# GLOBAL ECONOMY and GRAPHITE ELECTRODE INDUSTRY JANUARY 2024 & OUTLOOK 2024

12 February 2024



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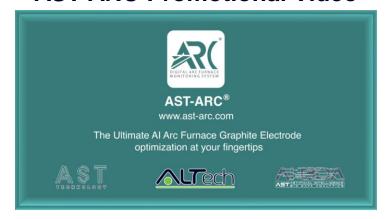
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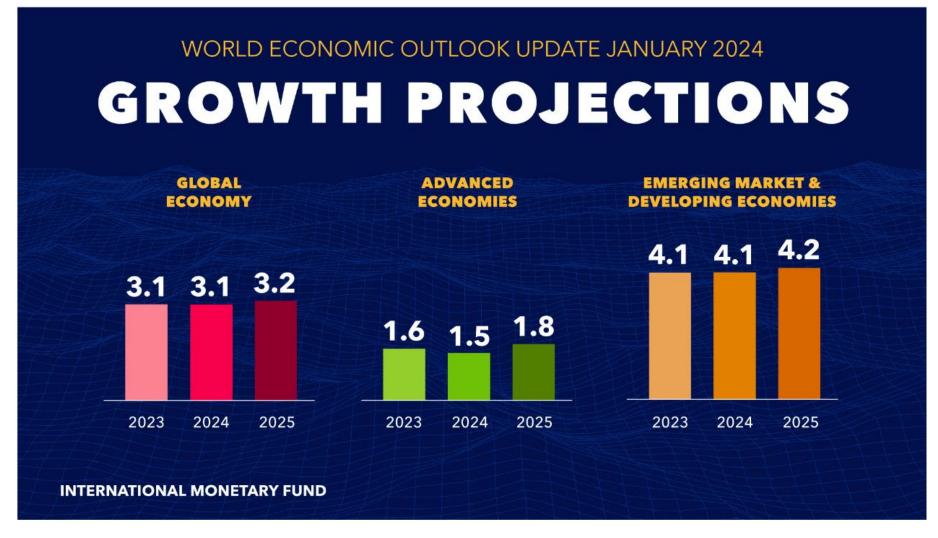


www.ast-arc.com





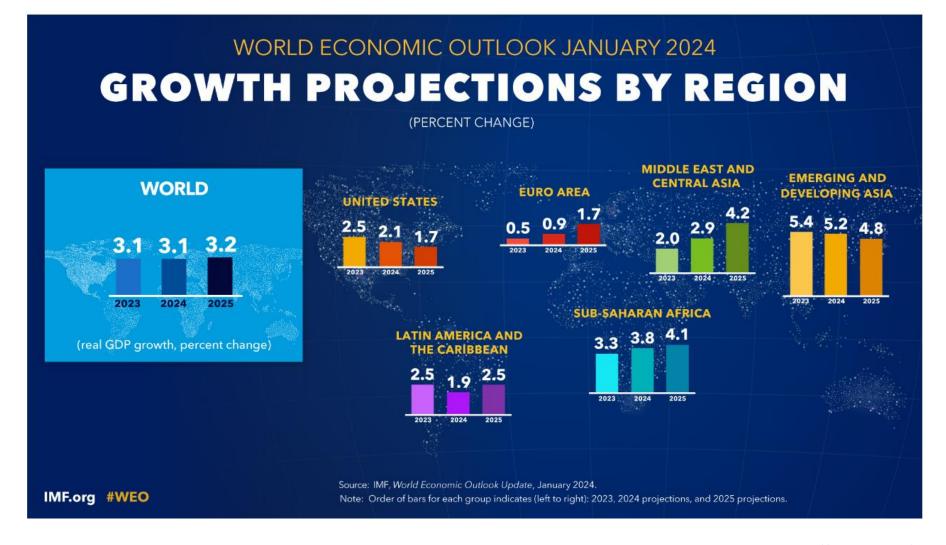
















	ESTIMATE	PROJECTIONS		
(Real GDP, annual percent change)	2023	2024	2025	
World Output	3.1	3.1	3.2	
Advanced Economies	1.6	1.5	1.8	
United States	2.5	2.1	1.7	
Euro Area	0.5	0.9	1.7	
Germany	-0.3	0.5	1.6	
France	0.8	1.0	1.7	
Italy	0.7	0.7	1.1	
Spain	2.4	1.5	2.1	
Japan	1.9	0.9	0.8	
United Kingdom	0.5	0.6	1.6	
Canada	1.1	1.4	2.3	
Other Advanced Economies	1.7	2.1	2.5	





