

AMG CRITICAL MATERIALS N.V.

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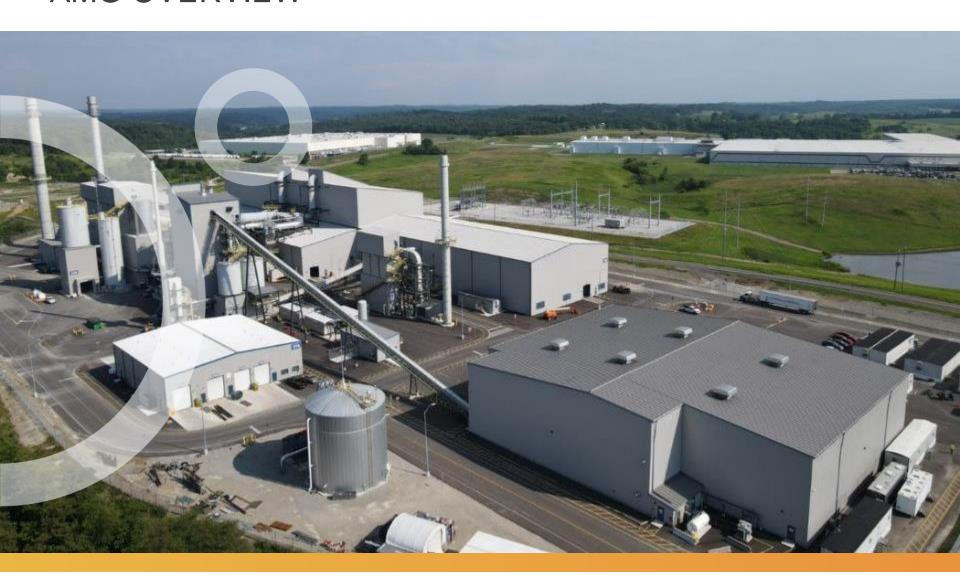
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AMG OVERVIEW



AMG: A CRITICAL MATERIALS COMPANY

GLOBAL TRENDS

CO₂ emission reduction, circular economy, population growth, increasing affluence, and energy efficiency

DEMAND

Innovative new products that promote CO_2 reduction, including materials with higher energy density and higher temperature resistance, as well as products that are lighter and stronger than competing materials

SUPPLY

AMG sources, upgrades, purifies, and supplies the critical minerals that the market demands



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

A GLOBAL IMPERATIVE FOR THE 21ST CENTURY

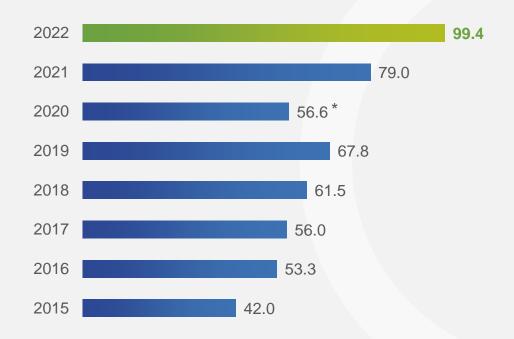
AMG: ENABLING TECHNOLOGIES

Products and processes saving CO₂ emissions during use (e.g., light-weighting and fuel efficiency in the aerospace and automotive industries)

AMG: MITIGATING TECHNOLOGIES

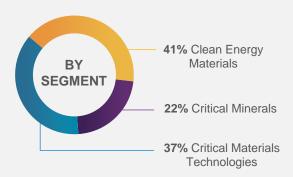
Products and processes saving raw minerals, energy and CO₂ emissions during manufacturing (e.g., recycling of ferrovanadium)

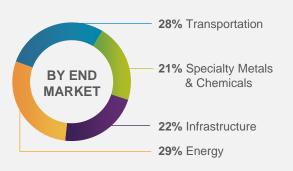
AMG'S ENABLED CO₂ EMISSION REDUCTIONS (Million MT)

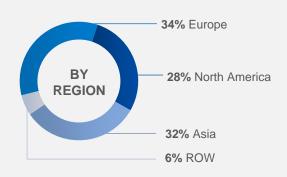


AMG AT A GLANCE

FY 2022 REVENUE







AMG IS A
GLOBAL SUPPLIER
OF CRITICAL
MATERIALS TO:









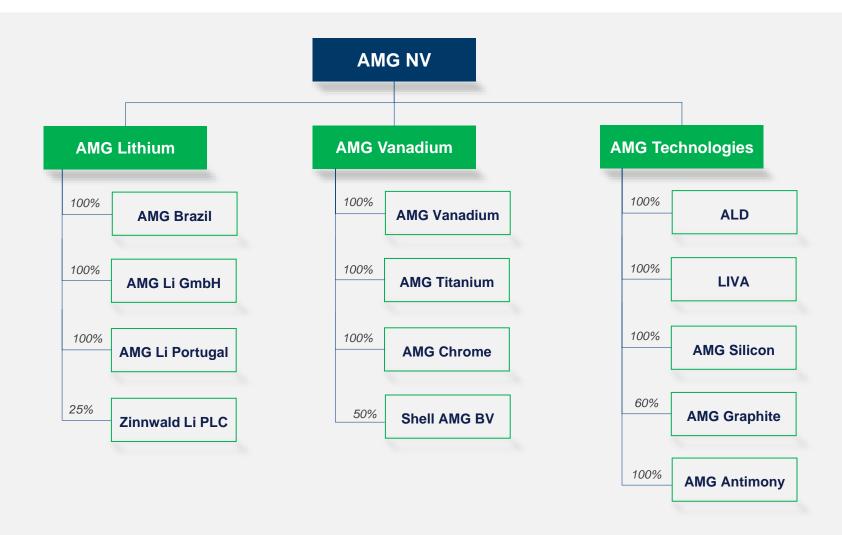
Market leading producer of critical materials and related process technologies

