

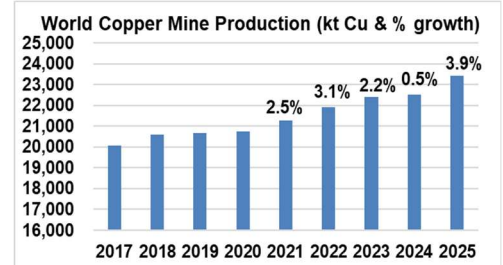


Copper Market Forecast 2024/2025

The International Copper Study Group (ICSG) met in Lisbon, Portugal, on 25 April 2024. Government delegates and industry advisors from most of the world’s leading copper producing and using countries participated to discuss key issues affecting the global copper market. At the meeting of the Statistical Committee, the ICSG view of the world balance of refined copper production and use was developed.

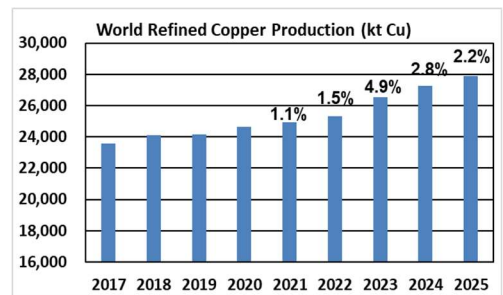
World copper mine production is expected to increase by 0.5% in 2024 with growth of 3.9% forecast in 2025:

- The rate of growth of world copper mine production in 2024 has been revised down to 0.5% vis-à-vis the 3.7% forecast by the Group in October 2023. This is mainly due to the slower than expected ramp-up of a number of projects, delays in project commissioning, revised company production guidance and the closure of First Quantum’s 380,000 tonne per year capacity Cobre Panama mine.
- In 2025, global output will benefit from the start-up of the Malmyzhskoye mine in the Russian Federation as well as the Kammoa-Kakula phase 3 expansion in the DRC. A number of expansions and the opening of some medium and small mines will also add to production.



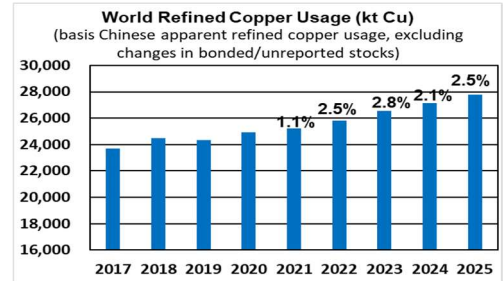
World refined copper production is forecast to rise by about 2.8% in 2024 and 2.2% in 2025:

- In 2024, refined copper output is expected to recover from a series of maintenance outages, accidents and operational issues that occurred in 2023 in a number of major producing countries including Chile, Japan, India, Indonesia and United States.
- Overall, primary electrolytic refined output is expected to increase by 2.9% and electrowinning production by 0.5%.
- In 2025, although production will benefit from the continued expansion of Chinese electrolytic capacity and the ramp-up of new smelters/refineries in Indonesia and India, primary electrolytic refined production growth is expected to be limited by the constrained availability of concentrates and to increase by a modest 0.7%. However, electrowinning output is forecast to rise by 4% and secondary refined production (from scrap) by 6%, benefiting from expanded capacity.



World apparent refined copper usage is expected to increase by about 2% in 2024 and 2.5% in 2025:

- The rate of growth in world refined usage has been revised down for 2024 to 2% from the 2.7% forecast at the Group’s October 2023 meetings.
- Chinese usage is expected to grow by about 2% in 2024 and 1.6% in 2025.
- After an estimated decline of 3% in 2023, world ex-China usage in 2024 and 2025 is expected to increase by 2.4% and 3.8% respectively, mainly due to the development of new semis production capacity in India and a number of other countries.
- Copper is essential to economic activity and to the modern technological society. Additionally, infrastructure developments in major countries and the global trend towards cleaner energy and electric cars will continue to support copper demand in the longer term.



World refined copper balance projections indicate a surplus of about 162,000 tonnes for 2024 and 94,000 tonnes for 2025:

- ICSG recognizes that global market balances can vary from those projected owing to numerous factors that could alter projections for both production and usage. In this context, it should be noted that actual market balance outcomes have, on recent occasions, deviated from ICSG market balance forecasts due to unforeseen developments.
- In developing its global market balance, ICSG uses an apparent demand calculation for China that does not consider changes in unreported stocks (State Reserve Bureau (SRB), producer, consumer, merchant/trader, bonded) which can be significant during periods of stocking or de-stocking and which can markedly alter global supply-demand balances. Apparent copper demand for China is based only on reported data (production + net trade +/- SHFE stock changes).
- ICSG expects a surplus of about 162,000 tonnes for 2024 compared to a surplus of about 467,000 tonnes forecast last October with the difference mainly due to lower than anticipated refined copper production. A surplus of about 94,000 tonnes is currently expected for 2025.

The next Meetings of the International Copper Study Group will be held in Lisbon in September 2024.

(Supply and Demand forecast table on next page)

World Refined Copper Usage and Supply Forecast

Thousand metric tonnes, copper

REGIONS (^{'000 t Cu})	COPPER MINE PRODUCTION			REFINED COPPER PRODUCTION			REFINED COPPER USAGE		
	2023	2024	2025	2023	2024	2025	2023	2024	2025
Africa	3,670	3,879	4,250	2,426	2,525	2,812	184	187	162
N.America	2,367	2,443	2,530	1,599	1,669	1,705	2,128	2,185	2,221
Latin America	8,857	8,917	9,632	2,514	2,654	2,788	381	394	405
Asean-10	1,063	1,118	1,102	454	671	1,190	1,151	1,237	1,366
Asia ex Asean/CIS	2,589	2,750	3,001	14,907	15,758	16,654	18,746	19,166	19,617
Asia-CIS	979	975	1,016	500	515	515	106	107	107
EU	752	759	785	2,467	2,450	2,538	2,985	2,960	3,016
Europe Others	1,241	1,397	1,568	1,234	1,306	1,401	866	882	898
Oceania	883	913	940	445	465	455			
TOTAL	22,401	23,150	24,825	26,547	28,012	30,057	26,549	27,118	27,793
World adjusted 1/ 2/	22,401	22,514	23,403	26,547	27,280	27,887	26,549	27,118	27,793
% change	2.2%	0.5%	3.9%	4.9%	2.8%	2.2%	2.8%	2.1%	2.5%
World Refined Balance (China apparant usage basis)							-3	162	94

1/ Based on a formula for the difference between the projected copper availability in concentrates and the projected use in primary electrolytic refined production.

2/ Allowance for supply disruptions based on average ICSG forecast deviations for previous 5 years.