

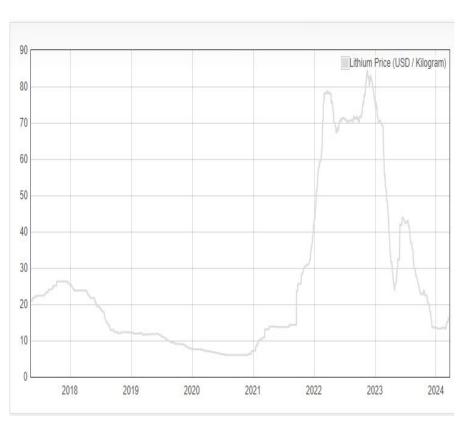


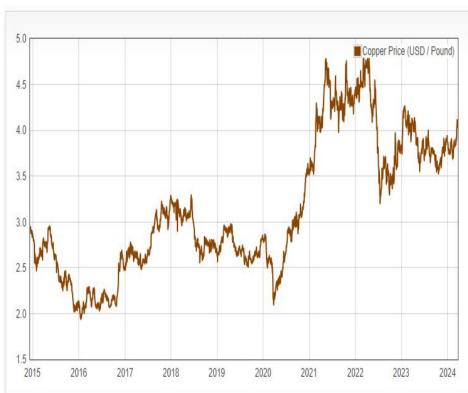
BOOM OR BUST: COPPER AND LITHIUM IN THE GREEN TECH ERA

