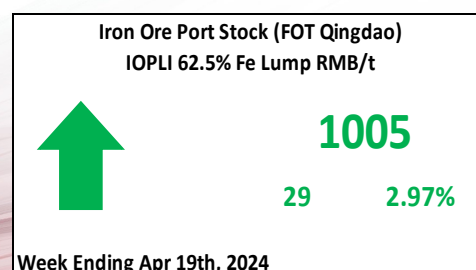
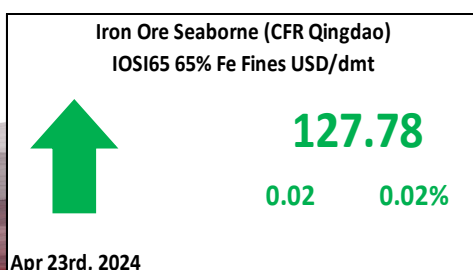
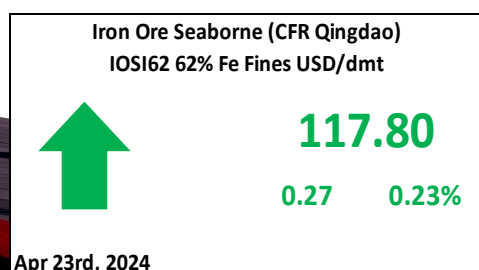
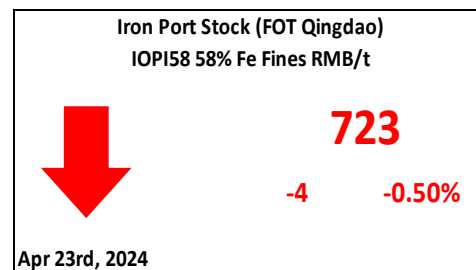
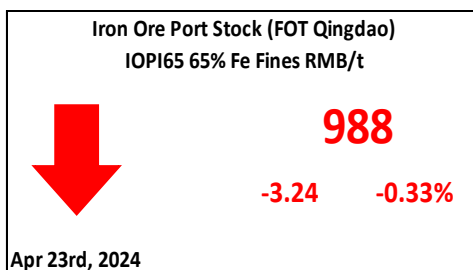
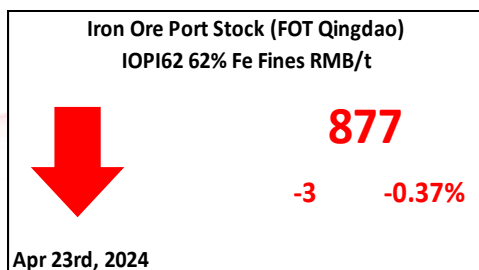


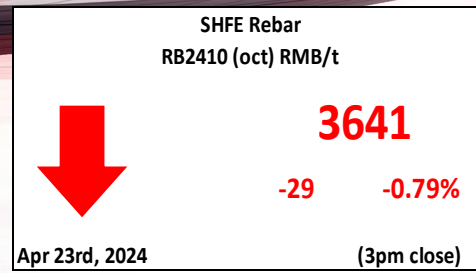
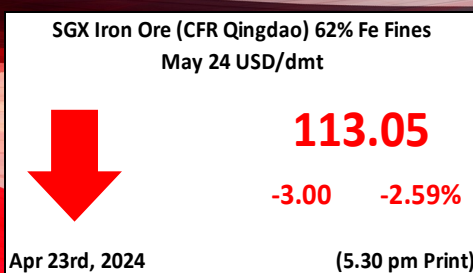
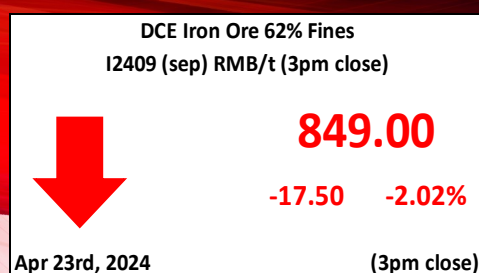


