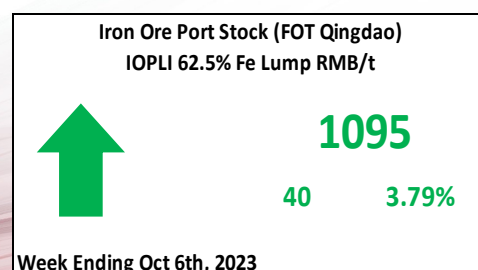
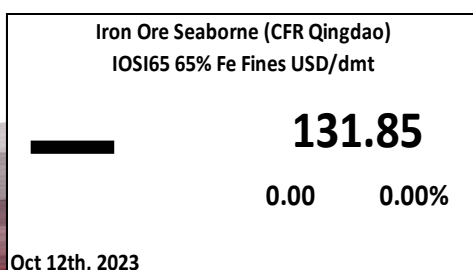
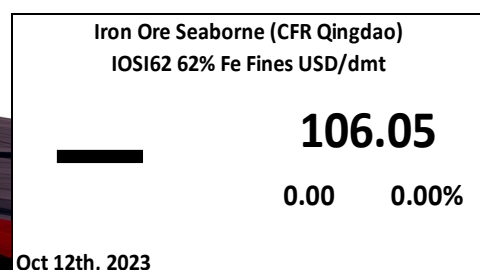
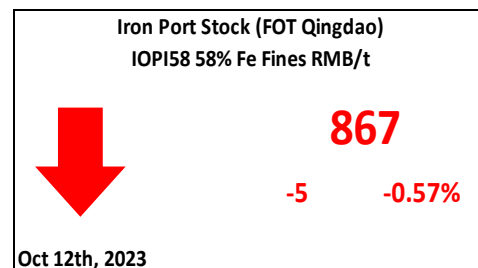
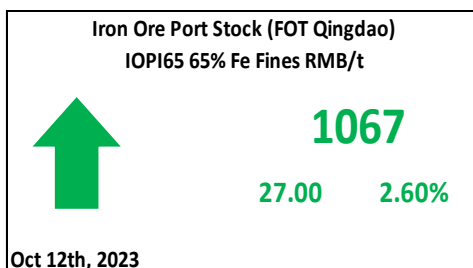
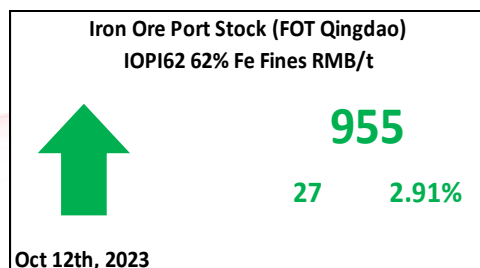


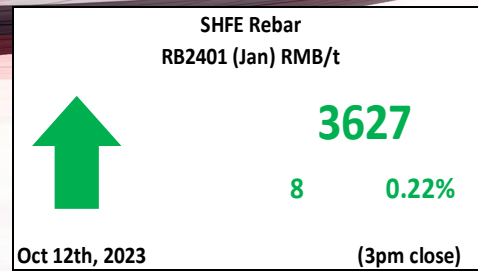
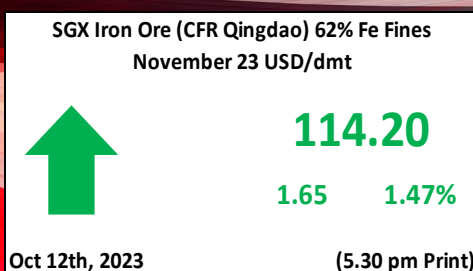
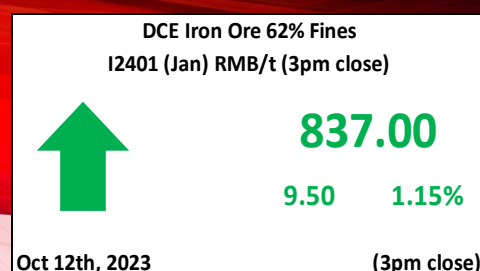


MMi Dashboard

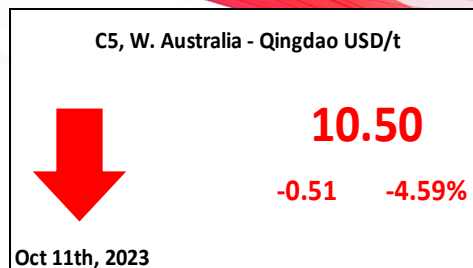
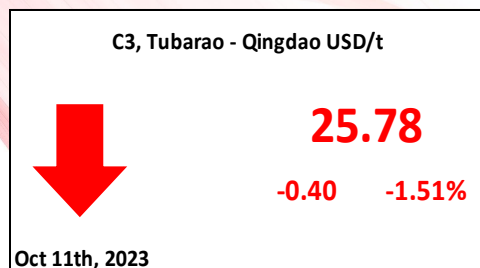
Iron Ore Price Indices



