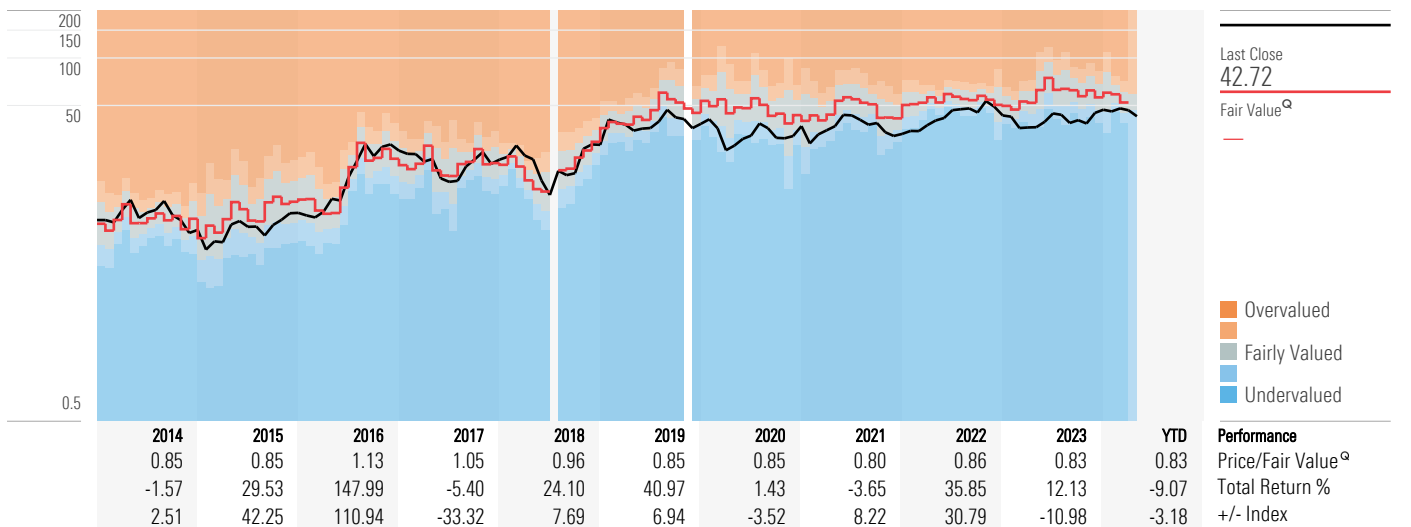


# Centrais Eletricas Brasileiras SA Class B ELET6 ★★★ Q 22 Apr 2024, 22:36 UTC

<b>Economic Moat</b> <sup>Q</sup>	<b>Uncertainty</b> <sup>Q</sup>	<b>Price/Fair Value</b> <sup>Q</sup>	<b>ESG Risk Rating Assessment</b> <sup>1</sup>	<b>Trailing Dividend Yield %</b>	<b>Market Cap</b>	<b>Investment Style</b>	<b>Sector</b>	<b>Industry</b>
None	Very High	0.8	3 Apr 2024 05:00, UTC	3.50	86.4221 Bil	Large Value	Utilities	Utilities - Renewable



<sup>1</sup>The ESG Risk Rating Assessment is a representation of Sustainalytics' ESG Risk Rating. Lee Davidson, Chief Analytics Officer for Morningstar, Inc, oversees the methodology that supports Quantitative Fair Value Estimates and Quantitative Star Ratings. Mr. Davidson is guided by the Morningstar, Inc. Code of Ethics in carrying out his responsibilities. For information regarding Conflicts of Interests, visit <http://global.morningstar.com/equitydisclosures>.

## Key Metrics as of 19 Apr 2024

Metrics	Value	Percentile in Sector
Earnings Yield (%)	4.5	41.0
Sales Yield (%)	42.4	39.0
Book Value Yield (%)	132.6	81.0
Return on Assets (%)*	1.2	29.0
Revenue(Bil)*	7.0	76.0
Market Value (Bil)	16.6	84.0
Enterprise Value (Bil)	24.9	81.0
EV/MV Ratio	1.5	50.0
Volatility TTM (%)	22.6	47.0
Drawdown TTM (%)	15.7	26.0
Volume (Mil)	8.3	88.0

\*30 Sep 2023

## Business Description

Centrais Eletricas Brasileiras SA, or Eletrobras, is a mixed capital, Brazilian electric utility company of which the majority shareholder is the Government of Brazil. Eletrobras, through its subsidiaries, controls a sizable amount of total installed electricity generation, transmission, and distribution in Brazil. The company operates a portfolio of wind, thermal, hydro, and nuclear power plants located throughout the country. The vast majority of the total energy produced by Eletrobras comes from its hydroelectric facilities. The company primarily generates revenue from the administration segment. About half of Eletrobras' electricity sales are made using free market agreements, while the other half is completed through auctions and contracts.