	ESTIMATE	PROJECTIONS		
Real GDP, annual percent change)	2023	2024	2025	
Emerging Market and Developing Economies	4.1	4.1	4.2	
Emerging and Developing Asia	5.4	5.2	4.8	
China	5.2	4.6	4.1	
India	6.7	6.5	6.5	
Emerging and Developing Europe	2.7	2.8	2.5	
Russia	3.0	2.6	1.1	
Latin America and the Caribbean	2.5	1.9	2.5	
Brazil	3.1	1.7	1.9	
Mexico	3.4	2.7	1.5	
Middle East and Central Asia	2.0	2.9	4.2	
Saudi Arabia	-1.1	2.7	5.5	
Sub-Saharan Africa	3.3	3.8	4.1	
Nigeria	2.8	3.0	3.1	
South Africa	0.6	1.0	1.3	
Memorandum				
Emerging Market and Middle-Income Economies	4.2	4.0	4.0	
Low-Income Developing Countries	4.0	5.0	5.6	

Source: <a href="https://www.imf.org/">https://www.imf.org/</a>





- World trade growth is projected at:
  - 3.3 % in 2024 and
  - **3.6** % in 2025,

It is below its historical average growth rate of 4.9%

- Rising trade distortions and geo-economic fragmentation are expected to continue to weigh on the level of global trade
- Countries imposed:
  - About 3,200 new restrictions on trade in 2022
  - And about **3,000** in 2023
  - Up from about **1,100** in 2019, according to Global Trade Alert data
- These forecasts are based on assumptions:
  - Fuel and nonfuel commodity prices will decline in 2024 and 2025
  - Interest rates will decline in major economies
  - Annual average oil prices are projected to fall by about 2.3% in 2024,
  - Nonfuel commodity prices are expected to fall by 0.9%





#### Brent Crude Price



Brent crude futures held above \$81 per barrel and were set to advance nearly 6% this week as persistent geopolitical tensions in the Middle East continued to drive up oil prices.



Source: https://www.tradingeconomics.com





#### Iron Ore Price- 63.5% iron content



63.5% iron ore for Tianjin delivery dropped to \$128/MT in February 2024, the lowest in 3 months. Signs of a worsening macroeconomic backdrop magnified pessimism in the financial sector and its effect on construction demand. The latest data showed that Chinese deflation rose to its highest in 14 years. Also, new home prices in China sank at the sharpest pace since 2015 in December



Source: <a href="https://www.tradingeconomics.com">https://www.tradingeconomics.com</a>





#### **Steam Coal Price**



Newcastle coal futures rose to \$120/MT due to increased demand amid a cold wave and the Lunar New Year holiday. Despite these factors, prices remain near the lowest since May 2021 due to excessive supply. China's coal production surged to 4.66 billion MT in 2023, up 2.9% from the previous year, while coal imports reached a record high of 474.42 million MT, up 61.8%.



Source: <a href="https://www.tradingeconomics.com">https://www.tradingeconomics.com</a>