~3,400 Employees

~\$1.6 billionAnnual Revenues

At the forefront of CO₂ Reduction

AMG NEW BUSINESS SEGMENTS



STRONG FUNDAMENTALS, ADAPTIVE TO GLOBAL DISRUPTION

OPTIMIZED CAPITAL STRUCTURE

- In November 2021, AMG entered into a new \$350 million 7-year senior secured term loan B facility ("term loan") and a \$200 million 5-year senior secured revolving credit facility ("revolver"). The total facility amount of \$550 million replaced AMG's prior credit facility and extended the term loan maturity from 2025 to 2028 and revolver maturity from 2023 to 2026.
- AMG Engineering entered into €140 million of long-term bilateral unsecured performance-based guarantee facility agreements in January 2022, which replace the existing ones.
- On July 11, 2019, the Company entered into a \$307 million 30-year term municipal bond which
 finances 100% of the ferrovanadium expansion in Zanesville, Ohio. The bond has a coupon rate of
 5.0% and matures on July 1, 2049.

BUSINESS RESILIENCE

- Focus on operational efficiency
- Reduction of operating costs and capital expenditures
- Momentum on positive business gains, strong backlogs into early 2023

DISCIPLINED APPROACH TO GROWTH

- AMG Brazil's spodumene production expansion will solidify AMG's low-cost position
- AMG Lithium's refinery, under construction in Germany, is Europe's first lithium hydroxide refinery
- New vanadium spent catalyst recycling facility in Ohio is a clear manifestation of AMG's industry leadership in the recycling of hazardous refinery waste globally
- The fundamental positions of our businesses are sound, and AMG remains focused on disciplined, sustainable growth

STRATEGY

AMG's strategy is to build its critical materials business through industry consolidation, process innovation and product development

EXPANSION OF EXISTING HIGH-GROWTH BUSINESSES

Pursue opportunities in high-growth areas within the existing product portfolio

PROCESS INNOVATION & PRODUCT DEVELOPMENT

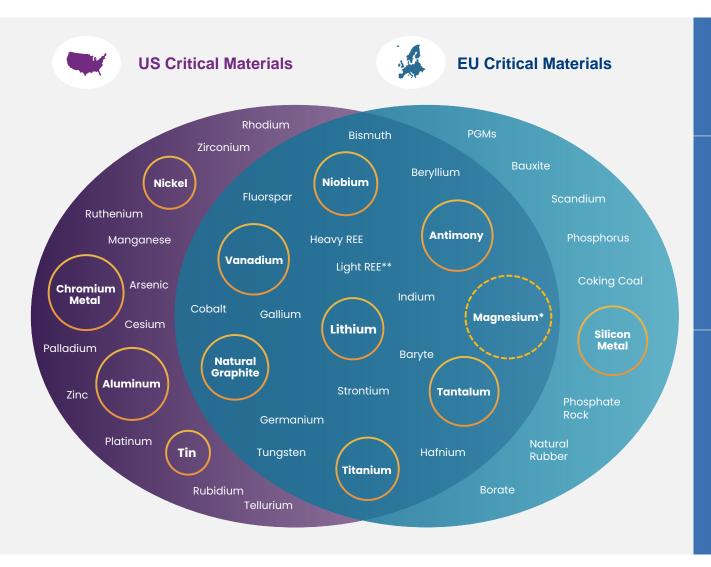
Continue to focus on process innovation and product development to improve the market position of AMG's businesses

INDUSTRY CONSOLIDATION

Pursue opportunities for horizontal and vertical industry consolidation across AMG's critical materials portfolio

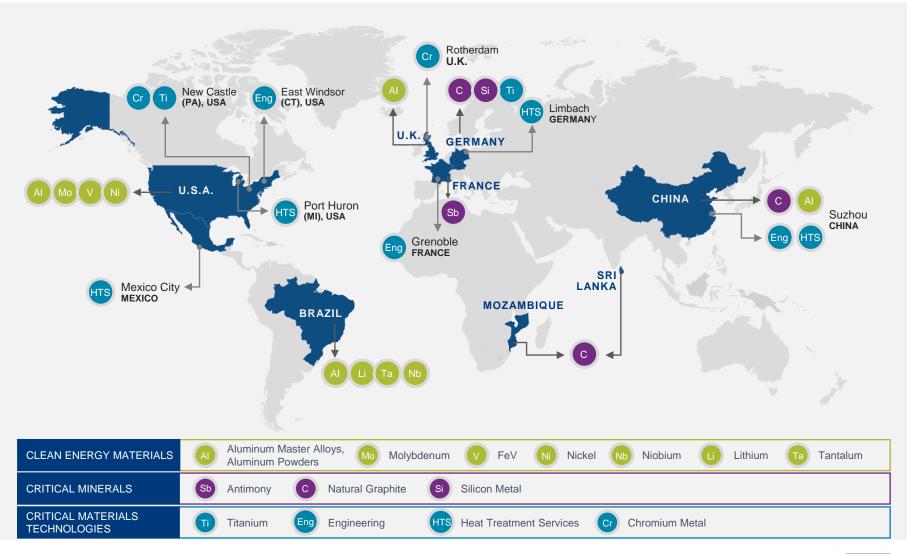
 AMG's overriding strategic objective is to achieve industry leadership while being the low-cost producer

CRITICAL RAW MATERIALS: AMG PRESENCE



- AMG has a
 unique critical
 materials portfolio
 comprised of
 9 EU critical
 materials and
 12 US critical
 materials
- The EU identifies 30 total critical raw materials, the US 50**

AMG GLOBAL FOOTPRINT



HEALTH AND SAFETY



YTD Sept 2023 results demonstrate a 13% increase in lost time rate and an 5% increase in total incident rate from 2022 year-end. As a benchmark, the most recent NAICS primary metal producer lost time incident rate for was 1.2 and the recordable rate was 4.1.