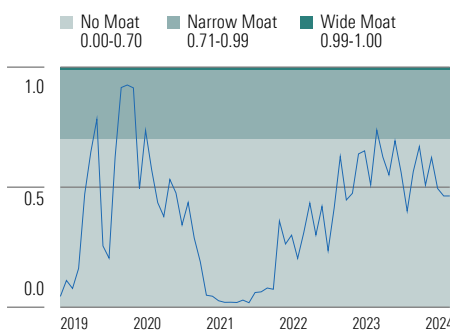
its annualized trailing 12-month volatility is 22.63%. These fall at the 77th and 28th percentiles in the equity universe and at the 50th and 47th in the utilities sector, respectively.

## Economic Moat <sup>Q</sup> as of 22 Apr 2024

Morningstar maintains a quantitative moat rating of None on the company. The firm's quantitative moat score of 0.47 sits at the 42nd percentile in the utilities sector. This is a decrease from 0.87, the maximum of its moat scores over the past year. The quantitative financial health rating for Centrais Eletricas is Moderate. Its financial health score, termed Distance to Default, sits at the 45th percentile in the universe and 50th percentile in the sector.

The significant drivers of these ratings are the company's book value yield and enterprise value-to-market value ratio. The book value yield for Centrais Eletricas is 132.55%, and its enterprise value-to-market value ratio is 1.50. They sit at the 81st and 77th percentile in the global equity universe, respectively.

## Economic Moat <sup>Q</sup> History as of 22 Apr 2024



## Valuation <sup>Q</sup> as of 20 Apr 2024

Morningstar affirms a 4-star quantitative rating for Centrais Eletricas. We calculate this outcome using the company's underlying model-driven valuation and uncertainty scores. The stock's last closing price was 42.73, a discount of 18.27% to its Quantitative Fair Value estimate of 52.28. This discount has ranged between 42.67% and 9.41% over the past year. The stock's price to fair value ratio is at the 66th percentile in our global equity coverage universe for this methodology and at the 55th percentile relative to its peers in the utilities sector.

Centrais Eletricas furthermore holds a High quantitative uncertainty rating.


The company's quantitative star rating dates to after 04/03/2024, before which it was 3-star. Similarly, the firm's uncertainty rating changed from Very High to High after 04/03/2024.

We examine the financials and market statistics for Centrais Eletricas to determine these ratings. Its enterprise value-to-market value ratio is 1.50 and

## Fundamentals as of 20 Apr 2024

Centrais Eletricas reports earnings per share of 1.65. Its return on invested capital is 4.03%. The company maintains a dividend yield of 3.2%, paying out 86.84% of earnings. These values are calculated over a trailing 12-month period. As of last market close, Centrais Eletricas has a price-to-earnings ratio of 24.84, falling at the 79th percentile in its sector (where a lower percentile means a lower ratio) and ranging between 23.87 and 41.69 over the past year. The company's price-to-free cash flow ratio is 8.7, falling at the 46th percentile in its sector and ranging between 8.36 and 16.87 over the past year.

## Centrais Eletricas Brasileiras SA Class B ELET6 ★★★ Q 22 Apr 2024, 22:36 UTC

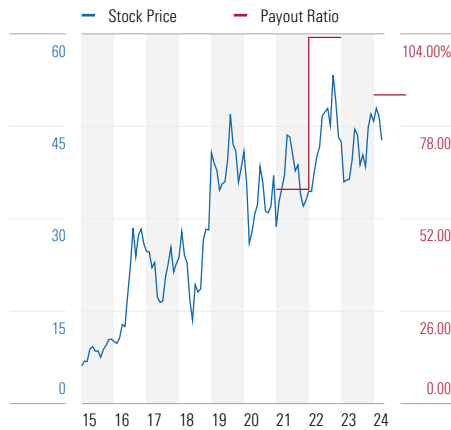
<b>Economic Moat</b> <sup>Q</sup>	<b>Uncertainty</b> <sup>Q</sup>	<b>Price/Fair Value</b> <sup>Q</sup>	<b>ESG Risk Rating Assessment</b> <sup>1</sup>	<b>Trailing Dividend Yield %</b>	<b>Market Cap</b>	<b>Investment Style</b>	<b>Sector</b>	<b>Industry</b>
None	Very High	0.8	 3 Apr 2024 05:00, UTC	3.50	86.4221 Bil	Large Value	Utilities	Utilities - Renewable

