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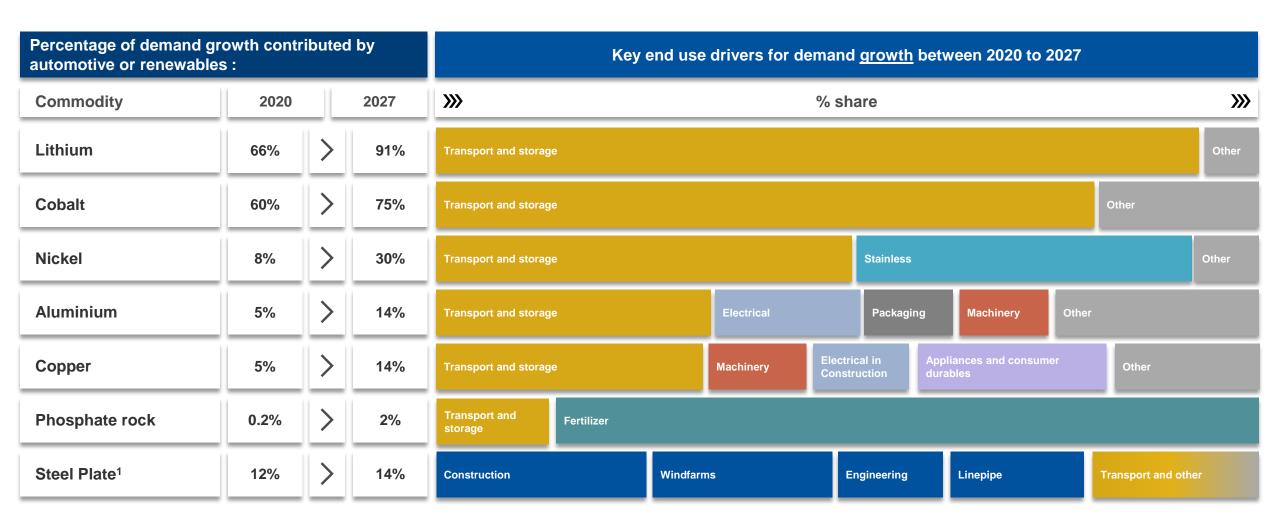






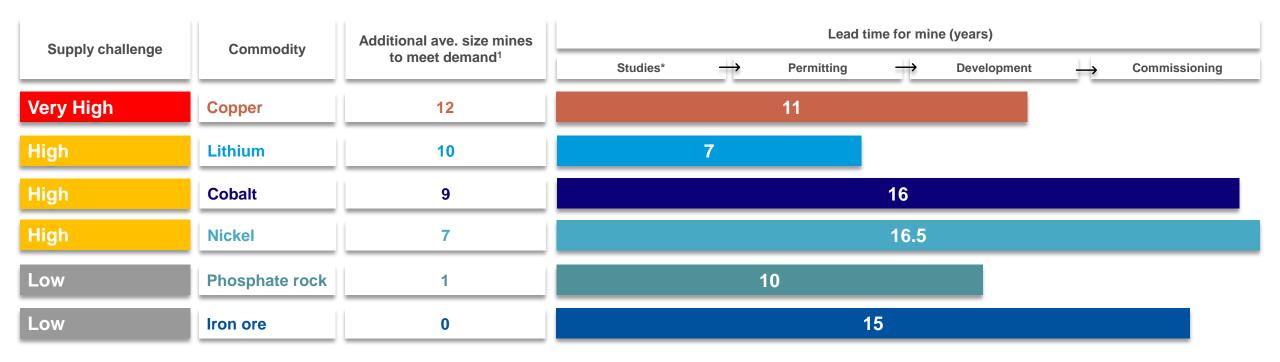


Decarbonization represents the dominant driver for growth across the medium term but the extent to which this impacts the overall share of demand attributable to decarbonization varies





