## THE ENERGY OF NATURE

Investor Presentation | Third Quarter 2024



AMG CRITICAL MATERIALS N.V.



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### **GROWTH STRATEGY SNAPSHOT**

**Expansion on Schedule:** The expansion of the lithium concentrate plant in Brazil remains on track, and we expect to produce at full 130,000-ton annualized capacity by the end of the fourth quarter of 2024.

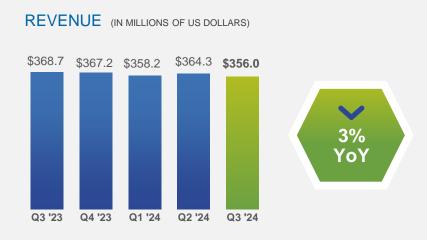
#### Strategic Developments:

- As part of the vertical integration into LIVA batteries, construction of the vanadium electrolyte plant at AMG Titanium in Nuremberg, Germany is complete, and we are producing qualification batches for our customers.
- AMG LIVA's first third-party commercial Hybrid Energy Storage System, integrating Lithium-Ion and Vanadium Redox Flow batteries with AI-driven efficiency, is now operational at Wipotec GmbH, enhancing the facility's power system.
- On September 18, 2024 in Bitterfeld, Germany, AMG hosted the grand opening of Europe's first lithium hydroxide refinery.

**Robust Financial Position:** Following a \$100 million term loan expansion earlier in 2024, AMG's total liquidity exceeds \$450 million, supporting its growth initiatives and operational needs.



### **QUARTERLY** FINANCIAL HIGHLIGHTS



#### NET INCOME (LOSS) ATTRIBUTABLE TO SHAREHOLDERS (IN MILLIONS OF US DOLLARS)



ADJUSTED EBITDA (IN MILLIONS OF US DOLLARS)



- Revenue decreased by 3% in Q3 '24 to \$356 million, from \$369 million in Q3 '23
- Q3 '24 adjusted EBITDA was \$40 million, with an exceptionally strong performance by the Technologies segment, offset by challenging market conditions and depressed price levels in AMG Lithium and AMG Vanadium
- Net loss attributable to shareholders for Q3 '24 was \$13 million, compared to a net income of \$0.2 million in Q3 '23, with most of the decline due to an \$18 million non-cash expense during the current period driven by AMG Lithium due to the decline in lithium prices

### **QUARTERLY** REVENUE DRIVERS

SEGMENT RESULTS		KEY DRIVERS	
<u>Q3 2024</u>	<u>Q3 2023</u>	Price Volume	
\$48.6	\$62.3	Spodumene V	
(\$0.8)	\$26.8	Tantalum V	
SEGMENT RESULTS		KEY DRIVERS	
Q3 2024	Q3 2023	Price Volume	
	¢171 1	Vanadium 🖌 🖌	
		Titanium Alloys	
\$11.3	\$17.2	Chrome	
S			
SEGMENT RESULTS		KEY DRIVERS	
		Price Volume	
<u>Q3 2024</u>	<u>Q3 2023</u>	Graphite	
\$156.4	\$131.9	Silicon	
\$35.6	\$22.9	Antimony	
		Engineering Book to Bill	
	Q3 2024         \$48.6         (\$0.8)         SEGMENT RESULTS         Q3 2024         \$1151.0         \$11.3         S         SEGMENT RESULTS         Q3 2024         \$15.0         \$11.3	Q3 2024       Q3 2023         \$48.6       \$62.3         (\$0.8)       \$26.8         SEGMENT RESULTS       Q3 2023         \$151.0       \$174.4         \$11.3       \$17.2         SEGMENT RESULTS       \$12023         \$11.3       \$17.2         \$11.3       \$17.2         \$11.3       \$17.2         \$11.3       \$17.2	$\underline{O3\ 2024}$ $\underline{O3\ 2023}$ PriceVolume $\$48.6$ $\$62.3$ $\underline{Spodumene}$ $\checkmark$ $\checkmark$ $(\$0.8)$ $\$26.8$ $\underline{Tantalum}$ $\checkmark$ $\checkmark$ SEGMENT RESULTS $\underline{O3\ 2024}$ $\underline{O3\ 2023}$ $\underline{Vanadium}$ $\checkmark$ $\$11.3$ $\$17.4$ $\checkmark$ $\checkmark$ $\$11.3$ $\$17.2$ $\checkmark$ $\checkmark$ SEGMENT RESULTSSEGMENT RESULTSKEY DRIVERS VanadiumO3 2024 $\underline{O3\ 2023}$ $\underline{O3\ 2023}$ $\underline{Craphite}$ $\checkmark$ $\underline{O3\ 2024}$ $\underline{O3\ 2023}$ $\underline{Graphite}$ $\checkmark$ $\$156.4$ $\$131.9$ $\$110$ $\checkmark$ $\checkmark$ $\$35.6$ $\$22.9$ $Antimony$ $\checkmark$ $\checkmark$



