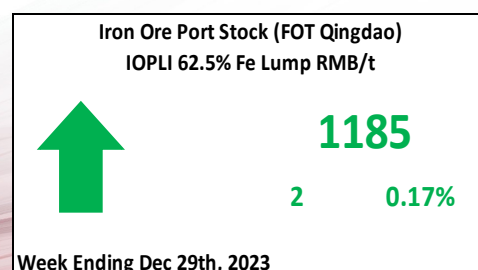
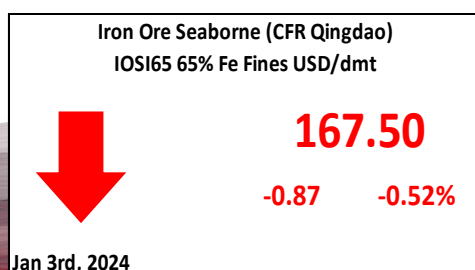
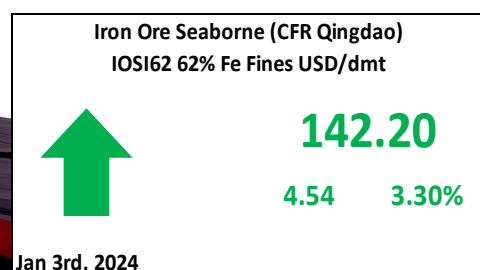
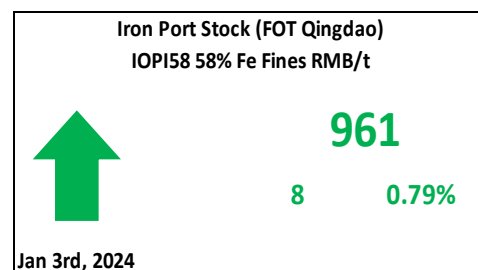
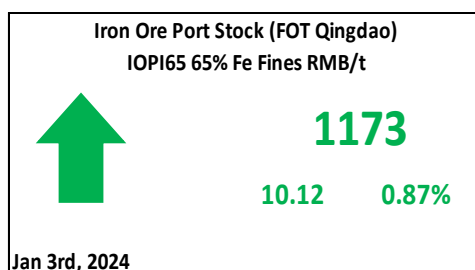
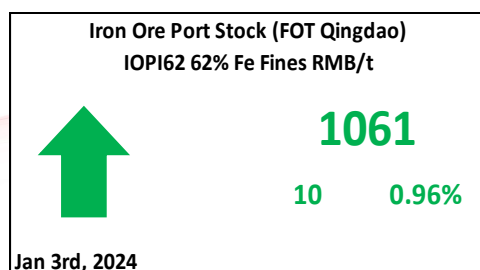


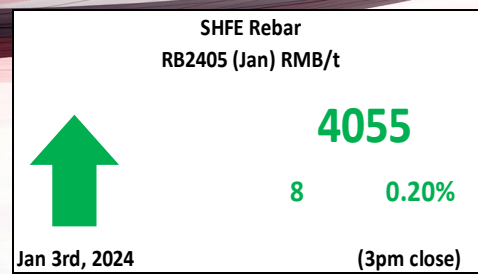
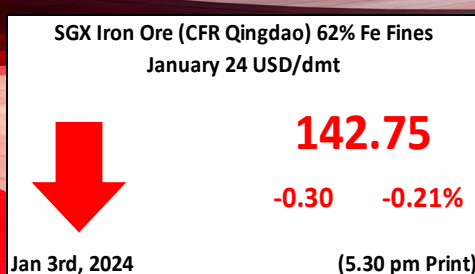
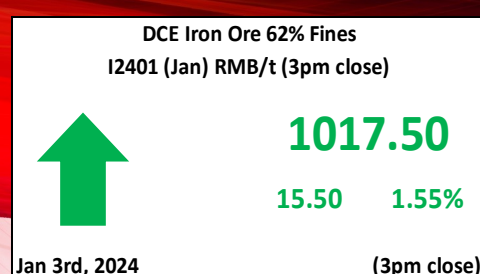