## MMi Dashboard

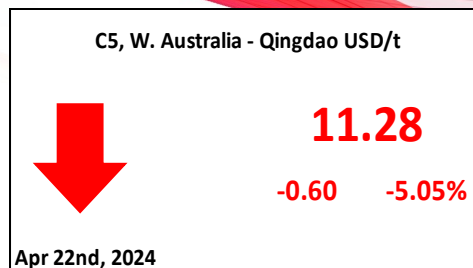
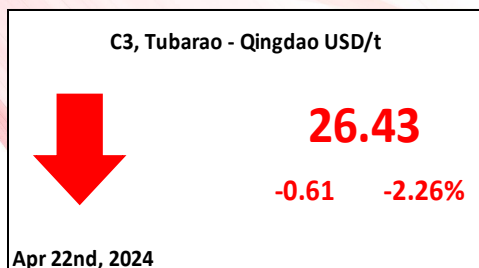
## Iron Ore Price Indices



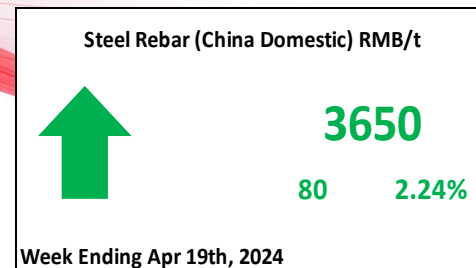
## Exchange Traded Contracts



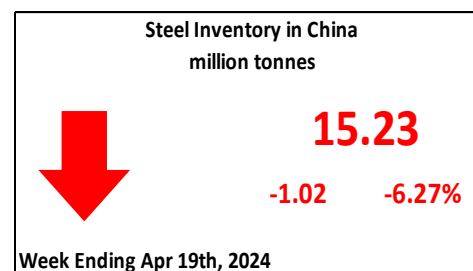
## Freight Rates



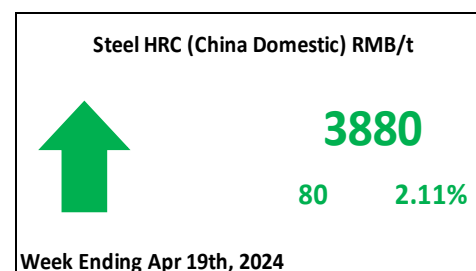
## Steel Price



## Inventory Levels



## Steel Price



## IRON ORE PORT STOCK INDEX (IOPI)

Apr 23rd, 2024		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne <sup>1</sup>						
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>
IOPI62	62% Fe Fines	877	-3.2	-0.37%	880	895	770	1063	114.89	-0.46	-0.4%	116.38	121.03	101.00	140.00
IOPI58	58% Fe Fines	723	-3.7	-0.50%	785	781	665	963	95.15	-0.52	-0.5%	104.50	106.10	86.00	128.00
IOPI65	65% Fe Fines	988	-3.2	-0.33%	996	1026	881	1175	130.01	-0.47	-0.4%	132.21	139.47	116.00	155.00

## IRON ORE SEABORNE INDEX (IOSI)

Apr 23rd, 2024		CFR Qingdao, USD/dry tonne							MARKET COMMENTARY							
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	DCE iron ore futures continued to fall today. The main contract I2409 closed at 849, an decrease of 1.91% throughout the day; some traders were negative to sell. Some steel mills tended to be wait-and-see, and purchasing enthusiasm is not high. today's overall market transaction atmosphere in general. PBF at Shandong port dealt 855-865 yuan/mt; decreased 10-15 yuan/mt over yesterday. PBF at Tangshan port dealt 895-900 yuan/mt; decreased 5-10 yuan/mt over yesterday. According to SMM statistics, from April 20th to April 26th, the impact of pig iron output caused by blast furnace maintenance was 148.39 million mt, a decrease of 19.32 million mt from a week ago. From April 27th to May 3rd, the							
IOSI62	62% Fe Fines	117.80	0.27	0.23%	116.42	116.42	99.20	146.75								
IOSI65	65% Fe Fines	127.78	0.02	0.02%	130.60	130.60	115.45	171.65								

## IRON ORE PORT LUMP INDEX (IOPLI)

Week Ending Apr 19th, 2024		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne <sup>3</sup>						
Index	Fe Content	Price	W-o-W	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	Price	W-o-W	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>
IOPLI62	62.5% Fe Lump	1005	29	3.0%	994	1041	900	1210	126.81	3.66	2.97%	126.95	136.27	113.28	153.57

## IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

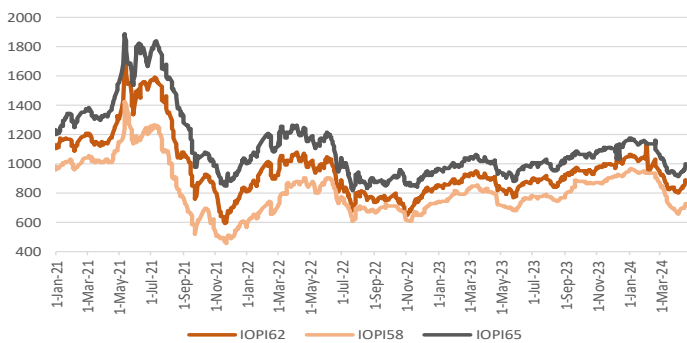
Week Ending Apr 19th, 2024				RMB/tonne (excluding tax) <sup>3</sup>				USD/tonne (excluding tax) <sup>3</sup>			
Province	Region	Product	Basis	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
Hebei	Hanxing	66% Fe Concentrate	Dry	982	6.2%	779	1645	138.27	6.07%	110.31	255.69
Hebei	Qian'an	65% Fe Concentrate	Dry	1060	6.0%	780	1630	149.25	5.91%	108.42	251.57
Liaoning	Anshan	65% Fe Concentrate	Wet	770	2.7%	620	1310	108.42	2.58%	87.40	202.32
Shandong	Zibo	65% Fe Concentrate	Dry	1016	6.6%	800	1752	143.06	6.52%	0.00	272.32

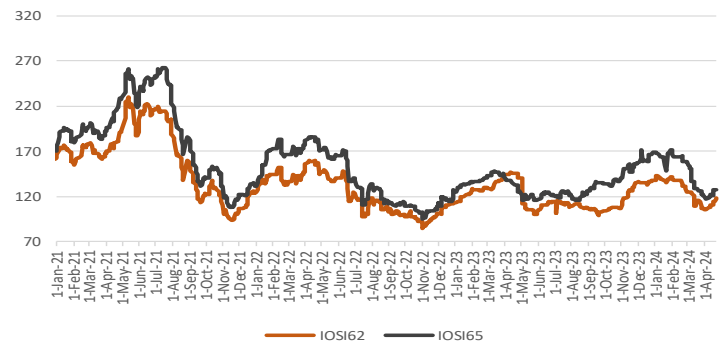
Week Ending Apr 19th, 2024		This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
China Mines Concentrate Composite Index RMB/WT		917.14	3.40%	706.36	1511.22

<sup>1</sup> Exchange rate applied: RMB/USD = 6.7522    <sup>2</sup> Last 12 months  
<sup>3</sup> 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

Apr 23rd, 2024		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne						
Index	Fe Content	December	January	February	March	MTD	QTD	YTD	December	January	February	March	MTD	QTD	YTD
IOPI62	62% Fe Fines	1017	1041	992	860	880	874	895	133.85	137.08	130.57	112.79	115.32	115.83	120.56
IOPI58	58% Fe Fines	924	949	908	752	785	779	781	122.63	126.09	120.39	99.14	103.33	103.96	105.35
IOPI65	65% Fe Fines	1124	1152	1108	972	996	992	1026	148.34	152.20	146.16	127.92	131.20	131.91	139.19

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

Apr 23rd, 2024		CFR Qingdao, USD/dry tonne							Apr 22nd, 2024				FREIGHT RATES - DRY BULK US\$/wet tonne			
Index	Fe Content	December	January	February	March	MTD	QTD	YTD	Route	Designation	Change	Change %	Low <sup>2</sup>	High <sup>2</sup>		
IOSI62	62% Fe Fines	135.51	139.58	134.03	116.50	112.14	115.18	116.42	W. Australia - Qingdao	C5	11.28	-0.60	-5.05%	3.57	16.77	
IOSI65	65% Fe Fines	161.63	164.44	162.36	135.22	122.86	129.04	130.60	Tubarao - Qingdao	C3	26.43	-0.61	-2.26%	6.70	36.40	