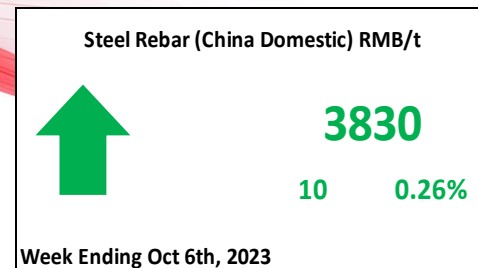
Exchange Traded Contracts



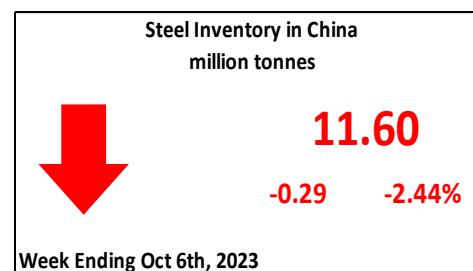
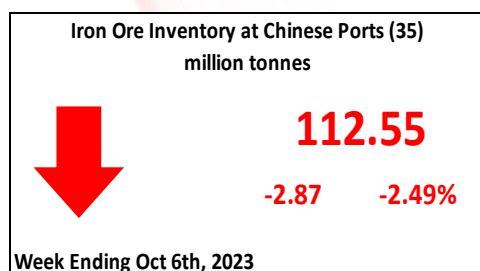
Freight Rates



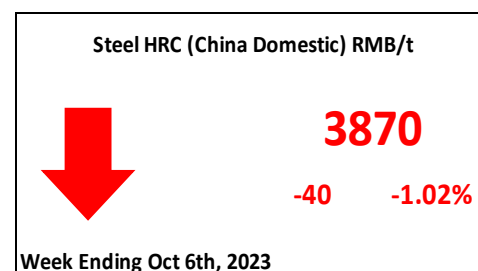
Steel Price



Inventory Levels



Steel Price



IRON ORE PORT STOCK INDEX (IOPI)

Oct 12th, 2023		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ¹						
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low ²	High ²	Price	Change	Change %	MTD	YTD	Low ²	High ²
IOPI62	62% Fe Fines	955	27	2.9%	869	880	858	892	124.23	3.62	3.0%	120.06	120.58	117.93	122.93
IOPI58	58% Fe Fines	867	-5	-0.6%	813	798	761	793	113.67	-0.68	-0.6%	113.29	110.17	105.29	110.04
IOPI65	65% Fe Fines	1067	27	2.6%	981	992	970	1003	139.24	3.62	2.7%	136.05	136.43	133.84	138.73

IRON ORE SEABORNE INDEX (IOSI)

Oct 12th, 2023		CFR Qingdao, USD/dry tonne						
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low ²	High ²
IOSI62	62% Fe Fines	106.05	0.00	0.00%	113.38	113.38	83.90	146.75
IOSI65	65% Fe Fines	131.85	0.00	0.00%	124.37	124.37	94.45	147.55

MARKET COMMENTARY

DCE iron ore futures rose by 1.64% today, the main contract closed at 837. The steel mills are active to purchase. The overall trading sentiment of the market is general. PBF at Shandong port deal 919-920 yuan/mt. PBF at Tangshan port deal 935-957 yuan/mt. From the news, the Ministry of Housing and Urban Rural Development stated that mega cities are actively and steadily promoting the transformation of urban villages, and the policy environment is warming up, boosting market sentiment. In terms of the industrial chain, the demand for inventory reduction of finished products is acceptable, and the negative feedback risk is reduced. According to the inventory data of the top ten ports tracked by SMM, all major varieties of inventory decreased this Thursday, with steel mills experiencing a decline in profits and weaker production enthusiasm. Speculative demand has decreased, and there are still some cases of just in need of goods. As the heating season approaches in the northern region, the production of sintering machines may be further tightened, and the demand for blocks and balls is still relatively optimistic. However, considering the strong price of coke, the cost-effectiveness of lump ore may be lacking. At present, the supply of iron ore is loose and the demand is declining. In the future, the focus will be on industrial policies and steel mill production. In the short term, it is recommended to carry out a small amount of short selling operations, while the spot market is mainly cautious and wait-and-see.

IRON ORE PORT LUMP INDEX (IOPLI)

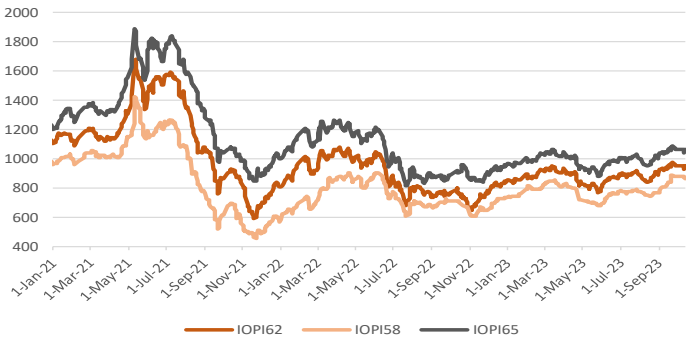
Week Ending Oct 6th, 2023		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ³						
Index	Fe Content	Price	W-o-W	Change %	MTD	YTD	Low ²	High ²	Price	W-o-W	Change %	MTD	YTD	Low ²	High ²
IOPLI62	62.5% Fe Lump	1095	40	3.8%	941	1018	770	1055	137.12	5.52	4.19%	120.38	134.87	94.72	137.26

IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

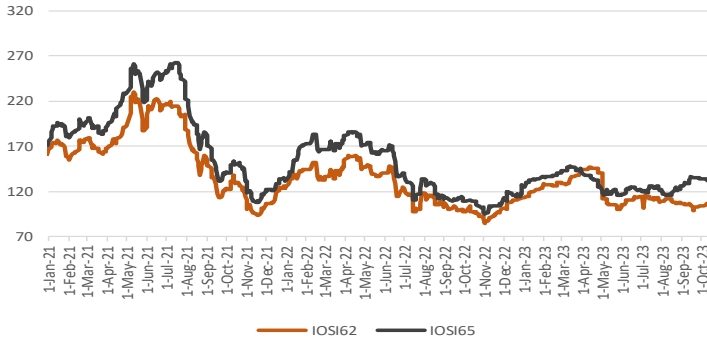
Week Ending Oct 6th, 2023				RMB/tonne (excluding tax) ³				USD/tonne (excluding tax) ³			
Province	Region	Product	Basis	This week	Change %	Low ²	High ²	This week	Change %	Low ²	High ²
Hebei	Hanxing	66% Fe Concentrate	Dry	1099	3.1%	779	1645	153.21	3.39%	110.31	255.69
Hebei	Qian'an	65% Fe Concentrate	Dry	1120	1.4%	780	1630	156.14	1.65%	110.51	251.57
Liaoning	Anshan	65% Fe Concentrate	Wet	815	1.9%	620	1310	113.62	2.17%	87.40	202.32
Shandong	Zibo	65% Fe Concentrate	Dry	1207	3.3%	800	1752	168.27	3.64%	117.19	272.32
Week Ending Oct 6th, 2023				This week	Change %	Low ²	High ²				
China Mines Concentrate Composite Index RMB/WT				1009.24	1.93%	706.36	1511.22				

¹ Exchange rate applied: RMB/USD = 6.7522 ² Last 12 months
³ Weekly exchange rate applied: RMB/USD = 6.87528

IRON ORE PORT INDEX, FOT QINGDAO (RMB/WT)



IRON ORE SEABORNE INDEX, CFR QINGDAO (USD/DMT)



IRON ORE PORT STOCK INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Oct 12th, 2023		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne						
Index	Fe Content	June	July	August	September	MTD	QTD	YTD	June	July	August	September	MTD	QTD	YTD
IOPI62	62% Fe Fines	863	896	873	945	869	881	880	112.38	116.58	113.28	122.79	120.06	120.90	120.58
IOPI58	58% Fe Fines	748	777	759	838	813	792	798	97.98	101.68	99.13	109.67	113.29	109.35	110.17
IOPI65	65% Fe Fines	975	1008	985	1057	981	993	992	127.41	131.57	128.31	137.74	136.05	136.72	136.43

IRON ORE SEABORNE INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Oct 12th, 2023		CFR Qingdao, USD/dry tonne							FREIGHT RATES - DRY BULK US\$/wet tonne						
Index	Fe Content	June	July	August	September	MTD	QTD	YTD	Route	Designation	Change	Change %	Low ²	High ²	
IOSI62	62% Fe Fines	110.54	108.57	109.02	104.25	112.14	112.41	113.38	W. Australia - Qingdao	C5	10.50	-0.51	-4.59%	3.57	16.77
IOSI65	65% Fe Fines	135.30	147.39	119.61	132.40	122.86	123.58	124.37	Tubarao - Qingdao	C3	25.78	-0.40	-1.51%	6.70	36.40

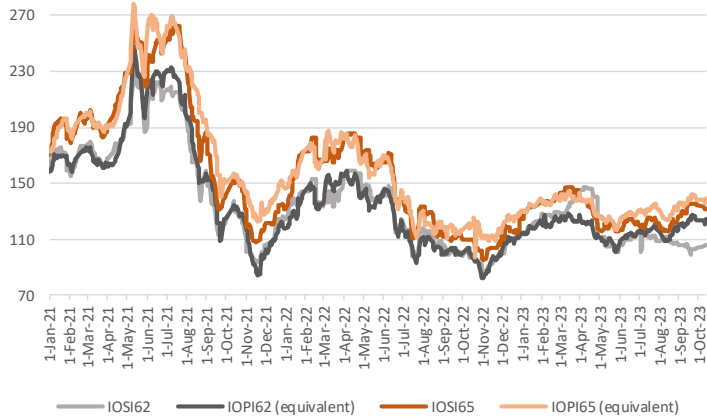
IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Week Ending Oct 6th, 2023		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ¹						
Index	Fe Content	June	July	August	September	MTD	QTD	YTD	June	July	August	September	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	969	980	951	1043	933	938	1017	121.33	122.51	118.96	130.25	119.96	120.38	134.98

IRON ORE INDEX PREMIUMS/DISCOUNTS

Oct 12th, 2023		PORT STOCK INDEX (RMB/WT)		Oct 12th, 2023		SEABORNE INDEX (USD/DMT)	
Index	Fe Content	Spread to IOPI62	% Spread to IOPI62	Index	Fe Content	Spread to IOSI62	% Spread to IOSI62
IOPI58	58% Fe Fines	-88	-9.21%	IOSI65	65% Fe Fines	25.80	24.33%
IOPI65	65% Fe Fines	112	11.73%				

IRON ORE INDEX COMPARISONS (USD/DMT)



CHINA DOMESTIC COMPOSITE MINES INDEX (RMB/Wet Tonne, including VAT)



