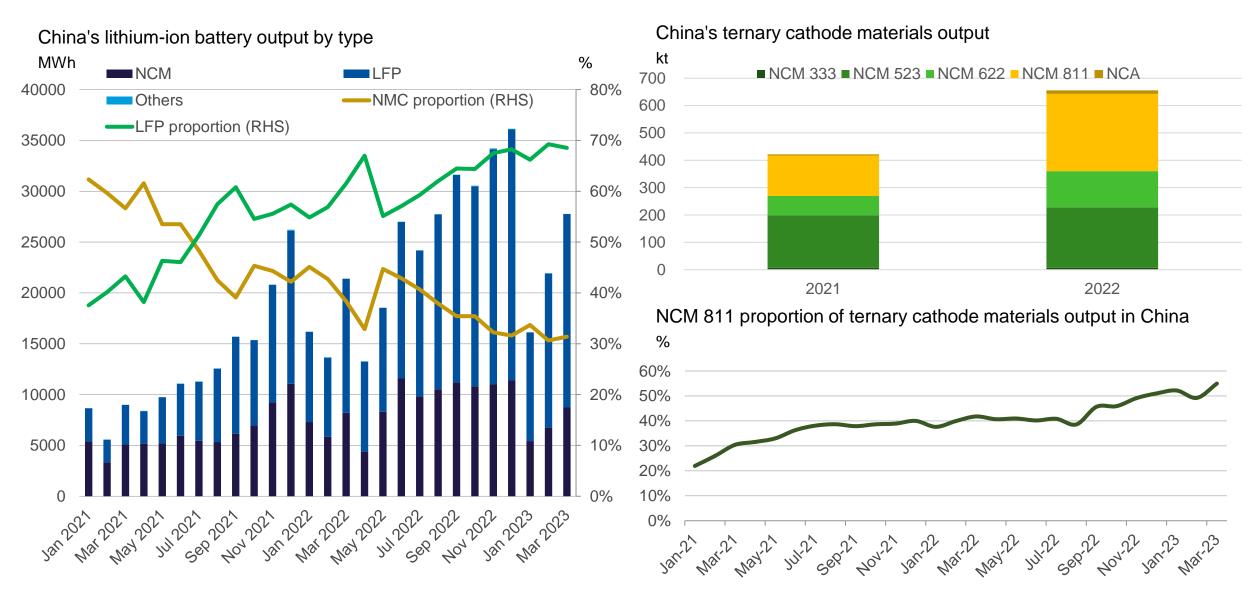


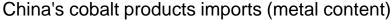
# LFP and high nickel content battery are gaining more market share in China, which has affected cobalt demand

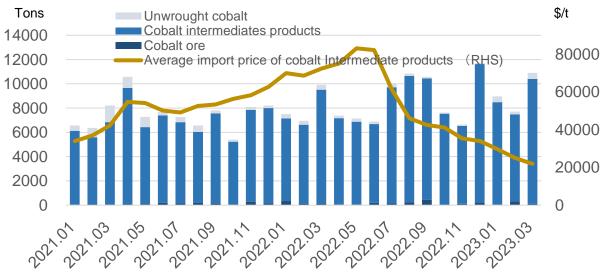




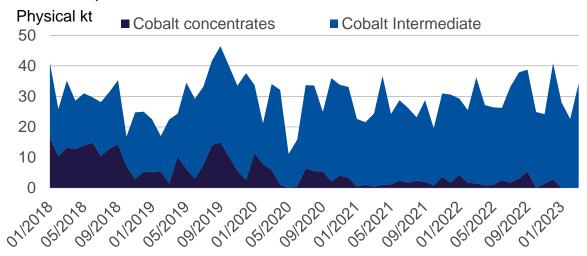
# Cobalt sulfate has its own market situation rather than in line with refined cobalt due to the booming EVs industry