MMi Dashboard

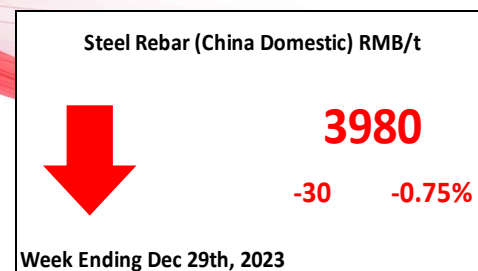
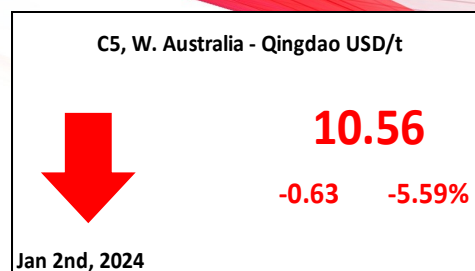
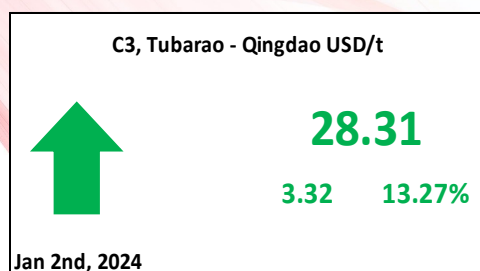
Iron Ore Price Indices



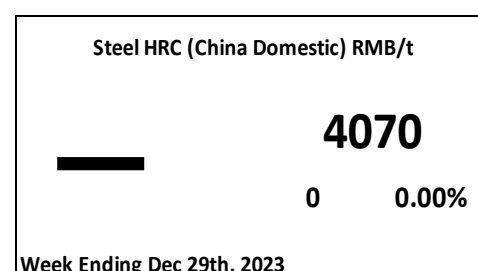
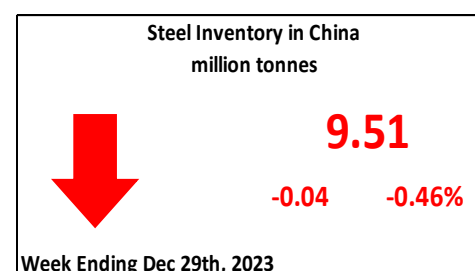
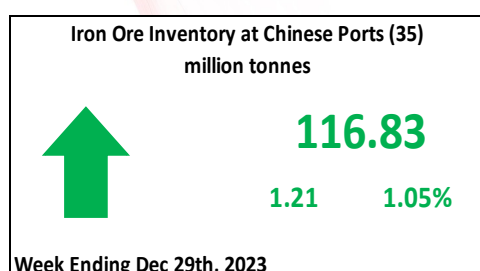
Exchange Traded Contracts



Freight Rates



Inventory Levels



IRON ORE PORT STOCK INDEX (IOPI)

Jan 3rd, 2024		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	1061	10.1	0.96%	866	886	770	1061	139.96	0.92	0.7%	114.62	120.18	100.95	139.96
IOPI58	58% Fe Fines	961	7.5	0.79%	770	770	680	961	127.76	0.62	0.5%	102.59	104.87	89.86	127.76
IOPI65	65% Fe Fines	1173	10.1	0.87%	982	1019	881	1173	155.09	0.87	0.6%	130.53	138.89	116.19	155.09

IRON ORE SEABORNE INDEX (IOSI)

MARKET COMMENTARY

Jan 3rd, 2024		CFR Qingdao, USD/dry tonne							DCE iron ore futures rose largely today by 2.83%. Traders ship according to market conditions ; steel mills inquiries decreased, resulting in poor purchasing enthusiasm. PBF at Shandong port dealt 1062-1065 yuan/mt; increased 12-15 yuan/mt over yesterday. PBF at Tangshan port dealt 1085 yuan/mt; increased 17 yuan/mt over yesterday. According to the weekly blast furnace maintenance data tracked by SMM, 9 blast furnaces were repaired and 15 blast furnaces were resumed production in this cycle; the operating rate of the blast furnace according to statistics is 88.7%, an increase of 0.59% compared to last week. The utilization rate of blast furnace production capacity was 89.02%, an increase of 0.81% compared to the previous period. The daily average iron production of the sample steel plant was 2.1317 million tons, an increase of 21200 tons compared to the previous period. Stacked with replenishment support, the overall demand for iron ore is strong. On a macro level, the net increase of P51350 billion by the three major banks in December, coupled with Shanghai's adjustment of housing provident fund loan policies, remains relatively warm. However, considering the seasonal off-season and steel mill losses or the suppression of ore prices, it is expected that ore prices will fluctuate at high levels in the short term.
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low ²	High ²	
IOSI62	62% Fe Fines	142.20	4.54	3.30%	115.50	115.50	99.20	146.75	
IOSI65	65% Fe Fines	167.50	-0.87	-0.52%	129.33	129.33	115.45	168.37	

IRON ORE PORT LUMP INDEX (IOPLI)