IRON ORE BRAND SPOT PRICE ASSESSMENTS

Oct 12th, 2023	PORT STOCK INDEX (RMB/WT)			Oct 12th, 2023	SEABORNE INDEX (USD/DMT)		
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	898	27	-57	Roy Hill	101.55	0.00	-4.50
SIMEC Fines	829	27	-126	SIMEC Fines	98.05	0.00	-8.00
PB Fines	922	27	-33	PB Fines	102.30	0.00	-3.75
Newman Fines	924	27	-31	Newman Fines	105.20	0.00	-0.85
MAC Fines	905	27	-50	MAC Fines	102.30	0.00	-3.75
Jimblebar Blended Fines	821	28	-134	Jimblebar Blended Fines	94.70	0.00	-11.35
Carajas Fines	1136	27	181	Carajas Fines	135.60	0.00	29.55
Brazilian SSF	921	28	-34	Brazilian SSF	109.80	0.00	3.75
Brazilian Blend Fines	935	26	-20	Brazilian Blend Fines	111.45	0.00	5.40
RTX Fines	839	28	-116	RTX Fines	95.95	0.00	-10.10
West Pilbara Fines	866	27	-89	West Pilbara Fines	100.30	0.00	-5.75
Oct 12th, 2023	PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI58				
SSF	867	-5	0				
FMG Blended Fines	878	-5	11				
Robe River	879	-5	12				
Western Fines	882	-5	15				
Atlas Fines	875	-5	8				
Yandi	859	-5	-8				

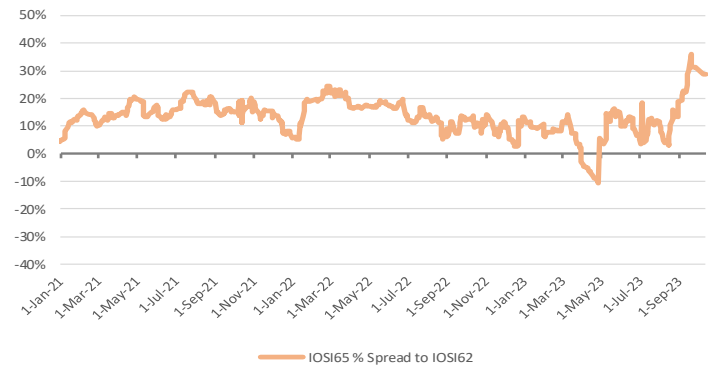
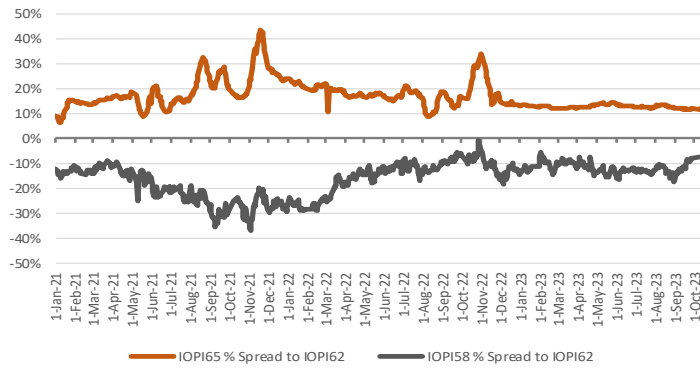
IRON ORE INDEX NORMALISATION DIFFERENTIALS

Port Stock Index Product Differentials (RMB/wet tonne)				Seaborne Index Product Differentials (USD/dry tonne)			
	Applicable range	Value	Change		Applicable range	Value	Change
1% Fe	High Grade Fe 60 - 63%	10.00	-2.00	1% Fe	High Grade Fe 60 - 63%	3.50	0.25
	High Grade Fe 63 - 64%	5.00	0.00		High Grade Fe 63 - 64%	2.75	0.00
	High Grade Fe 64 - 65%	5.00	0.00		High Grade Fe 64 - 65%	2.75	0.00
	High Grade Fe 65 - 65.5%	5.00	0.00		High Grade Fe 65 - 65.5%	2.75	0.00
	Low Grade Fe	9.00	-1.00	1% Alumina	High Fe Grade Al <2.25%	0.25	0.00
1% Alumina	High Fe Grade Al <2.25%	35.00	5.00		High Fe Grade Al 2.25-4%	0.50	0.00
	High Fe Grade Al 2.25-4%	5.00	0.00				
	Low Fe Grade Al <2.25%	22.00	0.00				
	Low Fe Grade Al 2.25-4%	45.00	0.00				
1% Silica	High Fe Grade Si <4%	20.00	1.00	1% Silica	High Fe Grade Si <4%	0.25	0.00
	High Fe Grade Si 4-6.5%	25.00	-4.00		High Fe Grade Si 4 - 6.5%	3.75	0.00
	Low Fe Grade	5.00	0.00	0.01% Phosphorus			
0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	5.00	0.00		High Fe Grade 0.09%<P<0.115%	1.50	0.25
	High Fe Grade 0.115%<P<0.15%	5.00	0.00		High Fe Grade 0.115%<P<0.15%	3.00	0.50
	Low Fe Grade 0.09%<P<0.1%	5.00	0.00				