## LME Steel Scrap CFR Turkey – USD / MT





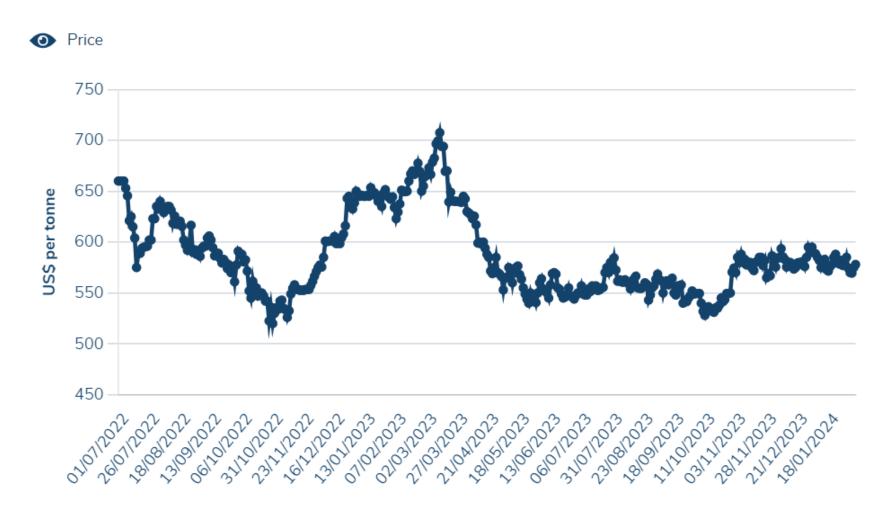
Source: <a href="https://www.lme.com">https://www.lme.com</a>





## LME-HRC Steel-FOB China (USD/MT)





Source: <a href="https://www.lme.com">https://www.lme.com</a>

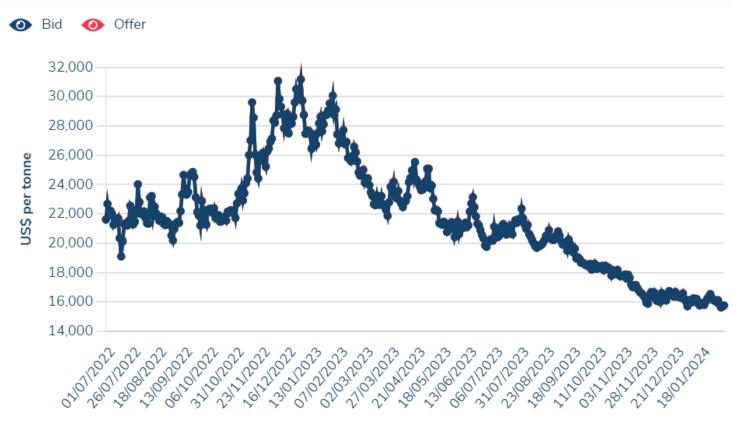




#### LME- Nickel Price- (USD/MT)



Nickel futures stabilized around \$16,000/ MT, a 3-year low, aligning with the broader downward trend in base metals amid a subdued industrial outlook, as China struggled to boost its economy. According to the forecast by the International Nickel Study Group, nickel's supply was projected to surpass demand by 239,000 MT in 2024.



Source: https://www.lme.com





#### LME-Aluminium Price (USD/MT)



Aluminum futures held above \$2,240/MT, rebounding from the 2-week low of \$2,213 touched on February 3rd. Prices were also supported by growing expectations that the EU may sanction aluminum imports from Russia. Such a measure would extend the of aluminum wires, tubes, pipes, and foil. However, according to European Aluminium, an industry association, the imposed restrictions only accounted for 12% of EU imports, prompting a call for a broader ban.



Source: https://www.lme.com

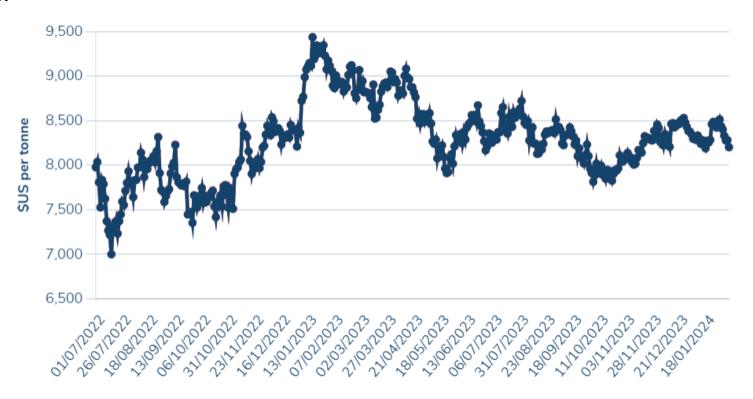




### LME- Copper Price (USD/MT)



Copper futures in the US fell to under \$3.7 per pound in February, the lowest in nearly 3 months and sinking more than 5% since the start of the month amid a strong US dollar and pessimistic industrial sentiment in China. Persistent macroeconomic headwinds in China, continued to hamper the outlook for base metals.



