

# BATTIDX / EQM Lithium & Battery Technology Index

Index fact sheet as of October 31, 2024

## BATTIDX Facts

### Ticker

Price Return: BATTIDXP  
Total Return: BATTIDX  
Net Total Return: BATTIDYN

### 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: 85  
U.S. Companies: 18  
Non-U.S. Companies: 67

Company Size by Market Capitalization (millions):

Average: \$18,695  
Median: \$2,450  
Largest: \$802,033  
Smallest: \$199

Annualized Return\*: 10.51%  
Annualized Volatility\*: 87.77%  
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%.<sup>1</sup>
- 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.

<sup>1</sup>Markets and Markets, August 2023

## Performance of \$1,000 invested

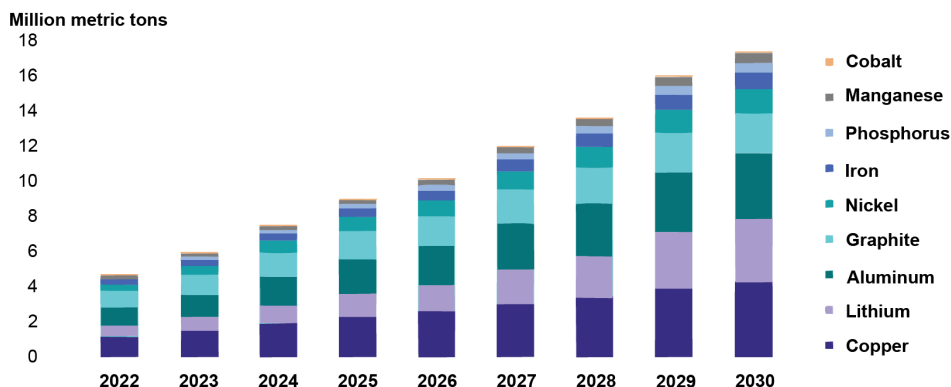


## Performance Data

	3 Month	6 Month	YTD	1 Year	Annualized	
					3 Year	5 Year
Total Return	4.4%	-0.4%	-13.4%	-3.8%	-19.9%	30.4%
Net Total Return	4.4%	-0.5%	-13.8%	-4.1%	-20.2%	11.2%
Price Return	4.0%	-1.3%	-14.8%	-5.3%	-21.2%	9.9%

## 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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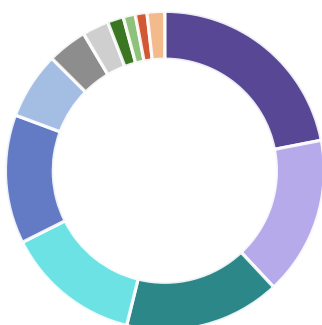
## Top 10 Constituents

Company Name	Index Weight
CONTEMPORARY AMPEREX TECHNOLOGY	8.51%
BHP GROUP LTD.	6.29%
BYD CO LTD.	5.95%
TESLA INC	5.80%
NAURA TECHNOLOGY GROUP CO LTD.	2.98%
TDK CORP.	2.48%
LI AUTO INC.	1.83%
LG ENERGY SOLUTION LTD.	1.74%
SAMSUNG SDI CO LTD.	1.73%
ARCADIUM LITHIUM PLC	1.69%
<b>TOTAL</b>	<b>39.02%</b>

## Market Capitalization

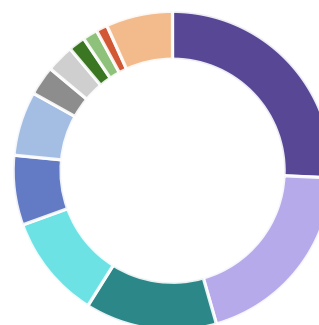


## Market Segments



Electric Vehicles	21.9%	Battery Technology	16.1%
Battery Components	15.8%	Lithium	13.7%
Nickel	13.1%	Energy Storage	6.8%
Vanadium	4.0%	Manganese	2.7%
Recycling	1.6%	Rare Earths	1.2%
Cobalt	1.2%	Others	1.8%

## Country Weightings



China	25.7%	United States	19.8%
Australia	13.4%	South Korea	10.6%
Japan	7.1%	Canada	6.5%
Taiwan	3.0%	Indonesia	2.8%
Ireland	1.7%	United Kingdom	1.5%
Chile	1.1%	Others	6.8%

## 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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