonne of steel in direct emissions, and 1t of emissions through electricity and heat generation. As China's energy mix remains coal-intensive, the indirect emissions are likely to be higher. Scrap-based EAFs meanwhile generate only 0.04t CO₂e per tonne of steel in direct emissions, and 0.3t in indirect emissions. Again, the higher carbon intensity of electricity is likely to boost indirect emissions, but scrap-EAF steelmaking has a clear advantage over BF-BuF steelmaking. The problem with these figures for China however is that EAFs are generally only around two thirds full of scrap. The remainder is DRI/HBI or pig iron. For DRI-EAF steelmaking the IEA gives figures of 1t CO₂e in direct emissions and 0.4t of indirect emissions. This is based on a 70% reliance on natural gas rather than coal in reduction. Some Chinese DRI plants however are using derivatives of coal seam gas, which implies an even higher carbon footprint. The IEA notes that coal-fired DRI releases almost three times as much CO₂e into the atmosphere in direct emissions as a gas-based DRI-EAF plant. The use of pig iron in EAFs meanwhile implies the running of blast furnaces alongside the EAF, increasing emissions further. Blast furnaces remain the most carbon-intensive part of steelmaking. A true emissions figure for Chinese EAFs based on how they are currently operated is therefore likely to be only slightly below a 100% gas-fired DRI-EAF process.

TABLE 2 DEMAND FORECASTS BY SEGMENT

Process	Direct emissions	Indirect emissions	Total emissions
China BF-BuF 2021 e	1.20	1.20	2.40
Global BF-BuF	1.20	1.00	2.20
Global DRI-EAF	1.00	0.40	1.40
China EAF 2021 e	0.60	0.60	1.20
Global scrap EAF	0.04	0.30	0.34

Source: Kallanish Wilson Turner

This means that, even with the unusual materials mix, more carbon-intensive energy supply and other factors taken into account, Chinese EAF production emits only around half of the emissions as Chinese BF-BuF steelmaking. Even with China's total steel production unchanged therefore, a greater proportion of EAF steelmaking should lower emissions. According to China's own targets, emissions should in fact have already peaked, even as it set its peak emissions target at 2025. Even according to Kallanish's forecast that China will not quite be able to cap crude steel output this year at last year's official level, emissions from crude steel output are likely to have declined slightly. Following our expectations through to 2025, emissions from crude steel output in China could decrease as much as 17% by 2025 just through reducing output and boosting EAF production and scrap use. By 2025, EAFs could produce almost 20% of China's crude steel, but would account for only around 10% of its steelmaking carbon emissions.

China's short term carbon emission goals for the steel industry are not particularly ambitious, and mark an easy lead-in for the sector to adjust. This will be a relief for the Chinese steel industry, which is already grappling with other forms of government intervention. Policies to control carbon emissions are only partially in place and the sector faces certain structural challenges in reducing emissions faster than this base case in the near term. In terms of policy, the steel sector will eventually have to take part in the national emissions trading system. The China Iron and Steel Association (CISA) has already been asked to create a methodology for the allocation of emissions allowances.

FIGURE 2. CHINA'S STEELMAKING EMISSIONS TO 2025



Source: Mott MacDonald

According to the five-year plan, steel should be included by 2025, but it is expected to join before that, perhaps as early as next year. Initially allocations are likely to be free, and there is a danger that these could be over-allocated. In the European system allocations were based on pre-financial crisis output levels, giving steelmakers a large surplus of credits for several years into the trading system. In China, even without a crisis, historical allocations could lead to over-allocation as steel output should be declining. Firm emissions reduction targets and a mechanism to adjust allocations on an ongoing basis will be needed.

China's steel sector also faces two structural barriers to cutting emissions quickly in the short term: scrap supply and coal-fired electricity. Chinese domestic ferrous scrap demand from steelmaking is expected to grow to around 300mt in 2025, from around 240mt in 2020. Domestic scrap supply meanwhile is expected to grow at around the same pace. Unless global scrap prices become much more competitive than

FIGURE 3. CHINA'S SCRAP SUPPLY GROWTH STEADY BUT MIXED



Source: Mott MacDonald China Scrap Markets Report



During that new technology will be key. For a relatively smaller investment, China could ensure that it owns as much of that technology as possible. Instead of being forced to import equipment with that investment, it could serve domestic engineering companies. During the technology also means that China could have access to a much larger market. China is currently home to more than 50% of steelmaking capacity, but in forty years' time its share will be much smaller. The global market for this equipment will be larger than the domestic market, and so by owning the technologies China could turn a situation where it has no choice but to invest large sums of money to sustain its industry, into one in which it dominates a market for equipment larger than any previously seen in the steel sector.