### FINANCIAL PERFORMANCE, LEVERAGE & VALUATION DASHBOARD

METRIC	Q3 2024	FY 2023
Return on Assets	-1.7%	5.2%
Return on Equity	-6.2%	16.9%
Return on Capital Employed	7.4%	26.3%
EV / Adjusted EBITDA	6.1x	3.3x
Total Net Debt / Adjusted EBITDA	2.7x	0.9x
Liquidity (USD millions)	\$472	\$540

- AMG has invested
   \$650 million in capital expenditures since
   2020 for its lithium and vanadium expansion
   projects
- In Q2 2024, AMG entered into a new \$100 million incremental term loan with the same pricing, terms and 2028 maturity as the previous \$350 million term loan
- AMG has significant liquidity to support its growth opportunities

Notes: Quarterly net income and Adjusted EBITDA figures reflect LTM figures for comparison purposes. 'Return on Assets' defined as 'Net Income' / 'Total Assets'; 'Return on Equity' is defined as 'Net Income' / 'Shareholder's Equity'; 'Return on Capital Employed is defined as 'Adjusted EBIT' / 'Average Operating Capital Employed'; 'EV' is defined as 'Market Capitalization' + 'Total Debt' – 'Cash & Cash Equivalents' using share prices of €17.11 and €22.82 for Q3 2024 and FY 2023, respectively, and fx rates of 1.1160 and 1.1059, respectively, per oanda.com; EV / Adjusted EBITDA excludes pensions; the remaining debt in 'Net Senior Debt' is a 30-year bond.



### AMG LITHIUM FINANCIAL HIGHLIGHTS



#### REVENUE & ADJUSTED EBITDA (IN MILLIONS OF US DOLLARS)

GROSS PROFIT (LOSS) (IN MILLIONS OF US DOLLARS)



#### CAPITAL EXPENDITURES (IN MILLIONS OF US DOLLARS)



- Revenue decreased 22% compared to Q3 2023, driven by the 67% decline in lithium market prices versus the prior period, offset by a 42% increase in volume
- SG&A expenses in Q3 2024 were 16% higher than in Q3 2023, mainly driven by the increase in headcount related to the German lithium expansion project and higher professional fees
- In Q3 2024, AMG sold 22,731 dry metric tons ("dmt") of lithium concentrates, 42% higher than in Q3 2023; the average realized sales price of \$870/dmt CIF China and the average cost per ton of \$450/dmt CIF China, driven by higher lithium concentrate production, lower costs from the weakening Brazilian Real, and ongoing high tantalum sales volumes which lower the cost of production

### AMG VANADIUM FINANCIAL HIGHLIGHTS



#### REVENUE & ADJUSTED EBITDA (IN MILLIONS OF US DOLLARS)

#### CAPITAL EXPENDITURES (IN MILLIONS OF US DOLLARS)

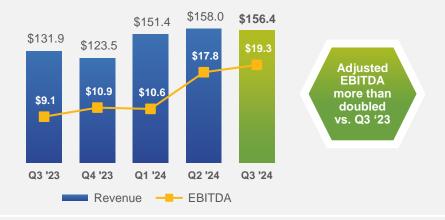


#### GROSS PROFIT (IN MILLIONS OF US DOLLARS)



- Revenue decreased by 13% in Q3 2024, to \$151 million, due primarily to lower sales prices across the segment and lower volumes of ferrovanadium, partially offset by increased volumes in chrome metal
- Gross profit in Q3 2024 was 34% lower compared to the same period in 2023, largely due to the decline in revenues
- SG&A expenses in Q3 2024 of \$14 million were materially in line with Q3 2024
- Q3 2024 adjusted EBITDA of \$11 million was 29% below Q3 2023, mainly driven by the 21% decrease in market prices for ferrovanadium compared to Q3 2023