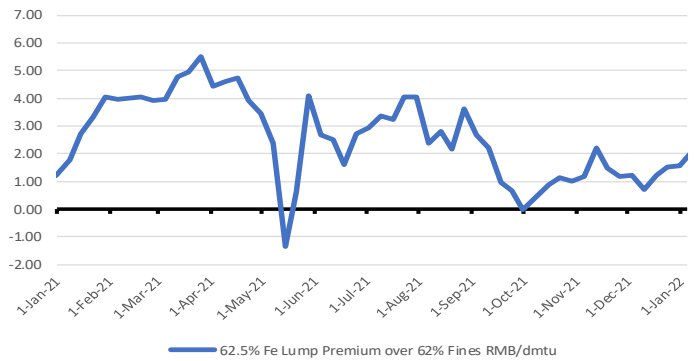
Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-100.00	0.00	Fangcheng	-25.00	0.00	Lanshan	0.00	0.00	Rizhao	0.00	0.00
Beilun	0.00	0.00	Jiangyin	-30.00	0.00	Lianyungang	0.00	0.00	Shekou	0.00	0.00
Caofeidian	-10.00	-5.00	Jingtang	-5.00	0.00	Majishan	0.00	0.00	Taicang	-30.00	0.00
Dalian	0.00	0.00	Lanqiao	0.00	0.00	Qingdao	0.00	0.00	Tianjin	-15.00	0.00

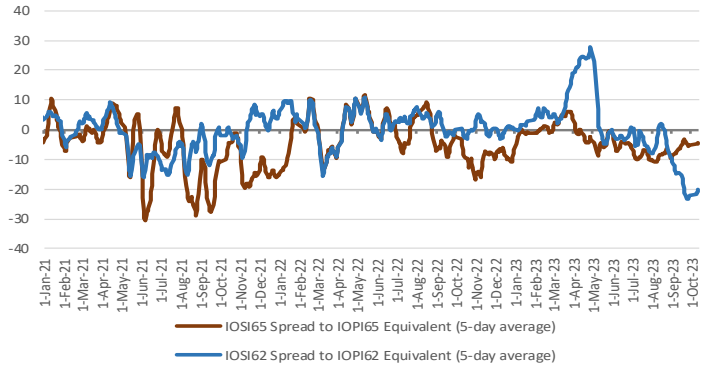
IRON ORE INDEX PREMIUMS/DISCOUNTS



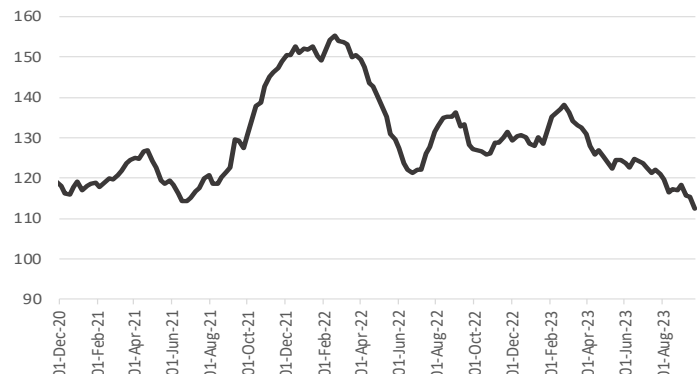
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



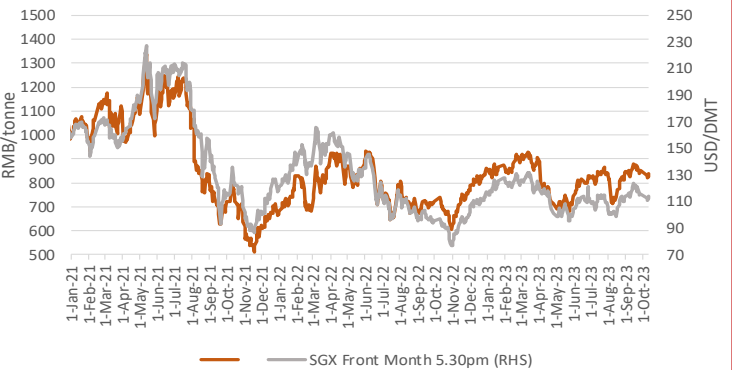
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



IRON ORE PORT INVENTORIES (MILLION TONNES)

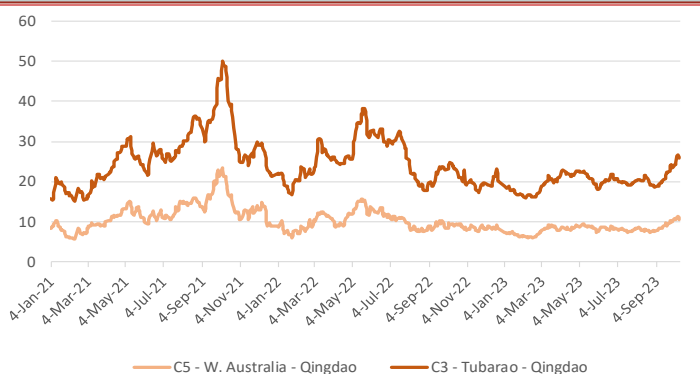
Week Ending Oct 6th, 2023

Province	This week	Change %	Low ²	High ²
Jingtang	11.05	0.27%	9.84	19.20
Qingdao	23.76	-1.25%	9.41	26.24
Caofeidian	10.44	-8.82%	9.05	16.29
Tianjin	7.49	-1.83%	7.14	12.97
Rizhao	12.59	-2.70%	9.44	19.26
Total (35 Ports)	112.55	-2.49%	98.80	155.39