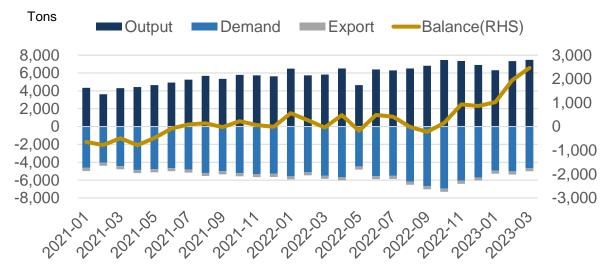




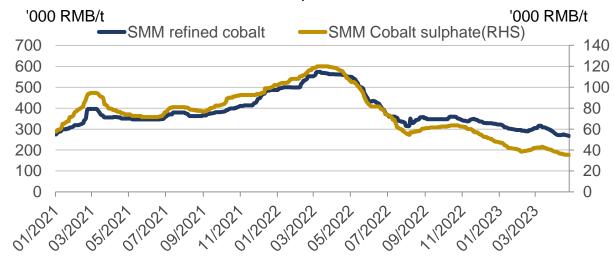
### Cobalt imports from DRC



#### Cobalt sulfate market balance in China

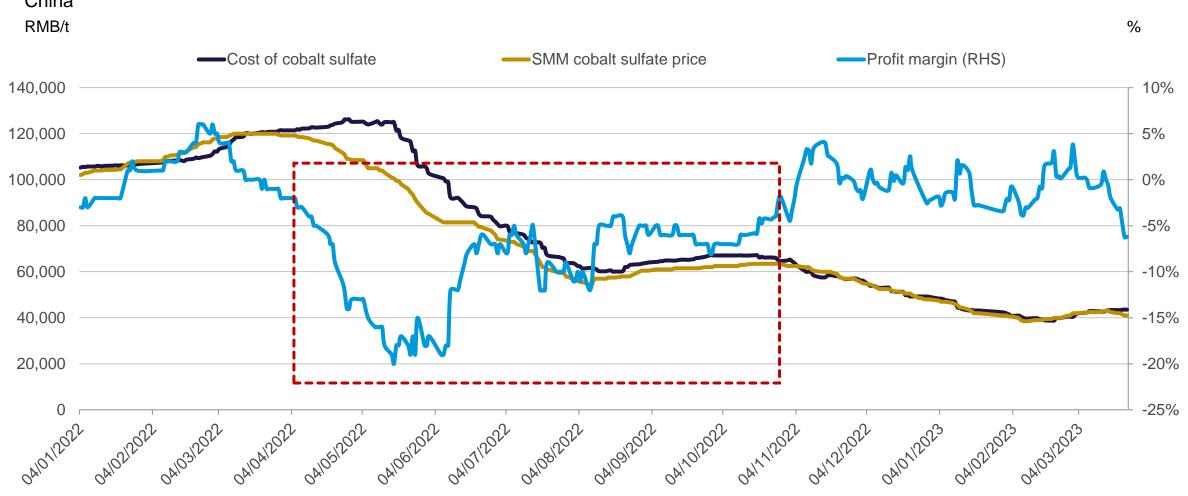


### Refined cobalt and cobalt sulfate prices in China



# Price gap between raw materials and products for CoSO4 producers in 20022 led to huge loss, reasonable pricing mechanism is required 上海有色网

Profit margin of cobalt sulfate producers who buy raw materials based on refined cobalt prices and sell cobalt sulfate at SMM prices in China



## Innovation in the pricing mechanism of cobalt intermediate raw materials



### Cobalt intermediate raw material price settlement mechanism and related parameters

Cobalt intermediate



### **BEFORE**

Refined Cobalt \*Payable\* Cobalt content \* yield



### **NOW**

(SMM Cobalt sulfate / 0.205 - Processing fees ) / exchange rate / 1.13 \* yield \* Cobalt content

МНР



Refined Cobalt \*payable1\* Cobalt content\* yield +LME Nickel\* payable2\* nickel content\*yield



(SMM Cobalt sulfate / 0.205 - Processing fees1) / exchange rate / 1.13\* yield \* Cobalt content + (SMM Nickel sulfate / 0.22 - Processing fees2) / exchange rate / 1.13 \* yield \* Nickel

content





(Refined Nickel price\* Nickel content + Refined Cobalt\* Cobalt content ) \*payable



SMM Cobalt sulfate / 0.205 \* payable1 + SMM Nickel sulfate / taste \* payable2+SMM Battery lithium carbonate /0.188\* Lithium content \* payable3



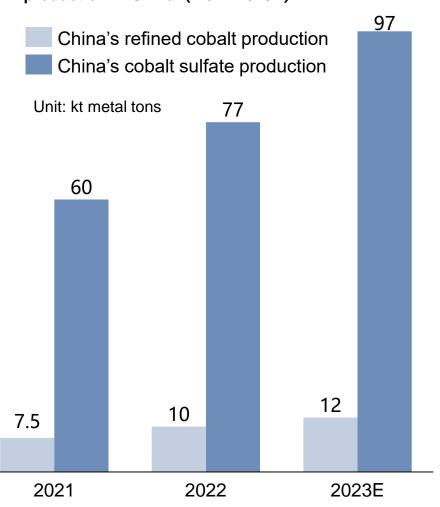


Base on SMM Cobalt Sulfate prices

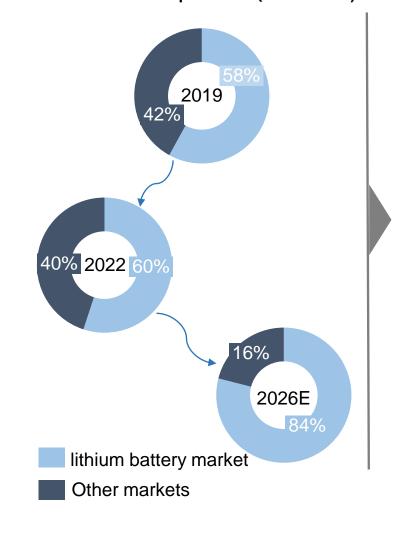
# The advantages of pricing mechanism based on cobalt sulfate price ——more practical and effective



Comparison of refined cobalt and cobalt sulfate production in China (2021-2023E)



Changes in the proportion of downstream market of cobalt intermediate products (2019-2026E)



- ➤ It is irrational to determine the price of cobalt sulfate, which accounts for a larger market share, by the price of refined cobalt, which has a smaller market share.
- From the perspective of raw material flow and production cost composition, pricing cobalt intermediate products at the price of cobalt sulfate can reasonably reflect the cobalt market.



### Thanks

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