

BATTIDX / EQM Lithium & Battery Technology Index

Index fact sheet as of January 31, 2024

BATTIDX Facts

Ticker

Total Return: BATTIDX

Index Launch

August 14, 2020

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: 85
U.S. Companies: 16
Non-U.S. Companies: 69

Company Size by Market Capitalization (millions):

Average: \$16,720
Median: \$2,811
Largest: \$596,479
Smallest: \$77

Annualized Return: 11.18%
Annualized Volatility: 24.04%
Information Ratio: 0.47
Trailing P/E: 204.82
Forward P/E: 11.99
Price/Book: 1.52
EV/Sales: 2.02
Dividend Yield: 1.95%

Performance data includes back-test results prior to August 14, 2020

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

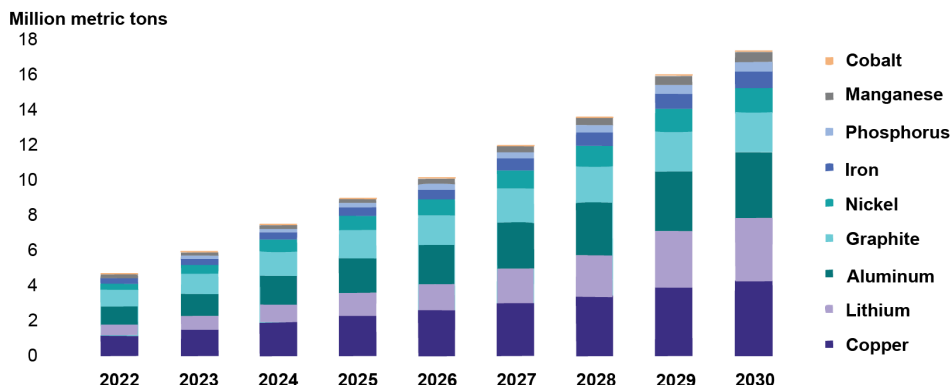


Performance Data

	3 Month	6 Month	YTD	1 Year	Annualized	
					3 Year	5 Year
Total Return	-7.0%	-34.9%	-16.3%	-34.4%	-17.0%	10.2%

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

BATTIDX / EQM Lithium & Battery Technology Index

Index fact sheet as of January 31, 2024

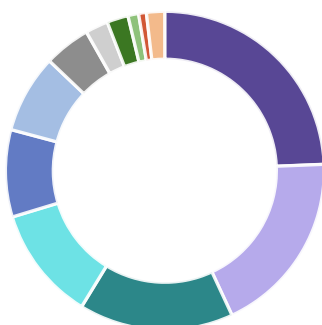
Top 10 Constituents

Company Name	Index Weight
BHP GROUP LTD.	8.25%
CONTEMPORARY AMPEREX TECHNOLOGY	6.57%
TESLA INC	6.46%
GLENCORE PLC	5.15%
LG ENERGY SOLUTION LTD.	5.13%
BYD CO LTD.	4.59%
PANASONIC HOLDINGS CORP.	2.29%
TDK CORP.	2.19%
NEC CORP.	2.10%
LI AUTO INC.	2.00%
TOTAL	44.75%

Market Capitalization



Market Segments



Battery Technology	24.4%	Electric Vehicles	18.7%
Nickel	15.7%	Lithium	11.6%
Cobalt	8.8%	Battery Components	7.9%
Energy Storage	4.7%	Charging Infrastructure	2.3%
Other-Manganese	2.2%	Other-Recycling	1.1%
Rare Earths	0.8%	Others	1.8%

Country Weightings



China	21.6%	United States	15.8%
Australia	15.4%	South Korea	11.5%
Japan	10.0%	Canada	5.8%
Switzerland	5.2%	Taiwan	1.7%
United Kingdom	1.5%	Indonesia	1.4%
Chile	1.3%	Others	8.9%

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.

It is not possible to invest directly in an index. Index performance does not reflect the deduction of any fees or expenses. VettaFi does not sponsor, endorse, sell, or promote any investment product linked to or based on the EQM Lithium & Battery Technology Index. Performance is provided on a total-return basis. Historical performance illustrations in the indices may be based on a back-test calculation. Past performance of an index is not a guarantee of future results. The EQM Lithium & Battery Technology Index is the exclusive property of VettaFi, which shall have no liability for any errors or omissions in calculating the Index.