### AMG TECHNOLOGIES FINANCIAL HIGHLIGHTS



#### REVENUE & ADJUSTED EBITDA (IN MILLIONS OF US DOLLARS)

#### GROSS PROFIT (IN MILLIONS OF US DOLLARS)

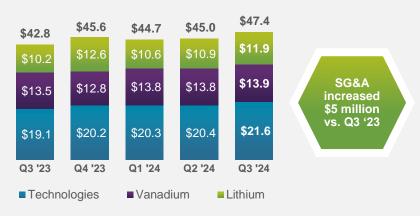


#### ORDER INTAKE (IN MILLIONS OF US DOLLARS)



- Q3 2024 revenue increased by \$24 million vs. Q3 2023, driven by higher sales volumes of antimony and silicon, and higher sales prices of antimony
- Adjusted EBITDA of \$19 million in Q3 2024 was more than double the same period in 2023; this increase was primarily due to higher profitability in antimony and graphite
- The Company signed \$131 million in new orders during Q3 2024, representing a 1.82x book to bill ratio
- Order backlog was \$367 million as of September 30, 2024, the highest in AMG's history

### **KEY CORPORATE** INCOME STATEMENT ITEMS

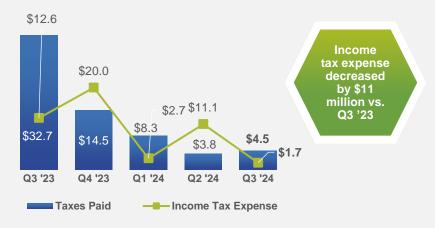


#### SG&A EXPENSES (IN MILLIONS OF US DOLLARS)





TAXES (IN MILLIONS OF US DOLLARS)



- SG&A expenses were \$47 million in Q3 2024 compared to \$43 million in Q3 2023, with the variance largely driven by the increase in headcount in our Lithium, Engineering, and LIVA businesses associated with our strategic expansion projects and higher professional fees relating to additional regulatory requirements
- AMG's net finance cost in Q3 2024 was 16% lower than in Q3 2023
- AMG recorded an income tax expense of \$2 million in Q3 2024, mainly due to a \$3 million tax benefit as calculated at statutory rates related to the lower profitability, as well as a \$2 million deferred tax benefit related to a favorable foreign exchange impact on our Brazilian tax positions; these benefits were offset by \$7 million of deferred tax expenses in our German businesses related to losses that do not qualify for recognition as deferred tax assets

### CASH FLOW AND WORKING CAPITAL

#### CASH FROM (USED IN) OPERATING ACTIVITIES

(IN MILLIONS OF US DOLLARS)

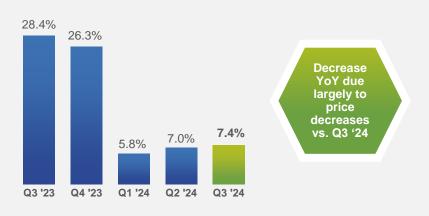


NET DEBT (IN MILLIONS OF US DOLLARS)

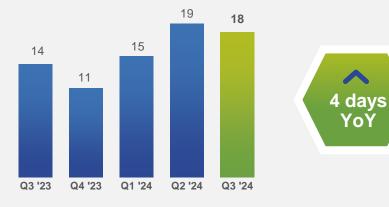




ANNUALIZED ROCE



WORKING CAPITAL DAYS



### OUTLOOK

CAPITAL
EXPENDITURES

- AMG is targeting \$125 million of capital expenditures for 2024, dropping to \$100 million in 2025.
- AMG is approaching the end of a period of significant capital intensity that positions us for strong profitability as market prices improve.

ADJUSTED
EBITDA

- We expect our adjusted EBITDA to exceed \$150 million for 2024 and be approximately \$130 million in 2025.
- Regarding AMG's 5-year guidance, utilizing a variety of price and quantity assumptions with a lithium carbonate equivalent price of \$25,000/MT, we guide to an adjusted EBITDA of \$500 million or more in five years or earlier.

