



Authored by: Rohan Reddy Director of Research

Date: April 12, 2023 Topic: Thematic



Please click below for fund holdings and important performance information.

COPX - Copper Miners ETF

GLOBAL X ETFs RESEARCH

Copper Update: China's Demand and Renewed Supply Risks to Be Supportive of a Market Rebound

Copper is a workhorse metal in the global economy given its high ductility, conductivity, and corrosionresistant properties. Today, clean energy initiatives are catalysts that could lead to higher secular demand. Another major demand factor is the possibility of a quicker-than-expected economic recovery in China, driven by the recovery in its influential property sector. Demand is only one side of the story, though, as production disruptions in key South and Central American regions add to concerns that the copper market may be heading into a deficit. In this piece, we discuss these factors and more, including how investors may want to consider exposure to copper.

Key Takeaways

- The recovery of China's property market is a critical component of the trajectory for global copper demand. In our view, the Chinese government's latest rescue package can lead to a robust rebound in China's building and construction.
- Supply and inventory risks are a consideration with copper being a core material building block for renewable power grid and electric vehicle (EV) infrastructure.
- We believe copper presents compelling investment opportunities, including through leveraged plays like copper miners.

China's Property Market Recovery to Support Copper Demand

China is the biggest consumer in the world, using more than half of the world's supply.¹ At the center of China's consumption is its building and construction sector, which accounts for about 30% of total copper end use.² How China's property sector bounces back from COVID-induced slowdowns is a key factor in the trajectory for copper demand. The massive property sector rescue package that the government unveiled in November 2022 should help.³ This rescue package is more pragmatic and comprehensive than earlier measures, signaling the central government's determination to support developer financing and manage the spillover risks.

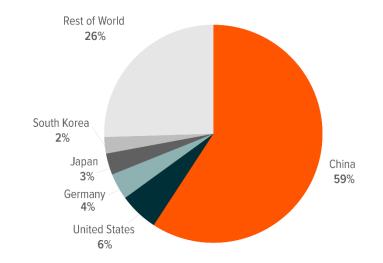


ABOUT CONTACT



COPPER DEMAND SHARE

Source: Global X ETFs with information derived from Bloomberg LP. Data as of December 31,2022



As part of the package, the China Banking and Insurance Regulatory Commission (CBIRC) outlined 16 steps to aid the property sector. Among them, the CBIRC lifted a ban on equity refinancing for property developers, allowing listed builders to sell local shares for debt payments and acquisitions. To finish housing projects, construct affordable housing, refill working capital, and pay off debt, listed developers in China will be permitted to begin private placements.⁴ Also, the property sector received new loan lines totaling \$162 billion from China's leading banks, proving a significant, synchronized infusion of liquidity into the Chinese real estate market.⁵

The 2023 Government Work Report (GWR), an annual report that details the government's economic development plans for the year, largely restated the vows made at the government's 2022 Central Economic Work Conference (CEWC) in December 2022. The government remains committed to improving property developers' balance sheets and ensuring home supply. The GWR did remove the statement that "housing is for living, not for speculation." ⁶ Instead, the government now encourages the steady growth of the property market, signaling a change from curbing speculation to boosting demand. In keeping with CEWC, the government stressed supporting basic and upgrading housing demand by rolling out financial support.⁷

Helped by government stimulus, China's home prices steadied in January to end a 16-month decline ⁸ and gained momentum in February ⁹. Should home prices continue to stabilize and boost buyers' confidence, it could be viewed as an early sign that property sales may start to improve.

More broadly, China reported that its manufacturing sector is recovering rapidly. According to February Purchasing Managers' Index (PMI) data, China's manufacturing sector expanded at its quickest rate since April 2012¹⁰, potentially paving the way for higher output and increased economic activity. Moreover, China's March NBS PMI survey showed service and construction activities driving the post-Covid recovery.¹¹

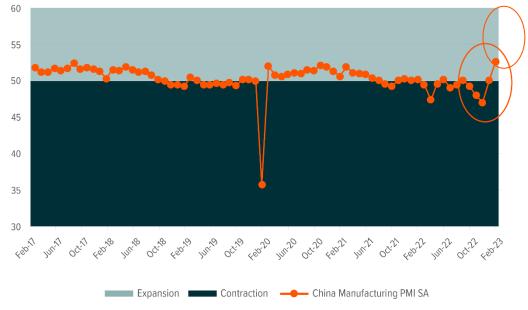


OUR ETFs RESEARCH ABOUT CONTACT



CHINA MANUFACTURING PMI SA

Sources: Global X ETFs with information derived from China Federation of Logistics & Purchasing. Monthly Data as of March 15, 2023.