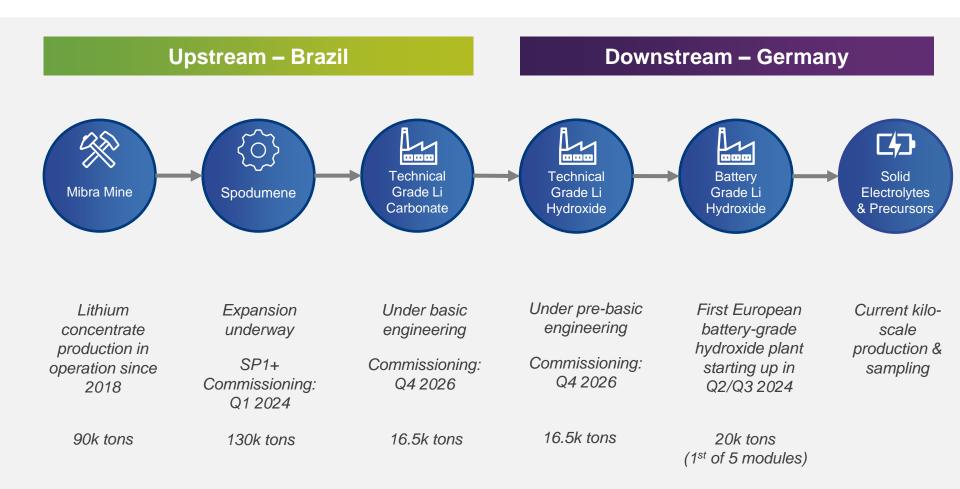
AMG LITHIUM



AMG LITHIUM

	Mine in Brazil, from 90 ktpy to 130 ktpy
	Experienced Lithium team
AMG Lithium Ground Base	 Commissioning first European 20 ktpy Battery Grade Lithium Hydroxide (LiOH BG) refinery in Germany
	 Further investments in Lithium Modules in Europe, up to 100 ktpy
	State-of-the-art Lithium R&D lab
	Vertical value chain integration ongoing
	 Development and upscaling of All Solid-State Battery materials
O AMG Lithium Strategy	 We seek to engage with strategic partners on the resource side and thereby bring upstream and downstream value to the European EV supply chain.
	First Refinery in Europe and access to European EV battery market
──○ Why AMG Lithium	 Downstream know-how to shorten time to market and technical risk reduction
	Access to EU and German backed financing
	 AMG focus on CO₂ reduction

AMG LITHIUM HAS A SIGNIFICANT FIRST MOVER ADVANTAGE IN EUROPE



From mining through to next generation lithium products

THE MIBRA MINE, BRAZIL



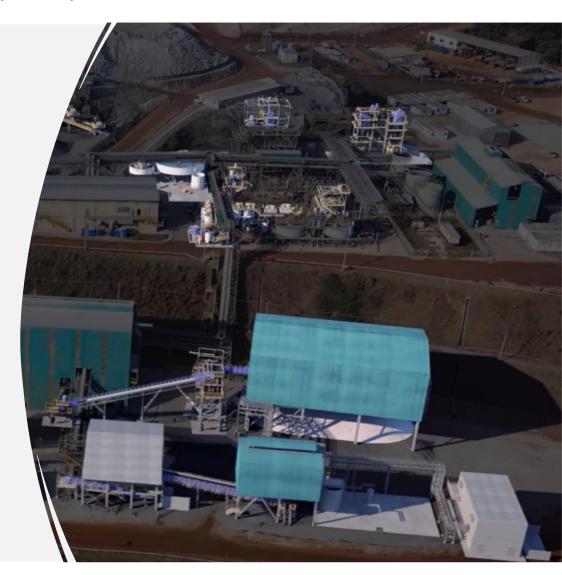
AMG IS A LOW-COST SPODUMENE PRODUCER

\$468/mt YTD September 2023 cost per ton delivered to China, net of tantalum, feldspar and tin by-product credits

- The Mibra mine is a long-term tantalum concentrate producer and is the largest conflict-free producer of tantalum in the world
- Mibra's tantalum production will expand to 370K pounds per year, in combination with the spodumene expansion
- Life-of-mine strategic partnership with JX Nippon Mining & Metals Corporation for 100% of the tantalum concentrate production
- 2024 cost per ton will be negatively impacted by ramp-up costs as well as lower tantalum volumes relative to spodumene volumes, as the tantalum expansion does not start up until 2025.
- The expansion of the Spodumene plant not only delivers higher output, but also operational improvements and therefore a more robust and effective production

SPODUMENE EXPANSION (SP1+)

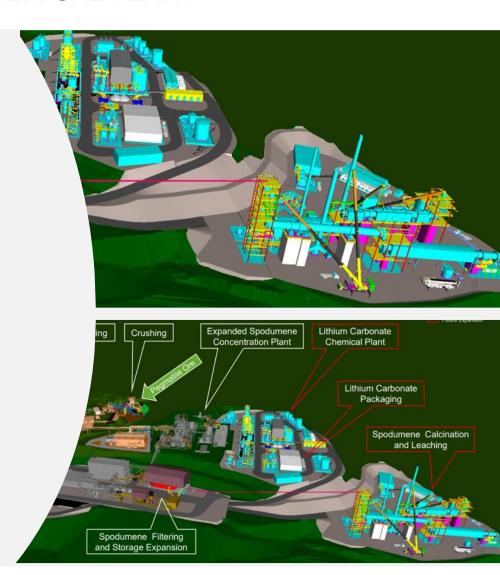
- Increase production capacity 45% to 130k mt per year
- Focus on process optimization to improve lithium metallurgical recovery
- Enhanced robustness to address naturally occurring mine variations
- Reduce material handling downtime
- The three-week shutdown of the lithium concentrate plant to facilitate the expansion from 90,000 tons to 130,000 tons will take place in Q1 2024
- We expect the full run rate to 130,000 tons will begin in Q3 2024