**Earnings** as of 19 Apr 2024

Earnings	%	Percentile in Sector
Dividend Yield*	3.2	33.0
Payout Ratio*	86.8	79.0
Price to Earnings	24.8	79.0
Price to Cash Flow	8.7	46.0
ROIC**	4.0	36.0

\*28 Mar 2024

\*\*30 Sep 2023

**Dividends** as of 22 Apr 2024**Valuation** <sup>Q</sup> as of 22 Apr 2024Last Close  
42.72ELET6 is  
Undervalued at a  
17% discount.**Economic Moat** <sup>Q</sup>

⊖ None

**Financial Health** <sup>Q</sup>

Moderate

1-Star Price <sup>Q</sup>

&gt; —

5-Star Price <sup>Q</sup>

&lt; —

**Contact**

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<https://www.eletrabras.com>**Financials** as of 22 Apr 2024 (Fiscal Year End 31 Dec 2023)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	YTD	Fiscal
Revenue (Bil)	30	32	50	29	26	29	25	35	34	—	27	Revenue (Bil)
Operating Income (Bil)	-10.24	-16.16	24.21	4.26	16.36	8.84	1.95	4.51	4.19	—	10.40	Operating Income (Bil)
Operating Margin (%)	-33.98	-50.21	48.04	14.48	62.42	30.42	7.69	13.02	12.29	—	38.17	Operating Margin (%)
Net Income (Bil)	-6.23	-11.41	3.43	-1.76	14.47	11.20	6.39	5.71	3.64	—	3.50	Net Income (Bil)
Diluted Earnings/Share	-4.60	-8.43	2.45	-1.30	10.40	6.96	4.00	3.48	1.80	—	1.55	Diluted Earnings/Share
Operating Cash Flow (Mil)	5,192	6,515	370	694	4,357	779	5,127	8,226	9,276	—	6,636	Operating Cash Flow (Mil)
Capital Spending (Bil)	-2.92	-4.52	-1.68	-1.24	-1.26	-2.02	-1.06	-1.19	-33.62	—	-2.28	Capital Spending (Bil)
Free Cash Flow (Bil)	2.27	1.99	-1.31	-0.55	3.10	-1.24	4.07	7.04	-24.35	—	4.35	Free Cash Flow (Bil)
Avg Shares Outstand(Mil)	1,353	1,353	1,369	1,352	1,352	1,289	1,254	1,289	1,686	—	2,254	Avg Shares Outstand(Mil)

**Valuation** as of 22 Apr 2024

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Current	Calendar
Price/Fair Value <sup>Q</sup>	0.85	0.85	1.13	1.05	0.96	0.85	0.85	0.80	0.86	0.83	0.83	Price/Fair Value <sup>Q</sup>
Price/Sales	0.42	0.41	0.62	0.78	0.97	1.94	1.77	1.45	2.58	2.92	2.66	Price/Sales
Price/Earnings	—	—	14.63	—	—	3.97	6.31	7.54	27.75	27.31	24.84	Price/Earnings
Price/Cash Flow	2.88	1.78	6.48	32.64	9.10	12.72	—	12.28	9.41	7.50	6.83	Price/Cash Flow
Price/Book	0.19	0.27	0.68	0.66	0.88	0.82	0.77	0.68	0.89	0.93	0.85	Price/Book

**Operating Performance** as of 22 Apr 2024 (Fiscal Year End 31 Dec 2023)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Q3	Fiscal (%)
Return on Assets	-4.4	-7.76	2.24	-1.03	7.49	5.96	3.56	3.07	1.59	—	0.37	Return on Assets
Return on Equity	-10.94	-23.94	8.32	-4.08	27.1	16.92	8.78	7.55	3.9	—	0.89	Return on Equity
Rtn on Invested Capital	-4.9	-8.87	7.7	1.6	13.25	10.9	6.74	5.79	4.47	—	1.16	Rtn on Invested Capital