Production Interruptions Raise Concerns About Copper Supply

Copper supply might increase in 2023 due to project ramp-ups ¹², but supply disruption risks are a consideration, particularly in key Central and South American production regions. Chile and Peru alone provide almost 40% of the global copper supply.¹³ Recent disruptions in the region include the Las Bambas copper mine in Peru, where production was partially cut after road blockades in February 2023 prevented the delivery of raw materials¹⁴. In late February 2023, First Quantum stopped processing ore at its Panama mine due to mine tax and royalty disputes.¹⁵

Disruptions like these increase the risk of a copper shortfall in the coming years, which can put pressure on prices. Other potential stumbling blocks to the rapid expansion of capacity include land acquisition and grid connection risks. Water scarcity in arid locations is another risk, as copper extraction typically requires significant water use. Already, in December 2022, commodity trading and mining company Glencore forecasted a 50 mt supply shortage by 2030.^{16.}

Low copper inventories in the United States and Europe exacerbate the production disruptions in South and Central America, adding to the perception that the copper market may be approaching a deficit. If Chinese demand keeps rising as it did in February, Goldman Sachs expects the world to run out of visible copper inventory by the third quarter, this year.¹⁷ Low inventories increase the possibility of a price surge in the event of significant drawdowns and a subsequent rush by traders to replenish their stock.

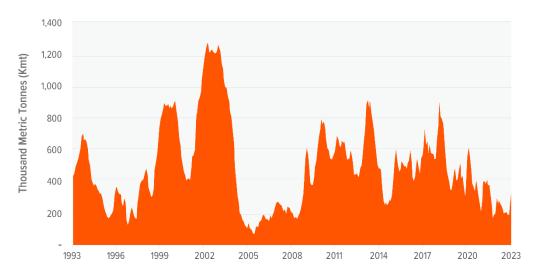
Despite a recent increase, inventories remain very low in the London Metal Exchange (LME) and Commodity New York Mercantile Exchange (COMEX)¹⁸. However, inventories grew in the Shanghai Futures Exchange (SHFE) following Lunar New Year, which is a seasonal occurrence linked to the holiday. If inventories were to fall earlier or more quickly than expected, it could confirm expectations of a strong rebound in Chinese demand. SHFE falling inventory levels from the last week of February confirmed a rebound back.¹⁹





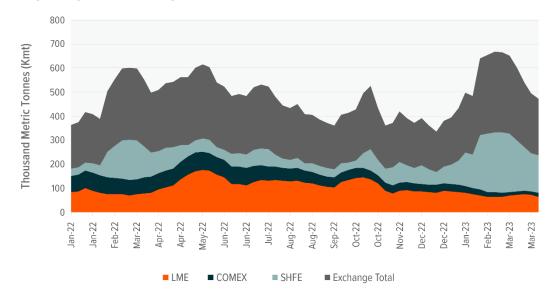
HISTORICAL MONTHLY EXCHANGE INVENTORIES

Sources: Global X ETFs with information derived from Bloomberg LP, The Commodity Exchange Inc., London Metal Exchange, Shanghai Futures Exchange. As of March 31, 2023.



WEEKLY EXCHANGE INVENTORIES STACKED AREA BREAKDOWN

Sources: Global X ETFs with information derived from Bloomberg LP, The Commodity Exchange Inc., London Metal Exchange, Shanghai Futures Exchange. As of March 31, 2023.



Demand for Clean Energy Can Trigger a Copper Super Cycle

Copper's useful characteristics imply that its demand is closely linked to economic cycles, industrialization, and now the energy transition. In the near term, we expect copper prices to find support from global catalysts such as the Federal Reserve's (Fed) eventual pause of its hiking cycle, a weaker U.S. dollar and China's reopening. In the medium term, energy transition-related demand and lagging supply investment might mainly drive copper prices.



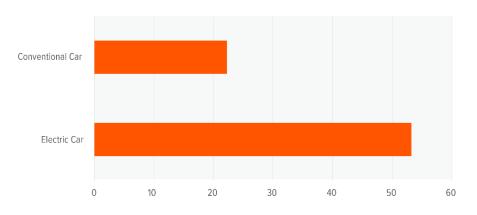
OUR ETFs RESEARCH ABOUT N CONTACT P



Many governments are investing to develop renewable energy including solar power and to increase electric vehicles (EV) adoption, notably the United States and Europe.²⁰ As a result, these two economies are becoming key drivers of the surge in copper demand. For example, the Biden administration recently granted \$2.8 billion for EV battery manufacturing.²¹ The Inflation Reduction Act of 2022 provides credits to buy EVs, and if all goes according to plan, 50% of all new cars sold in the United States could be some type of EV 2030.²² Europe increased its demand for copper as part of its accelerated shift to renewables to wean off Russian gas.²³

COPPER USAGE IN ELECTRIC VEHICLES (EV) VS. INTERNAL COMBUSTION ENGINE (ICE) VEHICLES (KG/VEHICLE)

Sources: Global X ETFs with information derived from International Energy Agency (2022, October). Minerals used in electric cars compared to conventional cars.