China has begun to move in this direction, and unsurprisingly it has turned to its key policy destination, Baxiao Group, to lead the way. The largest carbon neutral fund in China is being established by Baxiao in conjunction with the National Green Development Fund Co., China Pacific Insurance (Group) Co. and CCB Financial Asset Investment Co. This will initially run a CNY 10 billion fund, and aims to raise this to CNY 50 billion. The fund not only intends to invest in projects which support emissions reductions, it also aims to invest in the development of technologies that are carbon neutral. Baxiao Group has already won headlines for overtaking ArcelorMittal as the world's largest steelmaker. The next companies in its sights may not be steelmakers, but the engineering firms which are positioning themselves to benefit from coming surge in investment.

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SUPPLY & DEMAND OVERVIEW

Chinese steel demand fell further in July as the summer slump extended to new lows. China's steel inventory rate increased to the highest level since February and the second highest since March 2020. This was despite crude steel production falling to the lowest since April 2020. Crude steel output in July was down 7.0% month-on-month and 8.4% year-on-year at 86.75 million tonnes, according to the National Bureau of Statistics (NBS). Over seven months this was up 8% at 646.33bmt. Data from the China Iron and Steel Association (CISAI) shows that output likely declined a little further in August, although output was bottoming out in mid-August.

Data derived from satellite images with the assistance of Earthstar confirms that output was lower again in August. Across six key steelworks, average activity readings from their blast furnaces were down in August compared to July at all of them. Shougang, Baosteel in Shanghai and Wuhan Iron and Steel saw minimal declines over the month. Borealis in the northwest and both Haidan Iron and Steel and Shougang Jingang in Hebei saw significant declines in output however. There was no significant reduction in output in the last week of the month however, suggesting that output cuts have now bottomed out. Considering the high output in summer 2020, output is certainly expected to remain down significantly y-o-y, and the pbl y-o-y growth rate should fall steadily as more data is released.

Adjusting for trade and yield loss, China's apparent steel demand in July came in at 76.80bmt, down 7.0% m-o-m and 13.4% y-o-y. Over seven months, apparent steel demand is now up only 3.0% y-o-y at 586.25bmt. Concerningly for the market however, inventory levels continued to increase over the month, as

FIGURE 4: CHINA'S CRUDE STEEL OUTPUT



Source: National NBS output



FIGURE 4: SUBSIDIZED MILK'S RESERVE OUTPUT



Source: National Tariff Board

and user demand declined a little further from June. End user demand dropped 3.8% month and 10.8% y-o-y to 75 billion in July, bringing the ytd total to 588.42bn, up 7.1% y-o-y. The inventory rate in July also increased, explaining the growing pressure on the market which crashed prices in August. The inventory rate hit 115.2% in July, compared to 108.7% the previous month and 100.8% a year earlier. Inventories however have bottomed out in August thanks to lower production levels. Whether steel markets have turned a corner as a result will depend on the strength of demand during the seasonally stronger September-October.

FIGURE 5: SUBSIDIZED MILK'S RESERVE OUTPUT



Source: National





'Common prosperity' has become the dominant watchword of policy-making over the last month with a series of coordinated speeches and articles promoting the idea and some significant responses by companies in the rights of regulators. This followed a meeting on 17 August which discussed a roadmap to common prosperity, which is being set up as a major policy objective for Xi Jinping's next term in office. The phrase comes from Deng Xiaoping. Some Chinese were supposed to get rich first, but the end goal was for those newly-rich to pull up the rest of China behind them to achieve common prosperity. The current government believes those who have gotten rich may have forgotten why they were allowed to do so. The government has been keen not to scare the wealthy too much though. Han Wenbin, deputy director of the Office of the Central Financial and Economic Affairs Commission pointed out that this does not mean 'taking the rich to give to the poor'. Tech giants have been in the firing line over the recent months, and several such as Alibaba and Pinduoduo have announced new funds to support the common prosperity goal in order to win favour with the government. Alibaba has promised to spend CNY 100 billion by 2025.

The difficulties for the sector to raise funds are deepening. After restricting bank loans and trust fund lending to developers, China has now also moved against private equity financing. In August the Asset Management Association of China said it would no longer accept applications for private equity firms to establish investment vehicles focused on real estate. By the end of 2020 some CNY 843 billion of private equity money was invested in this way, the association says.