TECHNICAL GRADE LITHIUM CHEMICAL PLANT

Preliminary Estimates

- Investment: \$300M
- Commissioning: End of 2026
- Capacity: 16.5k mt Technical Grade Lithium Carbonate per annum
- Delivered cost to Germany less than \$10,000 /mt; assuming spodumene at cost for conversion in Brazil
- TG Lithium Carbonate from Brazil vs Upgrading in China results in annual freight savings of ~\$15M and ~90k mt reduction in CO2



AMG BRAZIL'S MIBRA MINE IS A LEADER IN SUSTAINABILITY PRACTICES

Lost Time Rate and Recordable Rate

Across all Brazil sites, Lost Time Rate of 0.00* and Recordable Rate of 0.17* compare favorably to Bureau of Labor Statistics Industry Benchmarks

Contribution to a Sustainable Word

In 2021, AMG Brazil was awarded a Recognition on Good Suppliers Practices Prize from Novelis

Energy Self Sufficient

In 2022, AMG's owned hydroelectricity plant produced 18.2 GWh to cover 48% of our total power needs

CO₂ Footprint Reduction

Preserving the environment is part of the essence of AMG Brazil which, with its production, contributes globally to the reduction of CO₂ emissions





SHOWCASING AMG BRAZIL'S LOCAL COMMUNITY

Local culture, building a relationship of trust and mutual respect, and hiring locally are AMG priorities

- More than 70% of employees in Brazil operations are local hires
- The Young Apprentice Program, a partnership with SENAI, Nacional Service of Industrial Learning, is an internship based on the commitment of local labor development and professional possibilities
- Partnerships with local universities focusing on personal and professional development of young people and adults entering the job market
- Since 2015, AMG Brazil has trained more than 70 individuals for the job market, directly hiring almost 40%





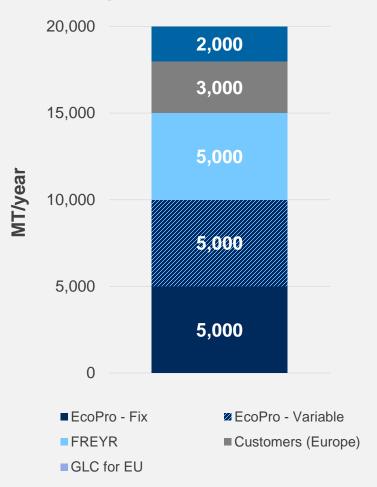
LITHIUM HYDROXIDE BATTERY-GRADE REFINERY BITTERFELD, GERMANY



- Production of highlyrefined, battery-grade Lithium hydroxide
- Module 1 with 20,000 MT/yr capacity, further modules up to 100,000 MT/yr in total
- Located in Bitterfeld,
 Germany: access to
 all required energies
 and infrastructure
- Commissioning began in November 2023
- USD 150 million
 expenditures on time
 and on budget

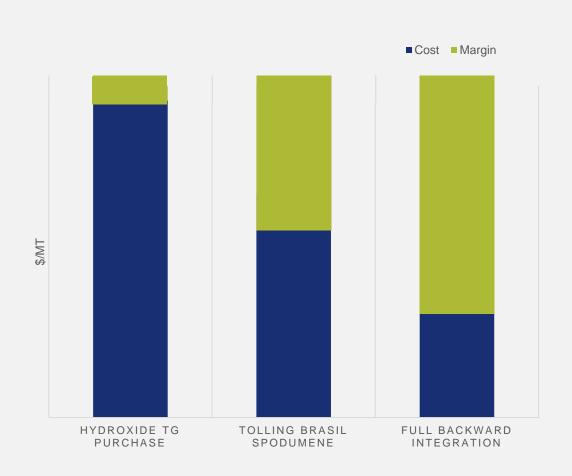
MODULE 1: LITHIUM HYDROXIDE OFFTAKE

Existing offtakes at runrate 2025



- AMG has signed a binding supply agreement with Korean EcoPro for an initial three-year term to deliver a binding 5,000 MT/yr plus an optional 5,000 MT/yr to EcoPro BM's CAMfacility in Debrecen-Hungary.
- AMG executed a MOU with FREYR for an offtake of up to 5,000 MT/yr.
- AMG executed further MOUs with different customers.
- AMG has an agreement in place with General Lithium for an offtake of up to 2,000 MT/yr for their EU needs.

INDICATIVE MARGIN DEVELOPMENT TO A FULLY BACKWARD INTEGRATED LITHIUM COMPANY



Technical Grade Purchase:

Represents the margin of the Bitterfeld plant assuming the open market purchase of technical grade hydroxide.

Tolling Brazil Spodumene:

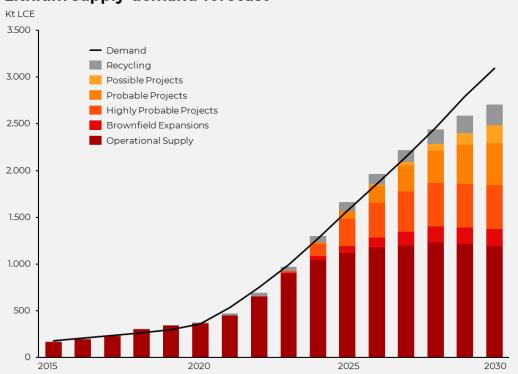
Represents the margin available to Bitterfeld via tolling Brazil spodumene in China and delivering technical grade hydroxide to Germany.

