

ACCELERATING THE ENERGY TRANSITION

Investor Presentation | March 2023

AMG Lithium
Bitterfeld, Germany



AMG ADVANCED METALLURGICAL GROUP N.V.

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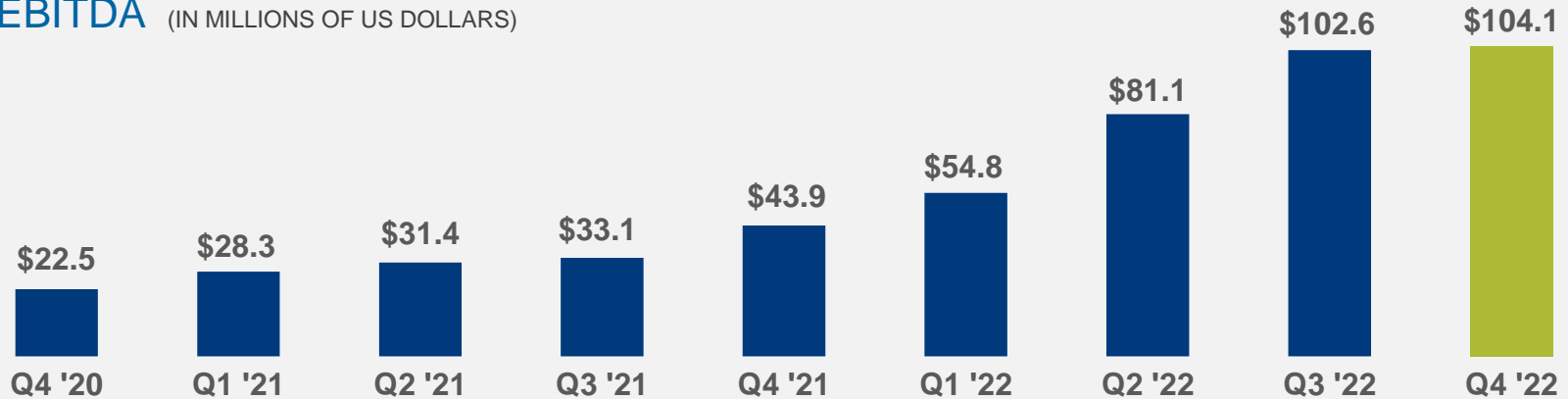
A close-up photograph of a white and black electric vehicle (EV) charging cable. The cable is plugged into a dark, circular charging port on the side of a vehicle. The background is dark and out of focus, emphasizing the charging equipment.

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AMG: CONSISTENT EBITDA GROWTH AND STRONG PROJECT EXECUTION

EBITDA (IN MILLIONS OF US DOLLARS)



Zanesville OH Spent Catalyst Recycling Facility

Construction Began: June 2019
Startup: November 2022
Total Spend: \$312 million
Budget: \$320 million

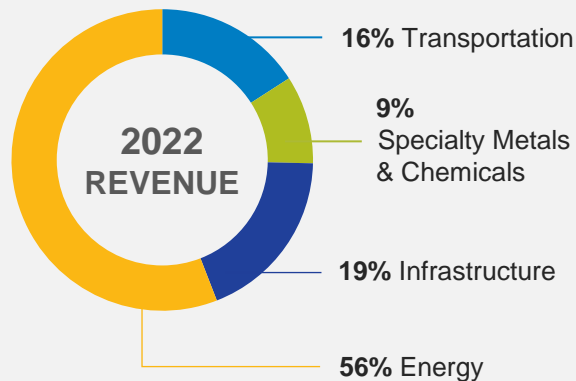


AMG BUSINESS SEGMENTS

AMG CLEAN ENERGY MATERIALS

AMG's mining and recycling business

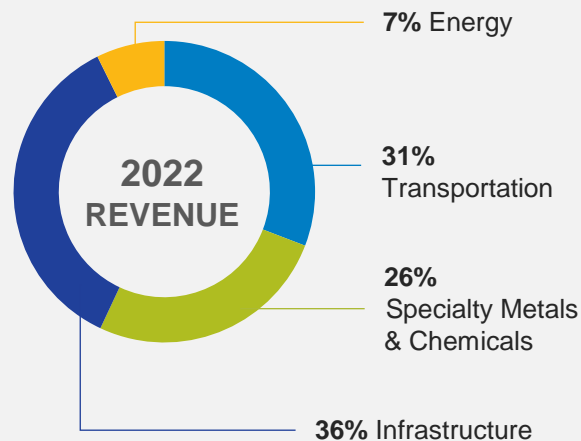
- Vanadium
- Mineração (Tantalum & Lithium)
- Aluminum (Master Alloys)



AMG CRITICAL MINERALS

AMG's conversion and mining business

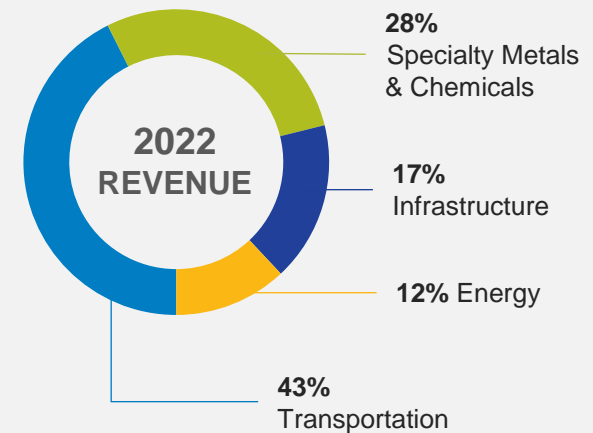
- Silicon Metal
- Graphite
- Antimony



AMG CRITICAL MATERIALS TECHNOLOGIES

AMG's titanium, vacuum systems and services business

- Titanium Aluminides
- Furnaces
- Heat treatment services
- Chrome Metal






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 2021 by the United States Bureau of Labor Statistics reports that the Primary Metal Manufacturing industry's total recordable case rate was **4.1** and the lost time rate was **1.2**.

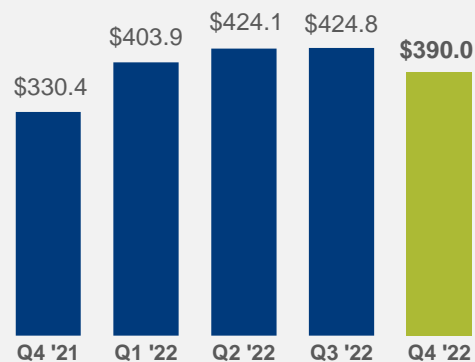
YEAR	LOST TIME INCIDENTS IN THE LAST 12 MONTHS	12 MONTH AVERAGE LOST TIME INCIDENT RATE	12 MONTH AVERAGE TOTAL INCIDENT RATE
2021	11	0.39	1.08
2022	14 	0.46 	0.95 



Internal safety performance in the recordable incidence rate has improved year-over-year.