China is looking to bolster its government finances, meaning less spending on projects and less fiscal support for the economy. This follows budget blow-outs in 2020 in response to the Covid crisis. Over January-July, government revenues were officially up 20% y-o-y at CNY 13.77 trillion, according to the Ministry of Finance. Government expenditures however grew only 3.2% y-o-y to CNY 13.75 trillion. Both the Politburo and the Chinese Academy of Fiscal Sciences have come out against any additional fiscal stimulus in H2 despite flagging economic growth.

The State Administration for Market Regulation (SAMR) put semiconductor markets on notice last month that it would act against anyone found hoarding or driving up chip prices for profit. The global chip shortage has had a major impact on production in the automotive and other sectors. China is highly reliant on imports for a number of kinds of chips and plans to prevent stockpiling of chips to ensure a smooth flow of material to manufacturers.





END USERS

REAL ESTATE

China's real estate sector remains under pressure and data showed a concerning slowdown in July. In part this is due to the strong base for comparison in 2020, but it also comes as the sector undergoes a forced restructuring of its debts at the same time as a slowdown in sales growth. Real estate investment over January-July rose up 10.7% to CNY 5.48 trillion, but growth has fallen steadily through the year. In July alone, investment rose up only 1.4% year-on-year at CNY 1.275 trillion. That slowdown has had an impact on new starts, which are now down 0.9% year-on-year over seven months to 1.188 billion square metres. That is the first year-to-date year-on-year decline in new starts since 2020. In July alone new starts slumped 21.8% year-on-year to 176.8 million sqm. Competitors have faced better as developers move projects to market. Over seven months these rose up 26.7% to 477.82 million sqm, with July completions up 26.7% at 55.27m sqm.

One of concern were real estate sales. Over seven months these are still up 21.8% year-on-year at 1.178 billion sqm, but growth is down from 104.8% over the first two months. July saw sales fall year-on-year for the first time since April 2020. They were down 8.8% to 138.15 million sqm. Better news for developers was that average sales prices were up slightly both month-on-month and year-on-year at CNY 15,270/sqm. Prices are still only up 1.8% year-on-year however, limiting revenue growth at developers.

With financing restrictions tightening last Friday (March), developers are turning to more drastic measures to raise much-needed funds. Trustland Evergrande is in talks to sell off its New Energy Vehicle subsidiary, which has yet to sell a car, to prevent its losses from further undermining the performance of the parent. Evergrande shares have fallen by more than 40% so far this year and it has had to credit rating downgraded by both Moody's and S&P.