Full Integration:

Represents the delivery of technical grade carbonate to Germany direct from the Brazilian technical-grade plant.

BIG INVESTMENTS ON NEW SUPPLY IS REQUIRED TO MEET DEMAND

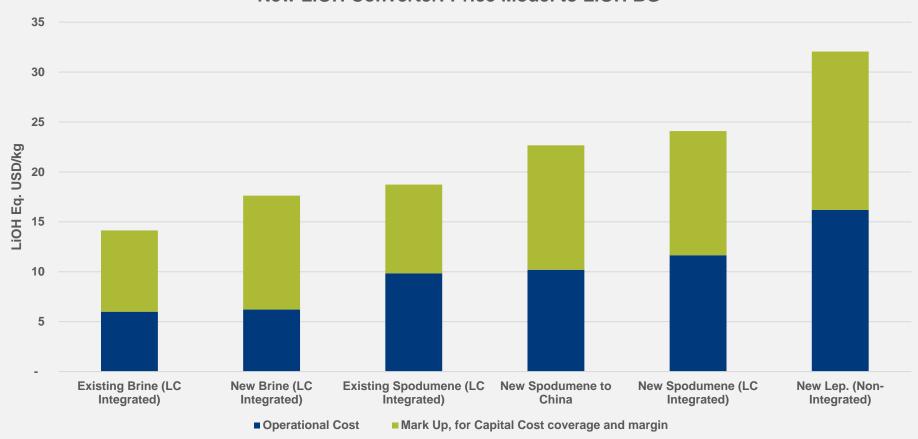
Lithium supply-demand forecast



- There is no significant oversupply to be expected in this decade, especially not in the next five years. The surpluses and deficits are marginal and should not lead to low prices automatically.
- In 2023 the supply increase was driven by brownfield expansions.
- Going forward, incremental supply will come from new greenfield projects.
- Ongoing uncertainty on direct lithium extraction and African projects coming to market
- Currently the investment sentiment around finalizing and funding new resource projects is very poor.
- The pace of starting up new supply is highly dependent on Lithium market prices.

LIOH COST AND PRICE ANALYSIS

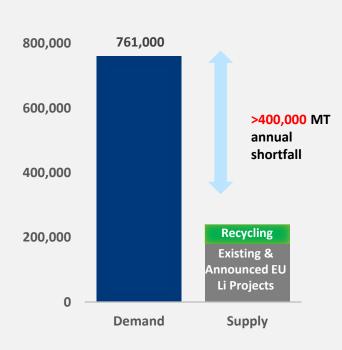




Source: AMG Lithium internal Q4 2023, considering, IRR: 20%.