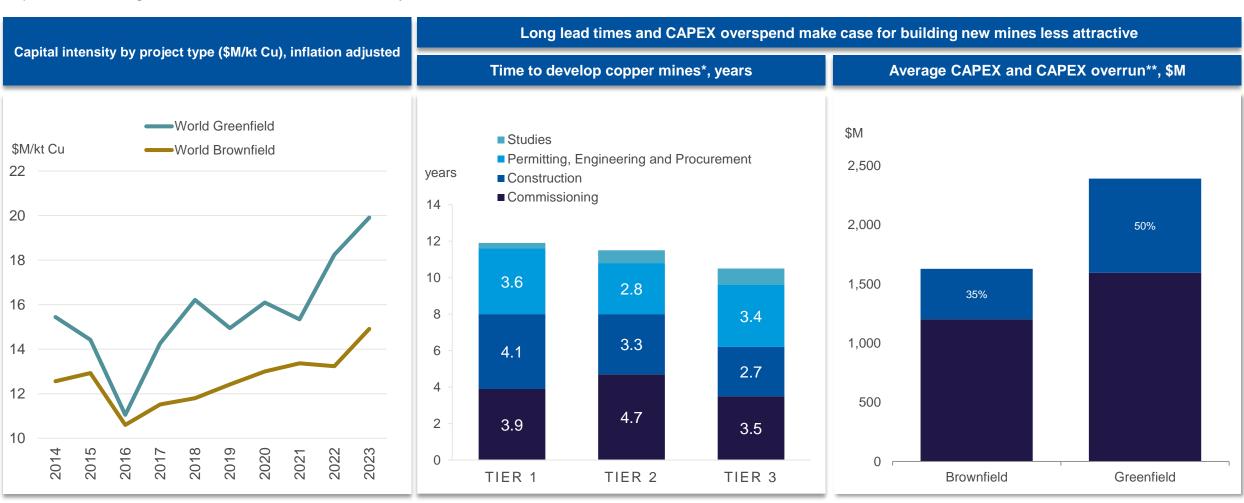
Long lead times make case for building new mines less attractive. Quicker permitting will make a big difference to supply availability





Capital intensity soars, while long lead times and overspend make case for building new mines less attractive

Capex inflation for greenfields has increased dramatically in the last 24 months

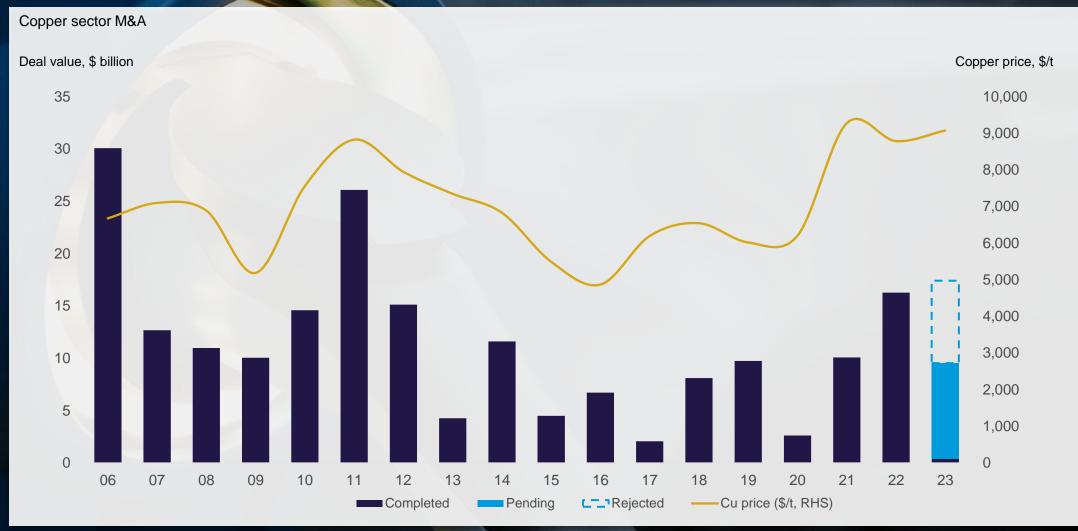


DATA: CRU

DATA: CRU. Note: * Based on the copper mines that went into production since 2010. Sections represent average duration of studies, permitting / engineering / procurement, construction and commissioning respectively ** Average CAPEX based on the analysis of a 107 base metals and gold mining investments.



