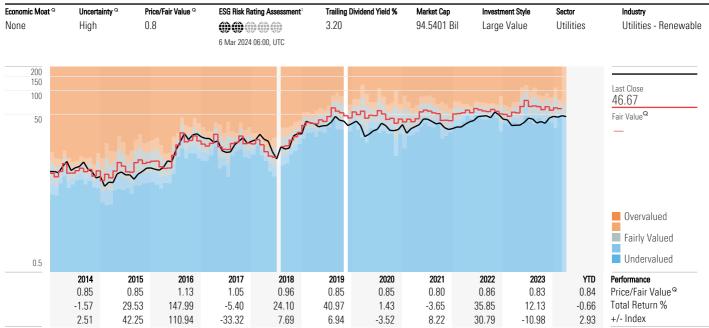
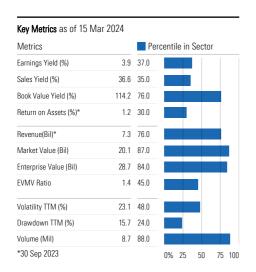
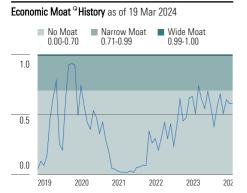
### Centrais Eletricas Brasileiras SA Class B ELET6 ★★★ Q 19 Mar 2024, 22:33 UTC



As of 19 Mar 2024 | Index: Morningstar Brazil GR BRL. Fair Value data as of 19 Mar 2024, 22:33 UTC

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.





#### **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.

### Valuation <sup>Q</sup>as of 19 Mar 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 47.51, a discount of 17.24% to its Quantitative Fair Value estimate of 57.41. This discount has ranged between 42.67% and 10.58% over the past year. The stock's price to fair value ratio is at the 63rd percentile in our global equity coverage universe for this methodology and at the 59th 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 03/11/2024, before which it was 3-star. Similarly, the firm's uncertainty rating changed from Very High to High after 03/11/2024.

We examine the financials and market statistics for Centrais Eletricas to determine these ratings. Its enterprise value-to-market value ratio is 1.44 and its trailing 12-month average volume (primary share) is 8,579,905 shares. These fall at the 75th and 92nd percentiles in the equity universe and at the 45th and 88th in the utilities sector, respectively.

### Economic Moat <sup>Q</sup>as of 19 Mar 2024

With a Morningstar quantitative moat rating of None, the quantitative moat score for Centrais Eletricas falls at the 45th percentile in the utilities sector and at the 51st in the equity coverage universe. The company has maintained its None quantitative moat rating since after 01/08/2024, when it was downgraded from Narrow.

We also assign a Moderate quantitative financial health rating to Centrais Eletricas. The company's raw score on this metric, termed Distance to Default, ranks at the 45th percentile overall and 50th in the utilities sector. Furthermore, this financial health rating has stayed Moderate over the last year.

Supporting these ratings are the company's book value yield and annualized trailing 12-month volatility. The book value yield of 116.89%, ranks at the 77th percentile overall and among its peers. Meanwhile, its annualized trailing 12-month volatility of 23.27%, falls at the 30th percentile in the universe and the 48th percentile in the utilities sector.

### Fundamentals as of 19 Mar 2024

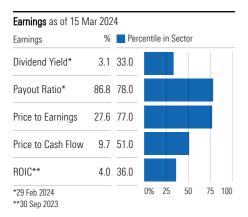
Centrais Eletricas maintains earnings per share of 1.65. The company further earns a return on invested capital of 4.03%. The shares offer a dividend yield of 3.12%. These values are calculated over a trailing 12-month period.