FIGURE 2. REAL ESTATE INVESTMENT IN CHINA



Source: NBS, National Bureau of Statistics

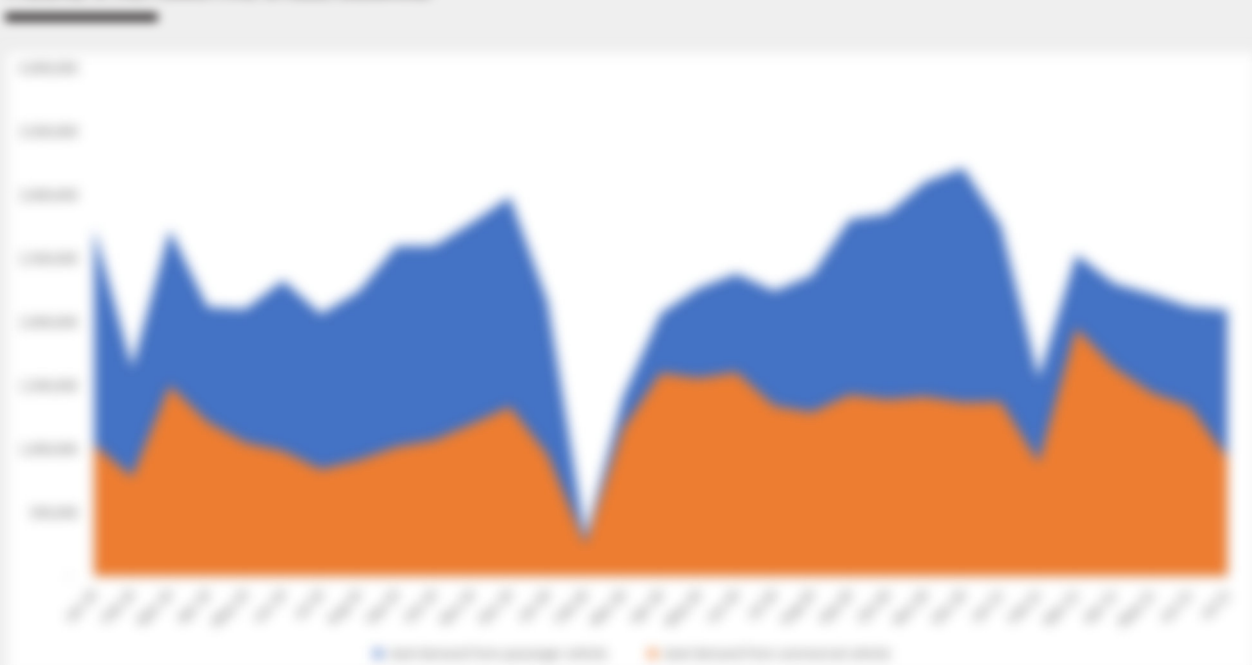
AUTOMOTIVE

Chinese automobile output declined further to 1.88 million units in July, representing a decrease of 4.1% on both month-on-month and year-on-year, according to data from the China Association of Automobile Manufacturers (CAAM). Total production in the January-July period was pushed to 15.68m units, an increase of 17.2% y-o-y. New energy vehicles set a new monthly record high at 260,000 units, thus, its cumulative production stood at over 1.5m units, which is already higher than 2020's record total production.

Monthly implied finished steel demand calculated by Haldor from the CAAM data dropped by 10% month to 3.05 million tonnes, breaking year-to-date demand through July to 25.24m, up 17.86% y-o-y, which is the lowest rise registered in any month this year. The problem of chip

shortages will deepen, however, car producers, but the negative impact is beginning to ease. Commercial vehicle production fell rapidly due to the implementation of the sixth edition of the national emission standards in various regions starting in July, which requires car companies to make changes to meet latest emission requirements.

FIGURE 5. AUTOMOTIVE STEEL DEMAND



Source: CAAM, Haldor International



WHITE GOODS

China's white goods sector continues to falter in a deep summer depression. July data shows a drop in production of all major products but especially air conditioners and washing machines. In part the y-o-y decline in output is due to stimulus and catching up in summer 2020. Steel demand levels remain higher than in summer 2019.

In July, finished steel demand from white goods production was down 5.1% y-o-y at 1.2Bmt, the lowest reading since February. Over January-July, implied demand is still up 16.2% y-o-y forecast at 8.7Bmt due to very weak activity in Q1 2020. The sector is expected to continue to underperform in the

coming months despite a seasonal recovery. Full-year expects demand from the sector to be up 7.2% this year at around 16.6Bmt.

FIGURE 16 WHITE GOODS DEMAND
MONTHLY



Source: IHS, National Development



SHIPBUILDING

China's shipbuilding completions in July fell from a high of over 4 million deadweight tonnes in May and June. The July data is still slightly higher than the same period last year, however. According to China Association of the National Shipbuilding Industry (CANSI) data, China's shipbuilding completions reached 26.18 million deadweight tonnes in the first seven months of 2021, up by 25.1% year-on-year. However, completions in July declined to 3.05m dwt, down by 15.1% on month.

This implies that about 8.05m of steel was consumed by the shipbuilding sector during the first seven months of 2021, including 1.12m consumed in July only. New orders in the shipbuilding industry continue to rise, thereby also increasing orders in hand. From January to July this year, orders for

new ships were 45.22 million dwt, a year-on-year increase of 221.2%, to the end of July, orders in hand were 50.87 million dwt, an increase of 15.8% year-on-year, and an increase of 25.1% from the end of 2020.

During the reporting period, the global market share of China's shipbuilding industry increased and the nation retained its place as largest shipbuilder. Shipbuilding completions, new orders and orders in hand accounted for 45.1%, 52% and 48% respectively of the world's total in dead weight tonnage.