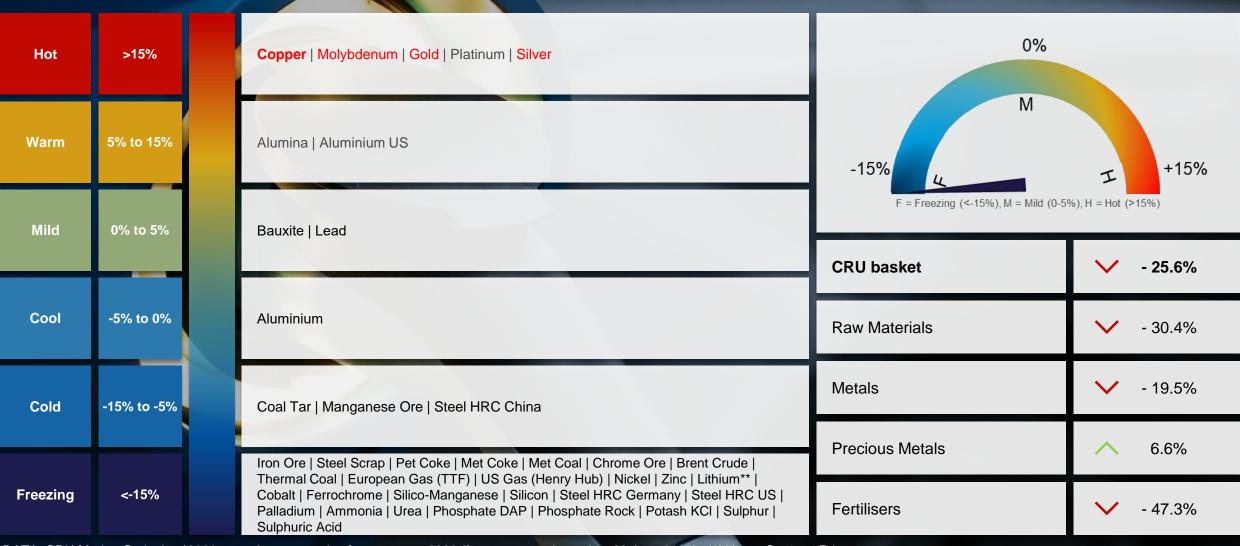
Green energy transition is driving deals flow



DATA: CRU - Updated June 2023



CRU basket of 40 metal, raw material and fertilizer price forecasts | 2026 over 2022*

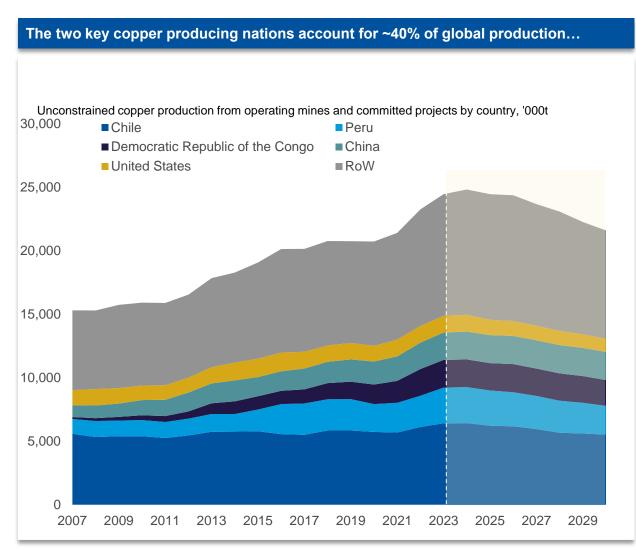


DATA: CRU Market Outlooks *2026 annual average price forecast over 2022 (forecasts as released as 29 June 2023). **Lithium Contract Price.