According to the International Energy Agency (IEA), annual copper demand globally is expected to double by 2030.²⁴ Copper is one of the minerals that will be indispensable to the energy transition. Its conductive qualities make copper a key component of low-emissions power production technologies like solar photovoltaic (PV) panels, wind turbines, and batteries, in addition to its widespread use in the energy transmission and distribution grids.²⁵

MINERALS CRITICAL TO CLEAN ENERGY TECHNOLOGIES

Sources: Global X ETFs with information derived from International Energy Agency (2022, October). Minerals used in clean energy technologies compared to other power generation sources.

	Copper	Cobalt	Nickel	Lithium	REEs	Chromium	Zinc	PGMs	Aluminium
Solar PV	•	•	•	•		•	•	•	•
Wind	•	•	٠	•	•	٠	•	٠	٠
Hydro	•	•	•	•	•	•	٠	٠	•
CSP	•	•	•	•		•	•	٠	•
Bioenergy	•	•	•	•	•	•	•	٠	٠
Geothermal	•	•	•	•		•	•	•	٠
Nuclear	•	•	٠	•	•	•	•	٠	٠
Electricity Networks	•	•	•	•	٠	•	•	٠	٠
Vs and Battery Storage	•	•	•	•	•	•	•	٠	•
Hydrogen	•	•	•	٠	٠	٠		•	•

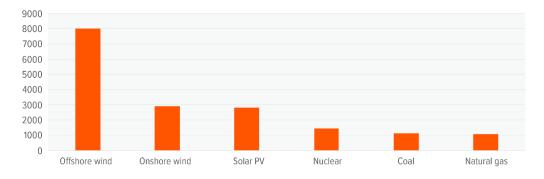
X

OUR ETFs <u>RE</u>SEARCH ABOUT CONTACT



COPPER USAGE IN CLEAN ENERGY TECHNOLOGIES COMPARED TO OTHER POWER GENERATION SOURCES (KG/MW)

Sources: Global X ETFs with information derived from International Energy Agency (2022, October). Minerals used in clean energy technologies compared to other power generation sources.



Multiple Ways to Invest in Copper, Including Leveraged Plays via Miners

Investors can gain exposure to copper through physical copper, futures, and mining stocks. Physical copper bullion can be bought directly from precious metal dealers, who sell it at spot market prices. The advantage of physical ownership is that its value closely tracks the price movements of the broader copper market. Also, owners have direct access to their investment. One downside is that dealers can charge premiums to buy and sell copper, which can dramatically reduce returns. In addition, storage costs must be taken into account.

Paper trading of copper is conducted through the futures market. Paper trading provides investors with exposure to copper without needing to physically hold the metal, potentially improving liquidity and reducing the cost of ownership. Unlike the bullion market, futures markets can also allow investors to use leverage. One downside of futures is contango, which occurs when future prices of a commodity are higher than its spot price. Contango can erode gains over time, even if the spot price of copper rises. For example, the Copper forward curve has been recently rather smile-shaped, including phases of contango, such as from June to November 2023.²⁶

Copper mining stocks offer indirect exposure to copper prices. These stocks tend to be leveraged plays on copper prices due to the fixed costs of extracting the metal. Historically, copper miners outperform bullion in bullish markets because of how these companies use their operating leverage to increase profits, which can boost share prices. Unlike investing directly in copper, miners can expand production as profit margins grow. A potential drawback for investors is exposure to idiosyncratic risks associated with owning a particular company's stock. To counteract this risk, investors may look to an ETF, which owns a broad basket of companies involved in copper mining.

This high inflation environment makes for difficult operating conditions, causing some analysts to be pessimistic about the mining industry's capacity to exceed the commodity price. Due to largely fixed expenses in the mining business, companies' profits depend on both cost curves and the copper price. Currently, copper is trading over cash cost support compared to other base metals.

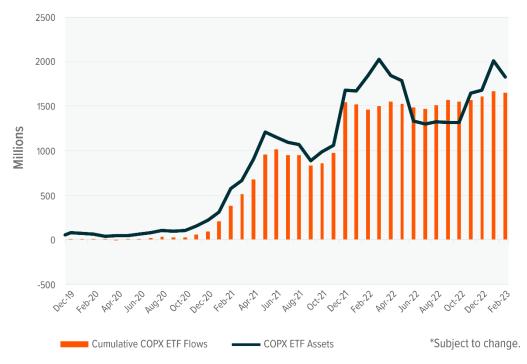


ABOUT NI CONTACT PI



COPX ETF ASSETS & CUMULATIVE FUND FLOWS (\$USD MILLIONS)*

Sources: Global X ETFs with information derived from Bloomberg LP. Monthly Cumulative Flows and Assets as of March 21, 2023.