FIGURE 11. SHIPBUILDING COMPLETIONS



Source: CANSI announcements

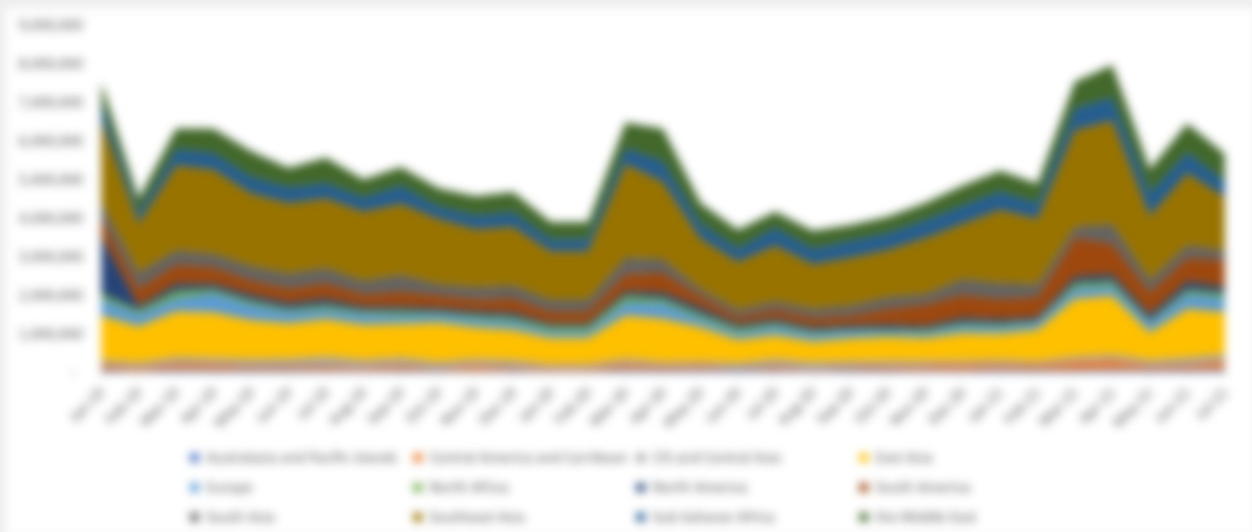




TRADE

According to China's customs data, net steel exports in July were 3.574mt, down 8% m-o-m, but up from net imports of 1.080 million t in July 2020. Over the opening seven months of this year, net exports were up 88% y-o-y, at 27.844mt. Exports in July were 5.677mt, falling 12% from June, but rising 38% from this time last year, while over seven months exports were up 31% to 43.057mt. China's export volumes continue to struggle with high offer prices and weak destination markets. While new export taxes have not materialised, and are now considered unlikely, the uncertainty has further demotivated buyers. Delays at ports and requests by CISA to mills to reduce export quotas have also left exporters in a difficult position.

FIGURE 12. CHINESE EXPORTS BY REGION



Source: GTT, Kallanish

In July 2021, the largest importer of China's steel was Southeast Asia, where it exported 1.374mt of steel, a dip of 26.1% from the previous month and 3.9% from July 2020. However, through January-July this year exports to this region expanded 25.8% y-o-y to 13.650mt. The second biggest export destination was East Asia, whose proportion of China's steel shipments decreased 14% from June this year but was up 77.7% from last year July, to 1.090mt. Over seven months East Asia's volumes expanded 33.5% on-year to 7.58mt. Another 701,105t went to South America in July, up 15.2% m-o-m and 186.1% y-o-y. During the first seven months, this increased 105.9% y-o-y to 4.734mt. The Middle East saw its share of China's steel output go up by 71.3% y-o-y but fall 6.2% m-o-m to 696,377t. Over the opening seven months of the year China's exports of steel to the Middle East were up 22.3% y-o-y, at 4.6mt.