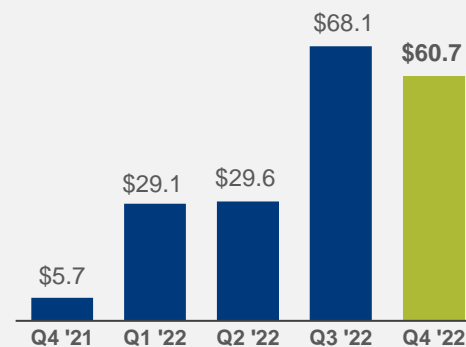
FINANCIAL HIGHLIGHTS

REVENUE (IN MILLIONS OF US DOLLARS)

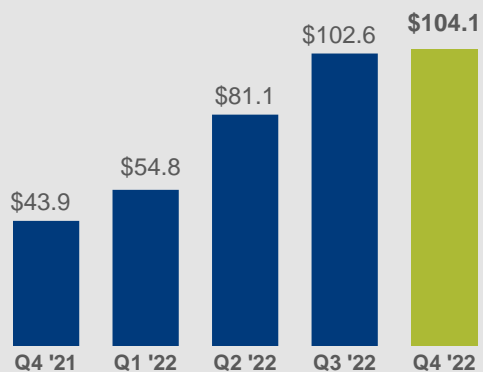


NET INCOME ATTRIBUTABLE TO SHAREHOLDERS

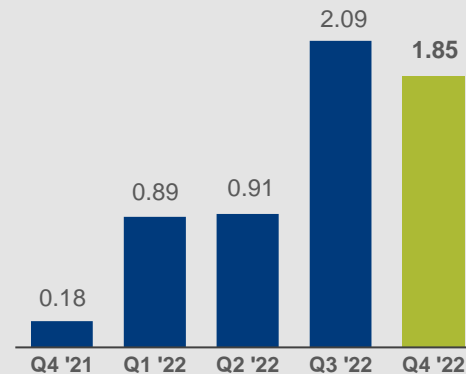
(IN MILLIONS OF US DOLLARS)



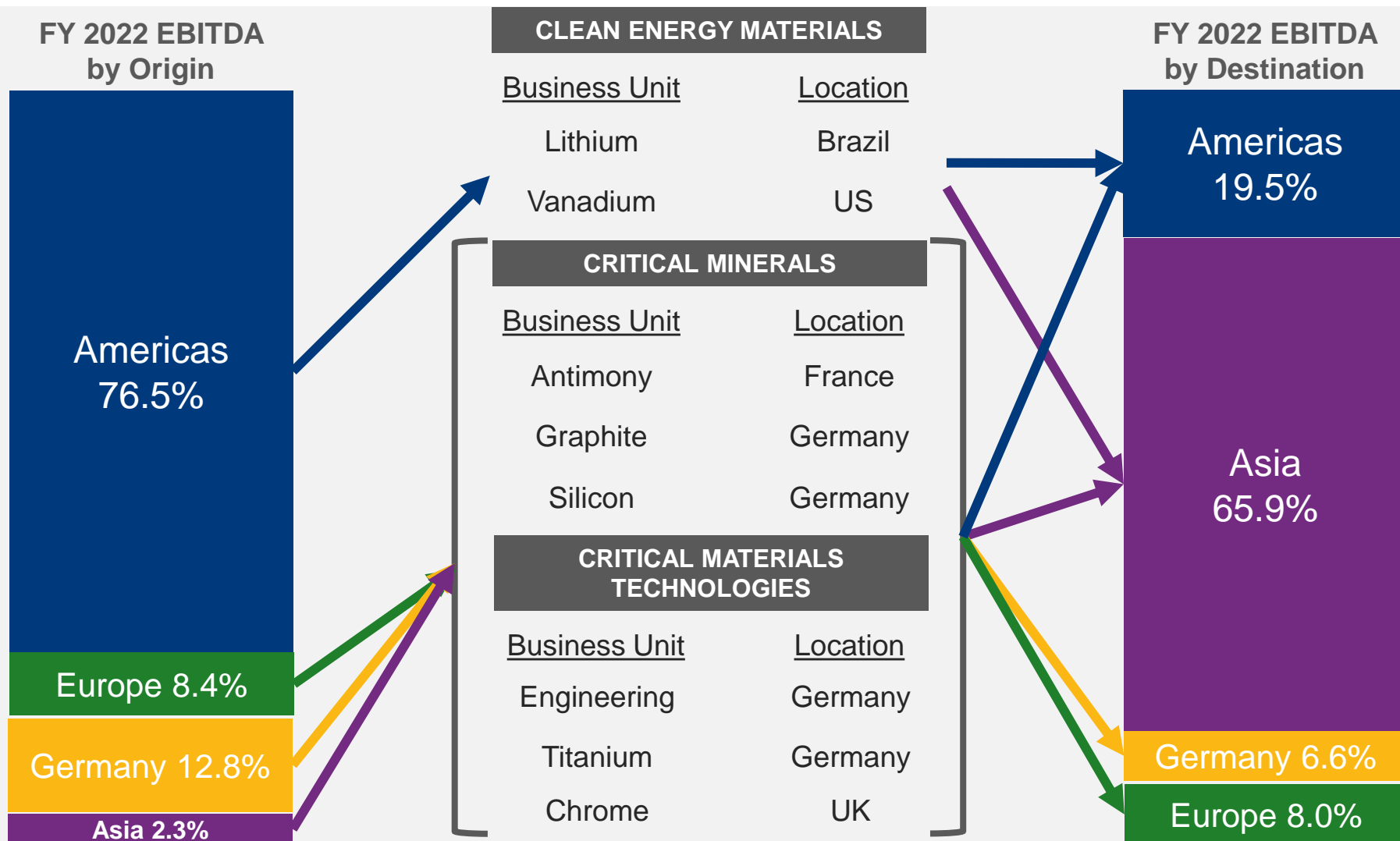
EBITDA (IN MILLIONS OF US DOLLARS)



EARNINGS PER SHARE (IN US DOLLARS)



EBITDA BY ORIGIN AND DESTINATION



AMG LITHIUM



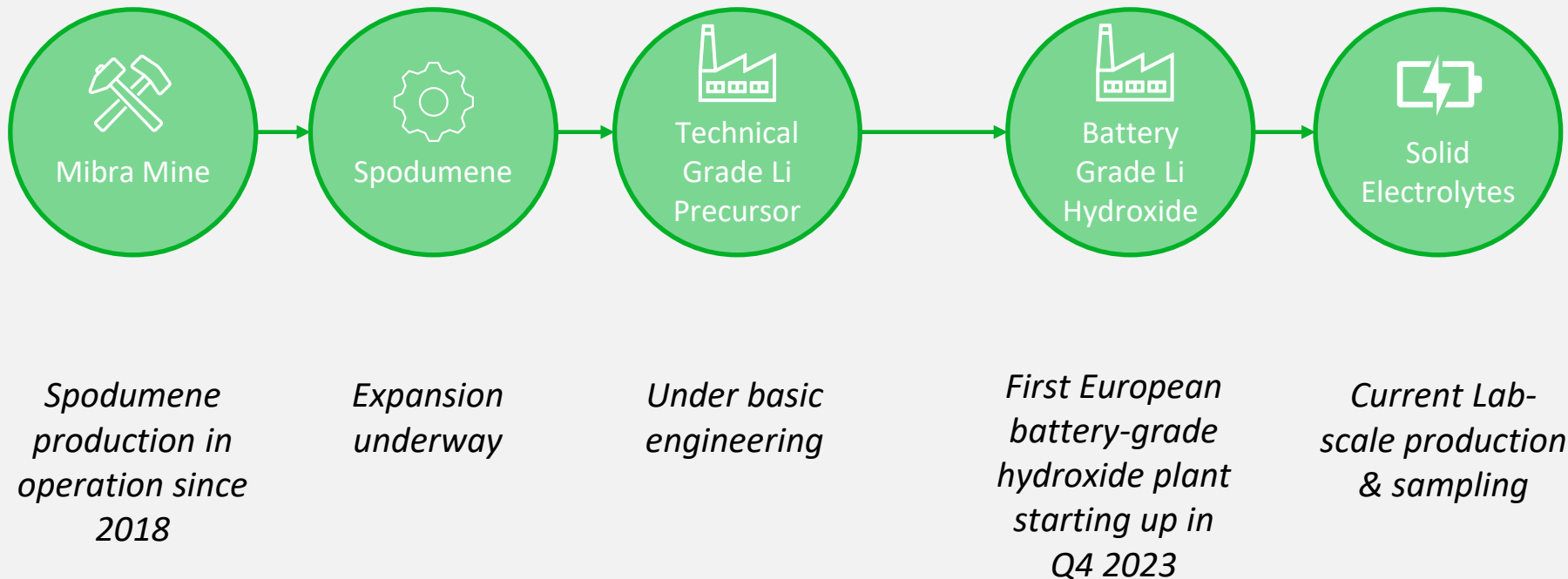
*Battery-grade
Hydroxide pilot plant,
Frankfurt, Germany*