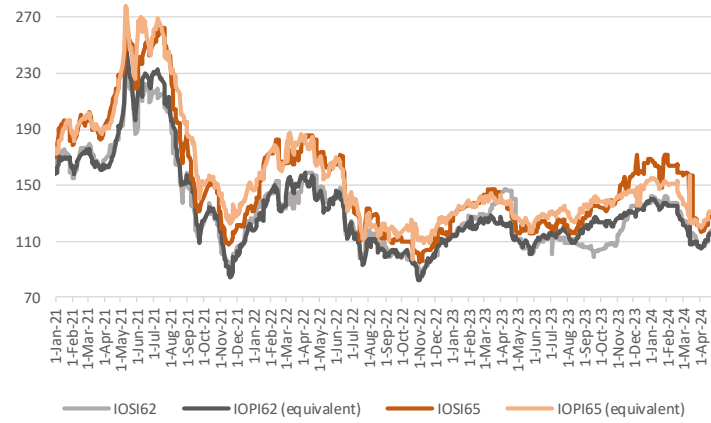
## IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Week Ending Apr 19th, 2024		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne <sup>1</sup>						
Index	Fe Content	December	January	February	March	MTD	QTD	YTD	December	January	February	March	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	1177	1170	1093	982	933	989	1017	149.11	148.20	138.12	123.87	119.96	126.47	134.98

## IRON ORE INDEX PREMIUMS/DISCOUNTS

Apr 23rd, 2024		PORT STOCK INDEX (RMB/WT)				Apr 23rd, 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	-153		-17.50%		IOSI65	65% Fe Fines	9.98		8.47%	
IOPI65	65% Fe Fines	112		12.74%							

IRON ORE INDEX COMPARISONS (USD/DMT)



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



IRON ORE BRAND SPOT PRICE ASSESSMENTS

Apr 23rd, 2024				Apr 23rd, 2024			
PORT STOCK INDEX (RMB/WT)				SEABORNE INDEX (USD/DMT)			
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	820	-3	-57	Roy Hill	113.30	0.27	-4.50
SIMEC Fines	750	-3	-127	SIMEC Fines	109.80	0.27	-8.00
PB Fines	845	-3	-32	PB Fines	114.05	0.27	-3.75
Newman Fines	846	-3	-31	Newman Fines	116.90	0.25	-0.90
MAC Fines	827	-3	-50	MAC Fines	114.05	0.27	-3.75
Jimblebar Blended Fines	742	-3	-135	Jimblebar Blended Fines	106.40	0.25	-11.40
Carajas Fines	1057	-4	180	Carajas Fines	147.35	0.27	29.55
Brazilian SSF	841	-3	-36	Brazilian SSF	121.55	0.27	3.75
Brazilian Blend Fines	858	-3	-19	Brazilian Blend Fines	123.15	0.25	5.35
RTX Fines	760	-3	-117	RTX Fines	107.65	0.25	-10.15
West Pilbara Fines	788	-3	-89	West Pilbara Fines	112.05	0.27	-5.75

Apr 23rd, 2024			
PORT STOCK INDEX (RMB/WT)			
	Price	Change	Diff to IOPI58
SSF	723	-4	0
FMG Blended Fines	732	-4	9
Robe River	733	-4	10
Western Fines	735	-4	12
Atlas Fines	730	-4	7
Yandi	716	-4	-7

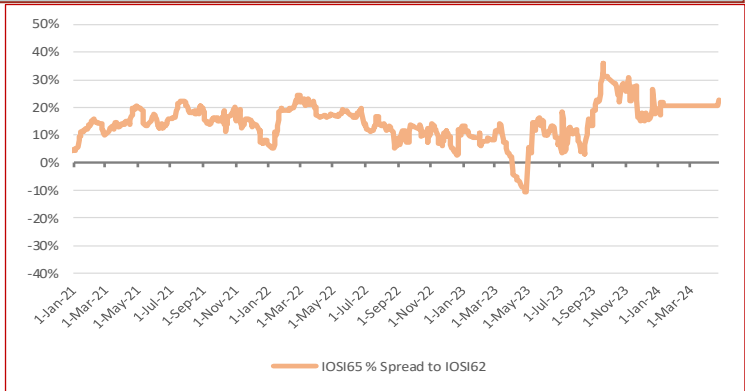
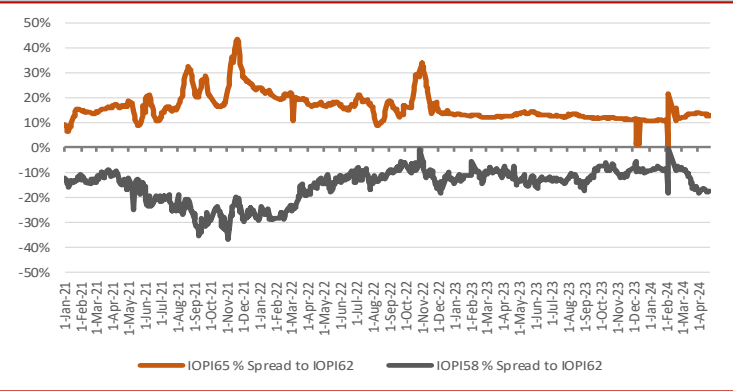
IRON ORE INDEX NORMALISATION DIFFERENTIALS

