

# ACCELERATING THE ENERGY TRANSITION

Equity Capital Market Presentation | May 2022



AMG ADVANCED METALLURGICAL GROUP N.V.



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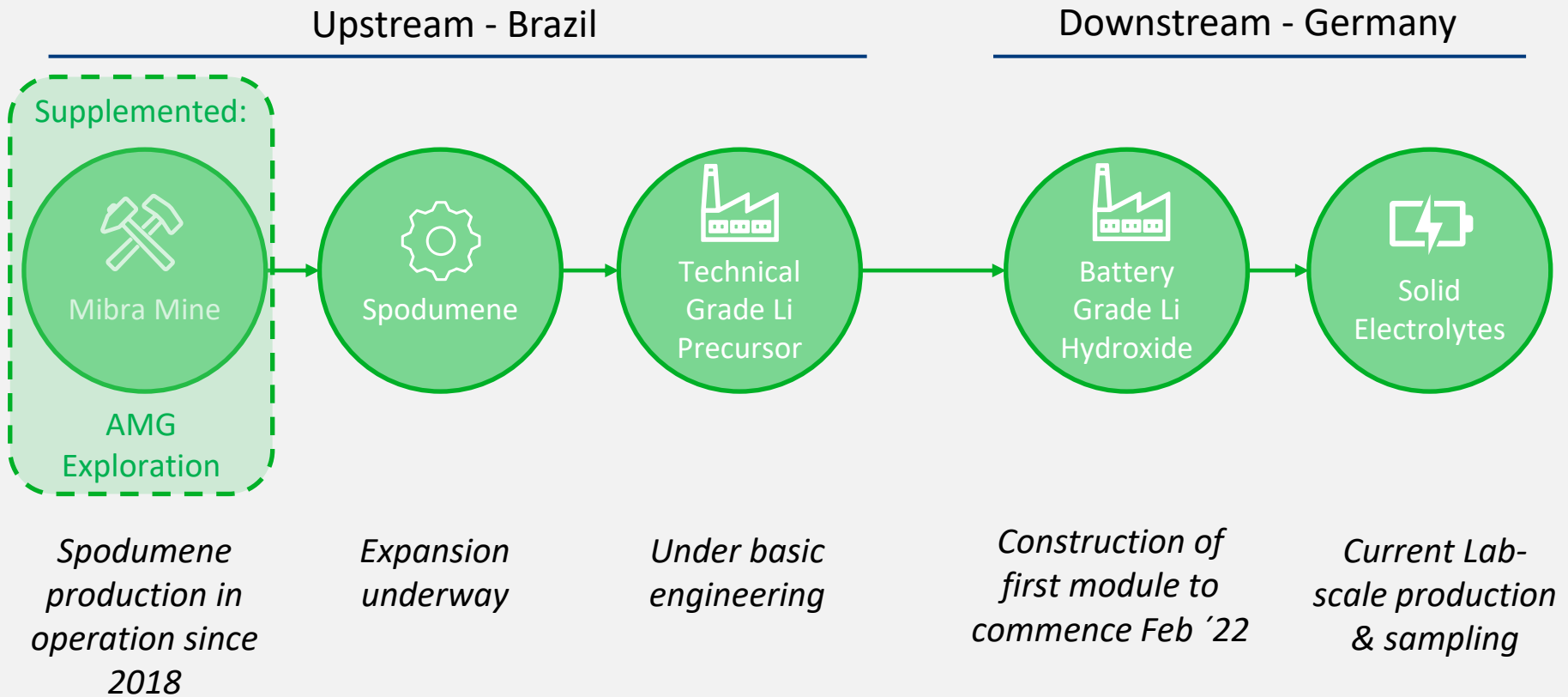
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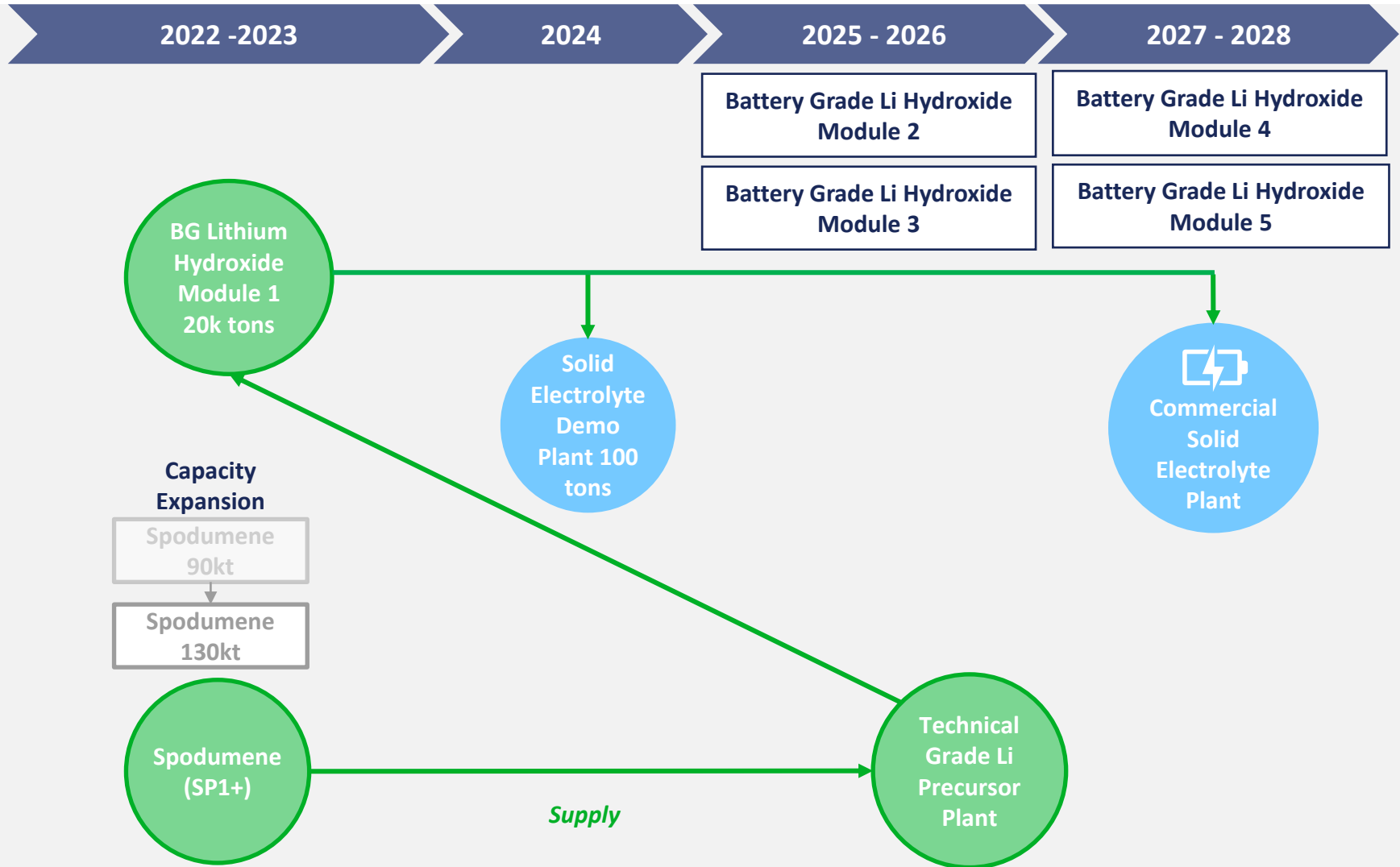
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# AMG'S LITHIUM VALUE CHAIN