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# **Price Recovery:**

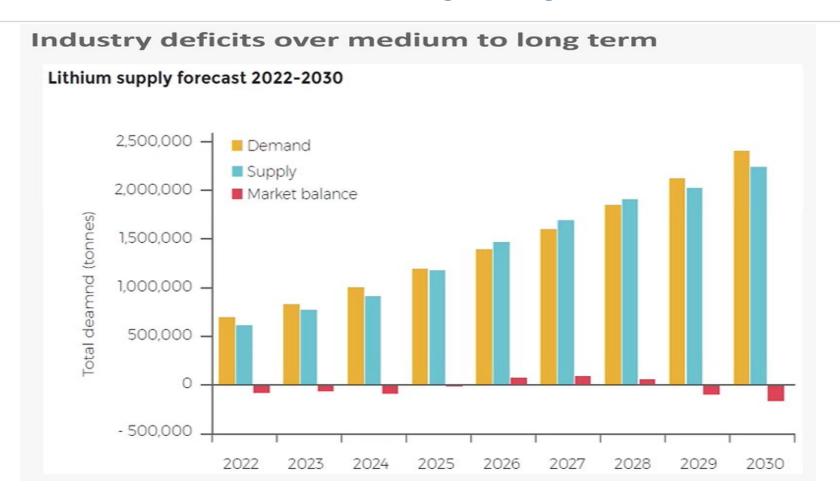




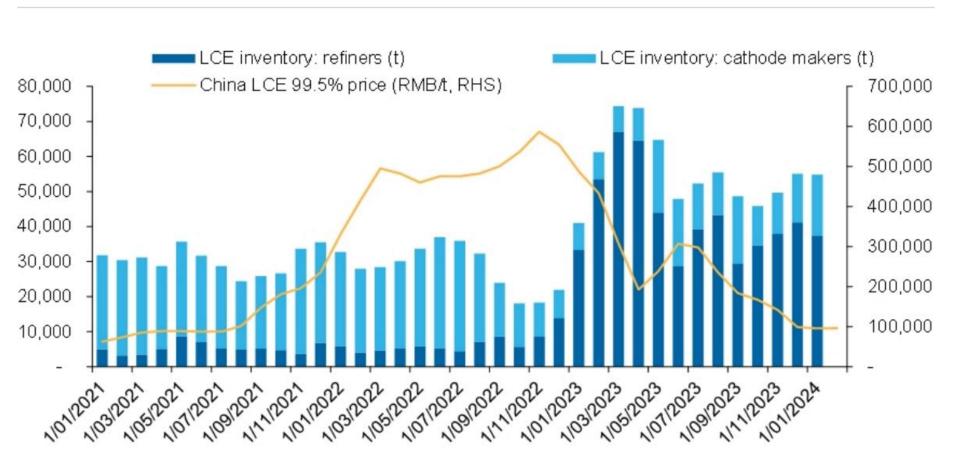
# Lithium: We need lots, there is lots

Property	Country/Re gion	Development Stage	Primary Reserves and Resources (t)
Uyuni Salt Flat	Bolivia	Construction Started	39,000,000
Cauchari-Olaroz	Argentina	<b>Construction Started</b>	9,938,000
Alberta	Canada	Prefeas/Scoping	9,878,000
Bonnie Claire	USA	Prefeas/Scoping	8,358,700
Lithium Nevada	USA	Feasibility Started	7,321,000
Manono	Dem. Rep. C	Feasibility Complete	6,640,000
Salar de Olaroz	Argentina	Expansion	6,600,000
Vulcan	Germany	Feasibility Started	6,415,046
Chaerhan Lake	China	Operating	5,600,000
McDermitt	USA	Prefeas/Scoping	5,373,000
Cuenca Centenario-Ra	Argentina	Feasibility Started	4,015,000
Greenbushes	Australia	Operating	3,716,327

## **Lithium: Small changes = big effects**



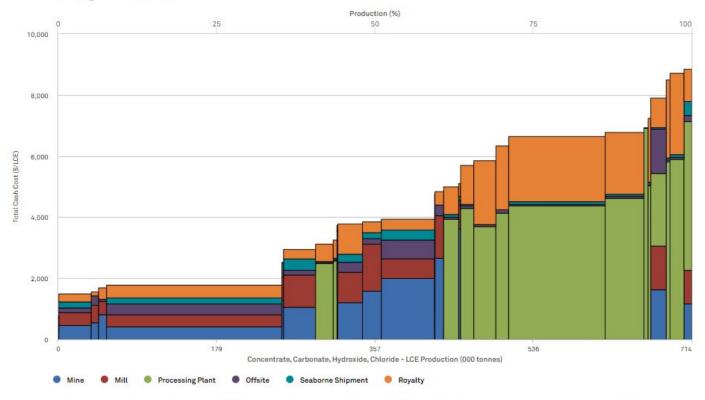
## Lithium: Inventories are mostly for traders



#### Lithium: the hardrock vs brine investment decision

#### 2022 Lithium Production Ranked on Total Cash Cost\*

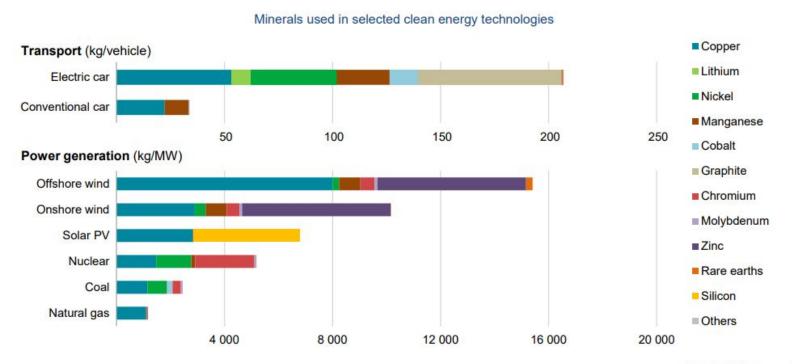
Scenario: Market Intelligence 2021 Constant USD



<sup>\*</sup>Figures pre-2022 are based on reported/actual data where available. Figures from 2022 and later are based on S&P Global Market Intelligence's estimates and forecasts. For Market Intelligence's Constant scenario, all forecasts for prices are in constant 2021 US dollars (e.g. wage rates, electricity prices, reagent or fuel costs and metal prices).

