

BATTIDX / EQM Lithium & Battery Technology Index

Index fact sheet as of November 29, 2024

BATTIDX Facts

Ticker

Price Return: BATTIDXP
Total Return: BATTIDX
Net Total Return: BATTIDNX

Index Launch

May 01, 2018

Base Value

100 on May 31, 2017

Index Calculation

Every fifteen (15) seconds

Rebalancing Dates

Quarterly
(Feb/May/Aug/Nov)

Index Rules

Available at vettafi.com

Portfolio Characteristics

Number of Companies: 84
U.S. Companies: 16
Non-U.S. Companies: 68

Company Size by Market Capitalization (millions):

Average: \$22,347
Median: \$2,393
Largest: \$1,107,984
Smallest: \$269

Annualized Return*: 10.61%
Annualized Volatility*: 87.32%
Information Ratio*: 0.12

*Annualized performance and volatility are since inception, including back-test results prior to May 01, 2018

A benchmark to track global companies associated with the development, production and use of lithium battery technology.

The Case for Lithium Battery Technology

- Growing Global Opportunity** - According to Markets and Markets, the lithium-ion battery market is expected to grow from an estimated \$56.8 USD billion in 2023 to \$187.1 billion by 2032, at a CAGR of 14.2%.¹
- Multiple Drivers of Demand** - A number of factors continue to fuel growth in lithium-ion batteries, including continued demand for mobile devices, the accelerating pace of global electric vehicle adoption and a rising need for grid energy storage solutions.
- Constrained Supply Conditions** - Automakers are accelerating their planned electric vehicle launch plans to comply with increasingly stringent regulations in Europe and China. Government incentives, evolving consumer preference, price parity, and a slate of new innovative models, will fuel accelerating EV growth.

¹Markets and Markets, August 2023

Performance of \$1,000 invested

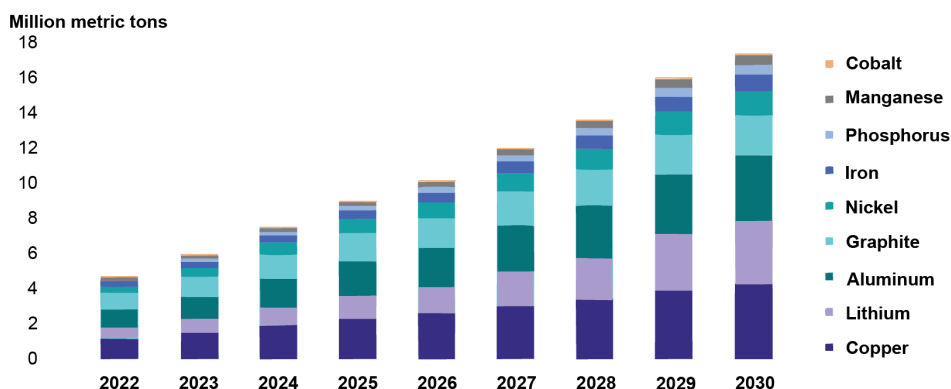


Performance Data

	3 Month	6 Month	YTD	1 Year	Annualized	
					3 Year	5 Year
Total Return	9.1%	-0.5%	-12.1%	-6.7%	-19.8%	31.2%
Net Total Return	9.1%	-0.6%	-12.5%	-7.1%	-20.0%	10.5%
Price Return	8.7%	-1.3%	-13.5%	-8.2%	-21.1%	9.2%

Battery Boom

Rising EV demand supercharges demand forecasts for a group of metals.



Metals demand from lithium batteries is expected to top 17 million in 2030.

Source: BloombergNEF, July 15, 2022

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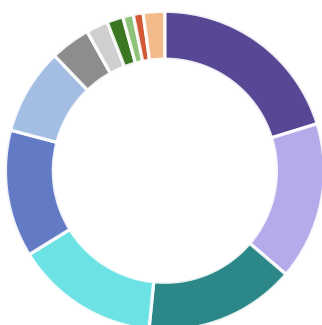
Top 10 Constituents

Company Name	Index Weight
CONTEMPORARY AMPEREX TECHNOLOGY	7.05%
BHP GROUP LTD.	6.58%
TESLA INC	5.96%
BYD CO LTD.	4.46%
NAURA TECHNOLOGY GROUP CO LTD.	2.77%
TDK CORP.	2.45%
BLOOM ENERGY CORPORATION	2.27%
ALBEMARLE CORP	1.75%
LI AUTO INC.	1.55%
SOUTH32 LTD.	1.52%
TOTAL	36.38%

Market Capitalization

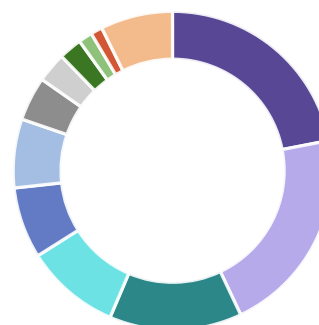


Market Segments



Electric Vehicles	20.2%	Battery Technology	16.0%
Battery Components	15.3%	Nickel	14.6%
Lithium	12.9%	Energy Storage	8.7%
Vanadium	4.1%	Manganese	2.2%
Recycling	1.6%	Cobalt	1.1%
Rare Earths	1.0%	Others	2.2%

Country Weightings



China	22.0%	United States	21.0%
Australia	13.4%	South Korea	9.6%
Japan	7.2%	Canada	7.0%
Taiwan	4.5%	Indonesia	3.0%
United Kingdom	2.3%	Israel	1.4%
Chile	1.2%	Others	7.3%

About VettaFi

VettaFi, a data, analytics, and thought leadership company, is transforming financial services from an industry to a community one relationship at a time. In addition to providing interactive online tools and research, VettaFi offers asset managers an array of indexing and digital distribution solutions to innovate and scale their businesses. With billions in assets benchmarked to its indices and more than 200 customers globally asset managers look to VettaFi for benchmarks and best-in-class index solutions. VettaFi owns and administers the EQM Index Series.

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