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The fundamental positions of our businesses are sound, and AMG remains focused on disciplined, sustainable growth

### **OPERATIONAL HIGHLIGHTS**





### **OPERATIONAL HIGHLIGHTS**

AMG is effectively progressing in its strategic expansions and joint ventures, maintaining strong momentum across its lithium and vanadium operations while advancing key projects aimed at enhancing global resource recovery and market reach.

#### LITHIUM EXPANSION

Brazil site on target for full nameplate capacity in Q4 2024

#### VANADIUM PROJECT ADVANCEMENTS

Construction of the German electrolyte plant is complete; advancing satellite roasting strategy

#### STRATEGIC JOINT VENTURES

Shell & AMG project in Saudi Arabia progressing through detailed engineering and permitting phases



### HEALTH AND SAFETY FOCUS



#### **Safety Indicators**

AMG compares itself to the industry average for Primary Metal Manufacturing (NAICS 331).

The most recent data provided in 2022 by the United States Bureau of Labor Statistics reports that the Primary Metal Manufacturing industry's total recordable case rate was **3.9** and the lost time rate was **1.2**.



AMG outperformed the NAICS 331 benchmark by 77% for recordable rate and by 52% for lost time rate.

PERIOD	12 MONTH AVERAGE LOST TIME INCIDENT RATE	12 MONTH AVERAGE TOTAL INCIDENT RATE
Q3 2023	0.45	1.03
Q3 2024	0.58 🔨	0.88 💙



### APPENDIX





#### AMG PROVIDES CRITICAL MATERIALS AND RELATED PROCESS TECHNOLOGIES TO ADVANCE A LESS CARBON-INTENSIVE WORLD

#### A GLOBAL IMPERATIVE FOR THE 21<sup>ST</sup> CENTURY

#### AMG: ENABLING TECHNOLOGIES

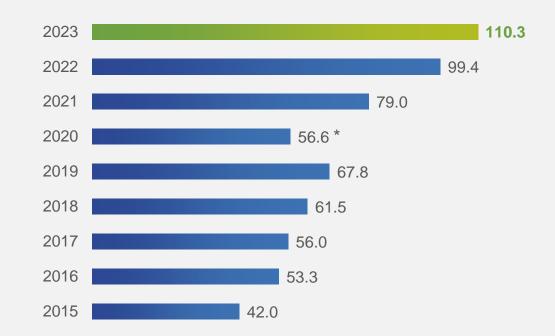
Products and processes saving  $CO_2$  emissions during use (e.g., light-weighting and fuel efficiency in the aerospace and automotive industries)

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#### MITIGATING TECHNOLOGIES

Products and processes saving raw minerals, energy and CO<sub>2</sub> emissions during manufacturing (e.g., recycling of ferrovanadium)

## AMG'S ENABLED CO<sub>2</sub> EMISSION REDUCTIONS (Million MT)



\* 2020 decrease due to the global pandemic significantly impacting volumes in our aerospace exposed businesses



### CRITICAL MATERIALS — AVERAGE QUARTERLY MARKET PRICES

MATERIALS	Q3 2023	Q3 2024	OCT 30, 2024 SPOT	Q3 '24 VS. Q3 '23 % CHANGE	SPOT VS. Q3 '24 % CHANGE
Ferrovanadium (\$/lb) <i>CRU</i>	\$16.31	\$12.88	\$13.88	(21%)	8%
Molybdenum (\$/lb) S&P Global Platts	\$23.79	\$21.74	\$21.92	(9%)	1%
Nickel (\$/MT) <i>Fastmarkets</i>	\$20,334	\$16,255	\$15,703	(20%)	(3%)
Chrome Metal (\$/lb) <i>CRU</i>	\$5.28	\$5.83	\$5.95	10%	2%
Tantalum (\$/lb) <i>Argus Metals</i>	\$73.23	\$76.29	\$82.50	4%	8%
Spodumene (\$/MT) <i>Asian Metal</i>	\$3,374	\$873	\$750	(74%)	(14%)
Lithium Carbonate (\$/MT) <i>Asian Metal</i>	\$33,367	\$11,107	\$10,177	(67%)	(8%)
Lithium Hydroxide (\$/MT) <i>Fastmarkets</i>	\$34,833	\$11,267	\$10,050	(68%)	(11%)
Antimony (\$/MT) <i>Fastmarket</i> s	\$11,863	\$24,477	\$36,500	106%	49%
Graphite (\$/MT) <i>Benchmark Minerals</i>	\$1,048	\$1,113	\$1,140	6%	2%
Silicon Metal (€/MT) <i>CRU</i>	€2,346	€2,550	€2,550	9%	-