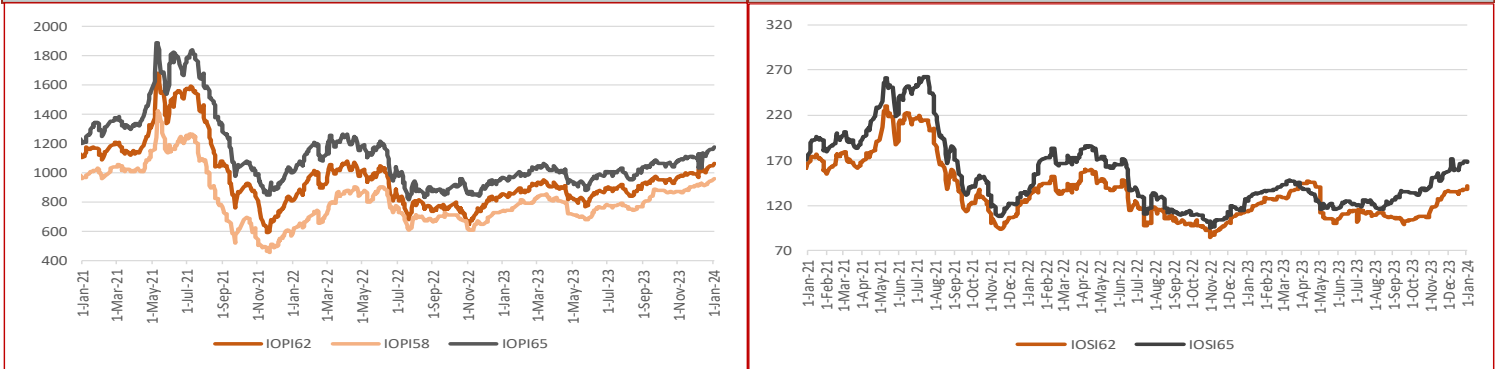
Week Ending Dec 29th, 2023		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ³						
Index	Fe Content	Price	W-o-W	Change %	MTD	YTD	Low ²	High ²	Price	W-o-W	Change %	MTD	YTD	Low ²	High ²
IOPLI62	62.5% Fe Lump	1185	2	0.2%	979	1034	903	1185	150.31	0.29	0.19%	125.19	135.82	114.47	150.31

IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

Week Ending Dec 29th, 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	1180	-0.3%	779	1645	166.30	-0.23%	110.31	255.69
Hebei	Qian'an	65% Fe Concentrate	Dry	1260	3.7%	780	1630	177.58	3.72%	110.51	251.57
Liaoning	Anshan	65% Fe Concentrate	Wet	940	0.5%	620	1310	132.48	0.55%	87.40	202.32
Shandong	Zibo	65% Fe Concentrate	Dry	1242	-0.2%	800	1752	175.04	-0.22%	0.00	272.32
Week Ending Dec 29th, 2023				This week	Change %	Low ²	High ²	1 Exchange rate applied: RMB/USD = 6.7522 ² Last 12 months			
China Mines Concentrate Composite Index RMB/WT				1111.50	1.57%	706.36	1511.22	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

Jan 3rd, 2024		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne						
Index	Fe Content	September	October	November	December	MTD	QTD	YTD	September	October	November	December	MTD	QTD	YTD
IOPI62	62% Fe Fines	945	947	988	1017	866	860	886	122.79	123.14	129.07	133.85	114.62	114.12	120.18
IOPI58	58% Fe Fines	838	869	884	924	770	765	770	109.67	113.94	116.42	122.63	102.59	102.10	104.87
IOPI65	65% Fe Fines	1057	1059	1100	1124	982	978	1019	137.74	138.13	144.10	148.34	130.53	130.29	138.89

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

FREIGHT RATES

Jan 3rd, 2024		CFR Qingdao, USD/dry tonne							Jan 2nd, 2024						
Index	Fe Content	September	October	November	December	MTD	QTD	YTD	Route	Designation	Change	Change %	Low ²	High ²	
IOSI62	62% Fe Fines	104.25	106.44	124.61	135.51	112.14	114.36	115.50	W. Australia - Qingdao	C5	10.56	-0.63	-5.59%	3.57	16.77
IOSI65	65% Fe Fines	132.40	135.69	150.46	161.63	122.86	127.91	129.33	Tubarao - Qingdao	C3	28.31	3.32	13.27%	6.70	36.40