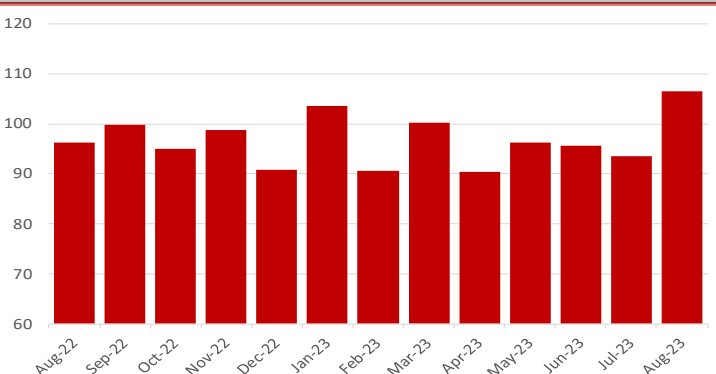
IRON ORE FUTURES CONTRACTS

Closing Date	DCE (RMB/WMT)			SGX (USD/DMT)		
	Oct 12th, 3pm close			Oct 12th, 5:30pm		
Contract	I2401	Change	Change %	Nov. 23	Change	Change %
Closing Price	837.00	9.50	1.15%	114.20	1.65	1.47%
Vol traded ('000 lots)	54.68	6.85	14.32%	9.89	2.23	29.11%
Open positions ('000 lots)	77.33	2.45	3.28%	36.65	-0.65	-1.75%
Day Low	823.5	7.50	0.92%	112.10	1.45	1.31%
Day High	837.5	6.50	0.78%	114.90	2.05	1.82%

DRY BULK FREIGHT RATES (USD/MT)



TOTAL CHINA IRON ORE IMPORT VOLUMES (MILLION TONNES)



STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne

Product	2023/10/6	Change	Change %
ReBar HRB400 ϕ 18mm	3,830	10	0.26%
Wirerod Q300 ϕ 6.5mm	4,000	0	0.00%
HRC Q235/SS400 5.5mm*1500*C	3,870	-40	-1.02%
CRC SPCC/ST12 1.0mm*1250*2500	4,900	60	1.24%
Medium & Heavy Plate Q235B 20mm	3,890	-30	-0.77%
GI ST02Z 1.0mm*1000*C	5,100	20	0.39%
Colour Coated Plate	7,000	0	0.00%

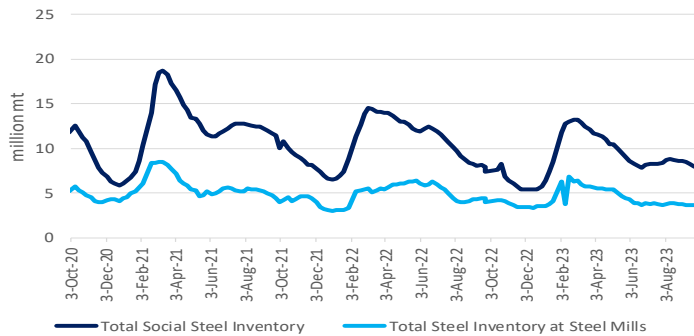
CHINESE STEEL MILL PROFITABILITY

SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)

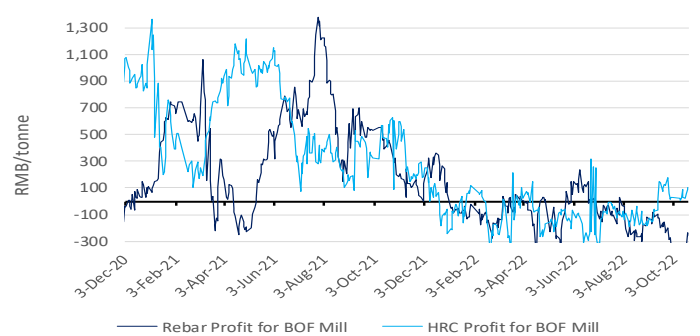
Category	Price	Change (WoW)	Note
MMi (Fe 62%), USD/mt excluding tax	103.20	-1	Mmi CFR Equivalent index for 1st Feb
Coke	2,450	110	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,970	50	steel scrap (6mm) in Zhangjiagang, excl. tax
Billet Cost	3,256	99	Q234, incl. tax
Rebar cost - Blast furnace	3,905	112	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	-185	-122	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	3,954	113	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	-84	-113	based on Shanghai prices, incl. tax

Note: 1. Costs in the table are calculated based on today's market prices and factored our management, sales, financial and depreciations fees.
2. The cost refers to average cost in the industry based on SMM's survey of small, medium and large mills in China