### CRITICAL MATERIALS — FULL YEAR AND CURRENT SPOT PRICES

MATERIALS	AVG 2022	AVG 2023	OCT 30, 2024 SPOT	AVG '23 VS. AVG '22 % CHANGE	SPOT VS. AVG '23 % CHANGE
Ferrovanadium (\$/lb) <i>CRU</i>	\$23.89	\$17.05	\$13.88	(29%)	(19%)
Molybdenum (\$/lb) S&P Global Platts	\$18.91	\$24.03	\$21.92	27%	(9%)
Nickel (\$/MT) Fastmarkets	\$25,993	\$21,464	\$15,703	(17%)	(27%)
Chrome Metal (\$/lb) <i>CRU</i>	\$7.13	\$5.45	\$5.95	(24%)	9%
Tantalum (\$/lb) <i>Argus Metals</i>	\$99.17	\$83.84	\$82.50	(15%)	(2%)
Spodumene (\$/MT) <i>Asian Metal</i>	\$4,386	\$3,689	\$750	(16%)	(80%)
Lithium Carbonate (\$/MT) <i>Asian Metal</i>	\$72,457	\$35,797	\$10,177	(51%)	(72%)
Lithium Hydroxide (\$/MT) <i>Fastmarkets</i>	\$68,000	\$44,167	\$10,050	(35%)	(77%)
Antimony (\$/MT) <i>Fastmarket</i> s	\$13,367	\$12,051	\$36,500	(10%)	203%
Graphite (\$/MT) Benchmark Minerals	\$1,185	\$1,082	\$1,140	(9%)	5%
Silicon Metal (€/MT) <i>CRU</i>	€4,428	€2,813	€2,550	(36%)	(9%)

### (LOSS) PROFIT FOR THE PERIOD TO ADJUSTED EBITDA RECONCILIATION

(000's USD)	Q3 2024	Q3 2023
(Loss) profit for the period	(\$11,708)	\$1,002
Income tax expense	1,676	12,565
Net finance cost	7,813	9,295
Equity-settled share-based payment transactions	1,524	1,392
Restructuring expense	102	2,745
Silicon's partial closure	(346)	(739)
Inventory cost adjustment	18,258	7,283
Strategic project expense (1)	7,127	5,301
Share of loss of associates	967	1,197
Others	(5)	184
EBIT	25,408	40,225
Depreciation and amortization	14,818	13,560
ADJUSTED EBITDA	40,226	53,785

Notes:

(1) The Company is in the initial development and ramp-up phases for several strategic expansion projects, including the joint venture with Shell, the LIVA Battery System, and the lithium expansion in Germany, which incurred project expenses during the quarter but are not yet operational. AMG is adjusting EBITDA for these exceptional charges.