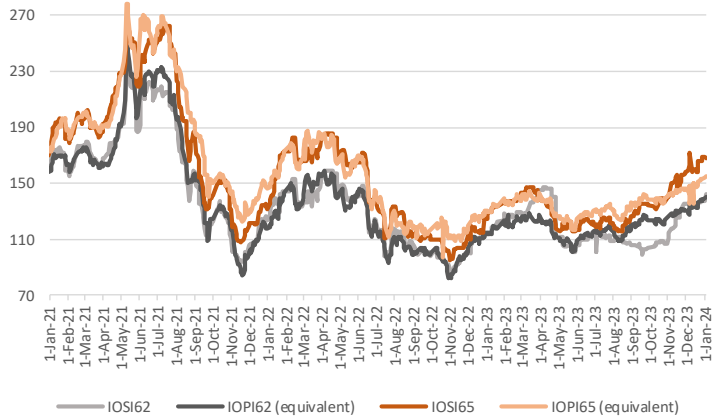
IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Week Ending Dec 29th, 2023		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ¹						
Index	Fe Content	September	October	November	December	MTD	QTD	YTD	September	October	November	December	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	1043	1113	1155	1177	933	974	1017	130.25	139.38	145.07	149.11	119.96	124.76	134.98

IRON ORE INDEX PREMIUMS/DISCOUNTS

Jan 3rd, 2024		PORT STOCK INDEX (RMB/WT)		Jan 3rd, 2024		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	-100	-9.45%	IOSI65	65% Fe Fines	25.30	17.79%
IOPI65	65% Fe Fines	112	10.53%				

IRON ORE INDEX COMPARISONS (USD/DMT)



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



IRON ORE BRAND SPOT PRICE ASSESSMENTS

Jan 3rd, 2024				Jan 3rd, 2024			
PORT STOCK INDEX (RMB/WT)				SEABORNE INDEX (USD/DMT)			
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	1004	10	-57	Roy Hill	137.70	4.50	-4.50
SIMEC Fines	937	10	-124	SIMEC Fines	134.20	4.50	-8.00
PB Fines	1027	10	-34	PB Fines	138.45	4.50	-3.75
Newman Fines	1031	10	-30	Newman Fines	141.35	4.50	-0.85
MAC Fines	1011	10	-50	MAC Fines	138.45	4.50	-3.75
Jimblebar Blended Fines	927	10	-134	Jimblebar Blended Fines	130.85	4.50	-11.35
Carajas Fines	1242	10	181	Carajas Fines	171.75	4.50	29.55
Brazilian SSF	1029	10	-32	Brazilian SSF	145.95	4.50	3.75
Brazilian Blend Fines	1040	10	-21	Brazilian Blend Fines	147.50	4.45	5.30
RTX Fines	945	10	-116	RTX Fines	132.05	4.50	-10.15
West Pilbara Fines	971	10	-90	West Pilbara Fines	136.45	4.50	-5.75
Jan 3rd, 2024							
PORT STOCK INDEX (RMB/WT)							
	Price	Change	Diff to IOPI58				
SSF	961	8	0				
FMG Blended Fines	973	8	12				
Robe River	973	7	12				
Western Fines	977	8	16				
Atlas Fines	969	7	8				
Yandi	952	8	-9				

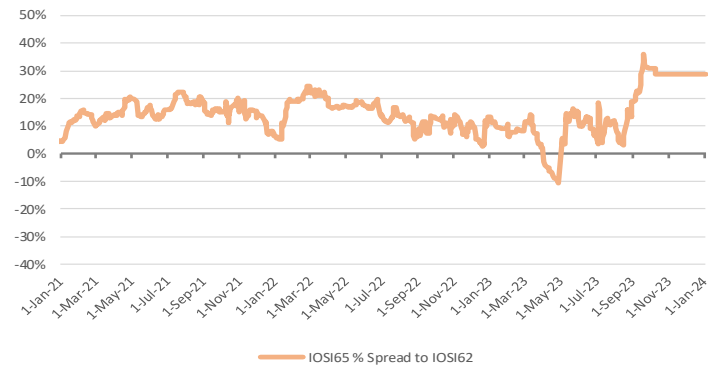
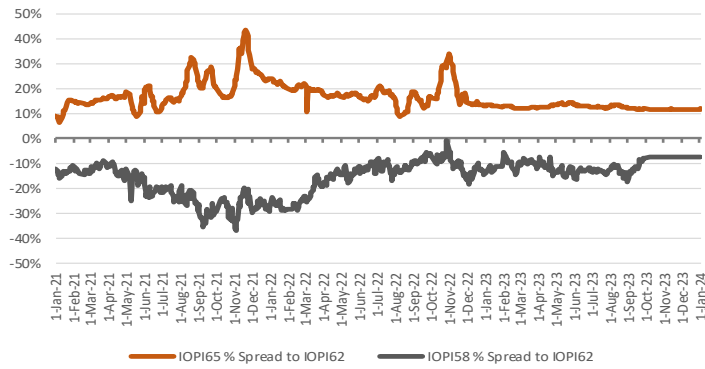
IRON ORE INDEX NORMALISATION DIFFERENTIALS