## *From mining through to next generation lithium products*



# MODULAR EXPANSION PLANS TO MEET GROWING DEMAND

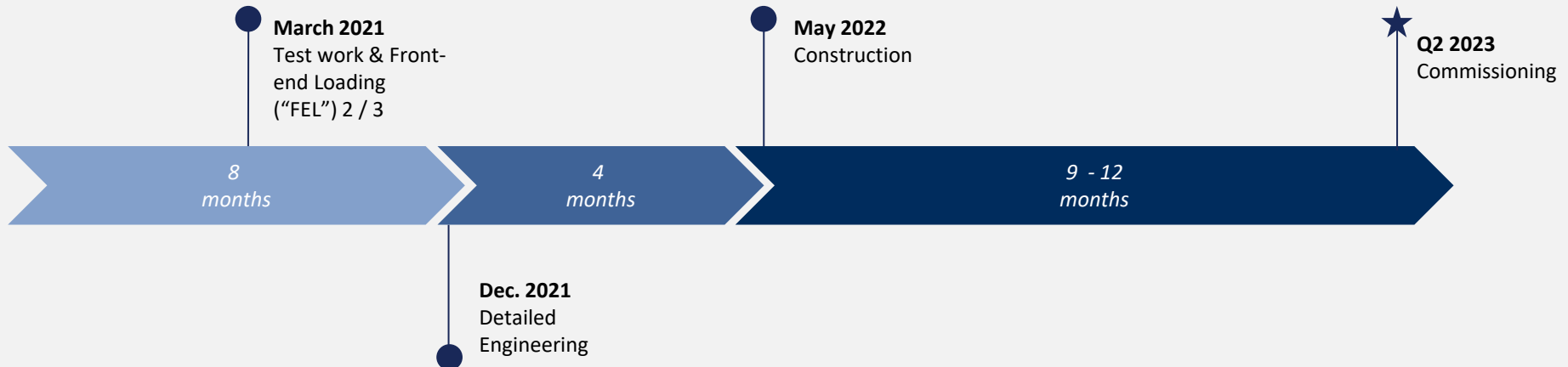


# LITHIUM CONCENTRATE EXPANSION OVERVIEW (SPODUMENE 1+)

## Spodumene Plant Expansion

- Capacity increase from 90 ktpa to 130 ktpa
- Absence of technical risk
- Expected operational improvements

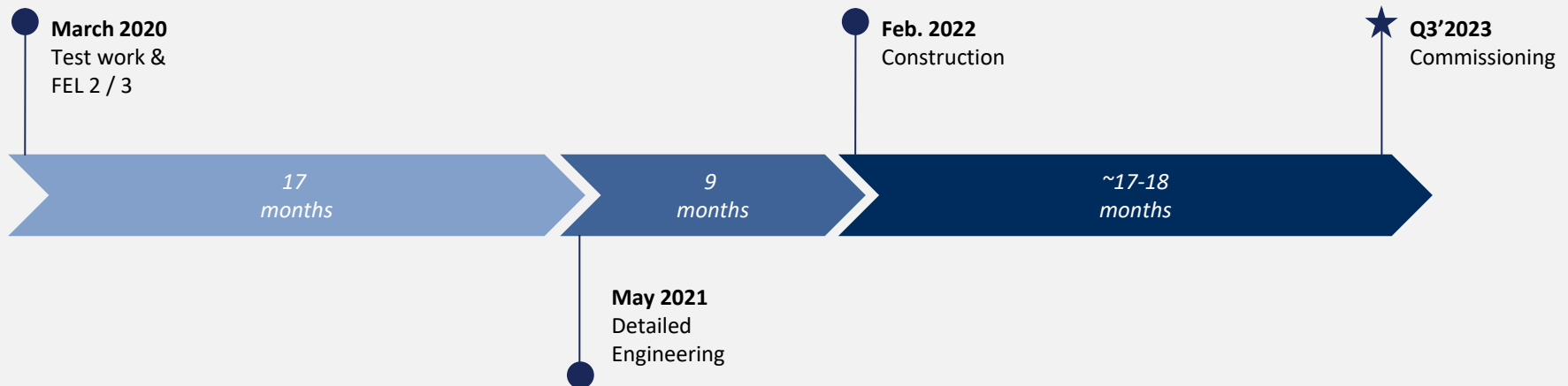
## Execution Timeline



# OVERVIEW OF LITHIUM UPGRADING FACILITY IN GERMANY

- Production of highly-refined, battery-grade Lithium hydroxide
- Located in Bitterfeld/Germany in an industrial chemical park
- Module 1 with 20,000 MT capacity, further modules up to 100,000 MT
- Expected capex of \$120 million for module 1, \$75 million per modules 2-5

## Execution Timeline



# AMG SPODUMENE CONTRACT PRICE IS DIRECTLY TIED TO SPOT PRICE FOR LITHIUM CARBONATE AND HYDROXIDE

## AMG Spodumene Contract Components

**Component  
I**

Average Index Spot Price<sup>1</sup>:  
*(Lithium Carbonate + Lithium Hydroxide) / 2*