Chile and Peru to remain as the largest copper hubs in the world



... however, Peru could lose its position as the second largest producer before 2030 Unconstrained copper production from operating mines and projects, '000t ■ DRC Project Peru □ Peru Projects DRC Operating mines Operating mines 4,000 3,500 3,000 2,500 2,000 1,500 1,000 500 2022 2025 2030 2035

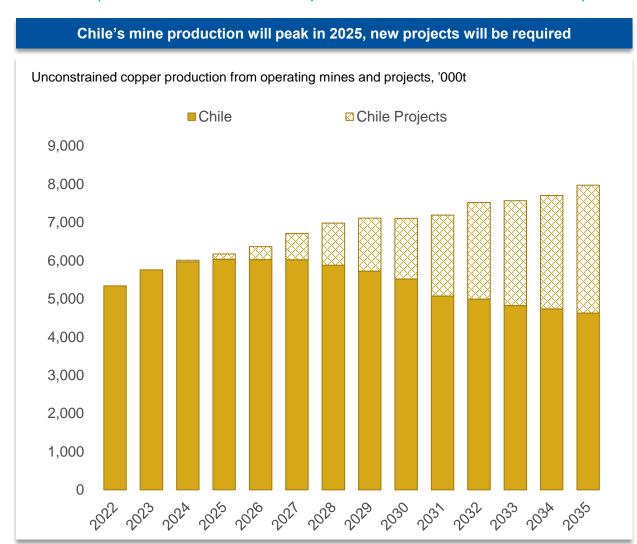
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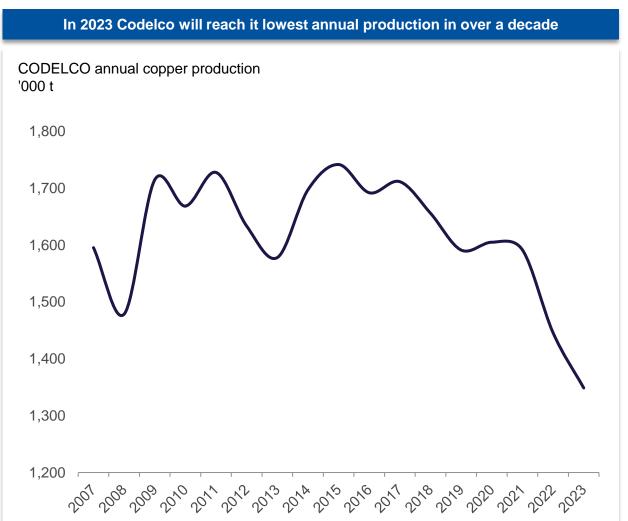
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Chile will likely maintain its position as the world largest copper producer, but new projects are needed to secure it

Committed production can however be impacted if Codelco does not recover its production levels



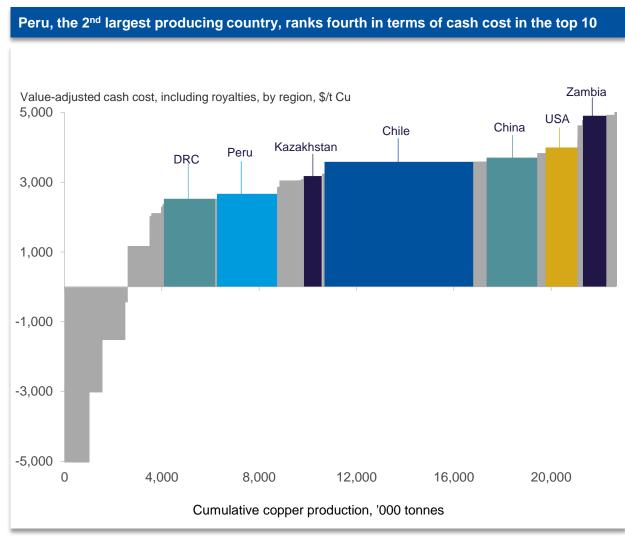


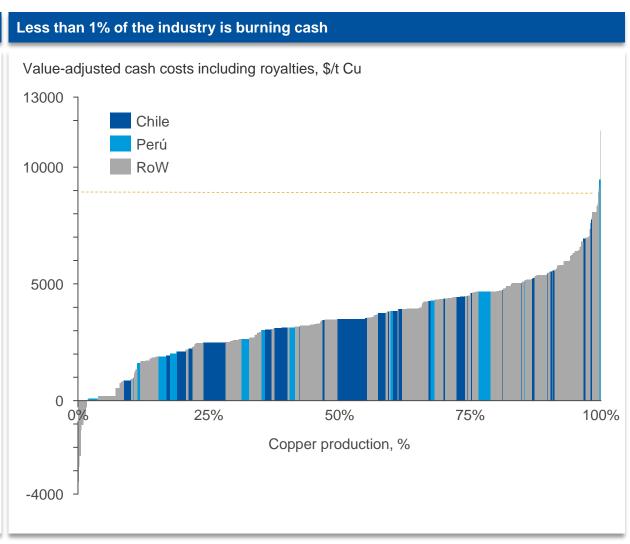
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DATA: CRU