AMG LITHIUM HAS A SIGNIFICANT FIRST MOVER ADVANTAGE IN EUROPE

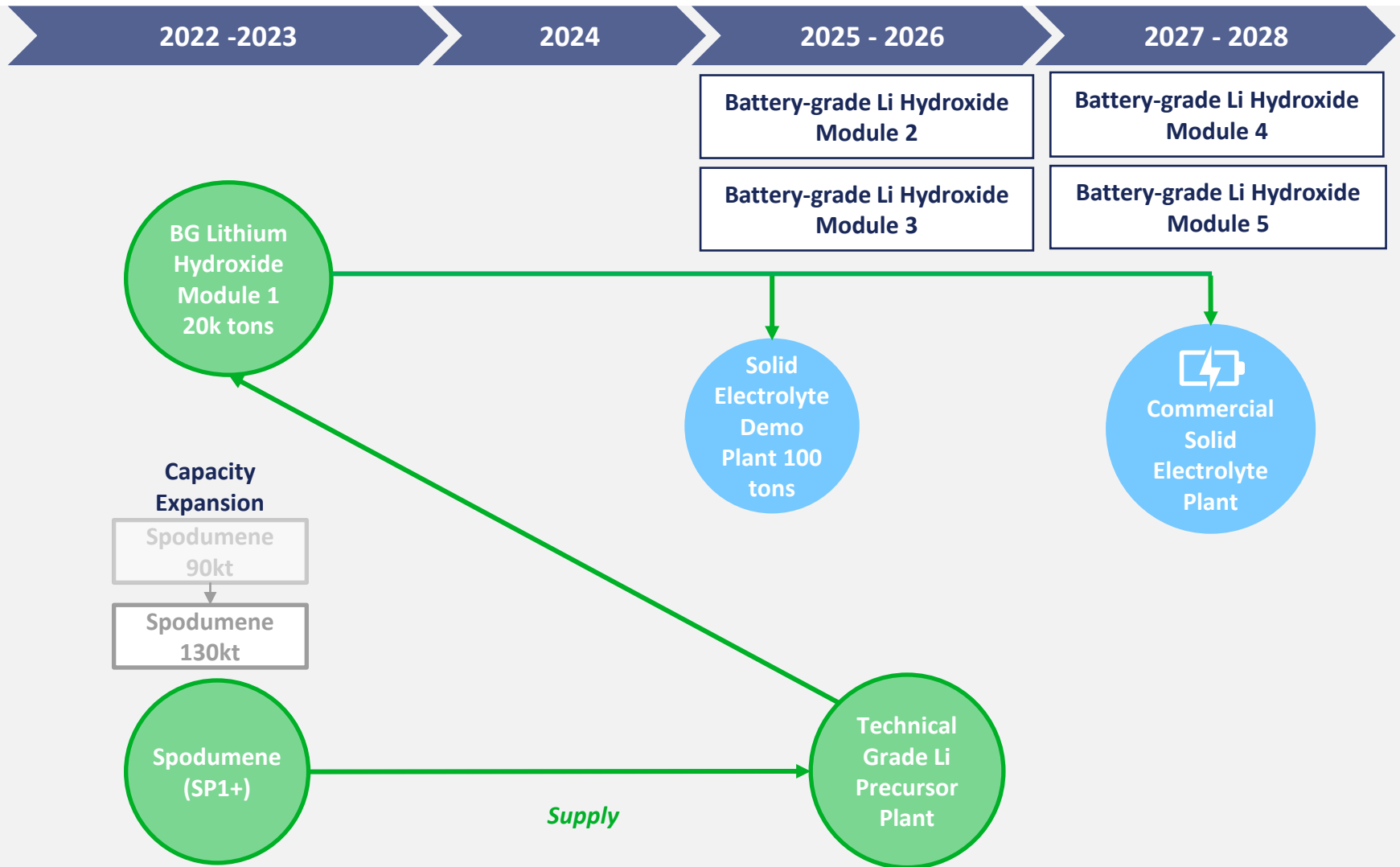
From mining through to next generation lithium products

Upstream - Brazil

Downstream - Germany



MODULAR EXPANSION PLANS TO MEET GROWING DEMAND

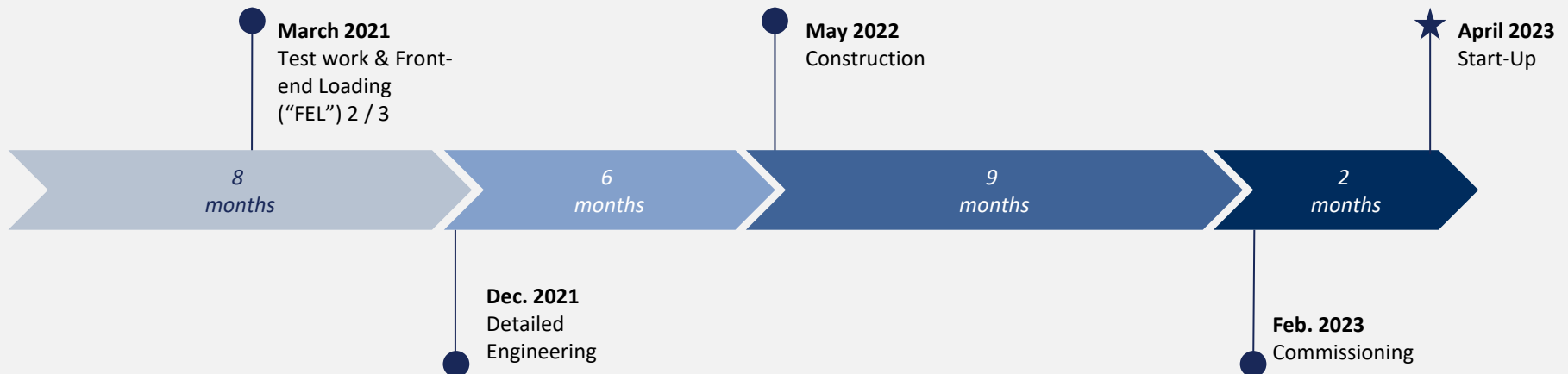


LITHIUM CONCENTRATE EXPANSION OVERVIEW (SPODUMENE 1+)

Spodumene Plant Expansion

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

Execution Timeline

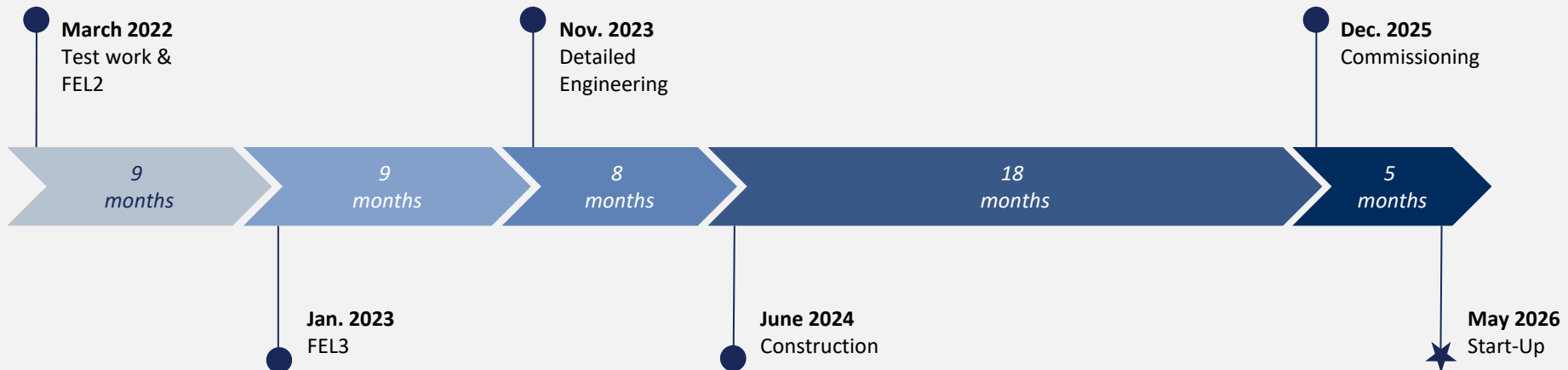


TECHNICAL GRADE LITHIUM PRECURSOR OVERVIEW

Technical Grade Lithium Precursor Plant

- Basic engineering underway
- Target capacity of 16.5 ktpa
- Focus on producing an interim technical lithium precursor material