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%	20.00	4.00	1% Fe	High Grade Fe 60 - 63%	10.00	0.00
	High Grade Fe 63 - 64%	15.00	5.00		High Grade Fe 63 - 64%	10.00	0.00
	High Grade Fe 64 - 65%	15.00	5.00		High Grade Fe 64 - 65%	10.00	0.00
	High Grade Fe 65 - 65.5%	15.00	5.00		High Grade Fe 65 - 65.5%	10.00	0.00
	Low Grade Fe	17.00	0.00				
1% Alumina	High Fe Grade Al <2.25%	12.00	0.00	1% Alumina	High Fe Grade Al <2.25%	2.50	0.00
	High Fe Grade Al 2.25-4%	8.00	-1.00		High Fe Grade Al 2.25-4%	1.25	0.00
	Low Fe Grade Al <2.25%	48.00	-4.00				
	Low Fe Grade Al 2.25-4%	7.00	-2.00				
	High Fe Grade Si <4%	19.00	0.00		High Fe Grade Si <4%	2.00	-4.00
1% Silica	High Fe Grade Si 4-6.5%	5.00	0.00	1% Silica	High Fe Grade Si 4 - 6.5%	2.00	-4.00
	Low Fe Grade	7.00	-1.00				
0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	8.00	1.00	0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	0.50	0.00
	High Fe Grade 0.115%<P<0.15%	8.00	1.00		High Fe Grade 0.115%<P<0.15%	2.50	0.00
	Low Fe Grade 0.09%<P<0.1%	5.00	0.00				

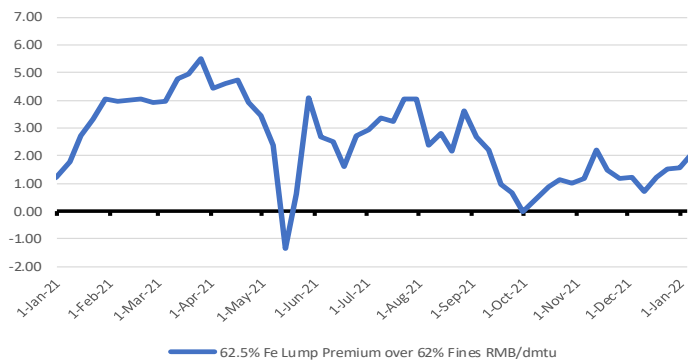
Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

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	-20.00	0.00	Lianyungang	0.00	0.00	Shekou	0.00	0.00
Caofeidian	-20.00	0.00	Jingtang	-20.00	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	-40.00	0.00

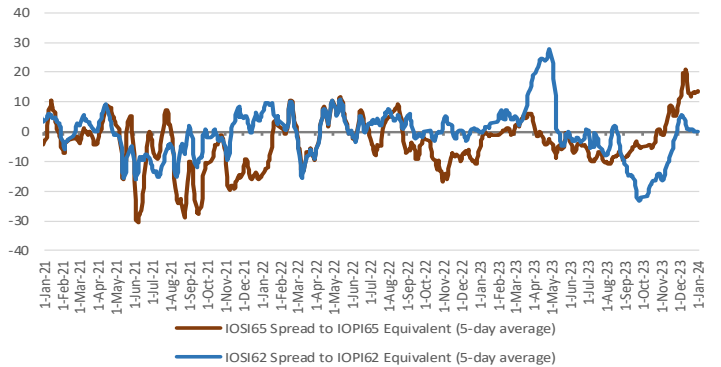
IRON ORE INDEX PREMIUMS/DISCOUNTS



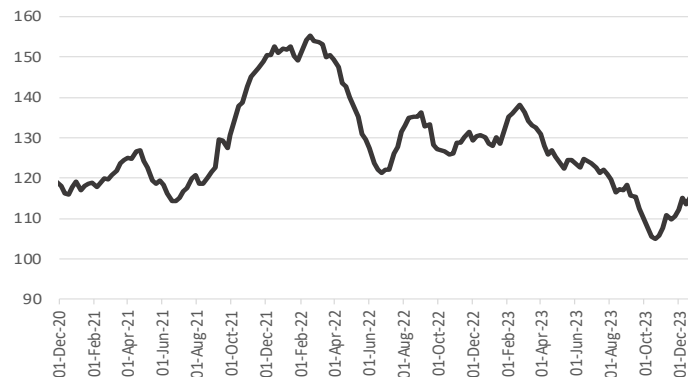
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