**Dividends** as of 22 Apr 2024

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Current	Calendar (%)
Dividend Per Share	1.63	0.10	—	1.79	—	1.47	1.79	2.64	1.61	1.49	1.82	Dividend Per Share
Trailing Dividend Yield	20.07	—	—	—	—	—	—	7.99	3.73	—	3.5	Trailing Dividend Yield
Buyback Yield	—	—	—	—	—	—	—	—	—	—	—	Buyback Yield

# Appendix

**Economic Moat** <sup>®</sup>History as of 22 Apr 2024 (No Moat: 0.00-0.70, Narrow Moat: 0.70-0.99, Wide Moat: 0.99-1.00)

Year	January	February	March	April	May	June	July	August	September	October	November	December
2024	0.51	0.62	0.49	0.46	—	—	—	—	—	—	—	—
2023	0.47	0.64	0.65	0.51	0.74	0.63	0.55	0.69	0.56	0.40	0.56	0.67
2022	0.36	0.26	0.30	0.20	0.31	0.43	0.30	0.42	0.24	0.41	0.63	0.45
2021	0.05	0.05	0.03	0.02	0.02	0.02	0.03	0.02	0.06	0.06	0.08	0.07
2020	0.91	0.49	0.74	0.57	0.44	0.38	0.53	0.48	0.34	0.44	0.29	0.19
2019	0.05	0.11	0.08	0.16	0.47	0.65	0.78	0.26	0.20	0.63	0.91	0.93

## Quantitative Equity Report Overview

The quantitative report on equities consists of data, statistics and quantitative equity ratings on equity securities. Morningstar, Inc.'s quantitative equity ratings are forward looking and are generated by a statistical model that is based on Morningstar Inc.'s analyst-driven equity ratings and quantitative statistics. Given the nature of the quantitative report and the quantitative ratings, there is no one analyst in which a given report is attributed to; however, Mr. Lee Davidson, Head of Quantitative Research for Morningstar, Inc., is responsible for overseeing the methodology that supports the quantitative equity ratings used in this report. As an employee of Morningstar, Inc., Mr. Davidson is guided by Morningstar, Inc.'s Code of Ethics and Personal Securities Trading Policy in carrying out his responsibilities.

### Quantitative Equity Ratings

Morningstar's quantitative equity ratings consist of: (i) Quantitative Fair Value Estimate, (ii) Quantitative Star Rating, (iii) Quantitative Uncertainty, (iv) Quantitative Economic Moat, and (v) Quantitative Financial Health (collectively the "Quantitative Ratings").

The Quantitative Ratings are calculated daily and derived from the analyst-driven ratings of a company's peers as determined by statistical algorithms. Morningstar, Inc. ("Morningstar", "we", "our") calculates Quantitative Ratings for companies whether or not it already provides analyst ratings and qualitative coverage. In some cases, the Quantitative Ratings may differ from the analyst ratings because a company's analyst-driven ratings can significantly differ from other companies in its peer group.

i. **Quantitative Fair Value Estimate:** Intended to represent Morningstar's estimate of the per share dollar amount that a company's equity is worth today. Morningstar calculates the Quantitative Fair Value Estimate using a statistical model derived from the Fair Value Estimate Morningstar's equity analysts assign to companies. Please go to <http://global.morningstar.com/equitydisclosures> for information about Fair Value Estimate Morningstar's equity analysts assign to companies.

ii. **Quantitative Economic Moat:** Intended to describe the strength of a firm's competitive position. It is calculated using an algorithm designed to predict the Economic Moat rating a Morningstar analyst would assign to the stock. The rating is expressed as Narrow, Wide, or None.

**Narrow** – assigned when the probability of a stock receiving a "Wide Moat" rating by an analyst is greater than 70% but less than 99%.

**Wide** – assigned when the probability of a stock receiving a "Wide Moat" rating by an analyst is greater than 99%.

**None** – assigned when the probability of an analyst receiving a "Wide Moat" rating by an analyst is less than 70%.

iii. **Quantitative Star Rating:** Intended to be the summary rating based on the combination of our Quantitative Fair Value Estimate, current market price, Quantitative Uncertainty Rating, and momentum. The rating is expressed as One-Star, Two-Star, Three-Star, Four-Star, and Five-Star.

★ – the stock is overvalued with a reasonable margin of safety.