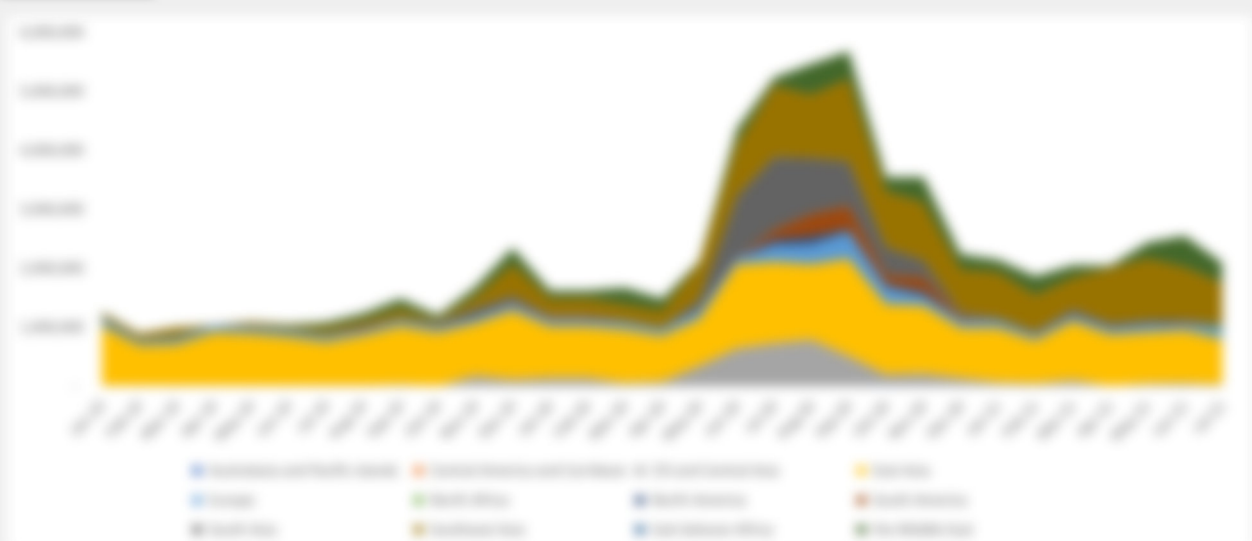
FIGURE 14. CHINESE EXPORTS BY PRODUCT



Source: ITC National

The product group most exported by China remains fats. China saw fats exports of 4,086mt in July, down 12.3% m-o-m and 80.3% y-o-y. Over seven months combined fats product exports equalled 28,21mt, up 44.2% compared to last year. Of the total volume of fats exports, 175,077t was carbon and alloy steel HRC to Vietnam in July, a 45.3% m-o-m decrease, but a 140% increase y-o-y. Over seven months exports to Vietnam of these products were up 104% y-o-y to 2,795mt. Meanwhile, carbon and alloy steel HRC exports to Korea were 222,568 in July, a m-o-m fall of 3%, but a y-o-y surge of 469%. Over January-July China managed carbon and alloy steel HRC exports to Korea of 2,795mt, up 104% y-o-y. Global exports of galvanized steel coils in July were 1,305mt, a decrease of 6% in relation to last month, but an increase of 52% compared to this month last year, bringing the total to 8,281mt over seven months, up 38% y-o-y. Global carbon and alloy CRC exports in July meanwhile reached 881,447t, down 14% m-o-m but still up 201% y-o-y. Over seven months, overall exports of this product were up 112% y-o-y, at 3,885 mt. The amount of logs exported by China was down 5.5% m-o-m but up 4.3% y-o-y, at 525,433. Over the opening seven months logs product exports hit 3,548mt, up 21.3% y-o-y. China also had pipe exports of 831,588, an m-o-m dip of 15.4% and a y-o-y decline of 11.3%. Between January-July total pipe exports were down 5.7% on-year, at 4,995mt.

FIGURE 15. CHINESE EXPORTS BY REGION



Source: ITC National

Meanwhile, China's imports in July were 2.08bnt, down 18% from the previous month and 60% on-year, meaning through the opening seven months imports were down 16% to 15.21bnt. China imported 768,629 of steel from East Asia in July, down 13.6% m-o-m and 43.8% y-o-y. It imported a total of 6.32bnt of steel from East Asia over January-July, down 13.7% y-o-y. Imports from Southeast Asia were down 23.2% from June and 45.1% from this point in 2020 at 683,748. However, over seven months overall imports were up 45.1% y-o-y to 5.017nt. China also imported 327,877t of Middle Eastern steel in July, falling 37.1% from the month prior, and 101.8% y-o-y. Over seven months it imported 1.82bnt from the Middle East, decreasing by 65.1% year-on-year.

FIGURE 16. CHINESE IMPORTS BY PRODUCT



Source: ISTE, Refinitiv

Semis were again the most imported product by China in July. However, these were down 19.7% m-o-m and 60.2% y-o-y at 1.04bnt. During January-July combined semis imports were down 16.8% at 6.81bnt. In July, China imported 113,563t of semis from Vietnam, down 43% m-o-m and 74% y-o-y. Over seven months semis imports from Vietnam hit 1.51bnt, up 22% y-o-y. Its July imports of semis from Indonesia meanwhile were 236,053t, down 28% m-o-m but up 9% y-o-y. Over January-July, it sourced 1.89bnt of semis from Indonesia, a climb of 110% from last year.