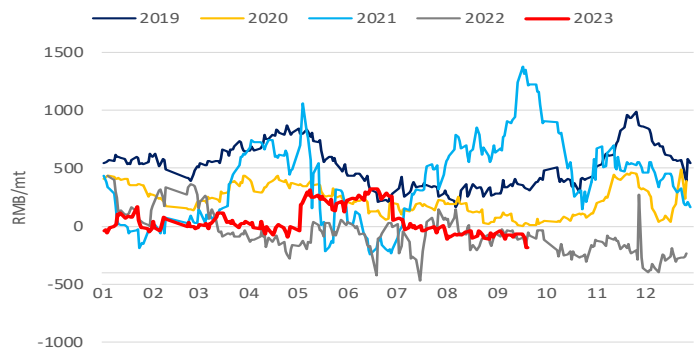
CHINESE STEEL INVENTORIES



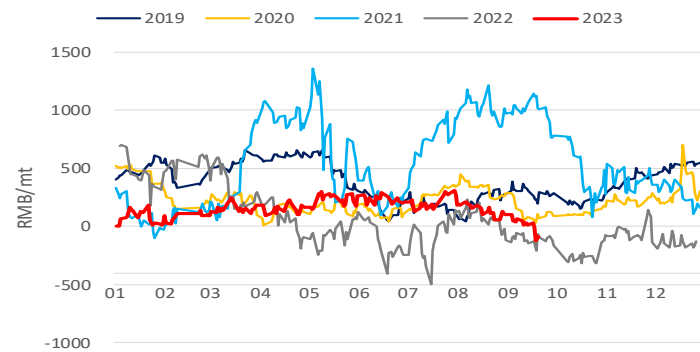
CHINESE STEEL MILL PROFITABILITY



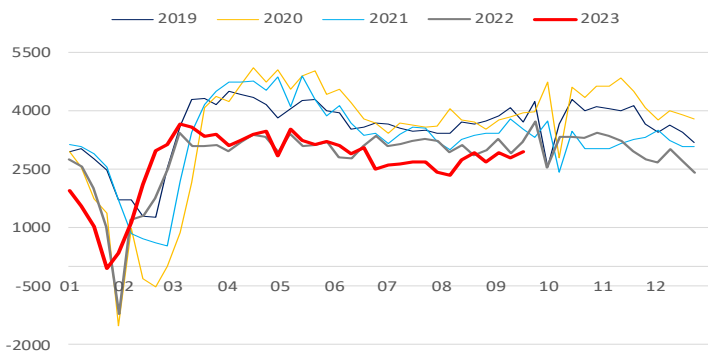
CHINESE STEEL MILL PROFITABILITY—Rebar



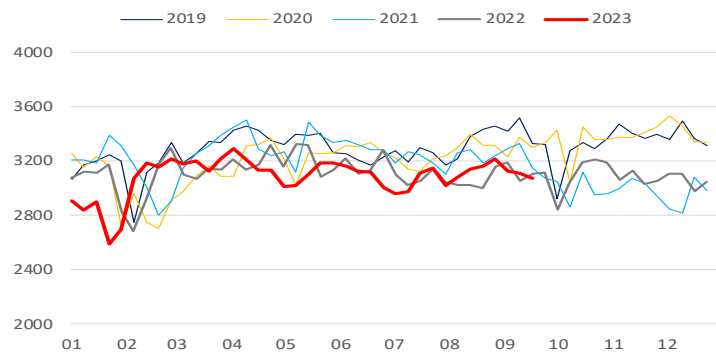
CHINESE STEEL MILL PROFITABILITY—Hot-rolled Coil



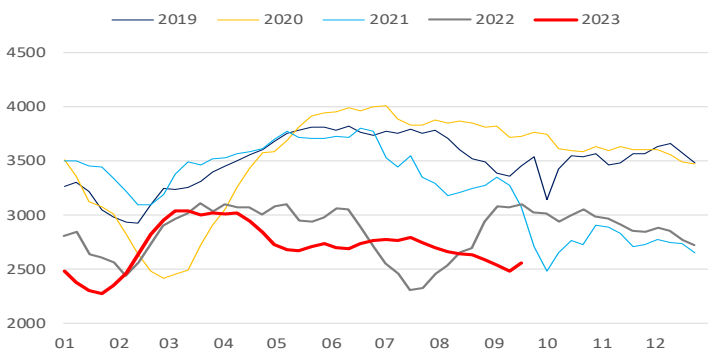
CHINESE STEEL CONSUMPTION—Rebar



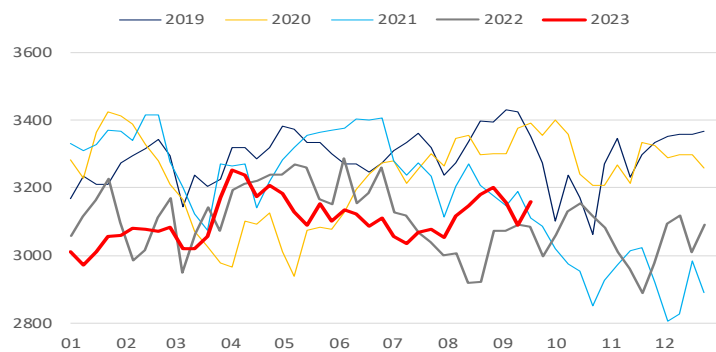
CHINESE STEEL CONSUMPTION—Hot-rolled Coil