Medium and large producers from Chile and Peru are seeing positive margins at current price

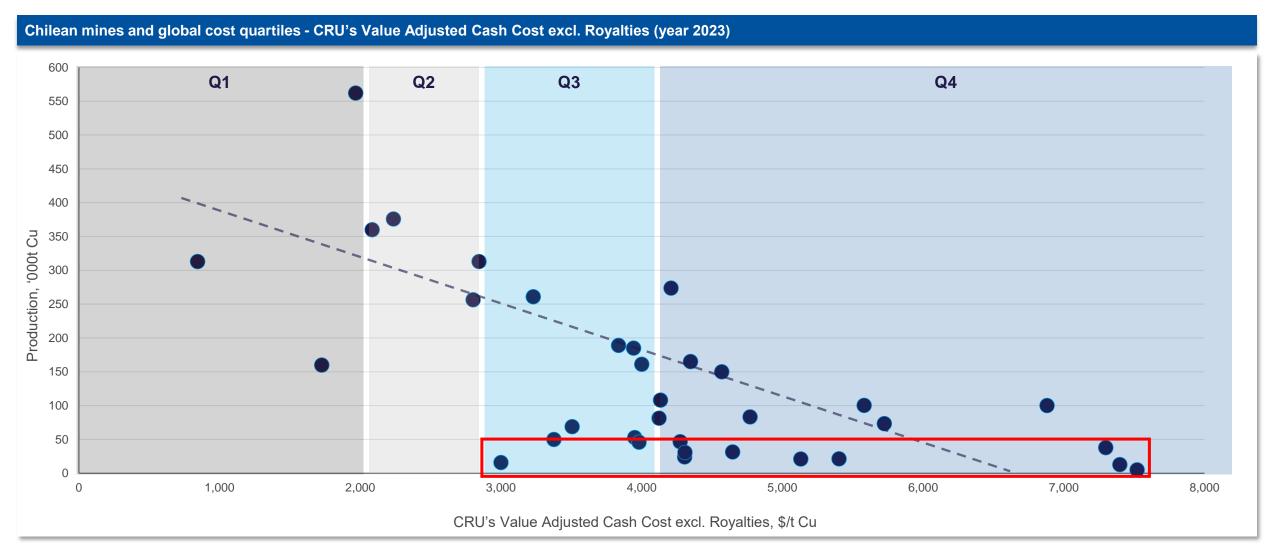




DATA: CRU Copper Costs Tool 2023 DATA: CRU Copper Costs Tool 2023 13



Most medium size producers in Chile are in the 4th quartile of the industry



DATA: CRU Copper Costs Tool 2023



Producing copper is becoming more difficult

More than ever, copper miners face challenges to increase production



Geology

Lower grades, deeper deposits, harder ore, smaller discoveries, complex metallurgy



Development time and technical complexity

Complex environmental permits, lengthier engineering stages



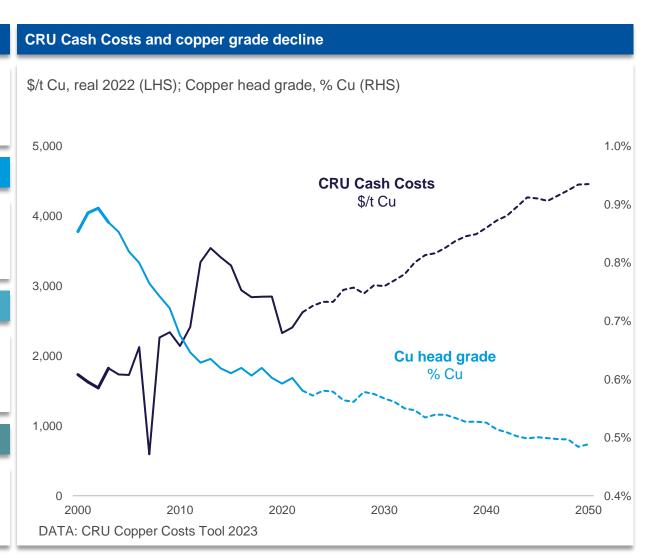
ESG

Communities, water, land, emissions, taxation, social scrutiny



Growth

Organic growth vs M&A, access to financing, CAPEX overrun risks, project investment vs shareholder returns