Source: <a href="https://www.lme.com">https://www.lme.com</a>

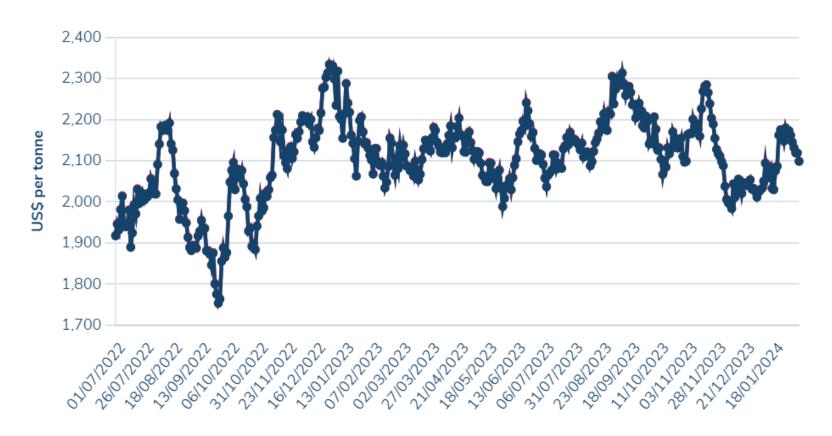




#### LME- Lead Price (USD/MT)



Lead increased 21.25 USD/MT or 1.04% since the beginning of 2024 Historically, Lead reached an all-time high of 3989 in October of 2007.



Source: https://www.lme.com

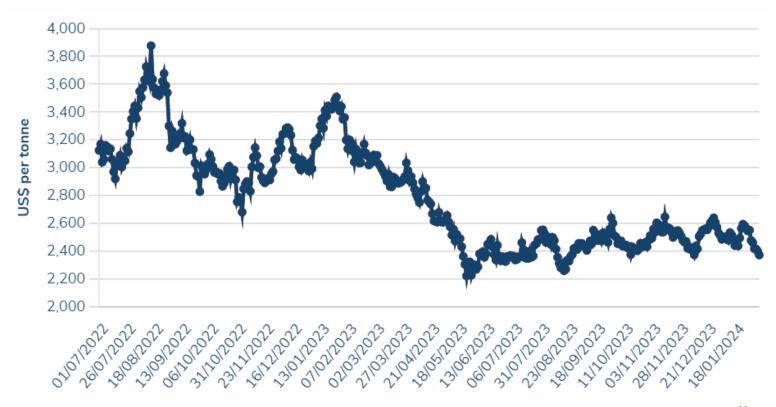




#### LME- Zinc Price (USD/MT)



Zinc prices fell under \$2,400/MT, their lowest since the end of August 2023, pressured by growing inventories and demand worries amid continued weakness in the real estate sector of China. Since zinc is mainly used for galvanized steel, half of the demand for the commodity comes from construction.