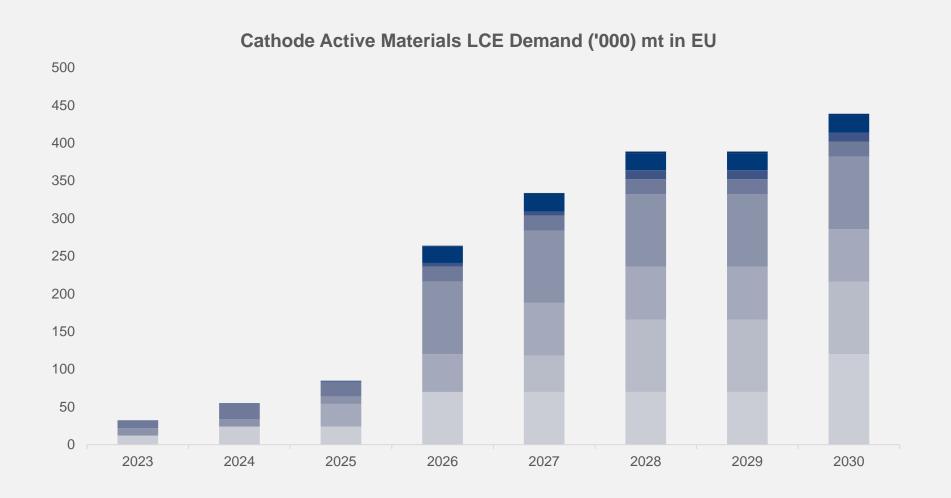
WHY EUROPE? EU REQUIRES LARGE VOLUMES LITHIUM HYDROXIDE BG

Estimated 2030 EU Lithium Market Balance (kMT LCE)* Total EV Demand

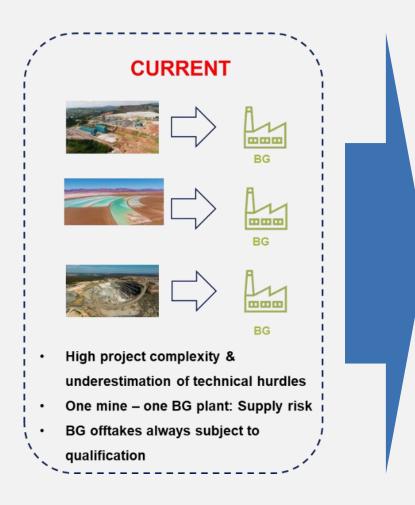


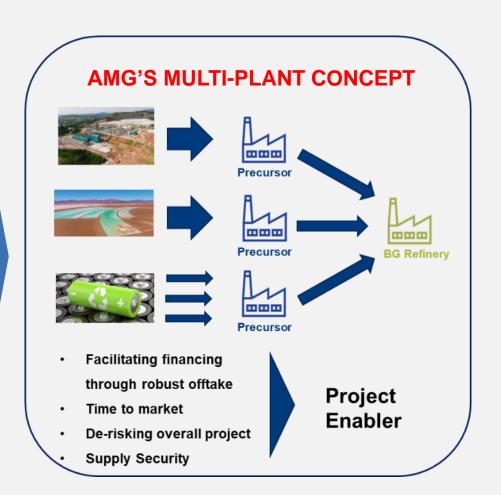


ANNOUNCED CATHODE ACTIVE MATERIALS PRODUCTION AND PROJECTS SITES IN EUROPE

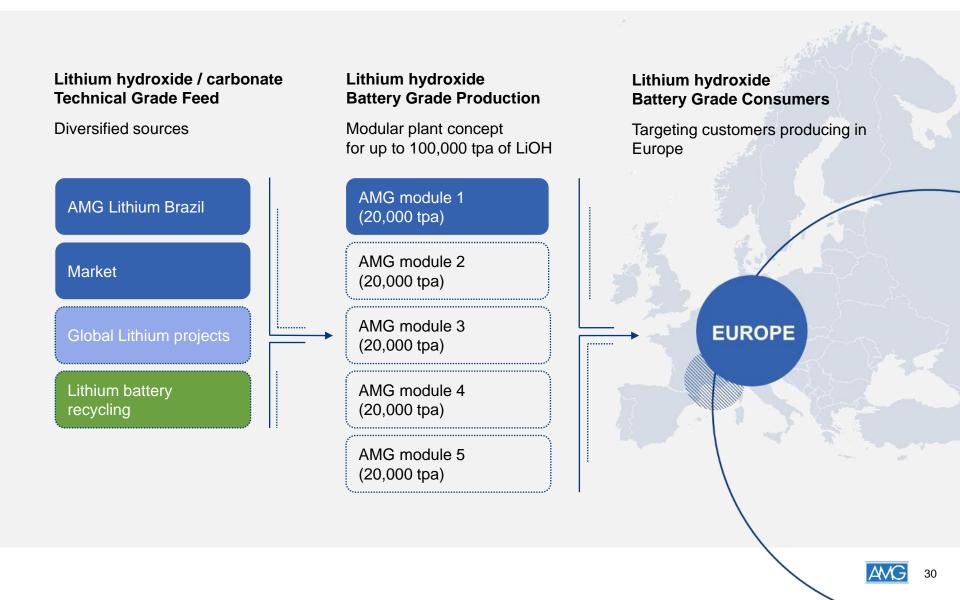


GAME CHANGER: AMG MULTI-PLANT CONCEPT





AMG LITHIUM DOWNSTREAM GROWTH STRATEGY



AMG'S RESOURCE DEVELOPMENT STRATEGY

AMG Resource Development as a Strategic Partner Exploration, Mining and Spodumene Concentrate know-how Engineering / Project Management Long-Term Offtake contracts (with or without KfW) Project Financing / Equity **Equity participation** Further integration to Mid and Down stream production

- AMG is engaging in resource projects to grow the Lithium story in Germany
- AMG approach is a combination of Equity, Debt Financing and Technical Support when needed, in exchange of a long-term offtake agreements

LAGOA: AMG BRAZIL SIGNS MOU FOR DEVELOPMENT OF LITHIUM CONCENTRATE PRODUCTION

Lagoa

- Location: Portugal.
- Production:
 Est. 150K mt/year
 spodumene concentrate

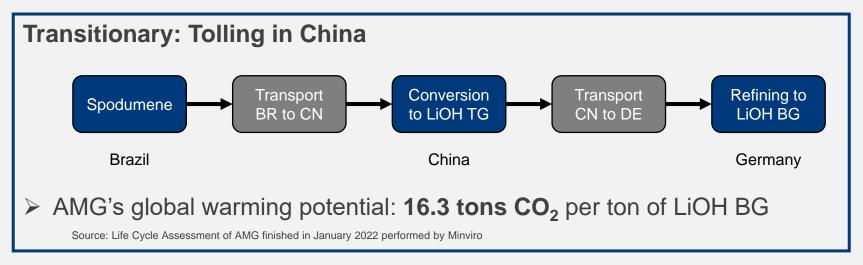
- Located in Northern Portugal, next to the Savannah Lithium Project
- AMG signed an MoU with Grupo Lagoa to concentrate lithium minerals to Spodumene Concentrate
- The partnership intends to concentrate the lithium minerals contained in the pegmatite to produce commercial-grade lithium concentrate
- From present data, we conclude the plant will confirm the main assumptions for the construction of a 150,000-ton lithium concentrate plant at the site
- AMG Brazil's project with Grupo Lagoa will begin basic engineering in December 2023
- AMG has performed comprehensive metallurgical tests on a laboratory scale and confirmed a viable mineral processing route to convert a representative sample of 1.1% Li₂O yielding an output of 5.6% Li₂O at 15.5% mass recovery and 76.2% metallurgical recovery
- Additional geological studies are being conducted to confirm present estimates of the size and quality of the resources.