**Component  
II**

Total Cost =  
*Minimum Spodumene Price + Conversion Cost*

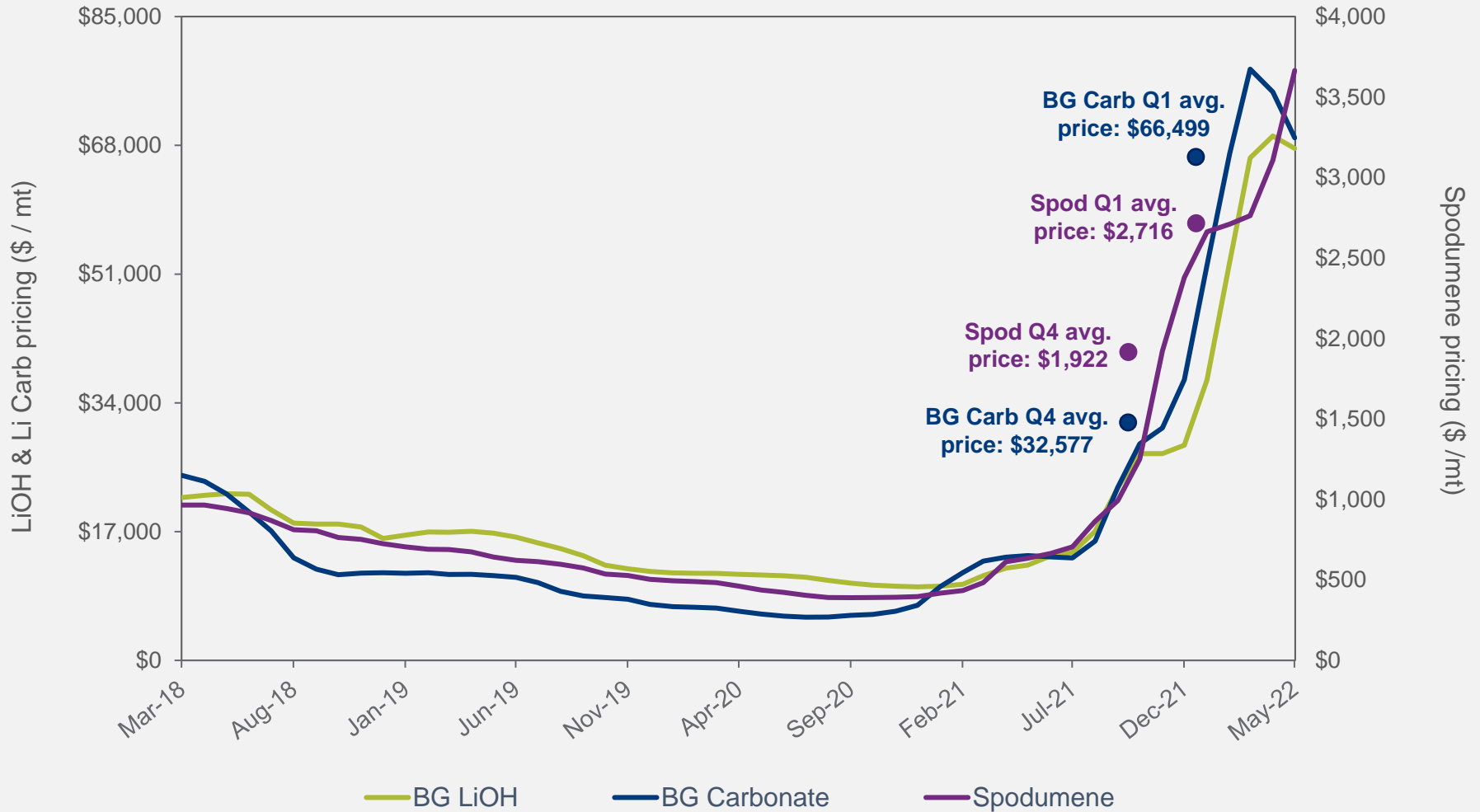
**AMG  
Spodumene Price**

*(I – II) % + Minimum Price*

<sup>1</sup> Asian Metal Market spot price

# LITHIUM CARBONATE & HYDROXIDE PRICING

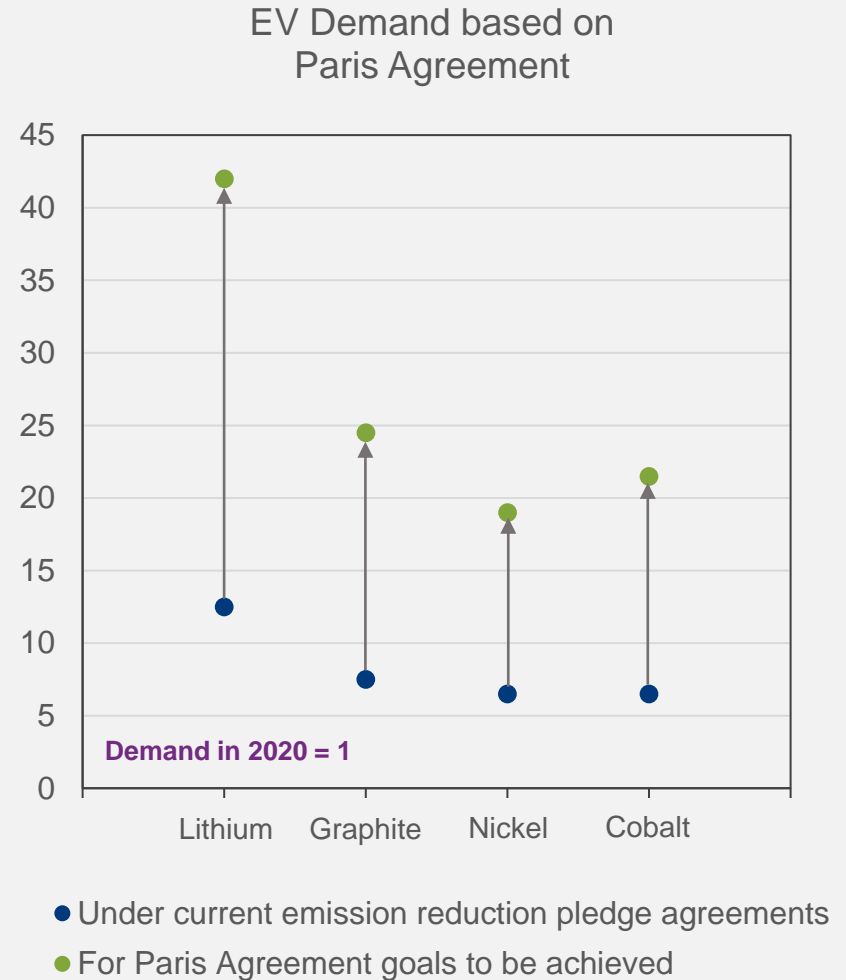
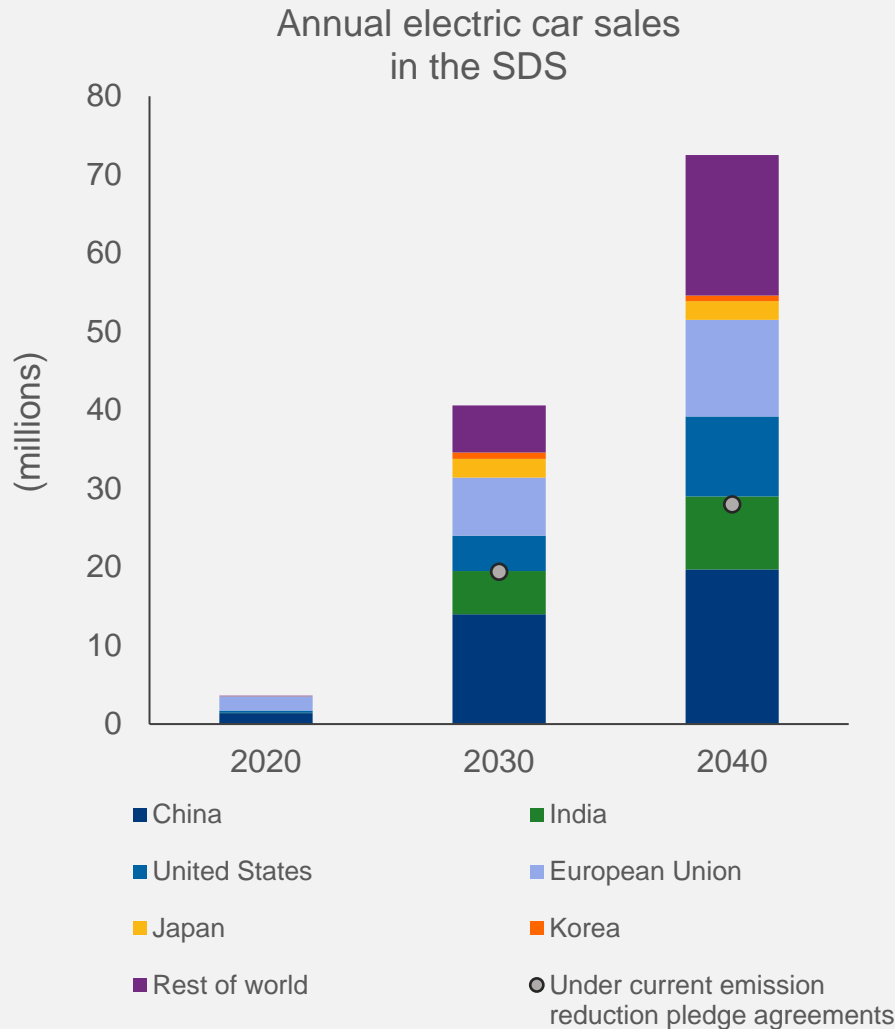
## ASIAN METAL



