



Innovating from Mine to Market

LITHIUM FOR ENERGY STORAGE





We collaborate with customers around the world to solve complex challenges and pioneer solutions that help to move, power, connect and protect.

OUR COMPETITIVE ADVANTAGES



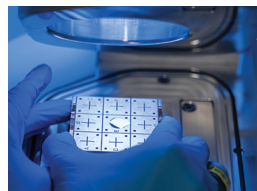
World-Class Resources

We offer vertically integrated, low-cost resources that provide reliable and consistent supply.



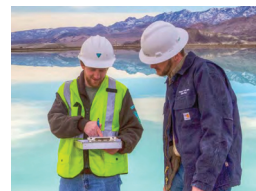
Market Expertise & Process Chemistry

We have long-standing experience in lithium handling, processing and conversion.



Leading the Lithium Market Evolution

We are pioneering lithium industry standards around supply chain transparency, upcycling, product carbon footprint (PCF) and price discovery.



Customer Centricity

As a trusted supplier with global expertise, local supply chain resources and world-class processing knowledge, we deliver unique solutions that meet our customers' needs.



People & Planet Stewardship

We collaborate with communities, industry and governments to operate with transparency and care.

VERTICALLY INTEGRATED GLOBAL LITHIUM RESOURCE AND CONVERSION OPERATIONS

Our global footprint, with world-class lithium resources, integrated conversion operations and research and development centers, provides a diverse and secure supply of lithium carbonate and lithium hydroxide for the battery value chain.



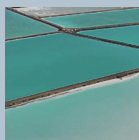
● = Resource

⬡ = R+D & Conversion

○ = Conversion



Spodumene



Brine

*Proposed

**Joint Venture Owned

Map is representative of Albemarle's Global Energy Storage reach; not inclusive of all the company's sites.

Product Portfolio and Applications

ALBEMARLE ENERGY STORAGE PRODUCT PORTFOLIO

As a global leader in the sustainable production of lithium, we work every day to advance the materials needed for the clean energy transition.



Lithium Salts and Ore

- Technical Grade and Chemical Grade Spodumene
- Battery Grade and Technical Grade Lithium Hydroxide and Lithium Carbonate Salts



Lithium Metal

- Bulk Metal
- Foils
- Ultra-Thin Foils



Electrolyte Salts

- Lithium Sulfide
- Lithium Chloride
- Powders

OUR MARKET SEGMENTS

From safer, more sustainable mobility solutions and energy grid storage safety, we are enabling the always-on world by making technology more consistent and reliable.



Automotive & EV

Battery Electric Vehicles, Plug-In Hybrid Electric Vehicles



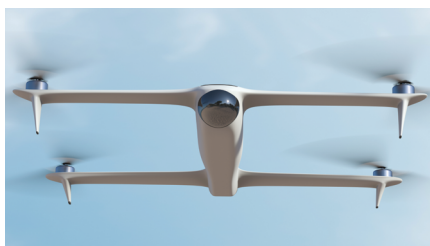
Industrial EV

Agriculture, Construction, Mining



Grid Storage Systems

Energy Shifting, Ancillary Services, Residential/Commercials



Aviation & Aerospace

Electric Vertical Take-off and Landing Vehicles, Satellites, Delivery Drones, Commercial Aviation



Consumer Electronics

Phones, Tablets, PCs, eBikes, Drones, Power Tools, Wearable Devices



Industrial Processes

Glass, Ceramics, Building Materials, Greases

WE ADVANCE TECHNOLOGY THAT POWERS A MODERN WORLD

As the world continues to electrify, Albemarle is pioneering technologies, such as lithium sulfide and ultra-thin lithium anodes, that will drive greater energy density to support reduced battery weight and volume and increase range.



Kings Mountain, NC

A Global Leader in Lithium Innovation

In Kings Mountain, North Carolina, Albemarle operates one of the world's most advanced lithium material sites, offering process technology, development, and conversion. It also hosts a state-of-the-art research and development center, featuring a world-class facility for battery materials synthesis and testing.



Langelsheim, Germany

Albemarle's facility in Langelsheim, Germany, is one of the world's leading manufacturers of lithium raw materials, which are essential components used in everyday products in the health, connectivity, mobility and energy industries, including electric vehicle batteries.