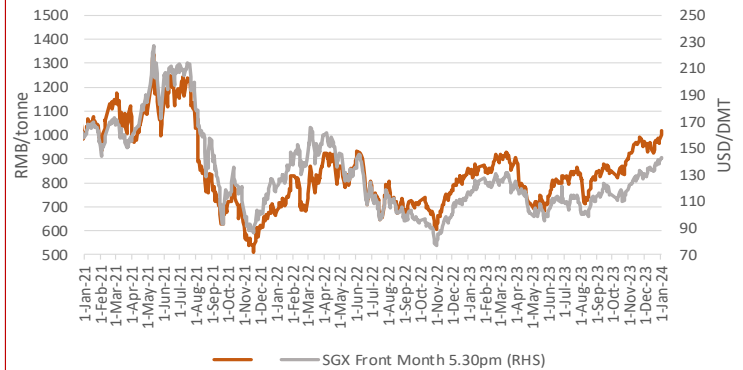
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



IRON ORE PORT INVENTORIES (MILLION TONNES)

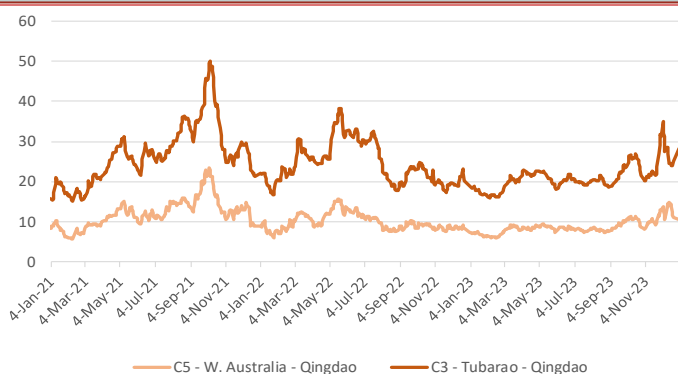
Week Ending Dec 29th, 2023

Province	This week	Change %	Low ²	High ²
Jingtang	9.41	4.21%	8.41	19.20
Qingdao	22.97	-2.50%	9.41	26.24
Caofeidian	11.00	2.61%	7.56	16.29
Tianjin	9.27	3.69%	6.49	12.97
Rizhao	14.77	6.95%	9.44	19.26
Total (35 Ports)	116.83	1.05%	98.80	155.39

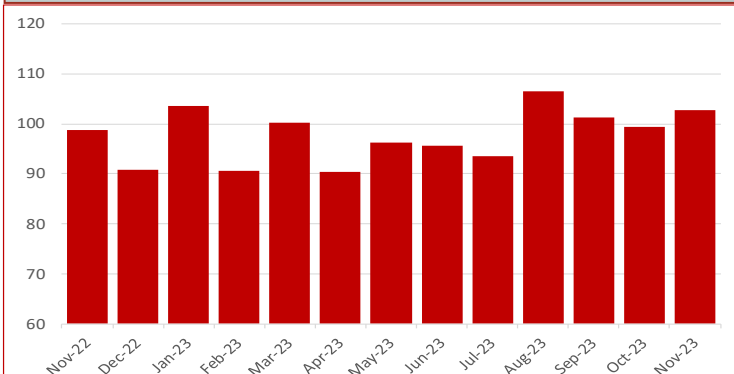
IRON ORE FUTURES CONTRACTS

Closing Date	DCE (RMB/WMT)			SGX (USD/DMT)		
	Jan 3rd, 3pm close			Jan 3rd, 5:30pm		
Contract	I2405	Change	Change %	Jan. 24	Change	Change %
Closing Price	1017.50	15.50	1.55%	142.75	-0.30	-0.21%
Vol traded ('000 lots)	24.48	2.08	9.27%	7.07	2.66	60.18%
Open positions ('000 lots)	55.31	0.12	0.22%	38.36	0.53	1.40%
Day Low	999.0	32.00	3.31%	140.65	3.05	2.22%
Day High	1025.5	22.50	2.24%	143.50	1.35	0.95%

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	2023/12/29	Change	Change %
ReBar HRB400 ϕ 18mm	3,980	-30	-0.75%
Wirerod Q300 ϕ 6.5mm	4,160	-30	-0.72%
HRC Q235/SS400 5.5mm*1500*C	4,070	0	0.00%
CRC SPCC/ST12 1.0mm*1250*2500	4,850	0	0.00%
Medium & Heavy Plate Q235B 20mm	4,060	10	0.25%
GI ST02Z 1.0mm*1000*C	4,970	-30	-0.60%
Colour Coated Plate	6,900	-50	-0.72%