Execution Timeline



AMG MIBRA MINE'S ESG COMMITMENT

Environmental

- Energy storage materials provides substantial productivity enhancement to renewable energy production
- Business plan includes fundamental CO₂ reductions per ton
- Recently updated structural review of tailings dams and has satisfied the Church of England Mining and Tailings Safety Initiative
- ISO 14001 certified

Social

- **Recently celebrated 1,000 days without a lost time workplace accident**
- Leading producer of 'conflict-free' raw materials
- Significant investments made into the local community

Governance

- Complies with the strict requirements laid out by its third-party ISO 9001 (Quality Management System), 14001 (Environmental Management System), and 45001 (Occupational Health and Safety Management System) certifications

AMG EXPLORATION

AMG is uniquely positioned to help develop and commercialize lithium deposits globally

Technical Expertise

- ✓ Operational experience
- ✓ De-risking project development
- ✓ Downstream value chain expertise



AMG possesses the know-how from first ore through construction and operations

Commercial Access

- ✓ Project financing expertise
- ✓ Vertical integration

Lithium Concentrate (Spodumene) Conversion

Spodumene Refining into Technical Li Precursor

Technical Grade Li Precursor Upgrading into Battery Grade Li Hydroxide

AMG has expansion capabilities in all areas of the covered lithium value chain

LITHIUM HYDROXIDE UPGRADER

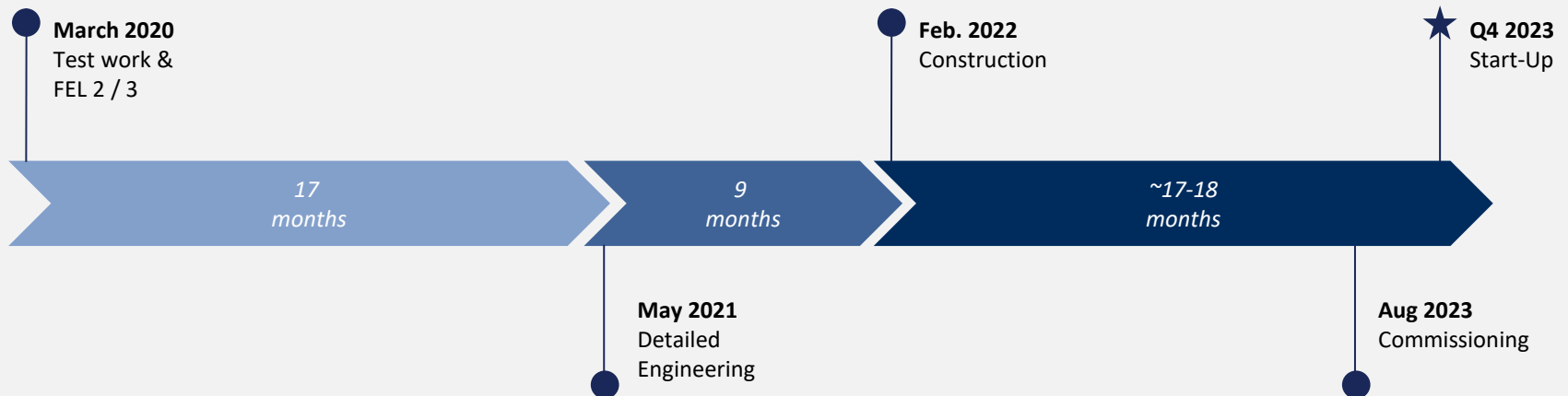


Groundbreaking ceremony was held on May 11th for the first European lithium refinery, and commissioning for the first module of the battery grade lithium hydroxide upgrader will commence in the fourth quarter of 2023.

OVERVIEW OF LITHIUM UPGRADING FACILITY IN GERMANY

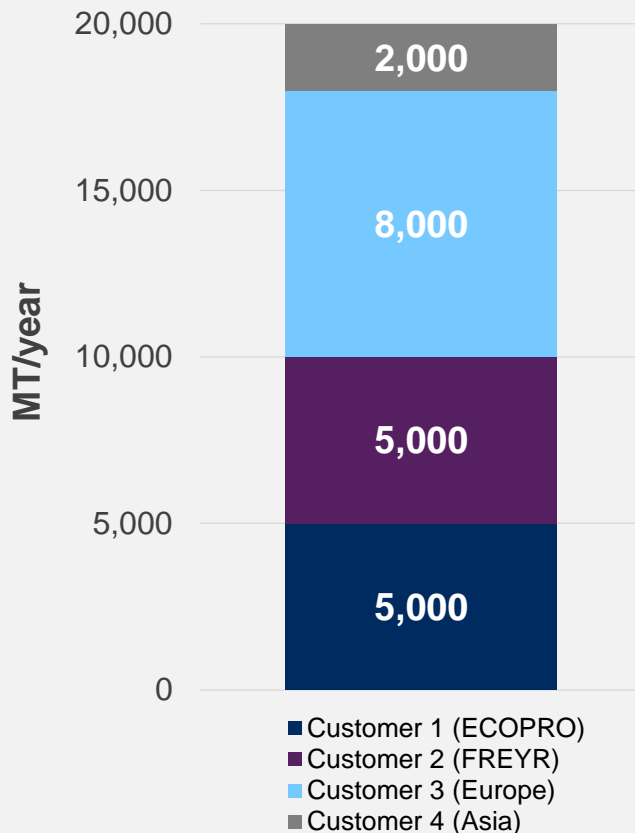
- Production of highly-refined, battery-grade Lithium hydroxide
- Located in Bitterfeld/Germany in an industrial chemical park
- Module 1 with 20,000 MT capacity, further modules up to 100,000 MT
- Expected capex of \$140 million for module 1, \$75 million per modules 2-5

