

## China lithium battery market share

The increasing share of China in lithium-ion battery manufacturing is expected to support a further decline in the Li-ion battery costs. This sharp and sustained cost reduction is expected to help cement lithium-ion as the battery chemistry of choice in all energy storage markets, including grid-scale, behind-the-meter storage, residential ...

However, the share of imports remains relatively large in Europe and the United States, meeting more than 20% and more than 30% of EV battery demand, respectively. China is the world's largest EV battery exporter, with around 12% of its EV batteries being exported.

China is among the five top countries with the most lithium resources and it has been buying stakes in mining operations in Australia and South America where most of the world's lithium reserves are found. China's Tianqi Lithium owns 51 percent of the world's largest lithium reserve in Australia.

In addition to rare earths, the manufacturing of lithium-ion batteries depends on key materials like graphite, cobalt, manganese and nickel. In 2019, China produced 64 percent of the world's graphite, having 24 percent of the world's reserves.

China mines only 6 percent of the world's manganese, but refined 93 percent of it in 2019. Most manganese supply is concentrated in South Africa, followed by Australia and Gabon. North America produced zero manganese. Ukraine has a small operation, but it is not capable of producing feedstock for the battery supply chain.

Unlike the other minerals, the nickel mining industry is fairly evenly spread around the world and 35 percent of the chemical processing is outside of China; China controls 65 percent. Electric vehicles account for about 7 percent of overall nickel consumption today, but that would skyrocket under plans to electrify vehicles as proposed by Joe Biden.

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