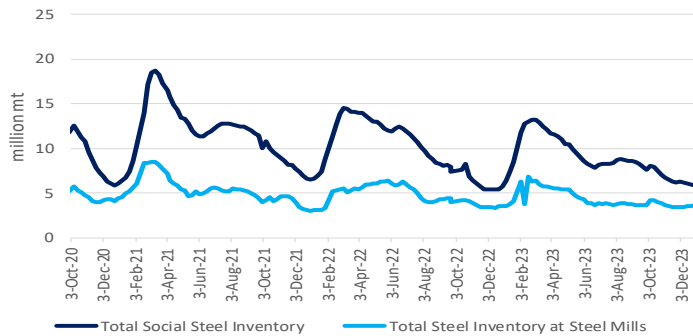
CHINESE STEEL MILL PROFITABILITY

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

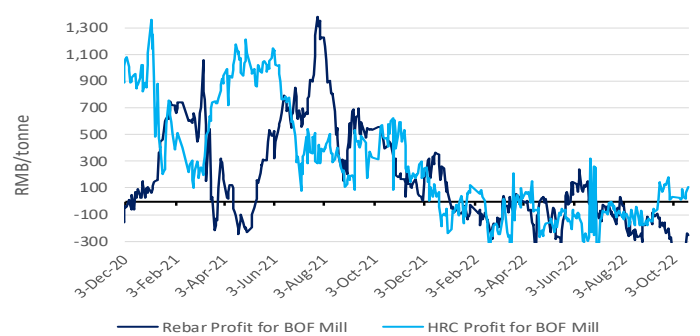
Category	Price	Change (WoW)	Note
MMi (Fe 62%), USD/mt excluding tax	137.30	1	Mmi CFR Equivalent index for 1st Feb
Coke	2,780	0	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	3,010	100	steel scrap (6mm) in Zhangjiagang, excl. tax
Billet Cost	3,488	48	Q234, incl. tax
Rebar cost - Blast furnace	4,167	54	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	-267	-84	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	4,232	53	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	-182	-13	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