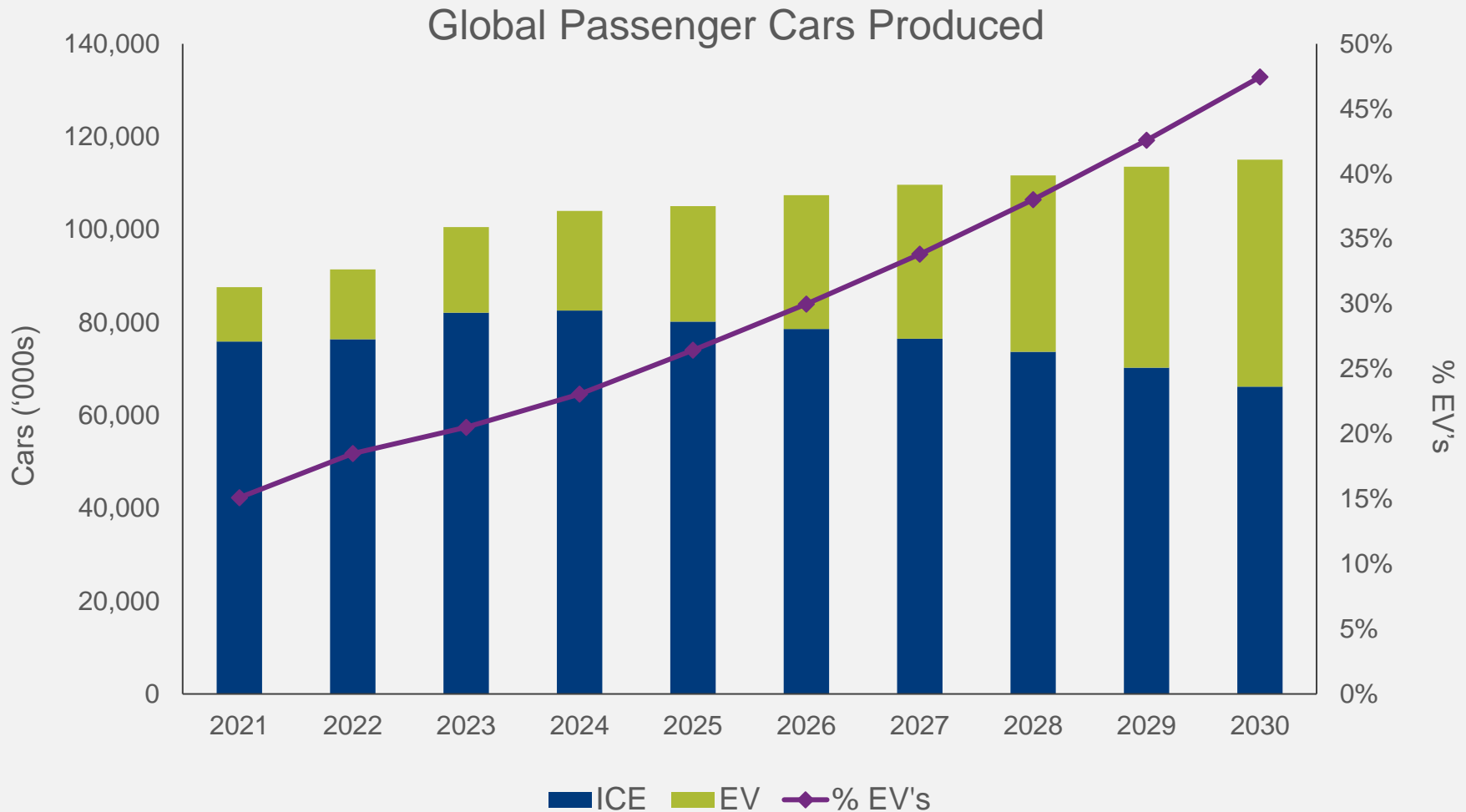
Sources: Asian Metal's Lithium Hydroxide Monohydrate LiOH 56.5%min, Magnets 0.0001%max Delivered South Korea \$/kg, and Asian Metal's Lithium Carbonate 99.5%min China RMB/mt.  
 Prices are shown as monthly averages taken over the period March 1, 2018 through May 9, 2022, converted to \$/MT.