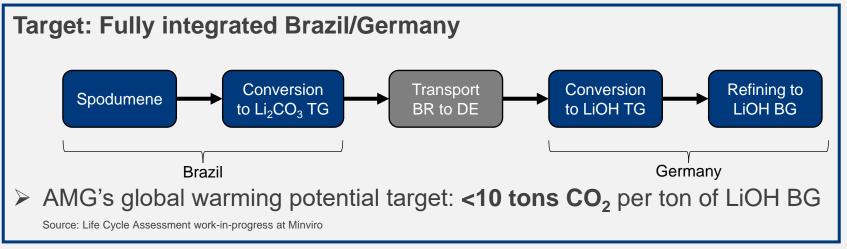
ZINNWALD LITHIUM: AMG'S 25% SHAREHOLDING

Zinnwald

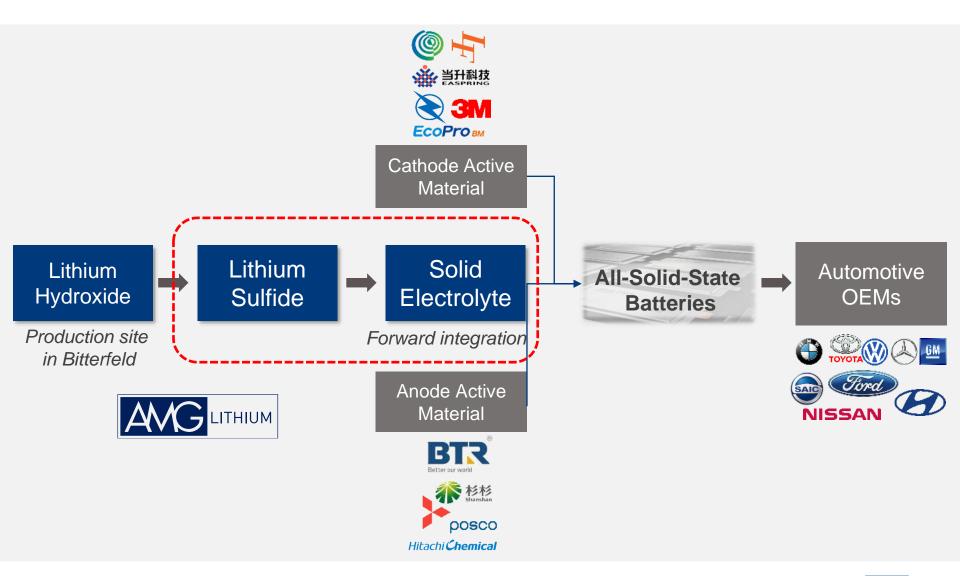
- Location: Germany.
- Production: Est. 12k mt/year of LiOH
- In March 2023, AMG became a 25% shareholder of Zinnwald and is supporting the Zinnwald Board to accelerate the development of its lithium project in Eastern Germany
- Zinnwald's integrated operation planned to produce battery grade LiOH
- A brownfield project with core mining license valid until 2047
- Situated in the east of Germany on the border with the Czech Republic
- Preliminary economic assessment published September 2022
- Plan to produce ~12ktpa of LiOH with on-site processing
- Revised mining concept that will take advantage of existing infrastructure
- Mine life of >35 years
- There are potential synergies with other AMG Lithium activities

AMG'S SUPPLY CHAIN ROUTES & CO2 FOOTPRINT

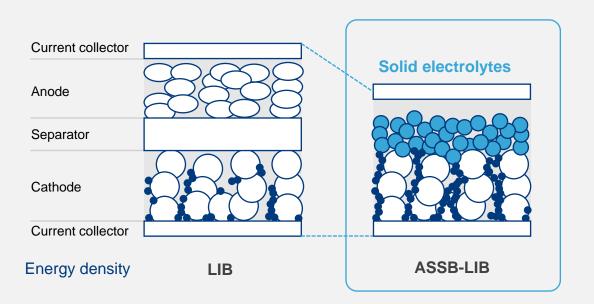


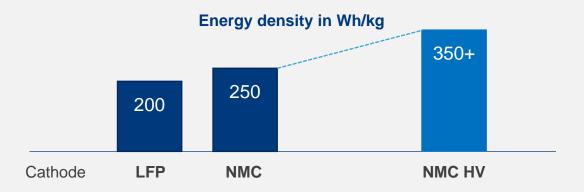


AMG LITHIUM FORWARD INTEGRATION IN THE VALUE CHAIN



NEXT GENERATION AUTOMOTIVE BATTERY TECHNOLOGY: ALL-SOLID-STATE BATTERIES (ASSB)





Application & Market:

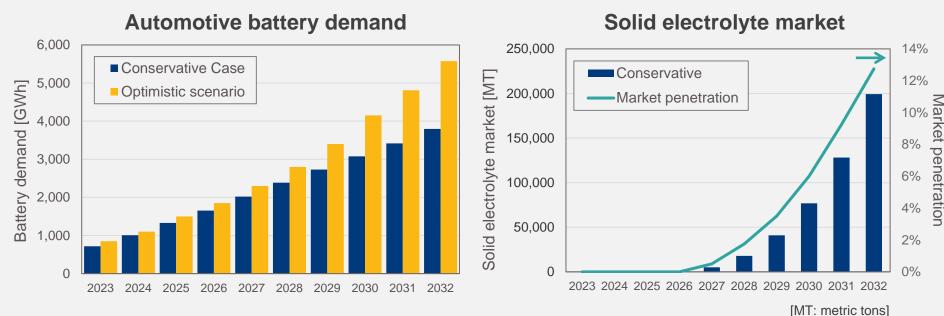
- All-Solid-State batteries (ASSB) are next step in automotive battery technology
- Energy density of ASSBs significantly increased compared to state-of-the-art Li-ion batteries; higher energy density allows for more capacity in the same installation space and therefore for longer driving ranges
- ASSBs facilitate faster charging rates and increased operational life

Technology:

- Solid electrolytes are critical performance components to reach energy density and safety targets.
- Solid electrolytes and precursors (lithium sulfide) are key compounds regarding quality and product availability of ASSBs.