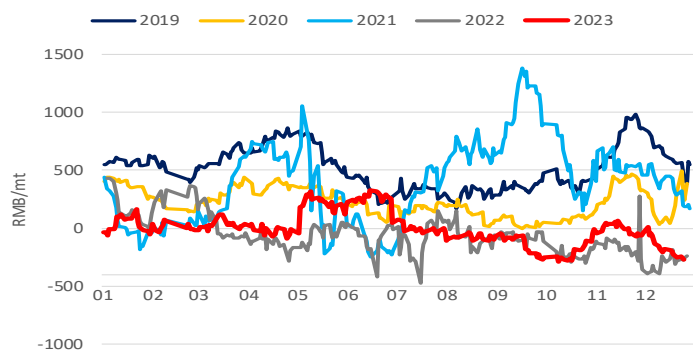
CHINESE STEEL INVENTORIES



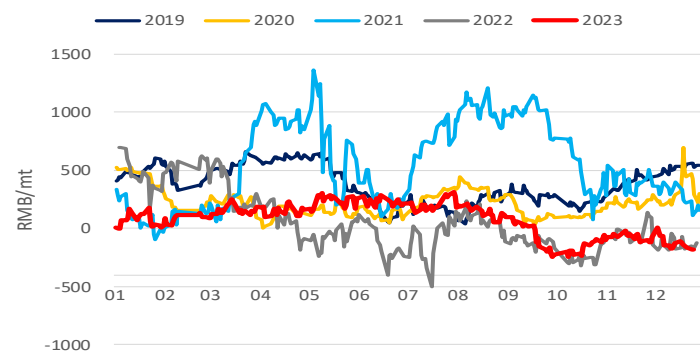
CHINESE STEEL MILL PROFITABILITY



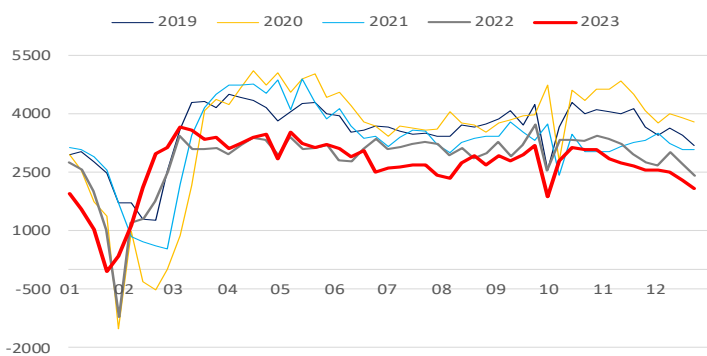
CHINESE STEEL MILL PROFITABILITY—Rebar



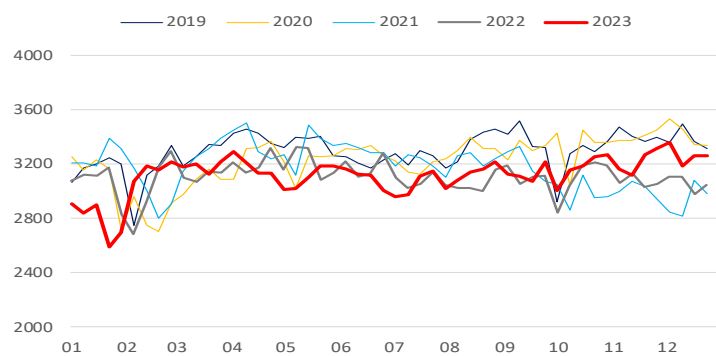
CHINESE STEEL MILL PROFITABILITY—Hot-rolled Coil



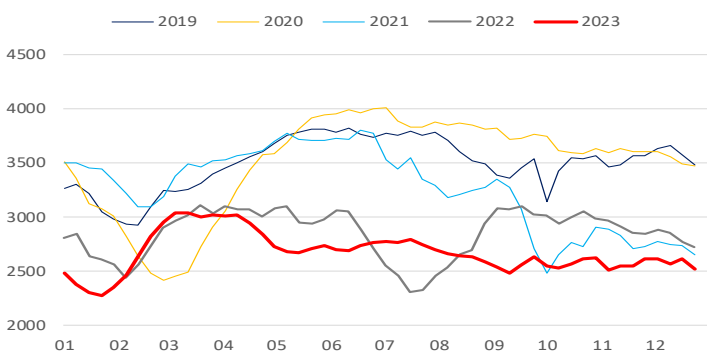
CHINESE STEEL CONSUMPTION—Rebar



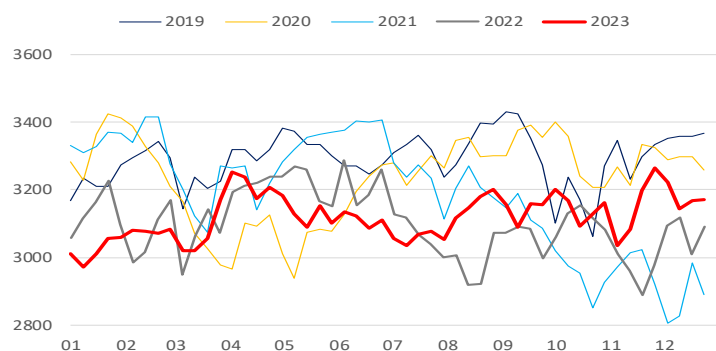
CHINESE STEEL CONSUMPTION—Hot-rolled Coil



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																					
					<table><tr><th colspan="4">Data Exclusions*</th></tr><tr><td></td><th>62%</th><th>58%</th><th>65%</th></tr><tr><td>Port Index</td><td>0</td><td>0</td><td>0</td></tr><tr><td>Seaborne index</td><td>0</td><td></td><td>0</td></tr><tr><td>Lump Index 62.5</td><td>0</td><td></td><td></td></tr></table>	Data Exclusions*					62%	58%	65%	Port Index	0	0	0	Seaborne index	0		0	Lump Index 62.5	0		
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					
Jan 3rd, 2024	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%
Jan 3rd, 2024	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			

CONTACT US

MMi Singapore Office Details: Level 28, Manulife Tower, 8 Cross Street Singapore. Tel: + 65 6850 7629 E: prices@mmiprices.com
SMM Singapore Office Details: Level 28, Manulife Tower, 8 Cross Street Singapore. Tel: + 65 6850 7630 E: service.en@smm.cn
SMM Shanghai Office Details: 9th FL, Building 9, Lujiazui Software Park, No.20, Lane 91, Pudong, Shanghai Tel: +86 021 5155 0306 E: service.en@smm.cn

Visit www.mmiprices.com for full index price histories and archive of daily reports

This information has been prepared by Metals Market Index ("MMI"). Use of the information presented here is at your sole risk, and any content, material and/or data presented or otherwise obtained through your use of the information in this document is at your own discretion and risk and you will be solely responsible for any damage to you personally or your company or organisation or business associates whatsoever which in anyway results from the use, reliance or application of such content material and/or information. Certain data has been obtained from various sources and any copyright existing in such data shall remain the property of the source. Except for the foregoing, MMi retains all copyright within this document. The copying or redistribution of any part of this document without the express written authority of MMi is forbidden.