Execution Timeline



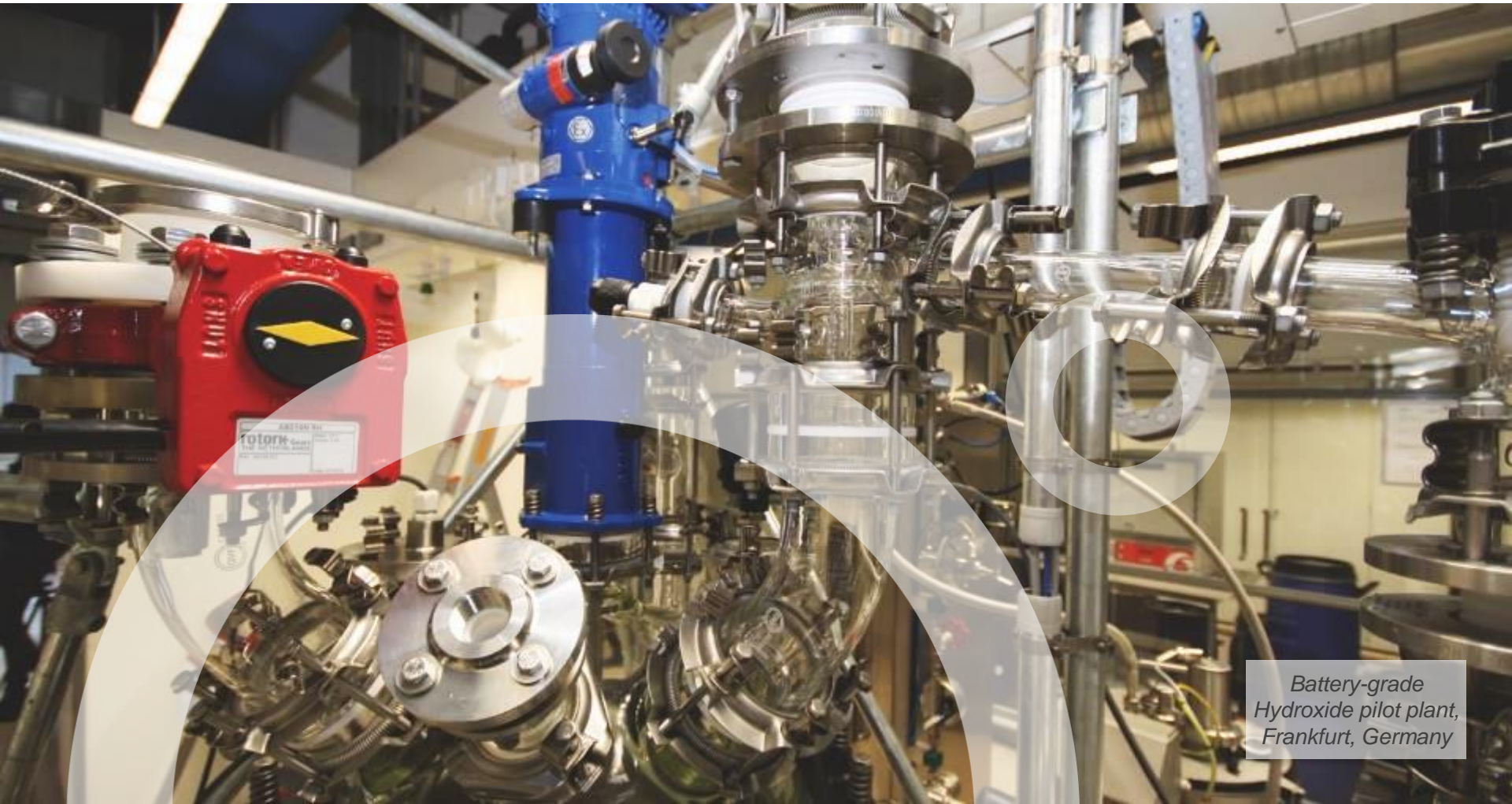
LITHIUM HYDROXIDE OFFTAKE ARRANGEMENTS

Existing offtakes/MoUs:



- AMG has signed a binding supply agreement with EcoPro for an initial three-year term to deliver a minimum of 5,000 tpa of battery-grade lithium hydroxide to EcoPro BM's cathode materials production plant in Debrecen, Hungary
- AMG executed an MoU with FREYR Battery for 3,000-5,000 tpa of battery-grade lithium
- Executed MoUs cover up to 100% of module #1 capacity
- Discussions with all key European Cathode Active Materials producing plants are ongoing

LITHIUM INDUSTRY OVERVIEW



*Battery-grade
Hydroxide pilot plant,
Frankfurt, Germany*

PUSH POLICIES ARE CREATING TAILWINDS FOR ELECTRIC VEHICLES...

United States

Up to \$7,500 grants for BEV purchases

United Kingdom

£3,000 for BEVs priced < £50,000

Spain

Up to €6,500 grant for BEV purchasers

France

€7,000 grant on the purchase of BEVs priced below €40,000 with €5,000 scrapping incentive

Norway

BEVs are not subject to an import tax or the 25% VAT on motor vehicles

Germany

€9,000 grant on the purchase of BEVs priced below €40,000







China

Up to ¥22,500 (~\$3,500) grant for BEVs

Italy

€6,000 BEV purchase incentive with an additional €4,000 if an ICE vehicle is scrapped

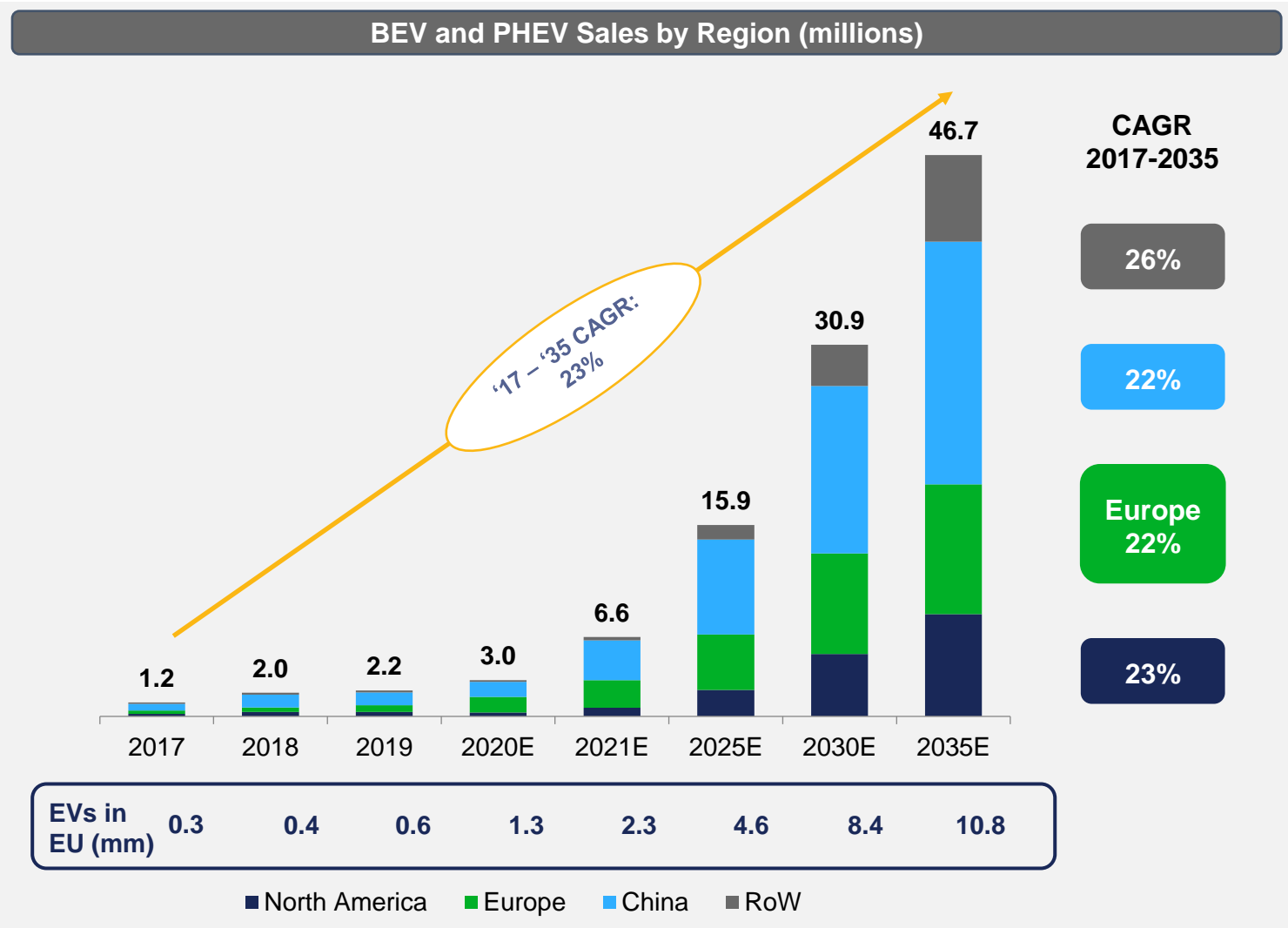
Automotive Manufacturers Have Identified Electric Vehicle Targets