NEXT GENERATION AUTOMOTIVE BATTERY TECHNOLOGY: ALL-SOLID-STATE BATTERIES (ASSB)

Sources: SolidPower (2023); Avicenne (2021); Roland Berger (2022); HSBC (2021)



Application & Market:

- Forecasts estimate 5-7% market penetration in 2030 (total market of ~5.000 GWh)
- EV market forecast indicates large growth potential on long-term view 2030+

Current activities:

- Samsung is currently commissioning a 1 GWh pilot production line
- Toyota and Idemitsu entered cooperation; CATL to supply Chinese automotive OEMs from 2028 onwards
- BMW placed investment in Solid Power (20 mio €), VW in Quantumscape (100 mio €)

VALUE CREATION: FROM MINE TO BATTERY COMPONENTS

Lithium Raw Material



Lithium Hydroxide



Solid Electrolyte

FORWARD INTEGRATION



AMG-owned Lithium resource in Brazil:

Mibra mine

Lithium Hydroxide

"Battery Grade"

production in Bitterfeld

(SOP Q2/Q3 2024)

Process development and up-scaling projects

Pilot line engineering

Component development projects on-going

Close cooperation with industrial and academic partners

Target customers: cell manufacturers and automotive OEMs

Forward integration to cell manufacturing out of scope





Two product lines developed: Lithium Sulfide and Solid Electrolytes

GLOBAL CUSTOMER ACTIVITIES

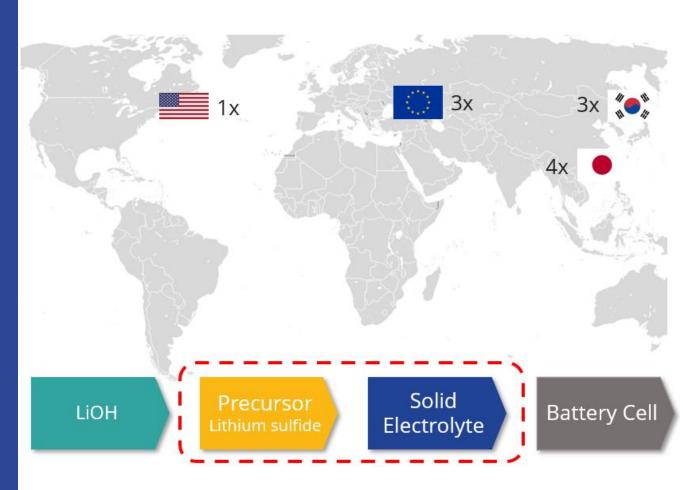
Current Status:

Projects with customers in:

- Europe (3x): development projects & evaluation
- USA (1x): qualification
- Japan (4x): qualification & evaluation projects
- Korea (3x): sampling / evaluation

Our position:

- AMG Lithium is technology enabler
- Position as development partner and prospective material supplier; ramp-up schedule aligned to accommodate evaluation and qualification projects at customers' site.
- Backward integrated technology leader to Lithium source and precursors for solid electrolyte production



ALL-SOLID-STATE BATTERY ACTIVITIES – A GLOBAL LEADER

Advanced Technology & Processing:

- High performance materials with a broad variety of modifications
- Flexible process technology to accommodate customized solutions

Decades of experience of the technical and commercial teams:

- Team members with more than 10 years expertise in the field of solid electrolyte and battery materials
- Pioneers in Argyrodite and Lithium Sulfide development
- Strong technical background based on early decision for sulfidic materials

Excellent position in customer network:

- Global network with automotive OEMs
- Close cooperation with leading players

Secured material streams:

- Backward integrated to Lithium mine, control of precursor materials
- Close cooperation with base material suppliers
- Fully qualified sourcing with secured, long-term supply streams

APPENDIX



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

AMG Spodumene Contract Components

Component

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

Component II

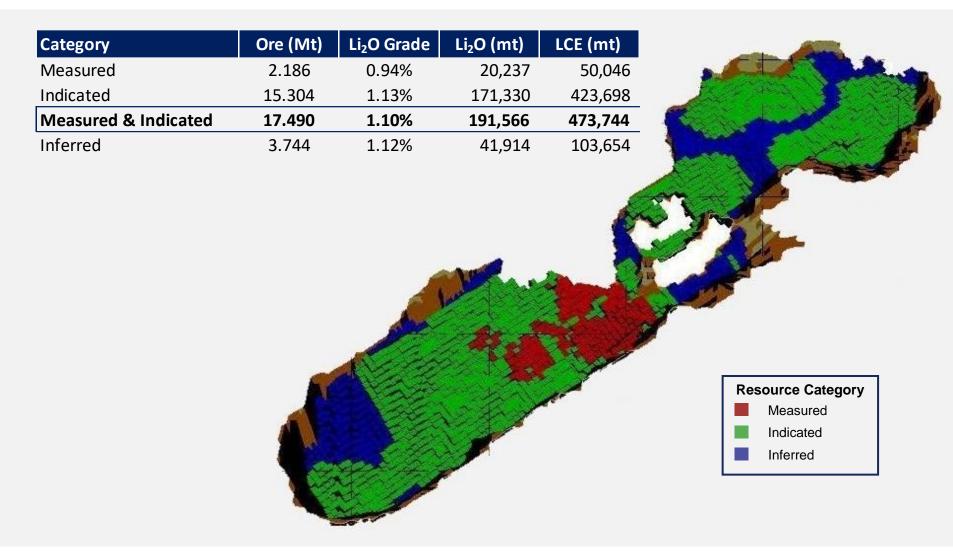
Total Cost =

Minimum Spodumene Price + Conversion Cost

AMG Spodumene Price

(I – II) % + Minimum Price

MIBRA RESOURCE - 2021





This announcement appears as a matter of record.

LITHIUM HYDROXIDE – BITTERFELD, GERMANY



AMG's LAW:

"Everything that can be recycled will be recycled."

AMG Critical Materials N.V.



LIVA BATTERY

LITHIUM TAILINGS

ENGINEERING - HANAU, GERMANY

MELTSHOP - ZANESVILLE, OHIO