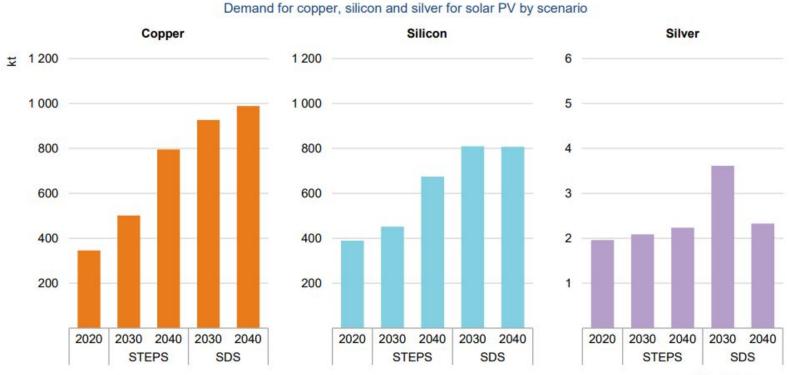
### Copper: Here is the grain of truth

The rapid deployment of clean energy technologies as part of energy transitions implies a significant increase in demand for minerals



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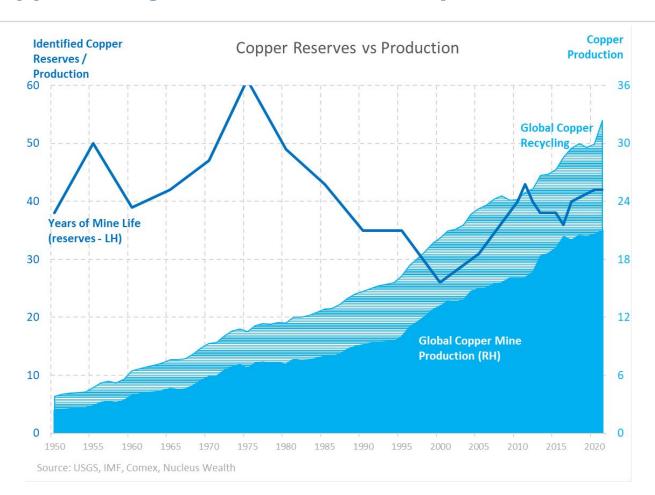
### Copper: Lots of growth in green demand



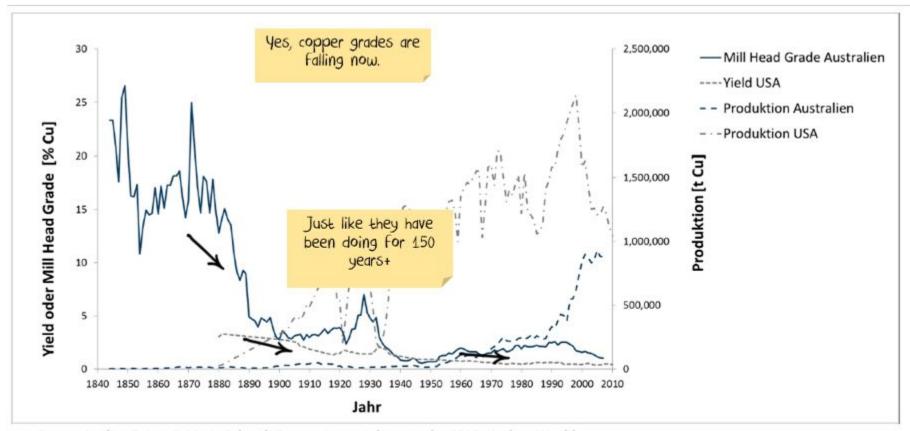
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Note: kt = thousand tonnes.