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	1.00	1% Fe	High Grade Fe 60 - 63%	5.75	-0.25
	High Grade Fe 63 - 64%	75.00	0.00		High Grade Fe 63 - 64%	3.50	0.50
	High Grade Fe 64 - 65%	75.00	0.00		High Grade Fe 64 - 65%	3.50	0.50
	High Grade Fe 65 - 65.5%	75.00	0.00		High Grade Fe 65 - 65.5%	3.50	0.50
1% Alumina	Low Grade Fe	32.00	2.00	1% Alumina	High Fe Grade Al <2.25%	2.50	0.00
	High Fe Grade Al <2.25%	30.00	1.00		High Fe Grade Al 2.25-4%	2.50	0.00
	Low Fe Grade Al <2.25%	105.00	5.00				
	Low Fe Grade Al 2.25-4%	30.00	3.00				
1% Silica	High Fe Grade Si <4%	17.00	6.00	1% Silica	High Fe Grade Si <4%	1.00	0.50
	High Fe Grade Si 4-6.5%	40.00	-4.00		High Fe Grade Si 4 - 6.5%	1.00	0.50
0.01% Phosphorus	Low Fe Grade	40.00	3.00	0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	1.50	-0.50
	High Fe Grade 0.09%<P<0.115%	10.00	0.00		High Fe Grade 0.115%<P<0.15%	1.25	0.00
	High Fe Grade 0.115%<P<0.15%	10.00	0.00				
	Low Fe Grade 0.09<P<0.1%	5.00	0.00				

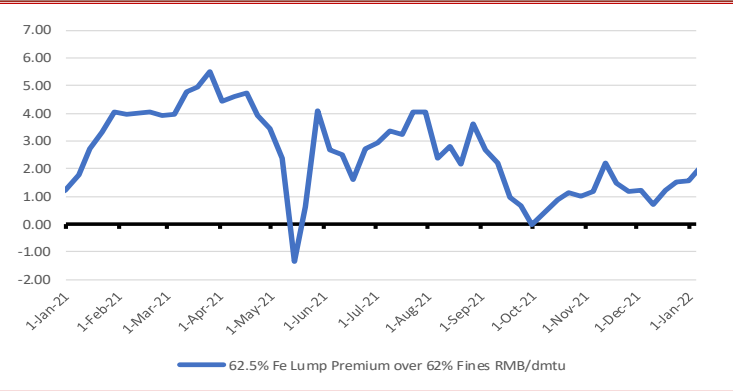
Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-50.00	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	-20.00	0.00	Jingtang	-20.00	0.00	Majishan	0.00	0.00	Taichang	-30.00	0.00
Dalian	0.00	0.00	Lanqiao	0.00	0.00	Qingdao	0.00	0.00	Tianjin	-40.00	0.00