Group	2020	2025	2030
DAIMLER	2%	50%	100%
 FORD	1%	na	100%
STELLANTIS	7%	na	100%
TESLA	100%	100%	100%
VOLVO	29%	50%	100%
 RENAULT NISSAN MITSUBISHI	16%	65%	100%
 VW	11%	30%	70%
 TATA	9%	30%	60%
BMW GROUP	17%	na	50%
 TOYOTA	5%	na	50%
 HYUNDAI	4% ⁽¹⁾	na	36%
Median	9%	50%	100%

[x%] OEM Announcements

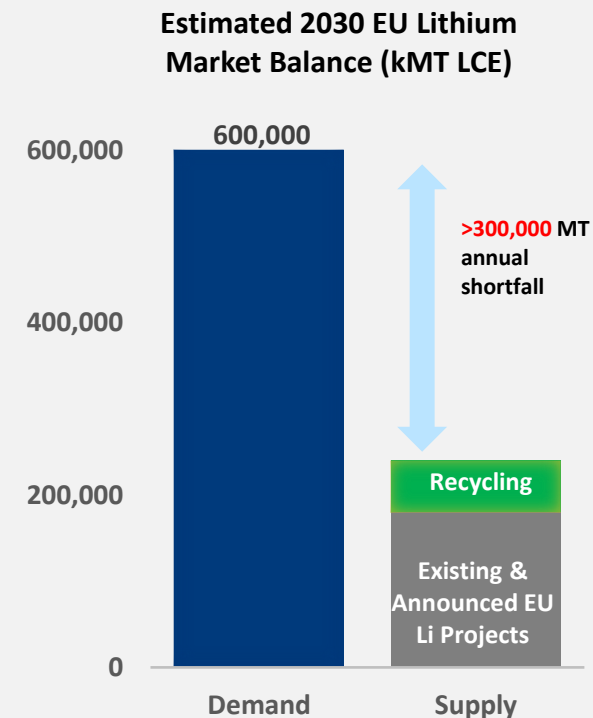
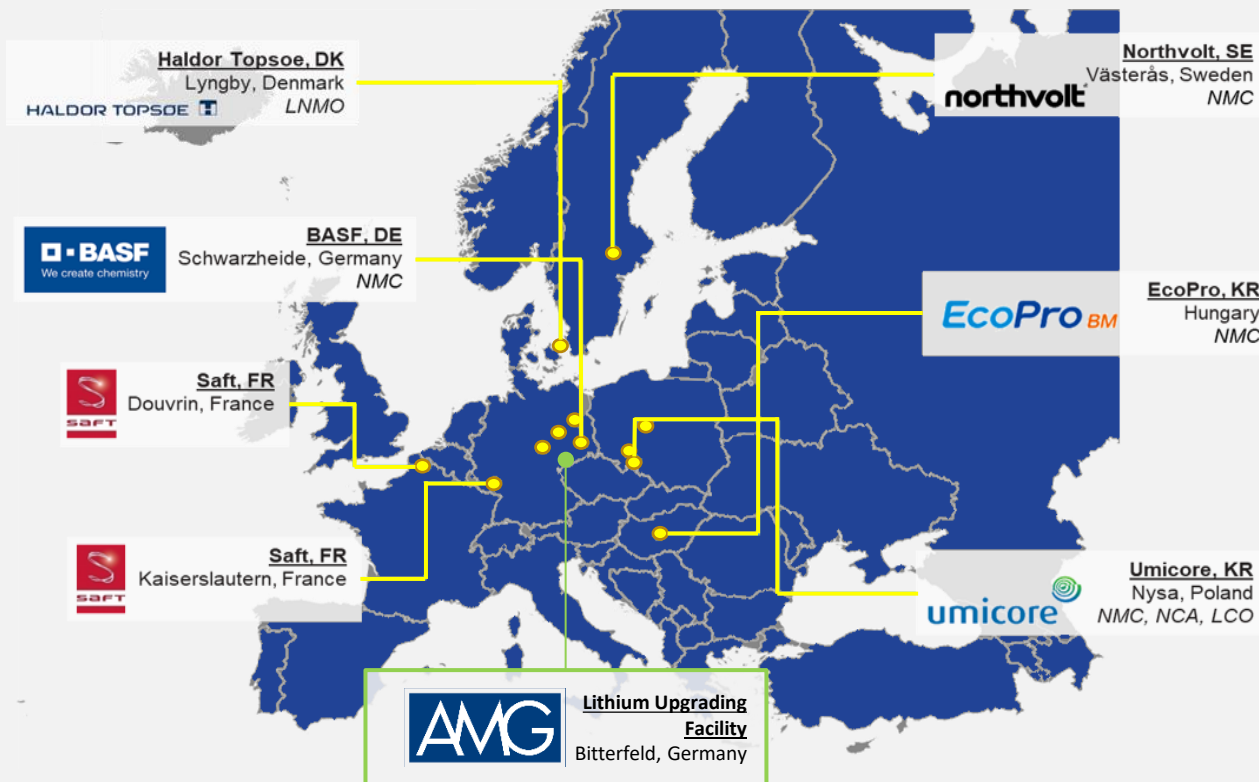
EUROPEAN EV PRODUCTION IS EXPECTED TO GROW 23% OVER THE NEXT DECADE

- In 2021 EVs accounted for nearly 1 in 20 passenger car sales (1 in 10 including hybrids)
- The European EV market grew significantly in recent years due to favorable government policies coupled with changing consumer attitudes
- The EU's recently-announced EV penetration target of 30 million+ cars by 2030 creates further upside
- Since 2015, the price gap between EVs and internal combustion engines (ICEs) has narrowed by ~65%, supporting higher EV adoption moving forward