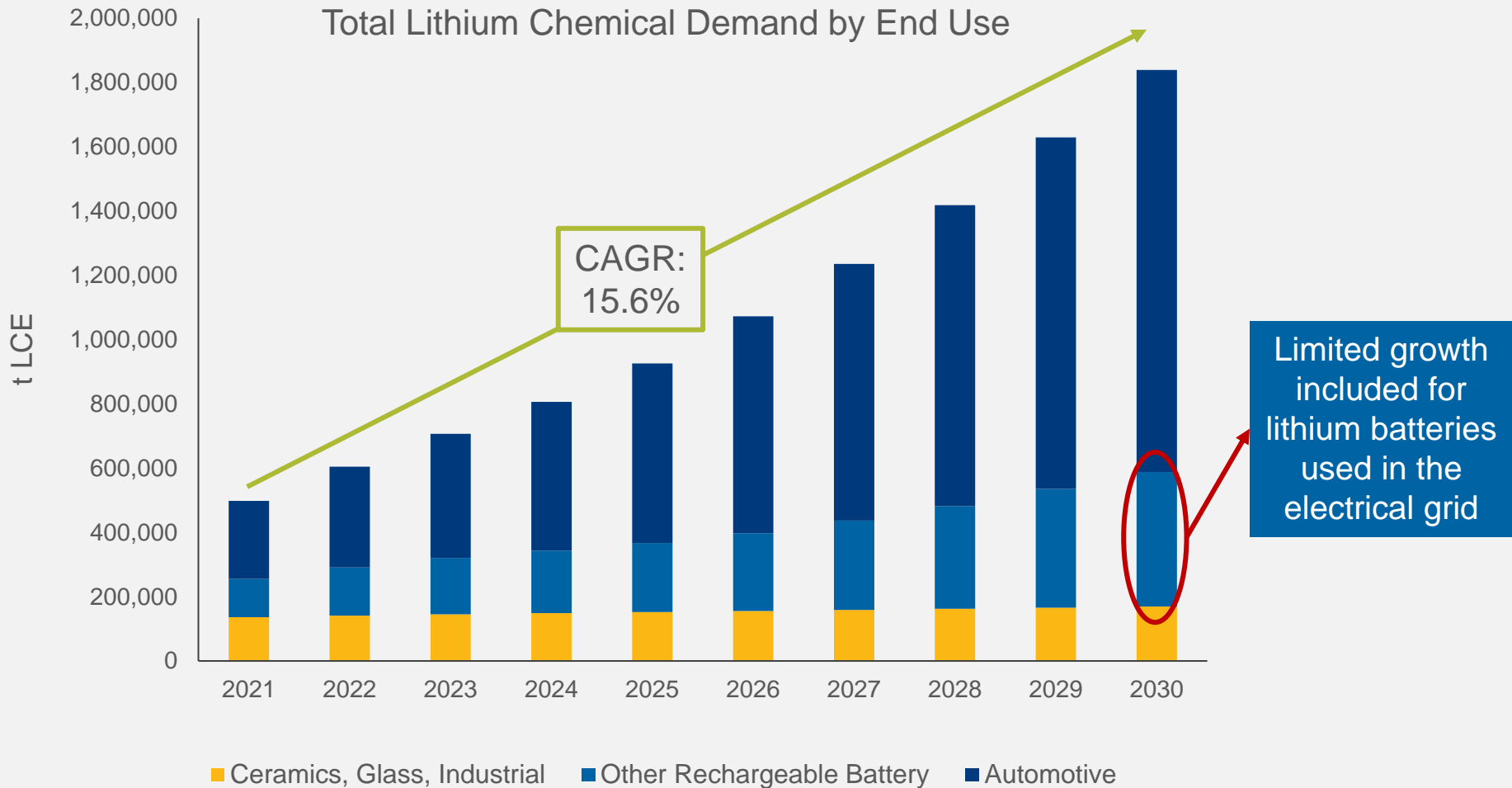
# THE IEA ESTIMATES ELECTRIC VEHICLE DEMAND WILL REQUIRE 12 – 40X MORE LITHIUM BY 2040



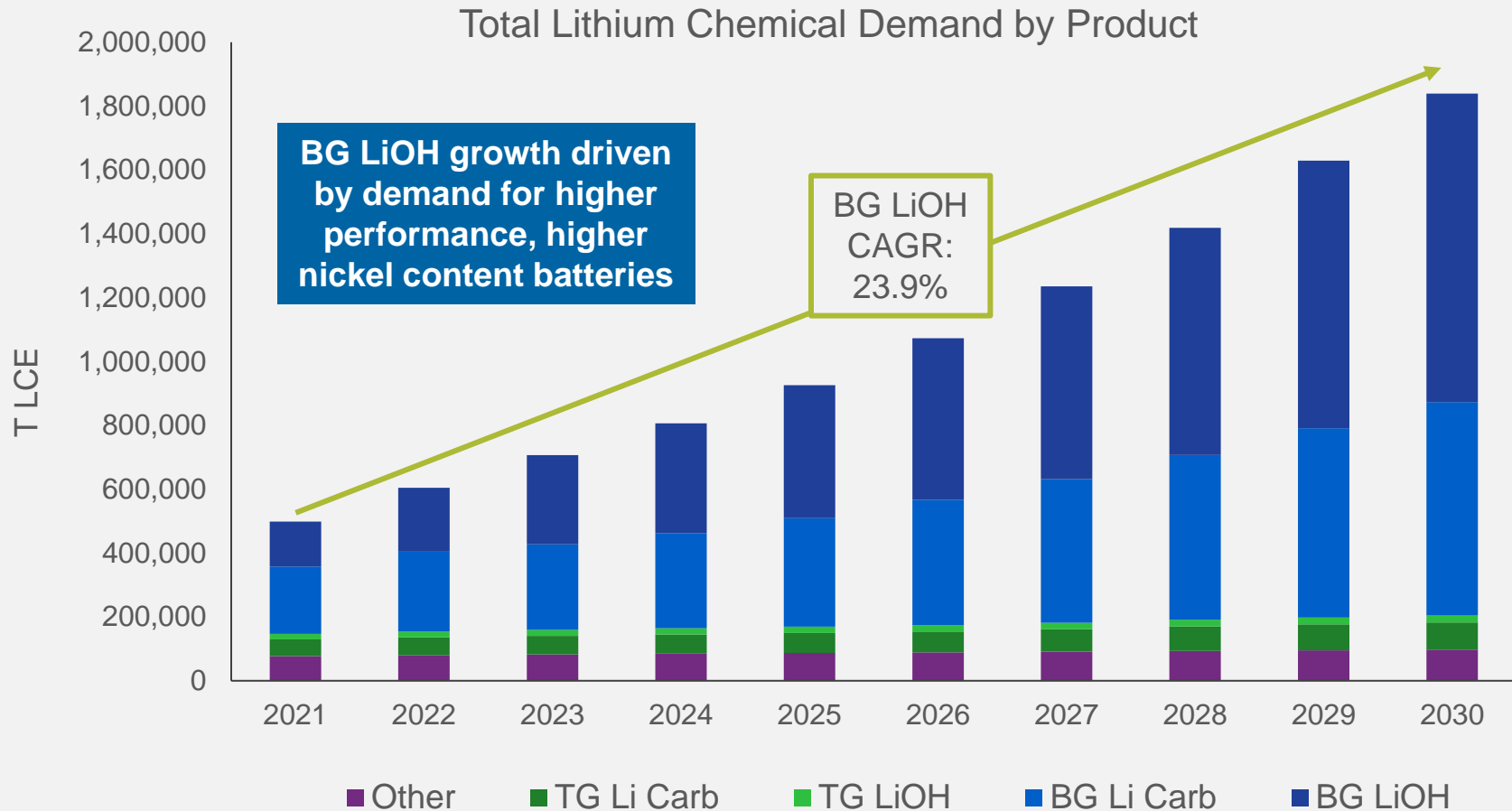
# ANNOUNCED OEM PRODUCTION TARGETS SHOW 17% ELECTRIC VEHICLE GROWTH THROUGH 2030