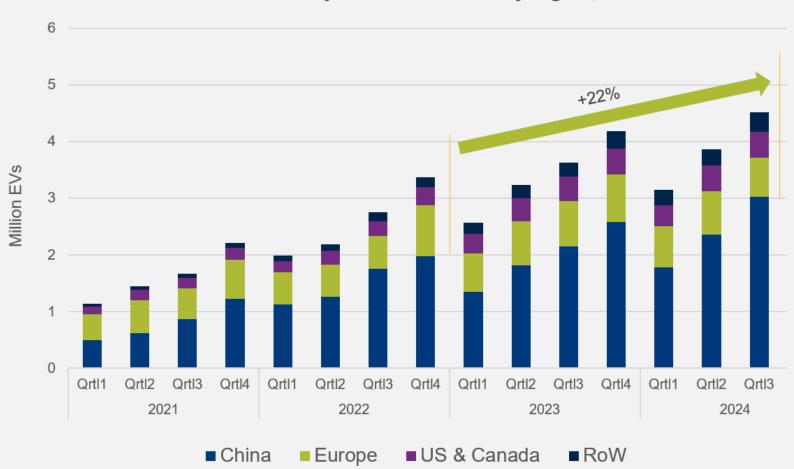


### APPENDIX: LITHIUM MARKET UPDATE





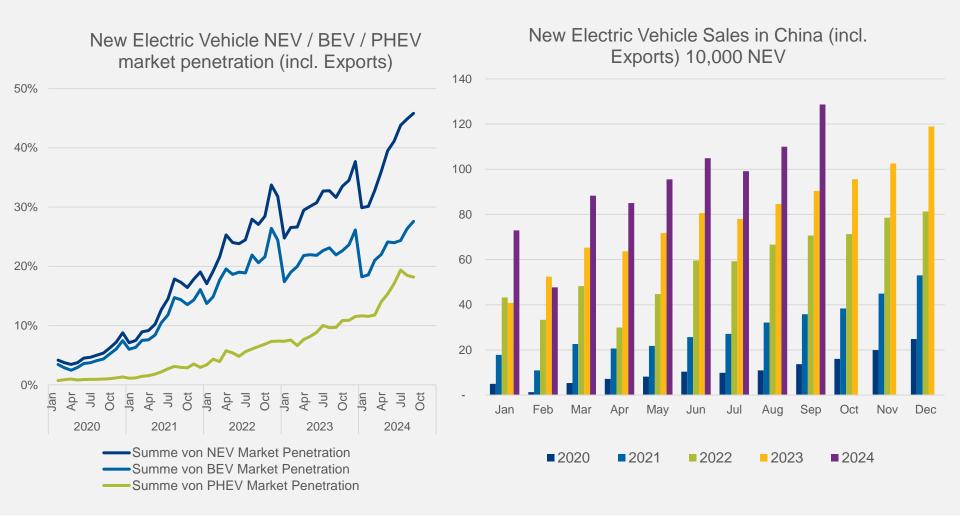
### NEV SALES Q1-Q3 YOY GROWTH +22%, EUROPE FLAT



Quarterly electric car sales by region, 2021-2024



### EV MARKET DEVELOPMENT 2020-2024: CHINA



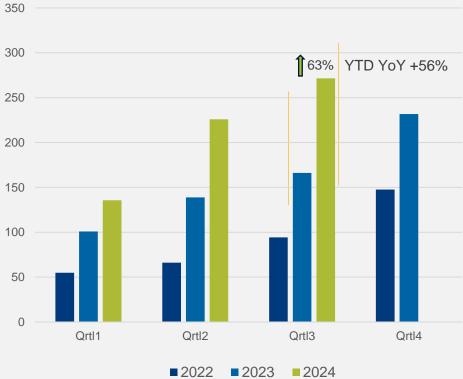
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### BATTERY MARKET DEVELOPMENT 2024 - CHINA (GWH)

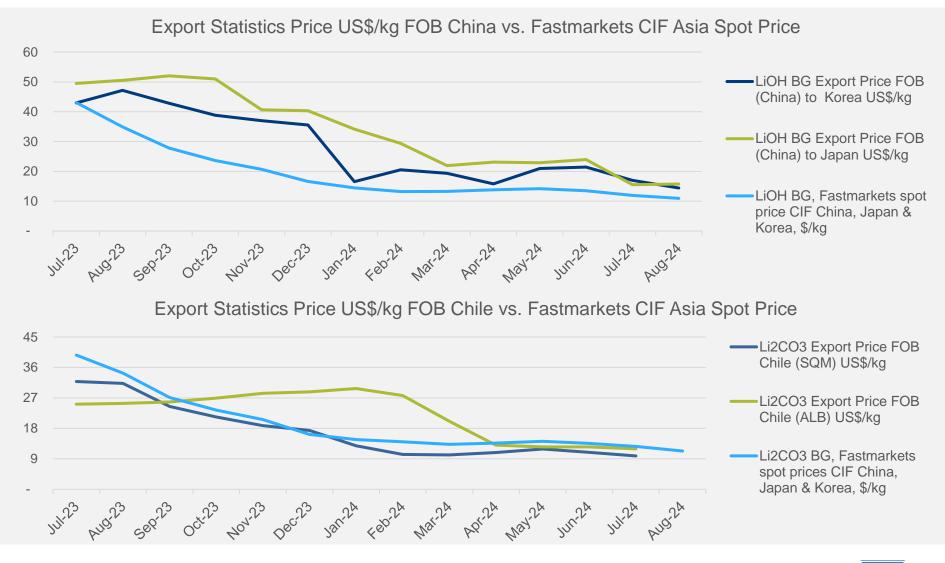


Battery Production China per Quarter (GWh)