The Middle East supplied 333,023t of semis in July. This was a decrease of 38% from the previous month, but an increase of 150% from last year, whilst imports gained 69% y-o-y across seven months, to 1.887nt. The country also saw flat imports of 726,498t, a 14.7% m-o-m dip and a 66.8% y-o-y dip. Flat product imports reached 6.013nt over January-July, down 24.4% compared to the same point in the previous year. China's longs imports were 277,799t in July, dipping 21.8% m-o-m and 21.1% y-o-y, while seven-month imports were up 21.7% y-o-y to 2.137nt. Japan remains a key supplier: in July, 195,151t of their carbon and alloy steel HRC was imported by China, which represents a m-o-m fall of 4% and 21% y-o-y. Over the year to July, China imported 1.372nt of Japanese carbon and alloy steel HRC, a decrease of 4% from a year earlier. The volume of pipes imported by China in July was 36,133t, a 4.7% m-o-m rise, but a 2.9% y-o-y dip. Combined pipes product imports were up 4.4% during January-July, totalling 247,339t.





MARKETS

Chinese steel prices fell sharply in August. Although end user demand has been weak, the key driver was the collapse in iron ore prices through much of the month as expectations for steel production were not able to sustain previous high prices. Prices had stabilised a little by the end of August, but there remain significant doubts about the strength of demand over the coming two months.

LONGS

In Shanghai at the end of August, 20mm HRB400 rebar was trading at CNY 5,060, 5,070/tonne (\$776/MT), up CNY 100 from the week before but still CNY 1000 lower than the end of July. The rebar spot market had begun to recover at the end of the month as sentiment recovered after the collapse in iron ore prices. Actual end user demand however has seen little recovery. The biggest support to the market was the drop in steel output in August, which has prevented a further rise in steel inventories.

Wire rod export offers have barely moved over the month. Chinese mills are reducing export quotas and focusing on the domestic market. Destination markets meanwhile are grappling with covid and the coming monsoon season. Suppliers from other regions into Southeast Asia with more competitive offers are struggling to secure deals, let alone high-priced Chinese mills. Kalamati assessed 6.3mm diameter mesh-grade wire rod at \$820/tonne for China, unchanged from a week earlier and level from a month earlier.

Table 1: LONGS PRICES

	2020	y-o-y	Jul-21	Aug-21	M-o-m	Y-o-y
Rebar (CNY/t)	3,597	-4.5%	5026	5,060	0.7%	40.8%
Wire rod fob (\$/t)	481	-2.4%	819	823	0.5%	69.0%

Source: Kalamati

Figure 1: LONGS PRICES



Source: Kalamati



FLATS

5.5x1,300mm Q235 HRC meanwhile was traded at around CNY 5,700-5,720 at the end of August, up CNY 20 from the previous Friday but down CNY 200 from end-July. Chinese flat product demand is waiting for the autumn rebound in demand. So far however, flat consuming sectors such as white goods manufacturing have shown little sign of a rebound. End user demand remains low and traders are unwilling to restock until they are confident that iron ore has no further to fall.

On export markets HRC offers had finally begun to come down by late August, but they remain firmly higher than buyers' target prices and higher than offers for other origins. The most competitive 55400 HRC offers, which are due for September/October shipment, were confirmed by sources in Chinese steel mills at \$920/tb China, while some mills are still offering at

over \$1,000/tb. Traders are searching for buying interest with some lower offers but with no material at lower prices to back these up. Kallanish assessed 2mm 54E1000 HRC at \$905-910/tb China at the end of August, a drop of \$20/t compared to the previous week and \$25/t on-month.

TABLE 14: FLATS PRICES

	2020	y-o-y	Jul-21	Aug-21	M-o-m	Y-o-y
HRC (CNY/t)	3,830	1.1%	5,820	5,769	-0.9%	41.2%
HRC tb (\$/t)	484	-1.2%	919	928	1.0%	86.3%

FIGURE 17: FLATS PRICES



Source: Kallanish

RAW MATERIALS

Seaborne iron ore prices slumped through August, only increasing again in the last week of the month. Iron ore prices fell in stages, in particular in the first and third weeks of the month. The correction has been accepted as a natural reaction to the weaker outlook for Chinese economic growth and the move to severely restrict steel production over the rest of the year. Although some fluctuation is likely, and prices could gain if steel prices increase in the autumn, iron ore is not expected to recover to its previous peak above \$100.

The **Indian HCRB 60% Fe** index ended the month at \$100.70 per metric tonne, down \$40.00 from a month earlier. The **Indian HCRB 60% Fe** index slumped \$20.70 on-month to \$116.00 per ct, and the **HCRB 60% Fe** index fell \$40.00 to \$100.00 per ct. The slowdown in steel output and disruptions moving material in and out of ports have left port stocks fluctuating, ending the month slightly higher. Across 30 ports, iron ore stocks increased another 1.12 million tonnes in the last week of August to 121.00m, according to a count by **SIEM**. That was 760,000 higher than at the end of July.