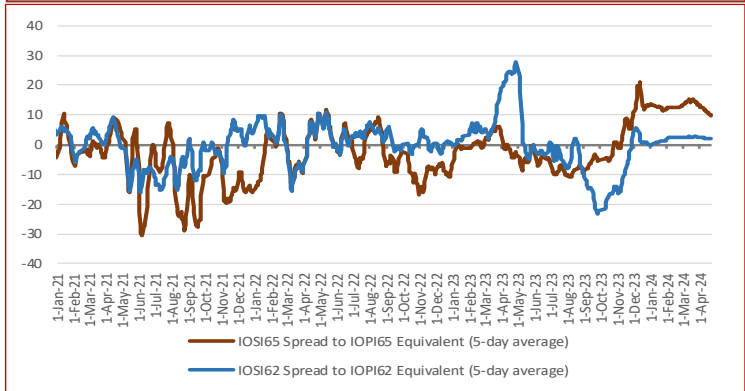
IRON ORE INDEX PREMIUMS/DISCOUNTS



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



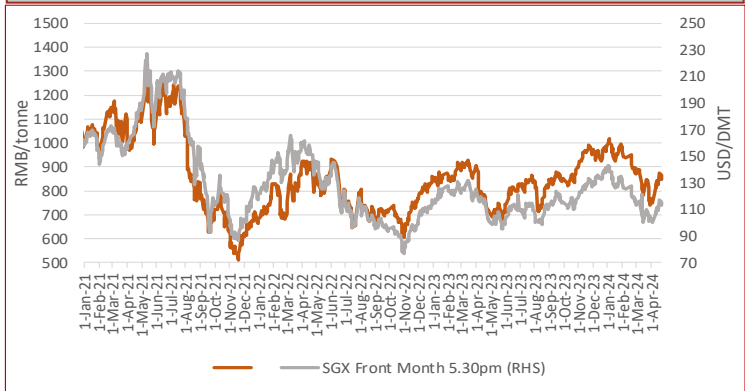
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



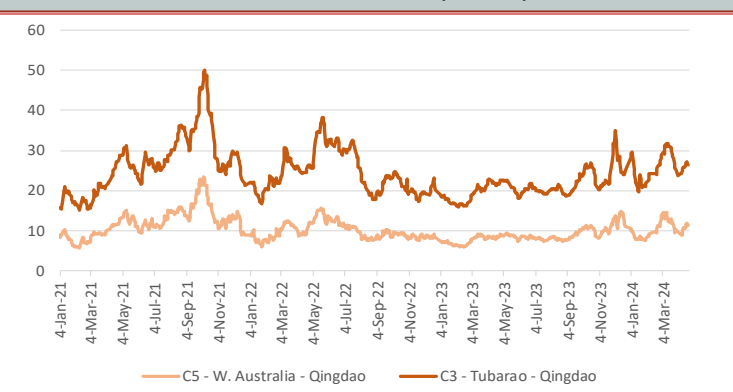
IRON ORE PORT INVENTORIES (MILLION TONNES)

Week Ending Apr 19th, 2024				
Province	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
Jingtang	15.41	-1.28%	8.41	19.20
Qingdao	22.55	1.21%	9.41	26.24
Caofeidian	14.90	3.76%	7.56	16.29
Tianjin	11.07	2.79%	6.49	12.97
Rizhao	16.84	1.02%	9.44	19.26
<b>Total (35 Ports)</b>	<b>141.54</b>	<b>0.61%</b>	<b>98.80</b>	<b>155.39</b>

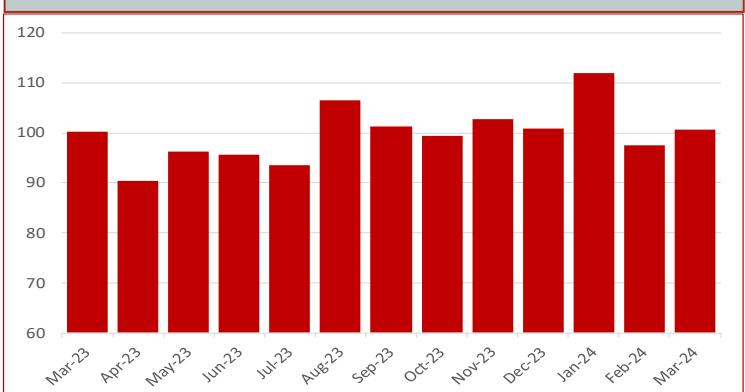
IRON ORE FUTURES CONTRACTS

Closing Date	DCE (RMB/WMT)			SGX (USD/DMT)		
	Apr 23rd, 3pm close			Apr 23rd, 5:30pm		
Contract	12409	Change	Change %	May. 24	Change	Change %
Closing Price	849.00	-17.50	-2.02%	113.05	-3.00	-2.59%
Vol traded ('000 lots)	48.30	2.02	4.36%	10.00	2.78	38.47%
Open positions ('000 lots)	47.77	0.15	0.31%	32.02	-0.08	-0.25%
Day Low	848.5	-9.00	-1.05%	112.35	-2.20	-1.92%
Day High	869.5	-5.50	-0.63%	116.85	-0.50	-0.43%

DRY BULK FREIGHT RATES (USD/MT)



TOTAL CHINA IRON ORE IMPORT VOLUMES (MILLION TONNES)