*Log (Quant FVE/Price) < -1\*Quantitative Uncertainty*

*Micro-Caps: Log (Quant FVE/Price) < -1.5\*Quantitative Uncertainty*

★★ – the stock is somewhat overvalued.

*Log (Quant FVE/Price) between (-1\*Quantitative Uncertainty, -0.5\*Quantitative Uncertainty)*

*Micro-Caps: Log (Quant FVE/Price) between (-1.5\*Quantitative Uncertainty, -0.75\*Quantitative Uncertainty)*

★★★ – the stock is approximately fairly valued.

*Log (Quant FVE/Price) between (-0.5\*Quantitative Uncertainty, 0.5\*Quantitative Uncertainty)*

*Micro-Caps: Log (Quant FVE/Price) between (-0.75\*Quantitative Uncertainty, 0.75\*Quantitative Uncertainty)*

★★★★ – the stock is somewhat undervalued.

*Log (Quant FVE/Price) between (0.5\*Quantitative Uncertainty, 1\*Quantitative*

*Uncertainty)*

*Micro-Caps: Log (Quant FVE/Price) between (0.75\*Quantitative Uncertainty, 1.5\*Quantitative Uncertainty)*

★★★★★ – the stock is undervalued with a reasonable margin of safety.

*Log (Quant FVE/Price) > 1\*Quantitative Uncertainty*

*Micro-Caps: Log (Quant FVE/Price) > 1.5\*Quantitative Uncertainty*

After the initial calculation for the star rating, there is a final filtering step based on the momentum of the company. We rank the companies based on their 12-1 month momentum, then restrict those below the 30th percentile to a maximum of 3 stars.

iv. **Quantitative Uncertainty:** Intended to represent Morningstar's level of uncertainty about the accuracy of the Quantitative Fair Value Estimate. Generally, the lower the Quantitative Uncertainty, the narrower the potential range of outcomes for that particular company. The rating is expressed as Low, Medium, High, Very High, and Extreme.

**Low** – the interquartile range for possible fair values is less than 10%

**Medium** – the interquartile range for possible fair values is less than 15% but greater than 10%

**High** – the interquartile range for possible fair values is less than 35% but greater than 15%

**Very High** – the interquartile range for possible fair values is less than 80% but greater than 35%

**Extreme** – the interquartile range for possible fair values is greater than 80%

v. **Quantitative Financial Health:** Intended to reflect the probability that a firm will face financial distress in the near future. The calculation uses a predictive model designed to anticipate when a company may default on its financial obligations. The rating is expressed as Weak, Moderate, and Strong.

**Weak** – assigned when Quantitative Financial Health < 0.2

**Moderate** – assigned when Quantitative Financial Health is between 0.2 and 0.7

**Strong** – assigned when Quantitative Financial Health > 0.7

### Other Definitions

i. **Last Close** – Price of the stock as of the close of the market of the last trading day before date of the report.

ii. **Quantitative Valuation** – Using the below terms, intended to denote the relationship between the security's **Last Price** and Morningstar's quantitative fair value estimate for that security.

**Undervalued – Last Price** is below Morningstar's quantitative fair value estimate.

**Fairly Valued – Last Price** is in line with Morningstar's quantitative fair value estimate.

**Fairly Valued – Last Price** is in line with Morningstar's quantitative fair value estimate.

**Overvalued – Last Price** is above Morningstar's quantitative fair value estimate.

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Sustainalytics analyzes over 1,300 data points to assess a company's exposure to and management of ESG risks. In other words, ESG Risk Ratings measures a company's unmanaged ESG Risks represented as a quantitative score. Unmanaged Risk is measured on an open-ended scale starting at zero (no risk) with lower scores representing less unmanaged risk and, for 95% of cases, the unmanaged ESG Risk score is below 50.

Based on their quantitative scores, companies are grouped into one of five Risk Categories (negligible, low, medium, high, severe). These risk categories are absolute, meaning that a 'high risk' assessment reflects a comparable degree

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The ESG Risk Rating Assessment is a visual representation of Sustainalytics ESG Risk Categories on a 1 to 5 scale. Companies with Negligible Risk = 5 Globes, Low Risk = 4, Medium Risk = 3 Globes, High Risk = 2 Globes, Severe Risk = 1 Globe. For more information, please visit [sustainalytics.com/esg-ratings/](https://sustainalytics.com/esg-ratings/)

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