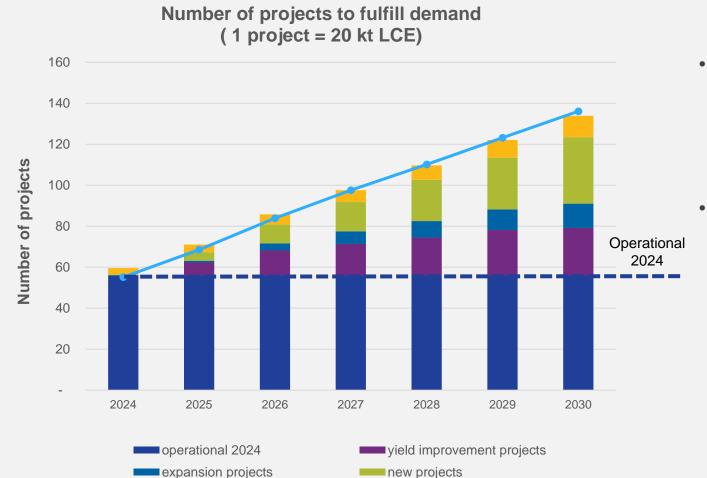
#### Battery Sold + Exported China per Quarter (Gwh)



### PRICES IN 2024: EXPORT PRICES VS. SPOT INDICES



# SUPPLY VIEW: NUMBER OF PROJECTS NEEDED TO COME ONLINE TO FULFILL DEMAND



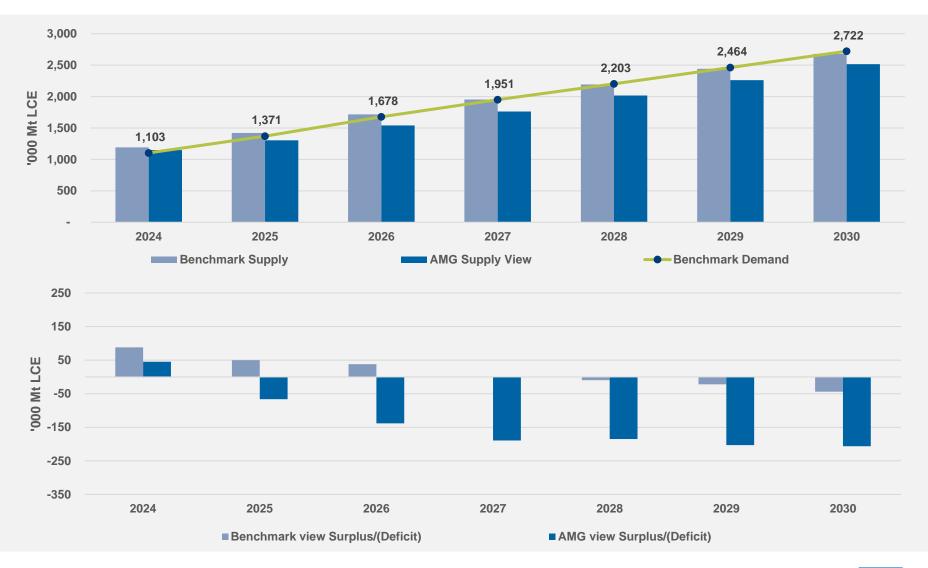
- By 2030, 30 to 40 new projects need to come online (not supported by current prices).
- By 2030, 20 to 30 projects can be assigned to yield improvement and expansion projects which covers a minor proportion of the demand.

secondary feed

Benchmark Demand



### AMG VIEW: SUPPLY OF LITHIUM EQUIVALENTS





### LITHIUM MARKET MEDIUM TERM

#### 2025 Lithium Production Cost Curve



Source: Benchmark Minerals Lithium Forecast Q3-2024.



This announcement appears as a matter of record.



AMG's LAW:

"Everything that can be recycled will be recycled."

> AMG Critical Materials N.V. amg-nv.com

MINAS GERAIS – BRAZI LITHIUM TAILINGS

ENGINEERING - HANAU, GERMANY

EE!

MELTSHOP – ZANESVILLE, OHIO

TANTALUM, NIOBIUM, AND HAFNIUM

TITANIUM

LI PROCESSING, AMG BRAZIL

PLUTONIUM

VANADIUM, MOLYBDENUM AND NICKEL – ZANESVILLE, OHIO

V.0.