STEEL SPOT MARKET PRICES—CHINA

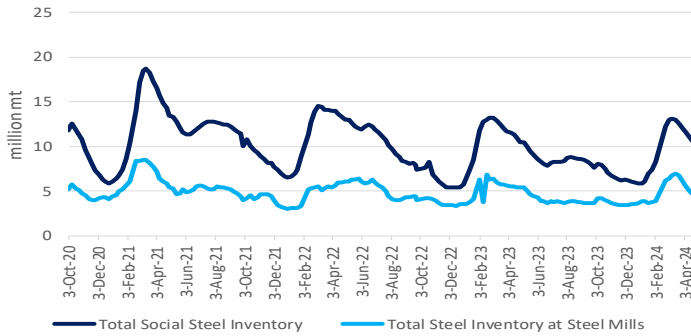
Product	2024/4/19	Change	Change %
ReBar HRB400 φ18mm	3,650	80	2.24%
Wirerod Q300 φ6.5mm	3,930	80	2.08%
HRC Q235/SS400 5.5mm*1500*C	3,880	80	2.11%
CRC SPCC/ST12 1.0mm*1250*2500	4,370	40	0.92%
Medium & Heavy Plate Q235B 20mm	3,850	30	0.79%
GI ST02Z 1.0mm*1000*C	4,720	80	1.72%
Colour Coated Plate	6,450	0	0.00%

CHINESE STEEL MILL PROFITABILITY

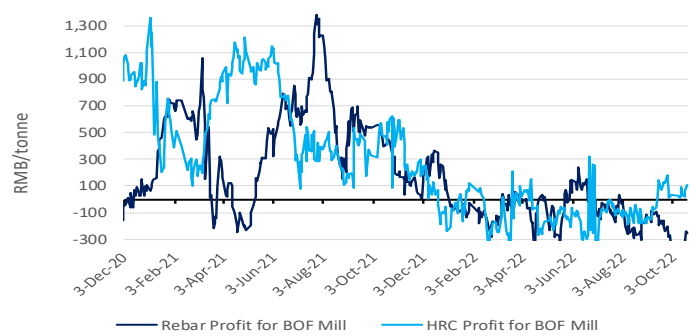
SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)			
Category	Price	Change (WoW)	Note
MMi (Fe 62%), USD/mt excluding tax	114.56	7	Mmi CFR Equivalent index for 1st Feb
Coke	2,010	110	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,700	0	steel scrap (6mm) in Zhangjiagang, excl. tax
Billet Cost	2,881	117	Q234, incl. tax
Rebar cost - Blast furnace	3,481	132	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	59	-82	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	3,549	129	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	311	-89	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