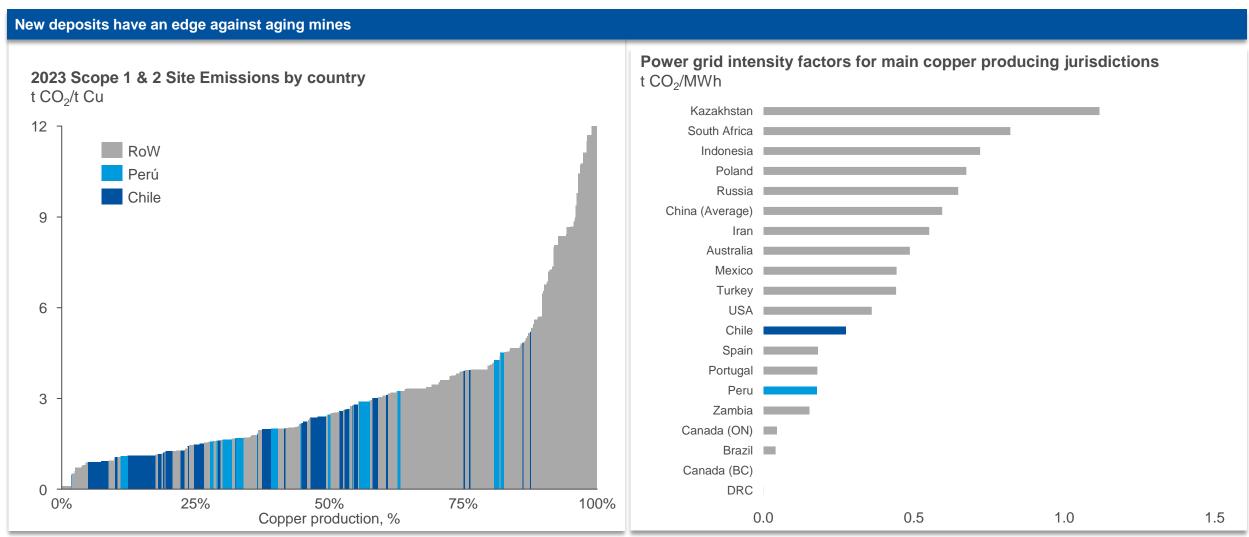
Why measure emissions?

Establishing a logical, standard methodology is a vital pre-modelling step

	Scope 1	Scope 2	Scope 3	
Scope	 Diesel Other fuels used in mining and processing plant Fuels used in smelter if integrated Self-generated electricity 	 Electricity purchased to mining si Country average Contracts Electricity purchased for smelting refinery if integrated 	- Acid - Grinding media	
Boundaries	Mining, processing, site general and administration.	Transportation of intermediate prod	ducts Downstream processing of intermediate products	
Intensity	Metal basis (t CO2/t meta	1)	Metal equivalent basis (t CO2/t metal equiv.)	