# LITHIUM CHEMICAL DEMAND IS EXPECTED TO TRIPLE BY 2030, DRIVEN BY ELECTRICAL VEHICLE DEMAND

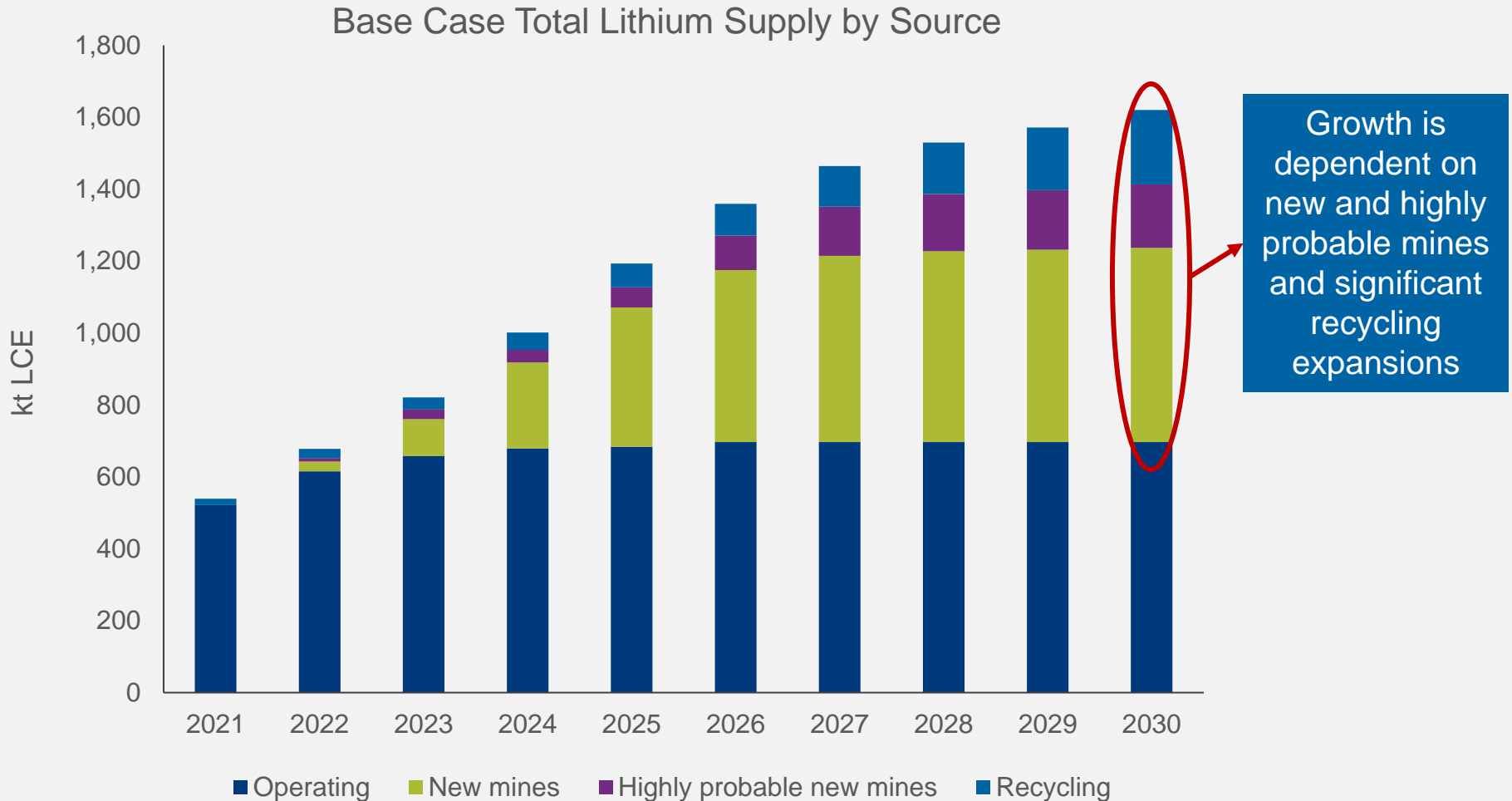


# BATTERY GRADE LITHIUM HYDROXIDE (LIOH) IS THE FASTEST GROWING LITHIUM CHEMICAL