

# Investment in new lithium battery materials

Will sustainable lithium-ion battery materials power EV batteries?

Our sustainable lithium-ion battery materials will power EV batteries and accelerate the global transition to zero carbon emissions," said CEO Mike O'Kronley of Ascend Elements. "Together, we are investing in North America's critical EV battery infrastructure and bringing good manufacturing jobs back to the United States."

What is the global market for lithium-ion batteries?

The global market for Lithium-ion batteries is expanding rapidly. We take a closer look at new value chain solutions that can help meet the growing demand.

How many lithium EVs can a US mine produce a year?

Lithium Americas' Thacker Pass mine is expected to begin production in the second half of 2026 and will generate enough lithium for up to 1mn EVs a year. Despite being among the most lithium-rich countries in the world, the US has only one operational lithium mine, which is also located in Nevada.

Why is lithium a threat to EV production?

Lithium has risen to the top of carmakers' security of supply concerns for future EV production. The metal's price has surged about 10 times since the start of 2021 because of shortages, and developers have been struggling to bring new production online on time.

How big will lithium-ion batteries be in 2022?

But a 2022 analysis by the McKinsey Battery Insights team projects that the entire lithium-ion (Li-ion) battery chain, from mining through recycling, could grow by over 30 percent annually from 2022 to 2030, when it would reach a value of more than \$400 billion and a market size of 4.7 TWh. 1

Will GM invest in lithium & cobalt?

Ford, GM and Stellantis, the owner of the Jeep and Peugeot brands, have invested in or offered pre-financing to lithium, cobalt and nickel producers. GM's latest investment, however, represents a significant escalation in the contest to secure battery metals and highlights growing integration between the automotive and mining industries.

As announced on 15th November 2023, the Biden administration is allocating \$3.5 billion from the 2021 infrastructure law to boost domestic production of advanced batteries, battery metals, and materials in ...

Industry history and context. In the past 30 years, since their commercialization, lithium-ion (li-ion) batteries have been used in an increasingly diverse range of products, starting from early generation handheld electronics to now powering cars and buses.

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Battery demand is booming, as electric vehicles replace conventional diesel and petrol models, e-bikes become a fashion item, and other sectors, including construction and agriculture, ...

Although lithium is plentiful in the ground, significant investments in new mines and refineries are required for supply to meet demand in the future. Business uncertainty could jeopardize this investment. As a ...

In total, at least 120 to 150 new battery factories will need to be built between now and 2030 globally. In line with the surging demand for Li-ion batteries across industries, we project that revenues along the entire value chain will increase 5-fold, from about \$85 billion in 2022 to over \$400 billion in 2030 (Exhibit 2). Active materials and ...

As announced on 15 th November 2023, the Biden administration is allocating \$3.5 billion from the 2021 infrastructure law to boost domestic production of advanced batteries, battery metals, and materials in the United States. This funding, part of the second phase of a \$6 billion package, supports projects related to battery-grade ...

WESTBOROUGH, Mass., (September 6, 2023) -- Ascend Elements, a U.S.-based manufacturer of sustainable, engineered battery materials for electric vehicles, today announced it has raised \$542 million in new equity investments, including \$460 million in Series D investments and \$82 million of additional investments from earlier this year.

In a mid-2023 Tesla earnings call, Musk seemed relieved to see prices for the battery metal had declined. "Lithium prices went absolutely insane there for a while," he said.

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