Together, these sites are helping position Albemarle to lead the development of a diverse global supply chain to meet the increasing demand for lithium.



Elevating Product Quality and Manufacturing Standards

With a commitment to quality across our operating sites, we focus on consistency in our process and collaborate across the industry to drive development of international standards.

Advocating for Universal Standards

We've taken a leading role in the ISO/TC 333 committee to standardize measurement of quality and impurity levels in lithium salts.

Quality Systems Leader

We're building upon our ISO 9001 certification and advancing towards IATF 16949 compliance at our manufacturing sites in 2025.

Product Quality

Our continued investment in quality improvements has led to a >50% reduction of the top three impurities critical to lithium battery performance in 2023.



We use our expertise and ingenuity to meet environmental and societal needs for today and generations to come.



Community and Stakeholder Engagement

Our core values guide us in building long-term relationships with stakeholders and communities through open and honest dialogue. We support community projects in and around our operations, including funding community grants for initiatives in education, environmental sustainability, and health and culture.



Energy and GHG Reduction

Reducing our carbon footprint is a multi-decade journey. With the acquisition of 100% renewable electricity in Chile and Kings Mountain, North Carolina, and increased renewable electricity in Silver Peak, Nevada, and Xinyu, China, we're on track to reduce Scope 1 and 2 emissions to grow our Energy Storage business in a carbon-intensity neutral manner through 2030.



Innovating Our Mining Operations through DLE and Upcycling

In 2023, we announced the piloting of direct lithium extraction (DLE) in Chile through proprietary technology that absorbs lithium to separate it from brine. This has the potential to significantly increase lithium recovery rates and may enhance long-term operational sustainability, scale production and accelerate the time needed to bring products to market.



Responsible Sourcing and Supply Chain Transparency

Albemarle operates in alignment with our core values, our human rights policy and the United Nations Guiding Principles on Business and Human Rights. We also adhere to the frameworks for due diligence in responsible mineral sourcing set by the Organisation for Economic Co-operation and Development (OECD) and the Responsible Minerals Initiative (RMI) standards.



For more information on our approach, visit our 2024 Sustainability Report.



Initiative for Responsible Mining Assurance Standard for Responsible Mining

- Objective third-party verification of industrial scale mine sites.
- 400+ standards represent the most comprehensive definition of responsible mining.
- Albemarle is the first lithium producer to complete an IRMA assessment of performance.



ILiA

As a founding member of the International Lithium Association (ILiA), we are pioneering the development of product carbon footprint (PCF) guidance for the industry to apply to brine, hard rock, and clays. Our participation in ILiA supports our goal of enabling a sustainable approach to managing a diverse global footprint of world-class resources.



In our efforts to support a circular economy, we have an innovative agreement with Martin Marietta where the proposed Kings Mountain mine will transfer extracted non-ore-bearing material to a quarry operated by Martin Marietta. Martin Marietta will sell the material to the construction aggregate market. The beneficial use of material is expected to reduce both companies' operational footprints, contributing to a more sustainable management of resources.



CATERPILLAR

We're continuing to build on strong customer relationships, including a partnership with Caterpillar, Inc., to collaborate on solutions to support the full battery value chain and sustainable mining operations—with the goal of establishing Kings Mountain as the first net zero emissions lithium mine in North America.



OUR CORE VALUES ARE ESSENTIAL TO ACHIEVING OUR PURPOSE

Care

We improve the safety and support the well-being and resilience of our communities, employees and environment.

Curiosity

We continuously learn and are comfortable taking informed risks to innovate.

Collaboration

We work together, value each other and encourage diverse thought to drive better outcomes.

Humility

We share the credit and value the ideas of others to achieve goals together.

Accountability

We act with courage to take ownership for what matters and responsibly deliver results.

Integrity

We do what we say with honesty and transparency for the benefit of all.

ALBEMARLE BY THE NUMBERS

~70

Countries
Served

~1,900

Customers

+25

Production +
R&D Facilities

~8,300

Employees

+1,650

Active
Patents

\$5.4B

2024 Net
Sales

\$66.7M

Grants
Distributed
(Albemarle
Foundation)

AWARDS AND RECOGNITIONS



B in Climate
B- in Water Security

Albemarle®
ALL THE ELEMENTS FOR A BETTER WORLD



Join Us. Let's Build a More Resilient World Together.

NYSE: ALB



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