Conclusion: Demand Catalysts Materializing Into Opportunities

Copper may not have the shine of a precious metal, but the world puts it to work in myriad ways due to its unique characteristics. Tight supply, a bullish long-term story linked to the energy transition, and the potential for an economic boom as China reopens create a compelling investment case for copper, in our view. Despite high volatility and risks linked to an expected global slowdown, we believe copper is still supported in the near term while a Supercycle is envisioned over the decade.

Footnotes

- 1. Bloomberg LP (2022, December 31). Copper demand share.
- 2. JP Morgan. (2022, May 06). Global Commodities Research, Base Metals Primer: Copper End-Use by Sector.
- Reuters (2022, November 14). China's 'most comprehensive' rescue package for property sector lifts 3. stocks, bonds.
- 4. lbid.
- 5. Financial Times (2022, November 24). Chinese lenders to pump \$162bn of credit into property developers.
- 6. Deloitte (2023, March 20). Interpretation of the 2023 Government Work Report & Industry Outlook.
- China Briefing (2022, December 26). China's Central Economic Work Conference: Policymakers Set 7. Sights on Growth in 2023.
- 8. Bloomberg News (2023, February 16). China Home Prices Hold Steady After Declining for 16 Months.
- 9. Reuters (2023, March 16). China new home prices rise in February but unsold homes cloud outlook.



ABOUT



- 10. Reuters (2023, March 1). China's factory activity stuns with fastest growth in a decade.
- 11. Bloomberg News (2023, March 31). China's Strong PMIs Show Economic Recovery Gaining Traction.
- 12. JP Morgan (2023, March 7). Copper Outlook Presentation.
- 13. Bloomberg LP (2022, September 30). Copper mine production share.
- 14. Reuters (2023, February 1). Peru's Las Bambas mine set to halt production as blockades remain, source says.
- 15. Reuters (2023, February 23) First Quantum stops processing ore at Panama mine as conflict deepens.
- 16. Glencore (2022, December 6). 2022 Investor Update.
- 17. Financial Times (2023, March 24) Copper price to surge to record high this year, Trafigura forecasts.
- 18. Bloomberg LP (2023, March 15) The Commodity Exchange Inc., London Metal Exchange, Shanghai Futures Exchange.
- 19. Ibid
- 20. BBC (2023, February 1). EU takes on US as tries to win electric car battle.
- 21. CNBC (2022, October 19). Biden administration awards \$2.8 billion in grants for electric vehicle battery manufacturing.
- 22. Bloomberg UK (2022, September 20) More Than Half of US Car Sales Will Be Electric by 2030.
- 23. European Commission (2022, November 9). REPowerEU: Commission steps up green transition away from Russian gas by accelerating renewables permitting.
- 24. International Energy Agency (IEA). (2022, October 27). World Energy Outlook 2022.
- 25. Ibid.
- 26. Bloomberg LP (2023, March 21). Copper Futures, HG1 Comdty Forward curve. Dataset as of 2023, March 21.

Glossary

The Purchasing Managers' Index (PMI): An index of the prevailing direction of economic trends in the manufacturing and service sectors. It consists of a diffusion index that summarizes whether market conditions, as viewed by purchasing managers, are expanding, staying the same, or contracting.

This material represents an assessment of the market environment at a specific point in time and is not intended to be a forecast of future events, or a guarantee of future results. This information should not be relied upon by the reader as research or investment advice regarding the fund or any stock in particular.

Investing involves risk, including the possible loss of principal. International investments may involve risk of capital loss from unfavorable fluctuation in currency values, from differences in generally accepted accounting principles, or from economic or political instability in other nations. Emerging markets involve heightened risks related to the same factors as well as increased volatility and lower trading volume. Narrowly focused investments may be subject to higher volatility. There are additional risks associated with investing in copper and the copper mining industry. COPX is non-diversified.

Shares of ETFs are bought and sold at market price (not NAV) and are not individually redeemed from the Fund. Brokerage commissions will reduce returns.

Carefully consider the Fund's investment objectives, risks, and charges and expenses before investing. This and other information can be found in the Fund's summary or full prospectuses. Please read the prospectus carefully before investing.

Global X Management Company LLC serves as an advisor to Global X Funds. The Funds are distributed by SEI Investments Distribution Co. (SIDCO), which is not affiliated with Global X Management Company LLC or Mirae Asset Global Investments. Global X Funds are not sponsored, endorsed, issued, sold or promoted by Solactive AG, nor does Solactive AG make any representations regarding the advisability of investing in the Global X Funds. Neither SIDCO, Global X nor Mirae Asset Global Investments are affiliated with Solactive AG.







X

NEWS PRIVACY POLICY INTENDED FOR ELECTRONIC USE ONLY