PRODUCT

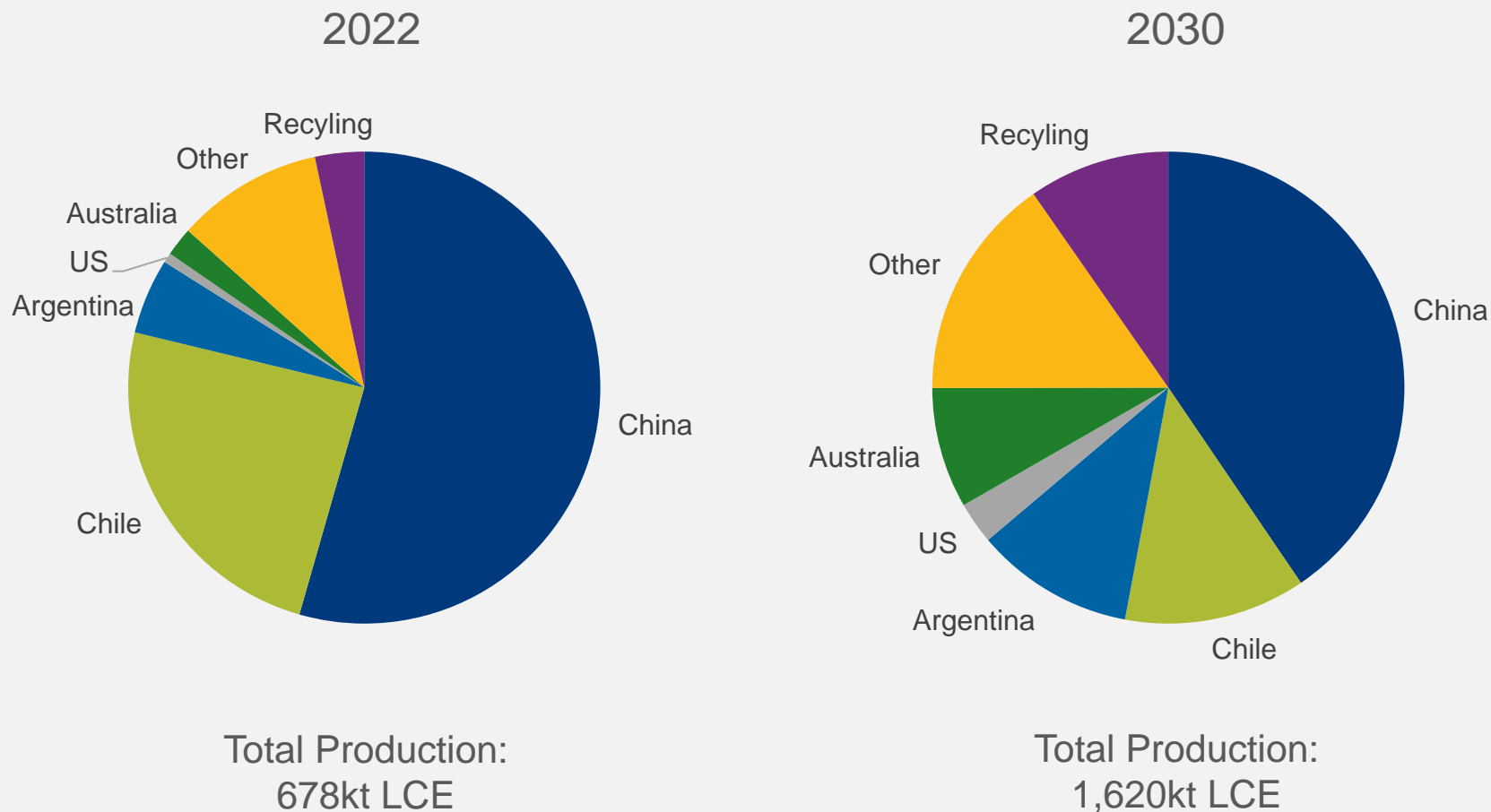


**AMG Lithium Bitterfeld plant focused on battery-grade hydroxide**

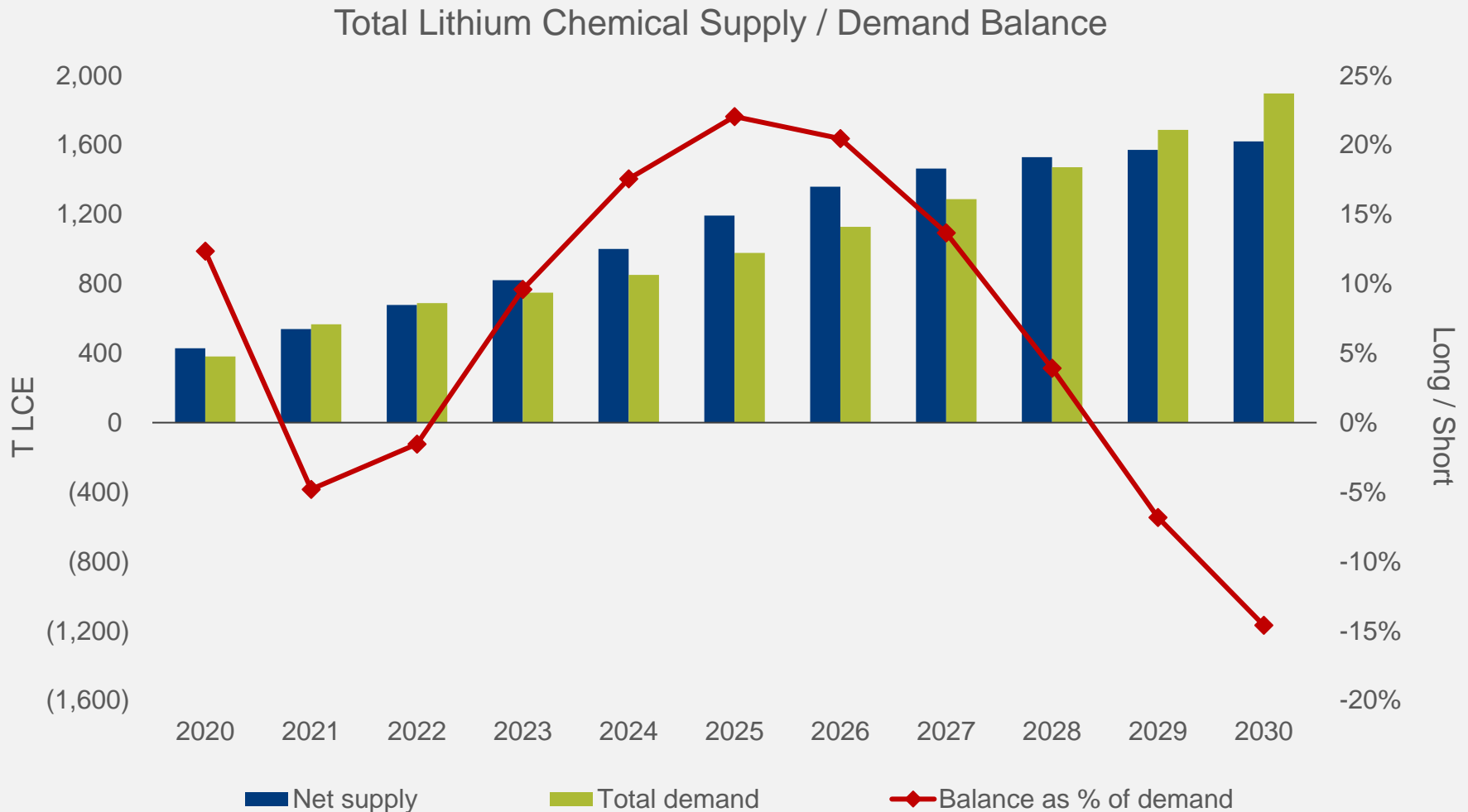
# TOTAL LITHIUM CHEMICAL SUPPLY — EXPECTED TO TRIPLE BY 2030