Source: <a href="https://www.lme.com">https://www.lme.com</a>

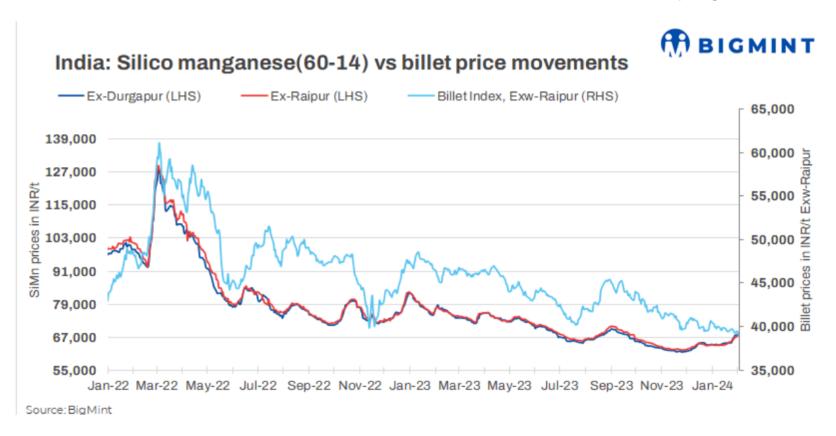




# Ferro Alloys: Ferro Silico Manganese Price Trend



Indian prices of silico manganese in India rose by around INR 1,700/MT (\$21/MT) w-o-w reaching a 4-month high, as these levels were last seen in September 2023. Improved inquiries for exports and domestic demand led to supply tightness.



Source: https://www.steelmint.com

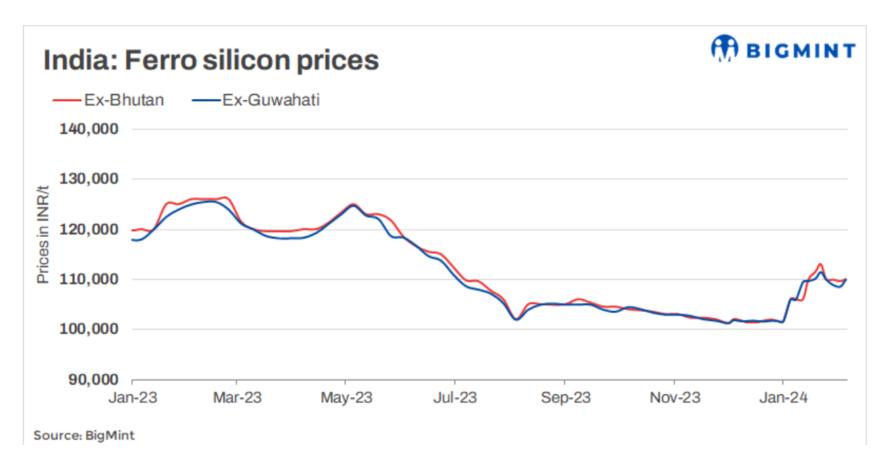




### Ferro Alloys: Ferro Silicon Price Trend



Indian ferrosilicon (70%) prices saw a w-o-w increase of INR 1,000/MT (\$12/MT) as compared to the previous assessment on 29 January



Source: https://www.steelmint.com



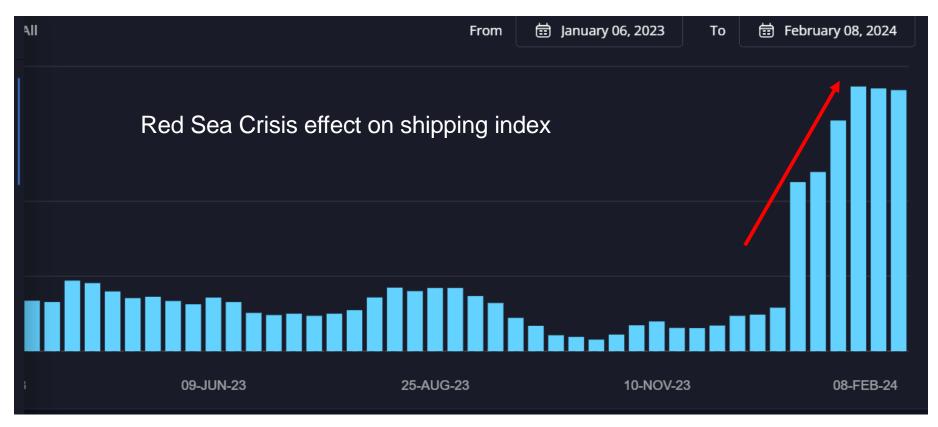


# World Shipping Index



#### Freightos Baltic Index (FBX) Global Container Index

Freight movement for the last one year



Source: <a href="https://fbx.freightos.com/">https://fbx.freightos.com/</a>





#### Red Sea Crisis effect



#### Key takeaways

- With 30% of global container trade transiting through the Suez Canal, the Red Sea shipping crisis is upending supply chains
- It is also increasing shipping costs, causing the prices of some routes particularly from Asia to Europe — to surge nearly five-fold
- Higher shipping costs are likely to pass through to imported goods prices with a lag, depending on both the duration and intensity of the crisis
- J.P. Morgan Research estimates the disruptions could add 0.7 percentage points to global core goods inflation, and 0.3 percentage points to overall core inflation, during the first half of 2024