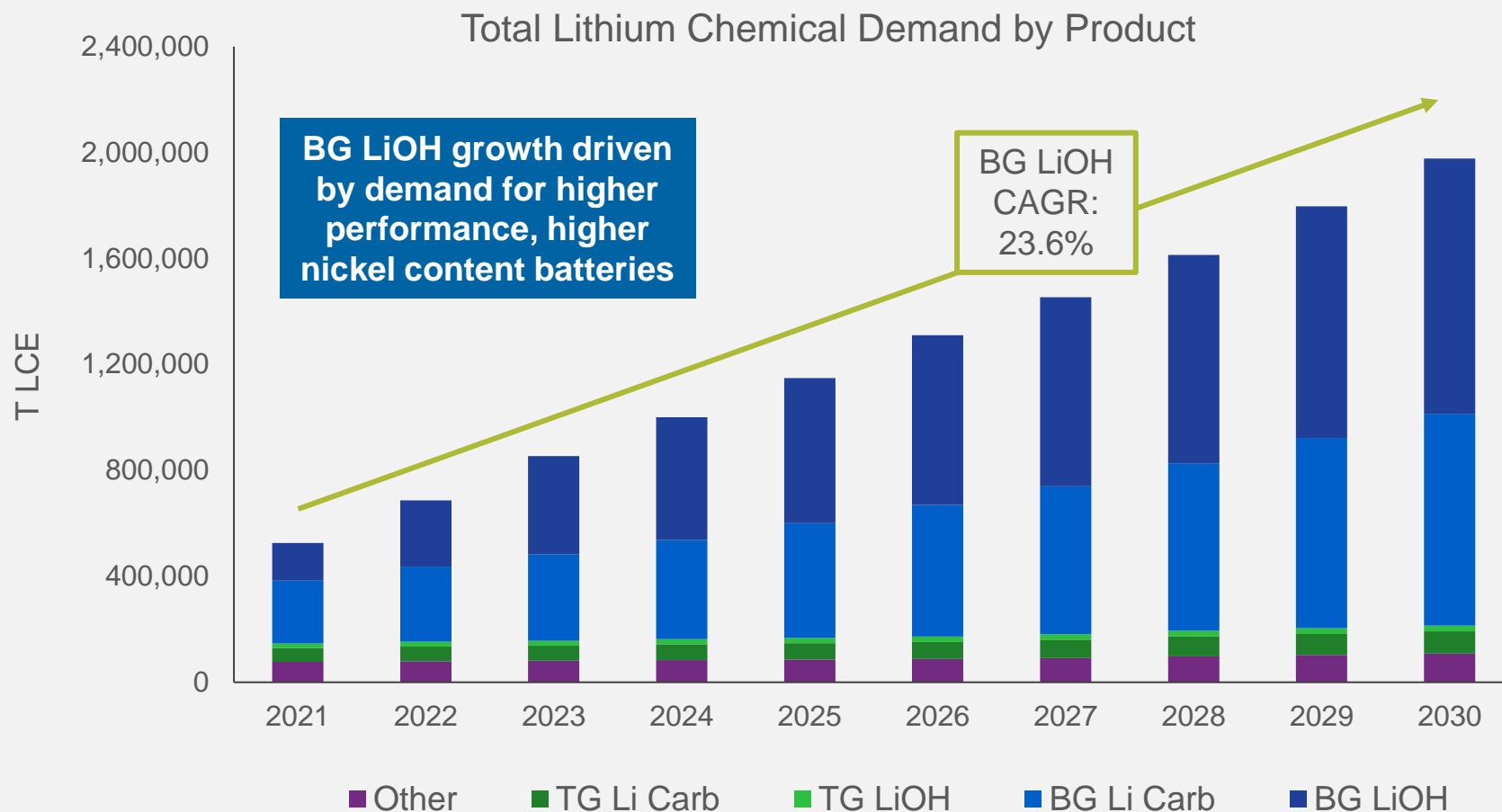
EU MARKET TO REQUIRE SIGNIFICANT AMOUNT OF BATTERY- GRADE LITHIUM HYDROXIDE

***AMG will be the first European battery-grade lithium hydroxide
producer serving the growing EU cathode material market...***



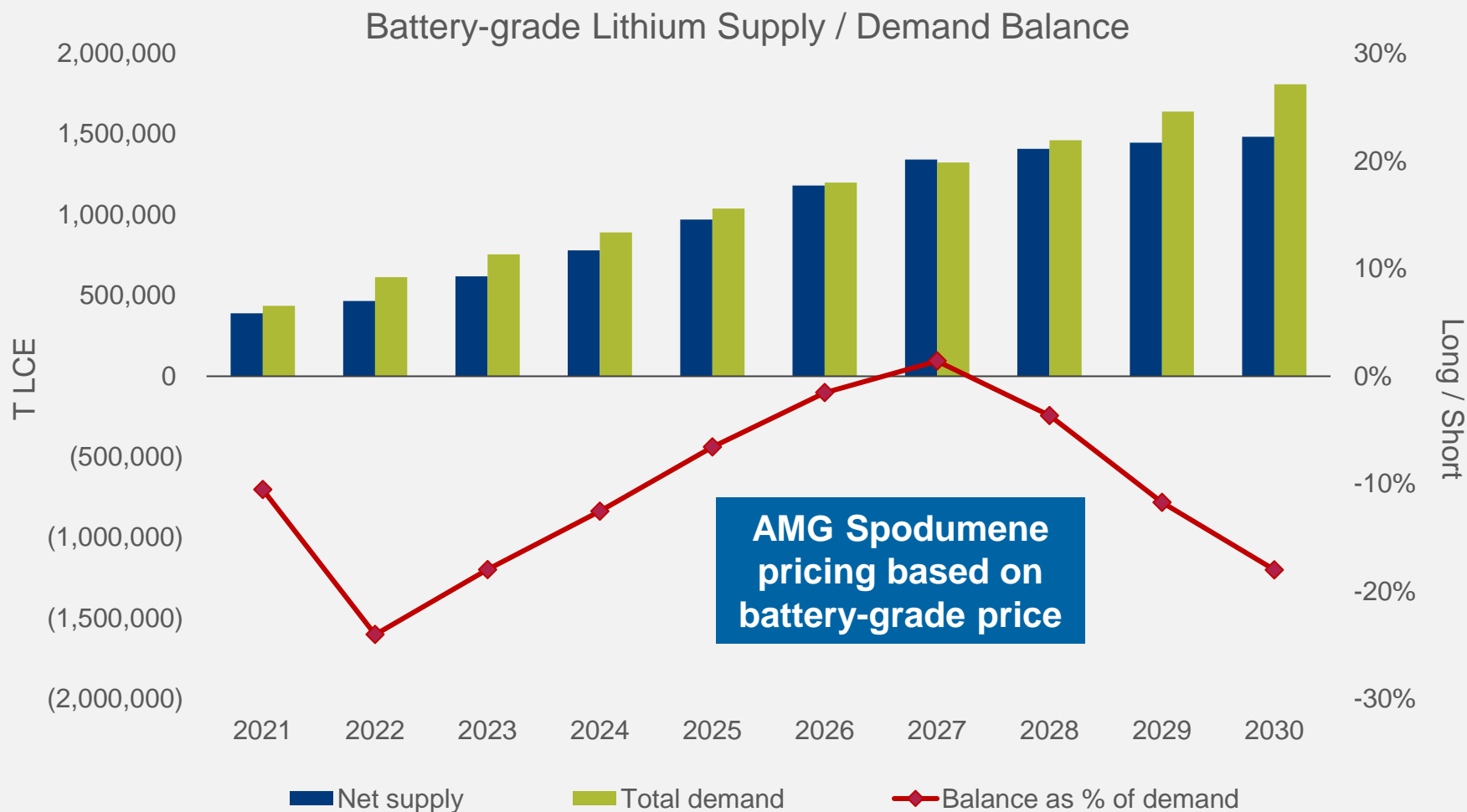
***...which is significantly
short by 2030***