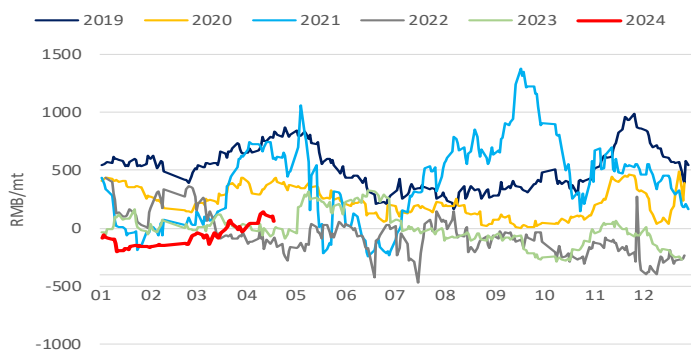
CHINESE STEEL INVENTORIES



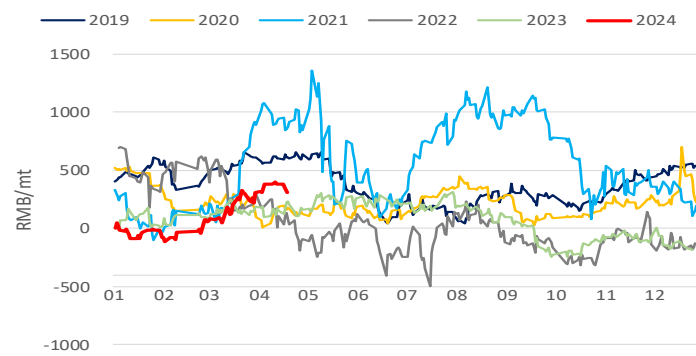
CHINESE STEEL MILL PROFITABILITY



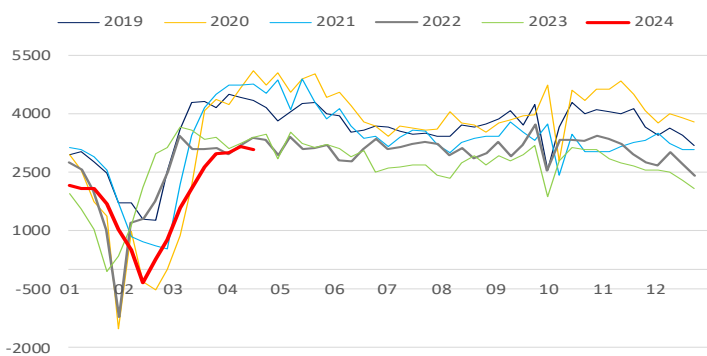
CHINESE STEEL MILL PROFITABILITY—Rebar



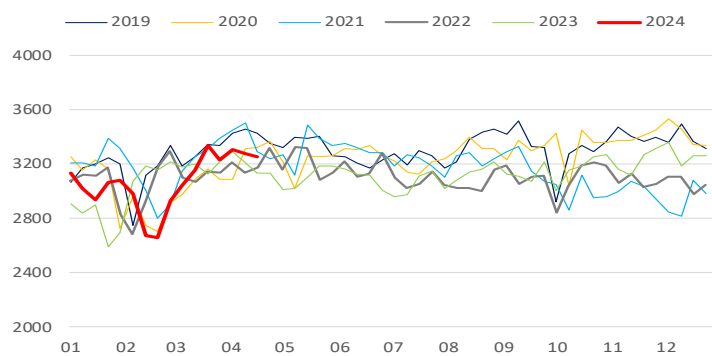
CHINESE STEEL MILL PROFITABILITY—Hot-rolled Coil



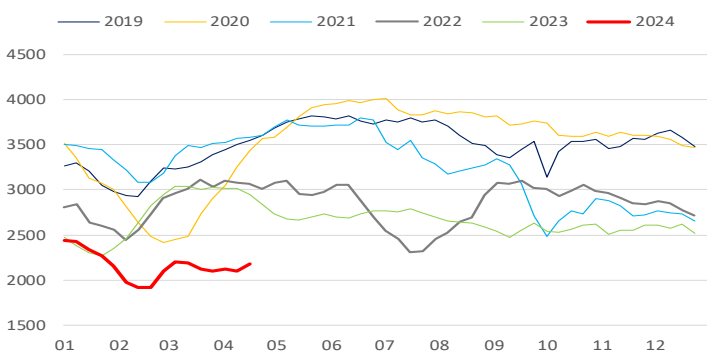
CHINESE STEEL CONSUMPTION—Rebar



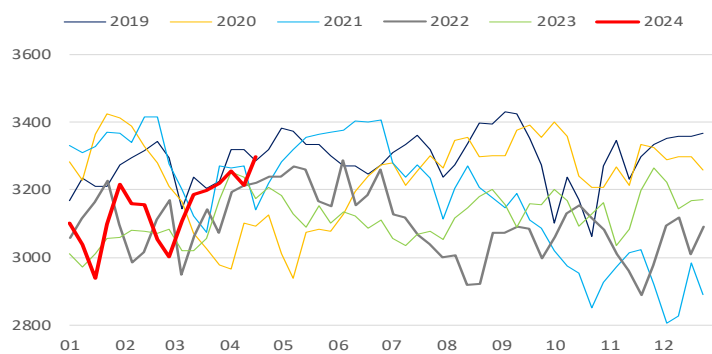
CHINESE STEEL CONSUMPTION—Hot-rolled Coil



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
	<b>65% Fe Fines</b>	<b>62% Fe Fines</b>	<b>58% Fe Fines</b>	<b>62.5% Fe Lump</b>	<p>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.</p> <p>For more details on MMi's iron ore methodology please download the guide published on our website at: <a href="http://www.mmiprices.com">www.mmiprices.com</a></p>
Fe %	65.00	62.00	58.00	62.50	
Alumina %	1.40	2.25	2.25	1.50	
Silica%	1.50	4.00	5.50	3.50	
Phosphorus %	0.06	0.09	0.05	0.08	
Sulphur %	0.01	0.02	0.02	0.02	
Moisture %	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*			
Port Index	62%	58%	65%
Seaborne index	0	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					
Apr 23rd, 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%
Apr 23rd, 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		IRCN0034
IOPI58	IRCNQ002		IRCNQ005		IRCN0035
IOPI65	IRCNQ003		IRCNQ006		
IOPLI62	IRCN0036		IRCN0037		

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