CHINESE STEEL PRODUCTION—Rebar



CHINESE STEEL PRODUCTION—Hot-rolled Coil



IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS

Iron Ore Index Specifications (Port and Seaborne)					Iron Ore Index Compilation Rationale and Data Exclusions
Fe %	65% Fe Fines	62% Fe Fines	58% Fe Fines	62.5% Fe Lump	MMi iron ore indices are compiled from data provided by companies that are part of the iron ore supply chain and involved in spot market transactions. The indices are calculated using detailed transaction-level data submitted to MMi by these companies. This data is normalised to the appropriate specifications and screened to remove outliers before volume-weighted average prices are calculated from the remaining core set of data. For more details on MMi's iron ore methodology please download the guide published on our website at: www.mmiprices.com
Alumina %	65.00	62.00	58.00	62.50	
Silica%	1.40	2.25	2.25	1.50	
Phosphorus %	1.50	4.00	5.50	3.50	
Sulphur %	0.06	0.09	0.05	0.08	
Moisture %	0.01	0.02	0.02	0.02	
	8.00	8.00	9.00	4.00	
Sizing	Granular size below 10mm for at least 90% of cargo; maximum of 40% below 150 micron			Size below 6.3mm max 15% Size above 31.15mm max 25%	
Pricing Point	Qingdao Port (FOT and CFR respectively)			FOT Qingdao Port	
Timing (Seaborne)	Loading within 4 weeks, Delivery within 8 weeks			Delivery within 2 weeks	
Payment Terms	L/C at sight			L/C at sight or CAD	

Data Exclusions*			
	62%	58%	65%
Port Index	0	0	0
Seaborne index	0		0
Lump Index 62.5	0		

* Number of price submissions for iron ore indices that were excluded from index calculations today as they were anomalous and could not be verified

IRON ORE DOMESTIC CONCENTRATE INDEX CALCULATION METHODOLOGY

The compilation method for price index generally refers to the compilation method of CPI price index and other price indices, breakdown the price data and calculate the average value according to a certain method, taking the vertical axis as the regional composite index (average of different grade index) and the horizontal axis as the grade composite index (average of different regional index), a total composite index for domestic ore can be output ultimately. The process system is also adopted in the calculation i.e. each sub-index can be obtained as well.

AVERAGE IRON ORE SPECIFICATIONS APPLIED FOR BRAND PRICE ASSESSMENTS

PORT STOCK BRANDS						SEABORNE BRANDS					
Oct 12th, 2023	Specifications applied for 62% brand assessments						Specifications applied for 62% brand assessments				
	Fe	Alumina	Silica	Phos	Moisture		Fe	Alumina	Silica	Phos	Moisture
Roy Hill	60.88%	2.35%	4.45%	0.055%	9.26%	Roy Hill	60.70%	2.30%	4.90%	0.055%	8.00%
SIMEC Fines	60.00%	2.30%	6.30%	0.060%	6.00%	SIMEC Fines	60.00%	2.30%	6.30%	0.060%	6.00%
PB Fines	61.64%	2.31%	3.87%	0.099%	9.45%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	9.50%
Newman Fines	62.49%	2.31%	3.98%	0.090%	7.72%	Newman Fines	62.30%	2.40%	4.30%	0.095%	8.00%
MAC Fines	60.43%	2.38%	4.64%	0.078%	7.57%	MAC Fines	60.80%	2.35%	4.40%	0.075%	7.80%
Jimblebar Blended Fines	60.87%	2.95%	4.53%	0.111%	7.32%	Jimblebar Blended Fines	60.50%	3.10%	4.80%	0.120%	7.80%
Carajas Fines	64.90%	1.39%	1.82%	0.080%	7.78%	Carajas Fines	65.10%	1.50%	1.70%	0.080%	8.50%
Brazilian SSF	62.00%	1.00%	6.50%	0.040%	6.00%	Brazilian SSF	62.00%	1.00%	6.50%	0.040%	6.00%
Brazilian Blend Fines	62.56%	1.58%	4.79%	0.091%	8.72%	Brazilian Blend Fines	63.00%	1.50%	5.00%	0.070%	7.00%
RTX Fines	61.00%	3.10%	4.50%	0.135%	7.50%	RTX Fines	61.00%	3.10%	4.50%	0.135%	7.50%
West Pilbara Fines	60.10%	2.30%	4.70%	0.075%	8.50%	West Pilbara Fines	60.10%	2.30%	4.70%	0.075%	8.50%
Oct 12th, 2023	Specifications applied for 58% brand assessments										
	Fe	Alumina	Silica	Phos	Moisture						
SSF	56.49%	3.20%	6.19%	0.065%	9.18%						
FMG Blended Fines	58.20%	2.43%	5.54%	0.057%	8.29%						
Robe River	56.44%	3.16%	5.73%	0.042%	8.44%						
Western Fines	57.88%	2.87%	7.50%	0.062%	7.45%						
Atlas Fines	58.00%	1.85%	5.50%	0.090%	9.00%						
Yandi	56.87%	1.58%	6.41%	0.042%	9.53%						

BLOOMBERG TICKERS

PORT STOCK INDICES			SEABORNE INDICES	
	FOT Qingdao (RMB/wet tonne)	CFR Qingdao Equivalent (USD/dry tonne)		CFR Qingdao (USD/DMT)
IOPI62	IRCNQ001	IRCNQ004	IOSI62	IRCN0034
IOPI58	IRCNQ002	IRCNQ005	IOSI65	IRCN0035
IOPI65	IRCNQ003	IRCNQ006		
IOPLI62	IRCN0036	IRCN0037		

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