#### Red Sea Crisis effect









# Global Crude Steel



#### Global Crude Steel Production CY 2023



World crude steel production in CY 2023 was 1849.7 million MT, a 0.1% decrease compared to CY 2022

Regions	Dec-23	% change Dec	Jan-Dec	% change Jan-Dec
	(MT)	23/22	2023 (MT)	23/22
Africa	1.9	17.7 👚	22.0	5.7
Russia & other CIS + Ukraine	7.1	11.8 👚	88.1	4.5
Middle East	4.9	9.6	53.2	1.3
Asia and Oceania	96.4	-9.7 🎩	1367.2	0.7
North America	9.3	5.3	109.6	-1.7 👢
Europe, Other	3.9	19.4 👚	41.7	-4.6 👢
South America	3.2	-3.2 🎩	41.5	-5.7 👢
EU (27)	9.1	2.7	126.3	-7.4 👢
Total 71 countries	135.7	-5.3 👢	1849.7	-0.1 👢

Asia shows a marginal growth of 0.7% and with the EU, North and South America register a negative growth

Source: <a href="https://www.worldsteel.org/">https://www.worldsteel.org/</a>





# Top 10 Crude Steel Producing countries



Countries	Dec-23	% change Dec	Jan-Dec	% change Jan-Dec
	(MT)	23/22	2023 (MT)	23/22
India	12.1	9.5	140.2	11.8
Russia	6.0	4.3	75.8	5.6 👚
South Korea	5.4	2.7	66.7	1.3 👚
United States	6.8	7.6	80.7	0.2 👚
China	67.4	-14.9 🎩	1019.1	0.0
Japan	7.0	1.1 👚	87.0	-2.5 🎩
Germany	2.6	-2.3 👢	35.4	-3.9 🎩
Türkiye	3.2	21.2	33.7	-4.0 🎩
Brazil	2.5	0.9	31.9	-6.5 👢
Iran	2.9	12.1 👚	31.1	1.8 👚

China showed a flat performance, and India registered a tremendous growth of almost 12%.

Source: <a href="https://www.worldsteel.org/">https://www.worldsteel.org/</a>



### China's steel exports up 35% in 2023



#### China's Region-wise Steel Exports in 2023





JKT: Japan, South Korea, Taiwan | USMCA: United States—Mexico-Canada Agreement | CIS: Commonwealth of Independent States All above figures are rounded off. | Quantity in million tonnes (mnt) | % change in year-on-year (y-o-y) | Source: China Customs, BigMint

Source: **BIGMINT** 



POWERED BY BIG PICTURE

#### China's steel exports up 35% in 2023



- China's steel exports crossed:
- 90 million MT mark in 2023 ending with a volume of 91.20 million MT
- A 35% increase over 67.45 million MT seen in 2022
- Supply-demand mismatch boosts overseas sales
- Currency devaluation a boon for exporters
- Sluggish winter restocking may support exports in the near term
- Country-wise breakup
  - SEA retains the top importer slot
  - MENA in second spot



#### China's steel exports up 35% in 2023



- Country-wise breakup
  - SEA: 35% increase to 27 million MT vs 20 million MT in 2022
  - Vietnam: Top importer with 9.25 vs 5.46 million MT in 2022 a 70% growth
  - MENA region Buying quite heavily from China, in 2nd position with 26 million MT, up 44% from 18 million MT seen last year.
  - Turkiye and the UAE -top two importers.
    - Volumes to Turkiye up 64% to 4 million MT
    - UAE imports surged 87% y-o-y to 4 million MT
  - The Middle East has seen massive infra projects being announced which would require huge volumes of steel.
  - Turkiye, has some positives because of restocking demand from the EU although its inflation and currency slide are still major challenges
  - The EU's energy prices have stabilized a rise in its domestic prices is making the region eye cheaper imports