## Copper: But green demand is a drop in the bucket



## Copper: Grades are bad. Like they have always been



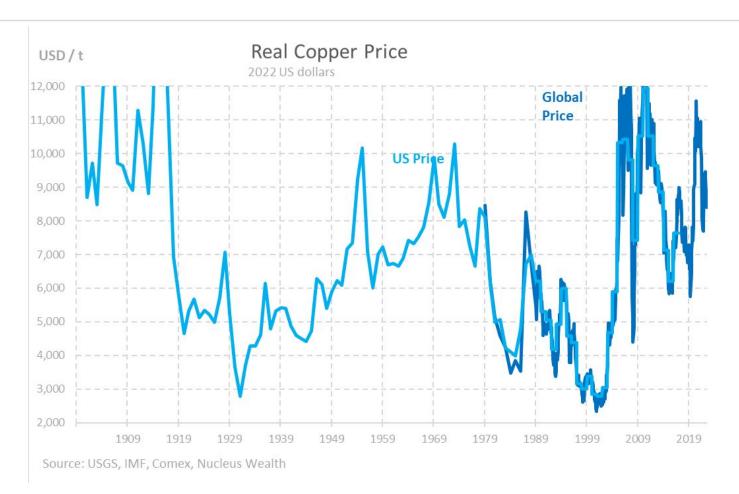
Source: Nadine Rotzer & Mario Schmidt Decreasing metal ore grades 2018, Nucleus Wealth

## Copper: Lots of growth in green demand

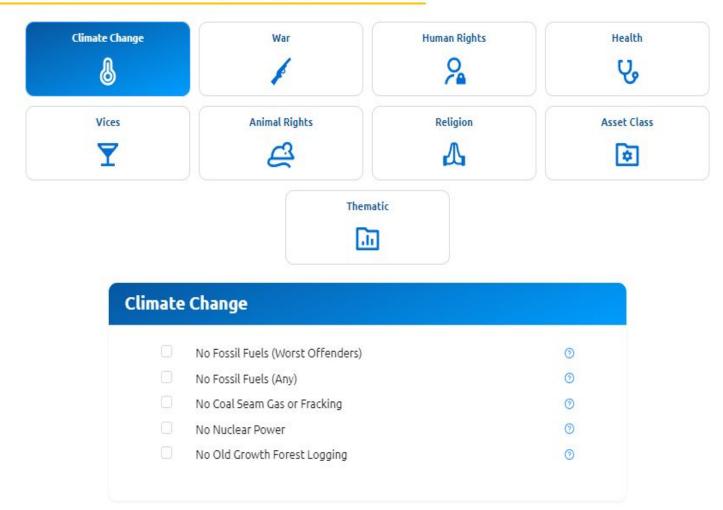
China Residential Floorspace (millions of sqm, rolling 12 months)



## Copper



#### Choose themes to screen from your portfolio away from (i.e. remove stocks)



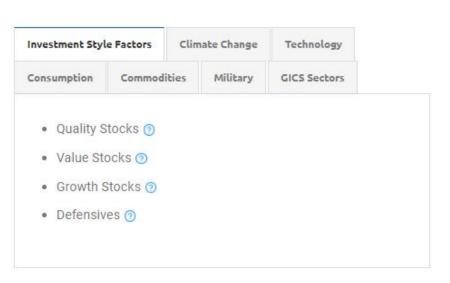
#### Personalise Your Portfolio

Screens Tilts

You can <u>exclude</u> the below to customise your portfolio

You can <u>add</u> the below to customise your portfolio

Climate Change	War	Human Rights	Health	Vices
Animal Rights	Religion	Asset Class	Thematic	
	Ž.	rst Offenders) (		
No Fossil F		or Fracking ①		
<ul> <li>No Coal Se</li> </ul>				
No Coal Se     No Nuclear	r Power 👩	)		





Account Selection

Investment Choice

**Build Your Portfolio** 

Ethical Overlay

Review
Applicants
Bank Details
Compliance
Final Review

Risk Profile

#### **Build Your Portfolio**

#### Need help with this page? D Video Tutorial

Value Stocks ②	Growth Stocks ⑦	
Gold Stocks ①	Agribusiness ⑦	
Cloud Computing Stocks ③	Robotics/AI ③	
Cybersecurity ①	Clean Energy ⑦	
Battery Supply Chain ①	Nuclear Power ③	
Travel ⑦	Luxury Goods ①	
Global Communication Services ②	Global Consumer Discretionary ⑦	
Global Energy ⑦	Global Financials ①	
Global Industrials ⑦	Global Information Technology ③	
	Gold Stocks ③  Cloud Computing Stocks ③  Cybersecurity ③  Battery Supply Chain ③  Travel ③  Global Communication Services ③	

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