Chinese domestic scrap prices declined far less dramatically than iron ore for most of the month, and then recovered as September approached. **National** assessed **heavy scrap** delivered to mills in the Yangtze River Delta at CNF 2,760 on 31 August, down only CNF 260 from the end of July and up CNF 210 from a mid-month low. August's scrap input volumes amounted to 45,210 tonnes, an increase of 10% month-on-month and a surge of 2.400% year-on-year. This helped total scrap inputs to reach 420,000 in the first seven months of the year. The input market in August, however, was really short and raw materials prices were in turmoil and Chinese steel output was being restricted. **National** assessed **Chinese HCRB 101** inputs at \$600 per ct, unchanged on-month and up \$100 from the end of July.

TABLE 2.1. RAW MATERIALS PRICES

	2008	2009	Jul 09	Aug 09	8-wk ch	Y-o-Y
HCRB 60% Fe (non-ore, \$/tonne)	100	16.4%	211	161	-23.2%	32.1%
HCRB 60% Fe (non-ore)	100	16.4%	266	186	-22.2%	64.2%
HCRB 60% Fe (non-ore)	97	16.2%	176	130	-26.2%	23.1%
Heavy scrap delivered mill	2,640	0.4%	2,762	2,740	-0.4%	38.2%

Source: **National**



FIGURE 16. FIVE MATERIALS PRICE INDEX



Source: Kallanish



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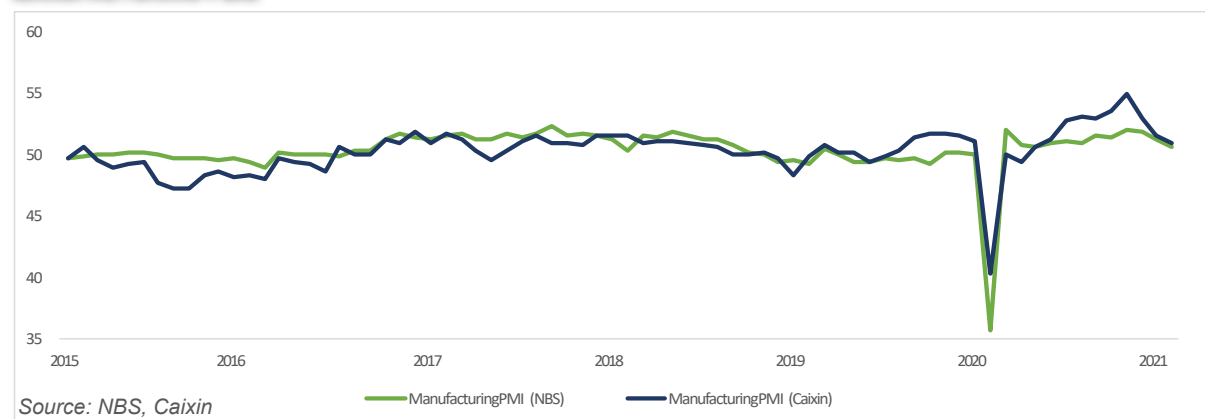
Steel Data	Mar	Apr	May	Jun	Jul
Crude steel production	94.02	97.85	95.45	93.88	95.79
Steel exports	7.54	7.97	5.27	6.46	5.67
Steel imports	2.06	2.05	2.44	2.56	2.10
Apparent steel consumption	94.48	97.79	92.33	89.30	78.90
Calculated real demand	92.57	105.16	100.05	77.94	75.55

INFLATION



Macro Data	Mar	Apr	May	Jun	Jul
Manufacturing PMI (NBS)	51.90	51.10	51.00	50.90	50.40
Manufacturing PMI (Caixin)	50.80	51.90	52.00	51.30	50.30
CPI	0.40%	0.90%	1.30%	1.10%	1.00%
PPI	4.40%	6.80%	9.00%	8.80%	0.00
F&E (CNY billion)	9.60	14.38	19.39	25.59	30.25
Industrial Value added	14.10%	9.80%	8.80%	8.30%	6.40%

MANUFACTURING PMI



Downstream Data	Mar	Apr	May	Jun	Jul
Real estate investment *	2757.80	4.024	5.432	7218	8490
New Construction starts ytd**	381.63	539	743	1013	1189
Completed construction ytd**	191.22	227	276	365	418
Real estate sales ytd**	360.07	503	664	896	1016





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