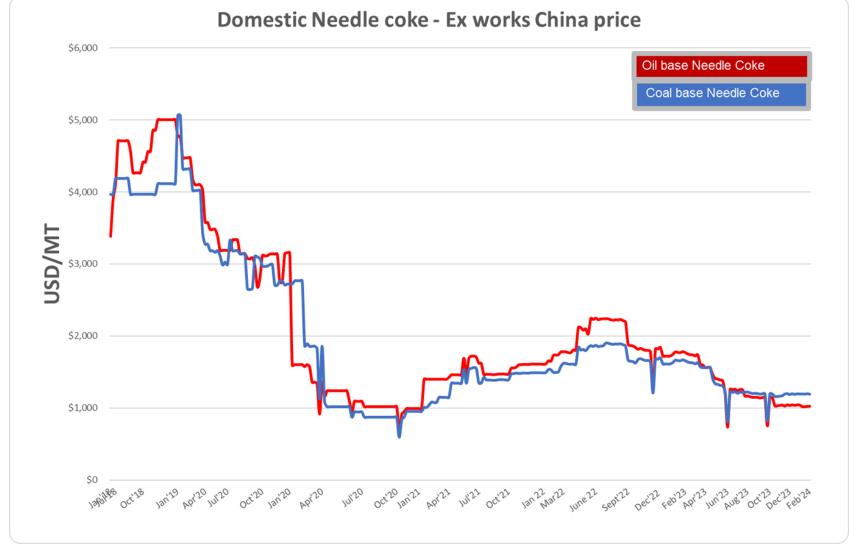


# Graphite Electrode Outlook



## GE Raw Material – Ex works China Needle Coke Price index





Source: http://www.iccsino.com





# Graphite Electrode and Needle Coke prices





- As reported in our last month's market outlook report, from January to November 2023, China's total export of graphite electrodes was 271,400 tons, an increase of 0.37%, (approximately 10,000 MT more)
- An increase in steel export by 23.75 million MT in CY 2023 from China globally bringing about a drop in local steel production in importing countries
- The above two factors resulted in graphite electrodes producers reporting a lower production rate
- Red Sea crisis had severely hit the topline of Graphite Electrode producers globally



#### Conclusion



- The January 2024 World Economic Outlook Update projects global growth to be steady at 3.1% in 2024 and 3.2% in 2025
- The Red Sea crisis results in increasing shipping costs, causing the prices of some routes — particularly from Asia to Europe — to surge nearly five-fold
- World crude steel production in CY 2023 was 1849.7 million MT, a 0.1% decrease compared to CY 2022
- China's steel exports up 35% in 2023
- Graphite electrode producers reporting a lower production rate.
- The Red Sea crisis had severely hit the topline of Graphite Electrode producers globally



# ALTech GROUP Participation in important Global Conferences and Technical Paper Presentations- Past and Present



#### ALTech GROUP Participation & Technical Paper Presentation - 2024







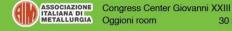


#### ALTech GROUP Participation & Technical Paper Presentation-2023





Meet us at "EAF international meeting"



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Bergamo, Italy 30 November - 1 December 2023



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The Synthetic Graphite Industry: The Achilles heel of Green Steel and Green Mobility through the lens of announced shortages and geopolitical disruptions

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Meet us at:



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The Atlantis

Dubai, United Arab Emirates 20 November - 22 November 2023

> www.altechgroup.net altech@altechgroup.net



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Transamérica Expo Center

São Paulo, Brazil 8 - 9 November 2023















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#### ALTech GROUP Participation & Technical Paper Presentation - 2023









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# G R O U P

#### **ALTech's Geographical Footprint**



Sales Office and Registered Entity

Sales Representation

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# Thank you

