

INTELLIGENCE IN LITHIUM

Lithium is among the most vital of the critical materials globally in terms of fighting climate change: The market for lithium is growing rapidly, driven by a strong demand for electric vehicles (EVs), robust growth in smartphones, tablets, and wearables and the rising need for renewable energy (grid storage). In addition to demand for lithium for batteries, non-battery demand includes a wide variety of applications, including the life sciences, ceramics, coolants and specialty chemicals fields.

A SIGNIFICANT FIRST MOVER ADVANTAGE IN EUROPE



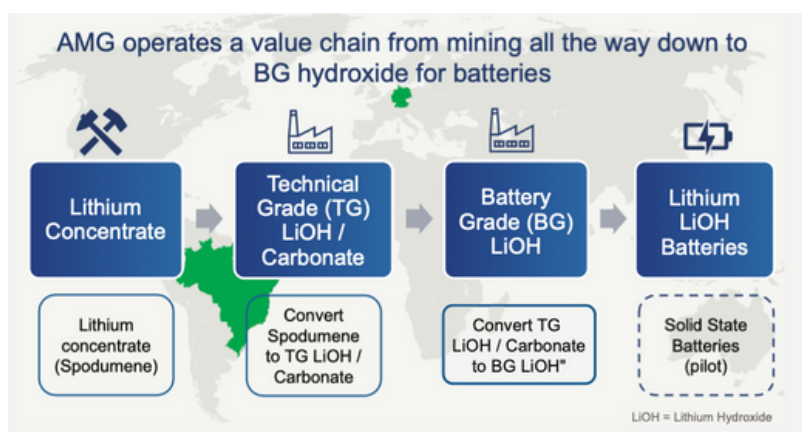
📍 AMG Lithium, Lithium Refinery, Bitterfeld-Wolfen, Germany

- AMG started construction of a new facility in Bitterfeld-Wolfen in spring 2022, which will be the first refinery in Europe for battery-grade lithium hydroxide monohydrate (BG LiOH).
- Commissioning for the first 20,000-ton module BG LiOH upgrader will take place in the fourth quarter of 2023.
- The 20,000 tons of BG LiOH can equip around 500,000 EVs with cathode material.
- With four further modules, AMG will increase capacity to a total of 100,000 tons of BG LiOH per year by 2030.
- The current total projected investment volume from extraction to processing and refining of the lithium is €1 billion.
- AMG Lithium has signed an agreement with EcoPro, a leading South-Korean cathode paste producer, to deliver a minimum of 5,000 tons of BG LiOH to EcoPro's plant in Debrecen, Hungary.
- AMG Lithium has signed a non-binding memorandum of understanding with FREYR Battery to supply FREYR with 3,000 to 5,000 tons of BG LiOH per annum.
- AMG Lithium has signed a non-binding memorandum of understanding with Fortum Battery Recycling Oy for the supply of recycled lithium hydroxide.
- AMG operates a unique lithium laboratory in Frankfurt, Germany, where a highly specialized R&D team operates a pilot plant for materials of the next generation lithium battery – solid state batteries.

FROM MINING THROUGH TO NEXT GENERATION LITHIUM PRODUCTS

From mining to the next generation of lithium products, AMG Lithium aims to cover the entire lithium value chain by 2026: from spodumene extraction at its own mine in Brazil, to the production of technical-grade lithium carbonate in Brazil, to the production of battery-grade LiOH in Germany.

In March 2023, AMG announced its 25 percent shareholding in Zinnwald Lithium Plc, which will support the AMG lithium strategy. The lithium development company, which has an approved mining license, plans to supply around 12,000 tons of LiOH annually near Dresden, Germany, in the future to meet the battery needs of EVs in Europe.



"We will be ready to supply the European electric vehicle market as it transitions to full electromobility by 2035. In addition to providing lithium, this includes above all our technological know-how to produce the basic material for industrial production in the best and most reliable quality."

Dr. Stefan Scherer, CEO AMG Lithium