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



AMG Lithium Bitterfeld plant focused on battery-grade hydroxide

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



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

AMG Spodumene Contract Components

**Component
I**

Average Index Spot Price¹:
(Lithium Carbonate + Lithium Hydroxide) / 2

**Component
II**

Total Cost =
Minimum Spodumene Price + Conversion Cost

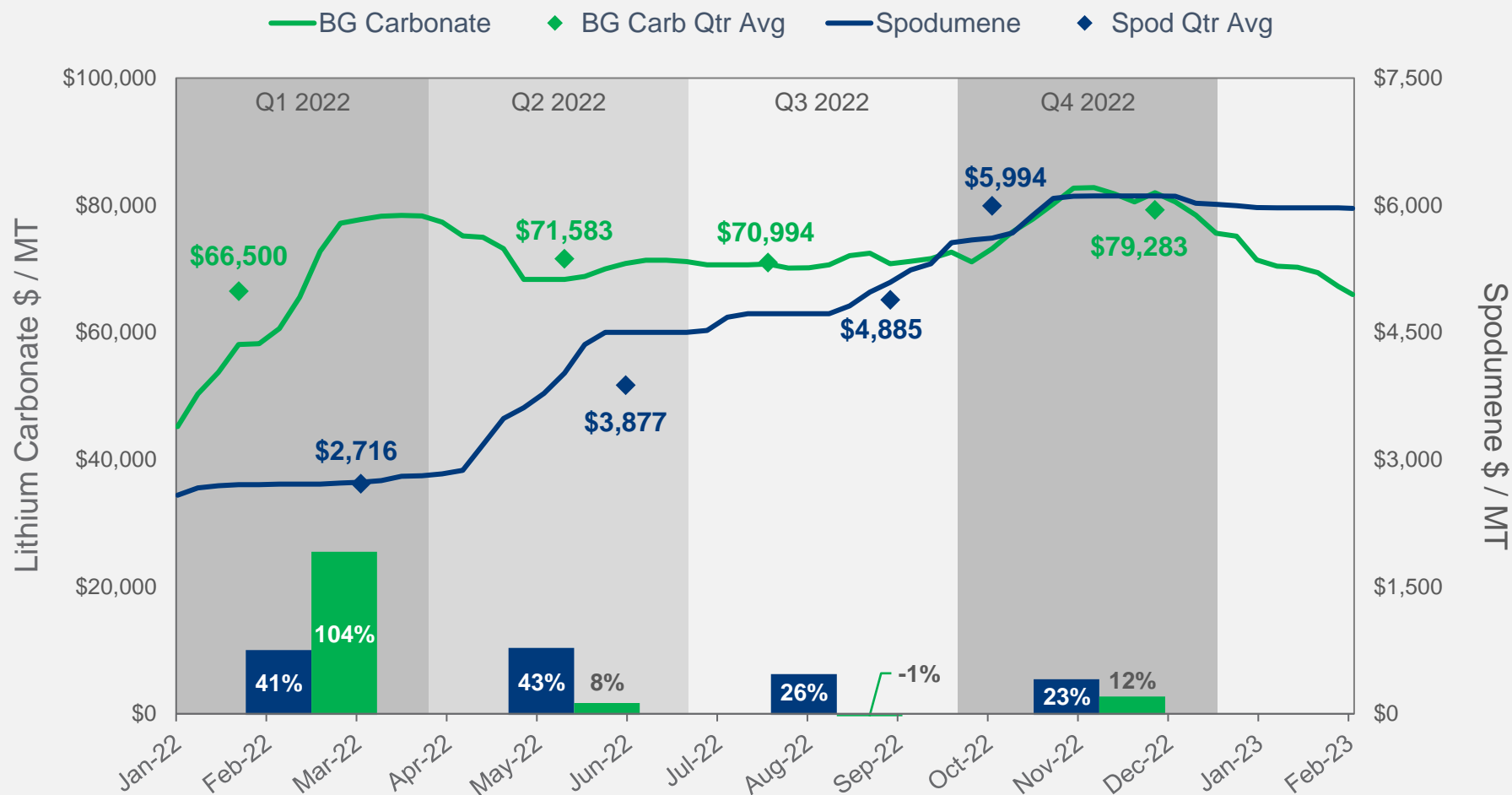
**AMG
Spodumene Price**

(I – II) % + Minimum Price

¹ Asian Metal Market spot price

LITHIUM CARBONATE VS SPODUMENE PRICES

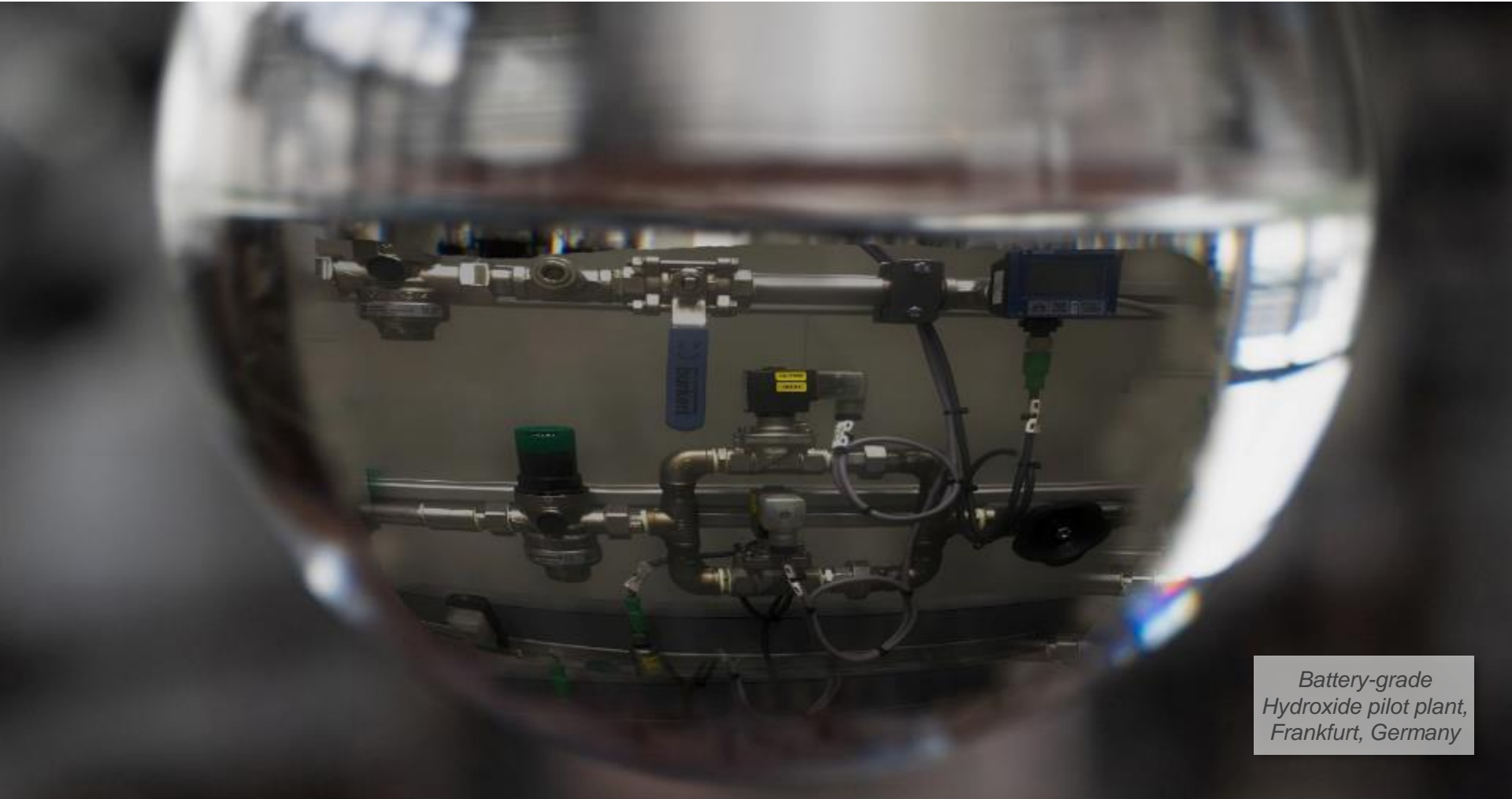
(ASIAN METAL MARKET SPOT)



Notes

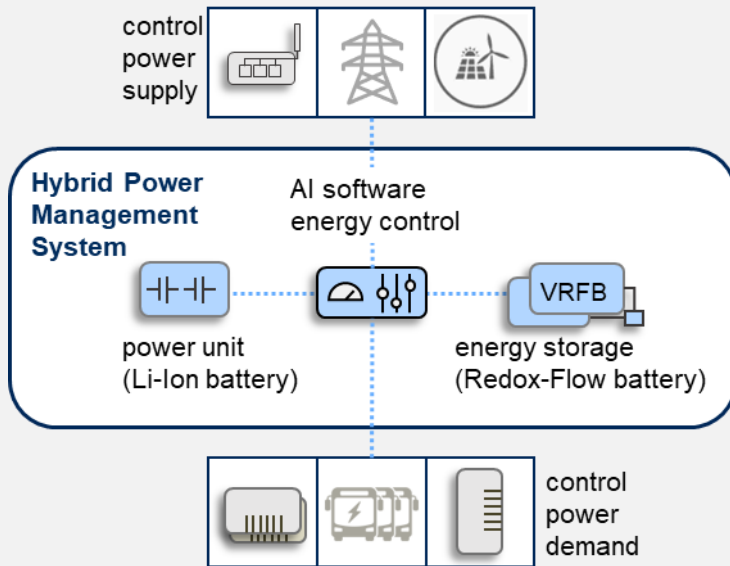
- Prices are shown as weekly averages taken over the period January 1, 2022, through February 15, 2023.
- Pricing Indexes: Asian Metal's Spodumene Li₂O 6%min CIF China USD/mt; and Asian Metal's Lithium Carbonate 99.5%min China RMB/mt, converted to \$/mt.

LITHIUM VANADIUM BATTERY (LIVA)



*Battery-grade
Hydroxide pilot plant,
Frankfurt, Germany*

THE AMG LITHIUM & VANADIUM BATTERY (LIVA)



VALUE CHAIN & CAPABILITIES OF AMG GROUP