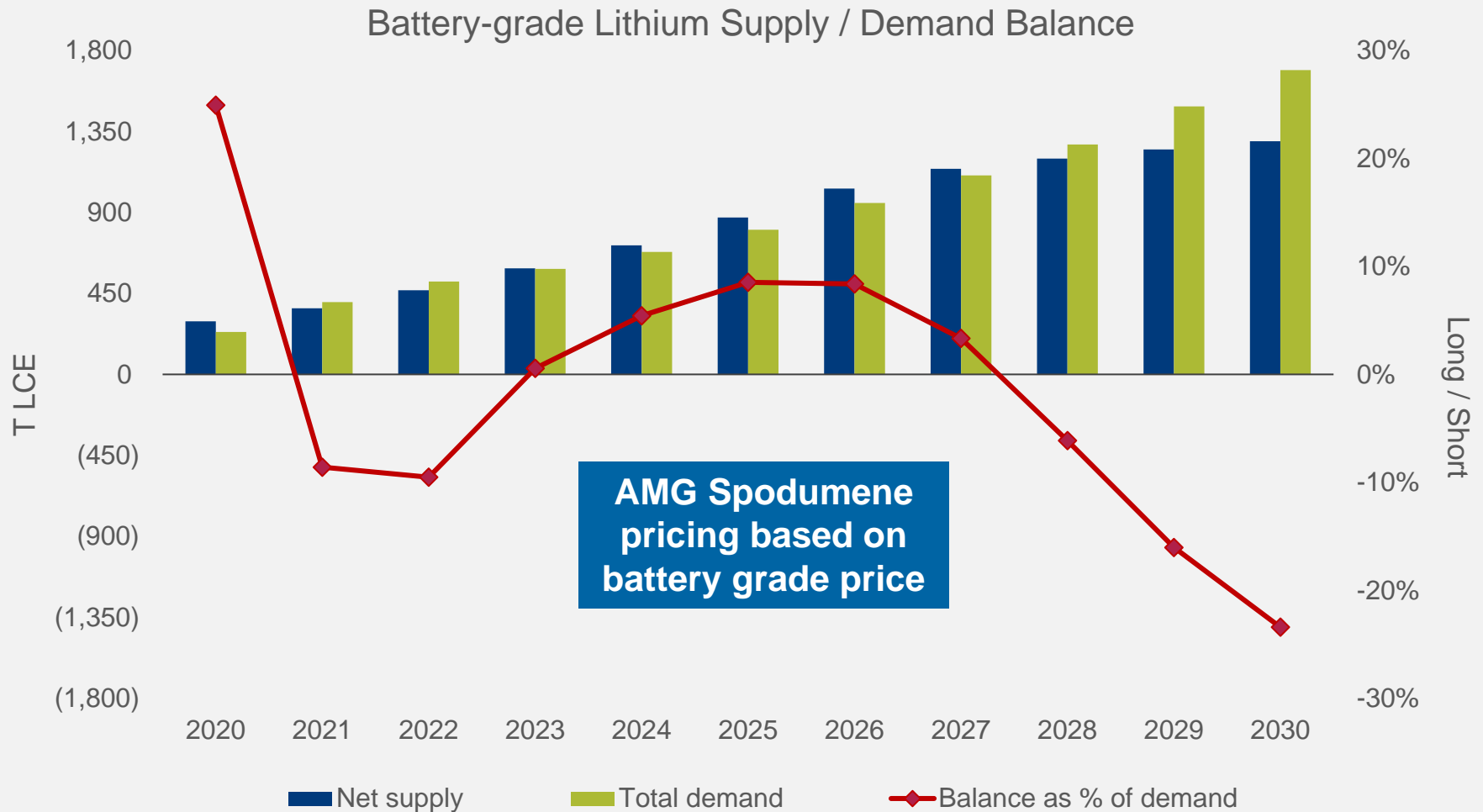
# TOTAL LITHIUM CHEMICAL SUPPLY – CONTINUED DOMINANCE BY CHINA



# TOTAL LITHIUM CHEMICAL MARKET EXPECTED TO BE LONG IN 2025, AND SIGNIFICANTLY SHORT IN 2030

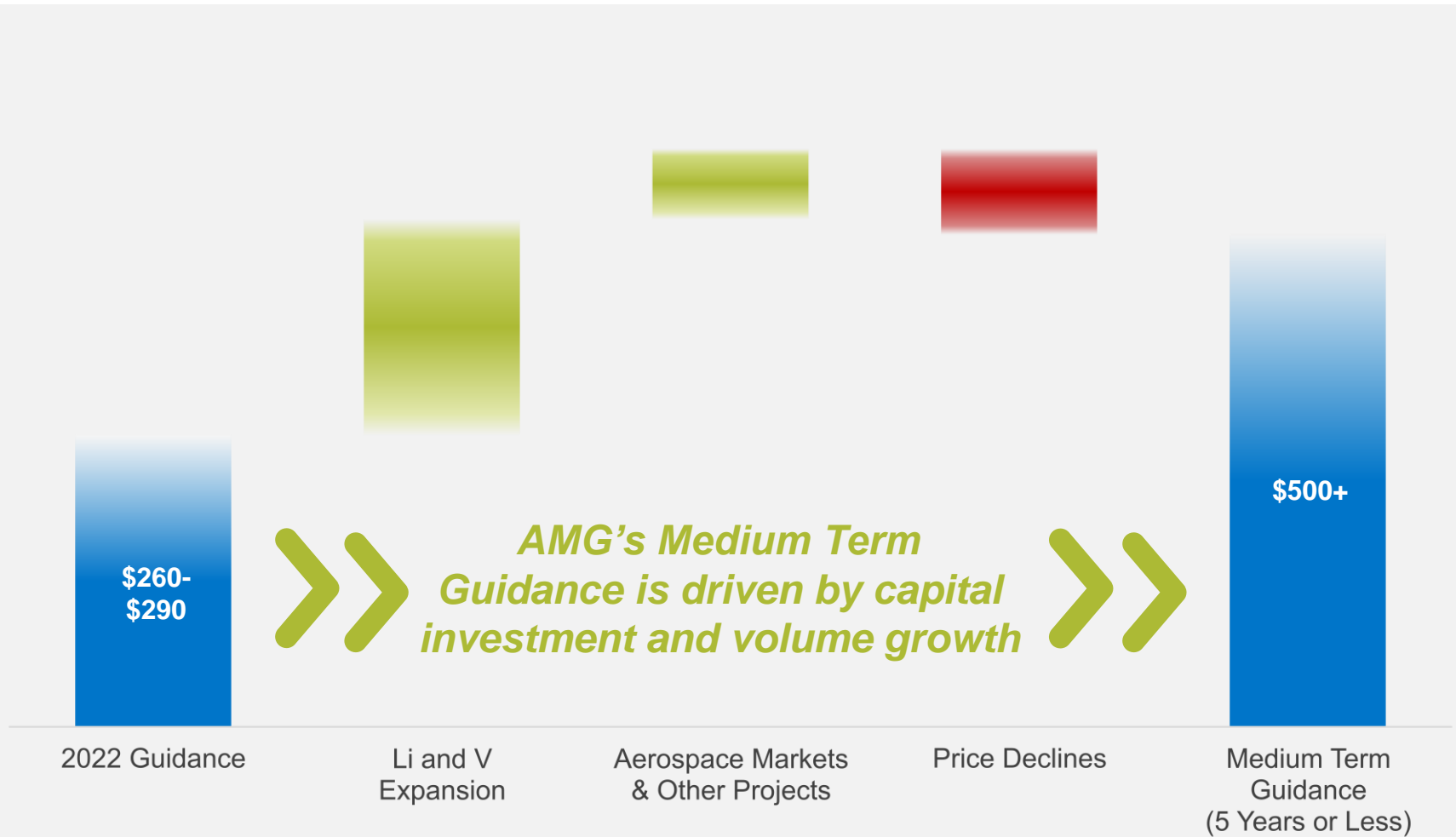


# ... BUT THE BATTERY-GRADE LITHIUM CHEMICAL MARKET IS EXPECTED TO REMAIN LARGELY BALANCED





# EBITDA GUIDANCE FOR 2022 & MEDIUM TERM



# APPENDIX



# LITHIUM SUPPLY CHAIN

