

# Total lithium-ion battery production capacity

Which countries produce the most lithium-ion batteries in 2030?

This graphic uses exclusive data from our partner, Benchmark Mineral Intelligence, to rank the top lithium-ion battery producing countries by their forecasted capacity (measured in gigawatt-hours or GWh) in 2030. Chinese companies are expected to account for nearly 70% of global battery capacity by 2030, delivering over 6,200 gigawatt-hours.

Which country manufactures the most lithium ion batteries?

China is by far the leader in the battery race with nearly 80% of global Li-ion manufacturing capacity. The country also dominates other parts of the battery supply chain, including the mining and refining of battery minerals like lithium and graphite. The U.S. is following China from afar, with around 6% or 44 GWh of global manufacturing capacity.

Will lithium-ion battery production increase in 2028?

It is projected that the total production capacity of the world's lithium-ion battery factories will increase from some 290 GWh in 2018 to around 2,000 GWh in 2028. This increasing production capacity will be necessary to meet the growing demand for electric vehicles. Get notified via email when this statistic is updated.

How has battery production changed in 2023?

Battery production has been ramping up quickly in the past few years to keep pace with increasing demand. In 2023, battery manufacturing reached 2.5 TWh, adding 780 GWh of capacity relative to 2022. The capacity added in 2023 was over 25% higher than in 2022.

Why did automotive lithium-ion battery demand increase 65% in 2022?

Automotive lithium-ion (Li-ion) battery demand increased by about 65% to 550 GWh in 2022, from about 330 GWh in 2021, primarily as a result of growth in electric passenger car sales, with new registrations increasing by 55% in 2022 relative to 2021.

What percentage of battery manufacturing capacity is already operational?

About 70% of the 2030 projected battery manufacturing capacity worldwide is already operational or committed, that is, projects have reached a final investment decision and are starting or begun construction, though announcements vary across regions.

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EV lithium-ion battery production capacity shares worldwide 2021-2025, by country; Projected lithium-ion

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battery cell demand worldwide 2022-2030

EV lithium-ion battery production capacity shares worldwide 2021-2025, by country

EV lithium-ion battery production capacity shares worldwide 2021-2025, by country ... Global projection of total lithium supply 2022-2030; Global lithium resources 2023, by country;

Developments in different battery chemistries and cell formats play a vital role in the final performance of the batteries found in the market. However, battery manufacturing ...

development of a domestic lithium-battery manufacturing value chain that creates . equitable clean-energy manufacturing jobs in America, building a clean-energy . economy and helping ...

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The energy consumption of a 32-Ah lithium manganese oxide (LMO)/graphite cell production was measured from the industrial pilot-scale manufacturing facility of Johnson ...

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Almost 60 percent of today's lithium is mined for battery-related applications, a figure that could reach 95 percent by 2030 (Exhibit 5). Lithium reserves are well distributed ...

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Lithium-ion batteries (LIBs) have attracted significant attention due to their considerable capacity for delivering effective energy storage. As LIBs are the predominant ...

4 ???&#0183; Lithium-ion batteries (LIBs) are critical to energy storage solutions, especially for electric vehicles and renewable energy systems (Choi and Wang, 2018; Masias et al., 2021). ...

Manufacturing Capacity, GWh % of Total #1: ?? China: 893: 77% #2: ?? Poland: 73: 6% #3: ?? U.S. 70: 6% #4: ?? Hungary ... Global lithium-ion manufacturing capacity is projected to ...

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The illustrative expansion of manufacturing capacity assumes that all announced projects proceed as planned.

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