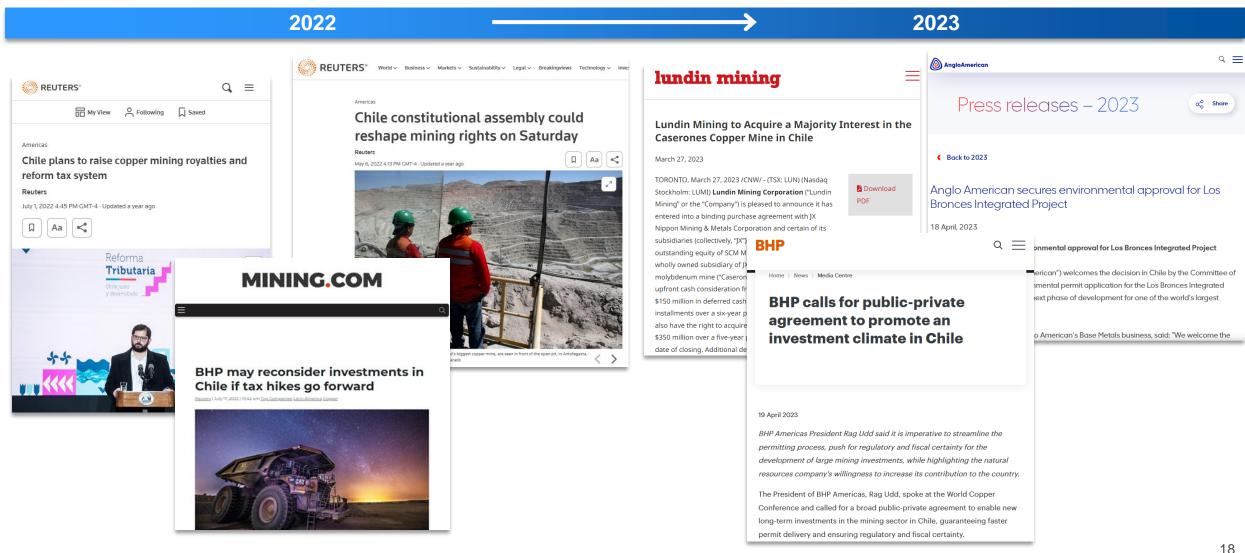
Peru and Chile have relatively low emissions in scopes 1 and 2, mainly due to hydropower and LNG as a source of energy



DATA: CRU Copper Costs & Emissions Analysis Tool 2023

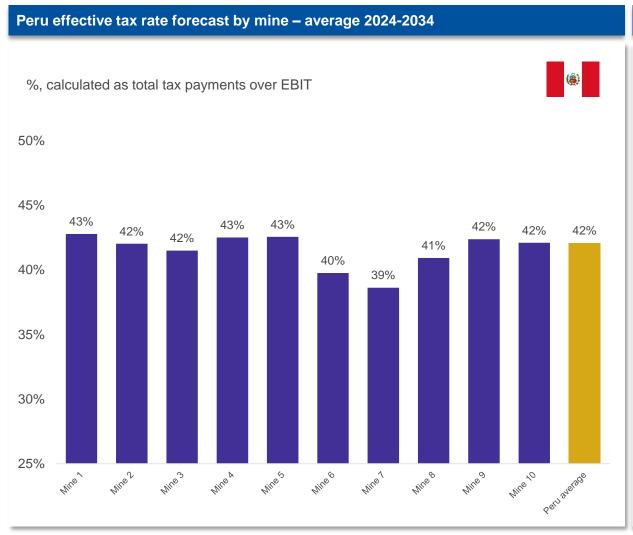


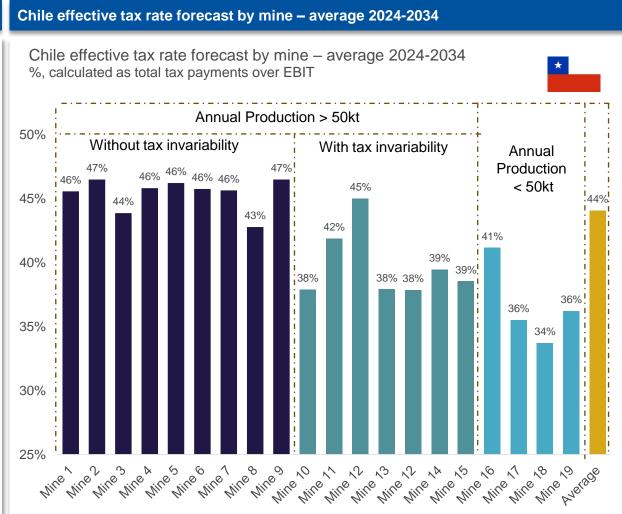
Moving away from high uncertainty driven by the constitutional process and new royalty





New Chilean royalty law will put Chile 2% ahead of Peru in terms of effective tax rate







Approval time has more than double in less than 10 years

Chile has not yet addressed a major issue impacting investing decisions