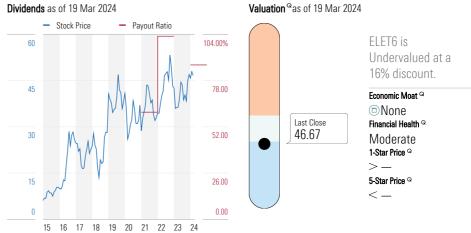
As of last market close, Centrais Eletricas has a price-to-earnings ratio of 26.76, falling below the 76th percentile in its sector (where a lower per-



## Centrais Eletricas Brasileiras SA Class B ELET6 ★★★ Q 19 Mar 2024, 22:33 UTC

Economic Moat Q Uncertainty Q Price/Fair Value Q ESG Risk Rating Assessment Trailing Dividend Yield % Market Cap Investment Style Sector Industry 94.5401 Bil None High 0.8 3.20 Large Value Utilities Utilities - Renewable 00000 6 Mar 2024 06:00, UTC





centile 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 9.37, falling at the 49th percentile in its sector and ranging between 8.36 and 16.87 over the past year.

### Contact

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https://www.eletrobras.com

Financials as of 19 Mar 2024 (Fiscal Year End 31 Dec 2023)											
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	YTD	Fiscal
30	32	50	29	26	29	25	35	34	_	27	Revenue (Bil)
-10.24	-16.16	24.21	4.26	16.36	8.84	1.95	4.51	4.19	_	10.40	Operating Income (Bil)
-33.98	-50.21	48.04	14.48	62.42	30.42	7.69	13.02	12.29	_	38.17	Operating Margin (%)
-6.23	-11.41	3.43	-1.76	14.47	11.20	6.39	5.71	3.64	_	3.50	Net Income (Bil)
-4.60	-8.43	2.45	-1.30	10.40	6.96	4.00	3.48	1.80	_	1.55	Diluted Earnings/Share
5,192	6,515	370	694	4,357	779	5,127	8,226	9,276	_	6,636	Operating Cash Flow (Mil)
-2.92	-4.52	-1.68	-1.24	-1.26	-2.02	-1.06	-1.19	-33.62	_	-2.28	Capital Spending (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)
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 a	aluation as of 19 Mar 2024  2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 Current Calendar											
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Current	Calendar	
0.85	0.85	1.13	1.05	0.96	0.85	0.85	0.80	0.86	0.83	0.84	Price/Fair Value Q	
0.42	0.41	0.62	0.78	0.97	1.94	1.77	1.45	2.58	2.92	2.86	Price/Sales	
_	_	14.63	_	_	3.97	6.31	7.54	27.75	27.31	26.76	Price/Earnings	
2.88	1.78	6.48	32.64	9.10	12.72	_	12.28	9.41	7.50	7.35	Price/Cash Flow	
0.19	0.27	0.68	0.66	0.88	0.82	0.77	0.68	0.89	0.94	0.92	Price/Book	

Uperating Performance as of 19 Mar 2024 (Fiscal Year End 31 Dec 2023)												
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	03	Fiscal (%)
	-4.4	-7.76	2.24	-1.03	7.49	5.96	3.56	3.07	1.59	_	0.37	Return on Assets
	-10.94	-23.94	8.32	-4.08	27.1	16.92	8.78	7.55	3.9	_	0.89	Return on Equity
	-4.9	-8.87	7.7	1.6	13.25	10.9	6.74	5.79	4.47	_	1.16	Rtn on Invested Capital

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<b>Dividends</b> as of 19 Mar 2024												
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Current	Calendar (%)
	1.63	0.10	_	1.79	_	1.47	1.79	2.64	1.61	1.49	1.49	Dividend Per Share
	20.07	_	_	_	_	_	_	7.99	3.73	_	3.2	Trailing Dividend Yield
	_	_	_	_	_	_	_	_	_	_	_	Buyback Yield



# **Appendix**

Economic Moa	t <sup>Q</sup> History as of 19 N	1ar 2024 (No Moa	at: 0.00-0.70, Nar	row 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	0.59	_	_	_	_	_	_	_	_	_
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



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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</p>
  - \*\* 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.

 $\label{log-log-log-log-log-log} \textit{Log (Quant FVE/Price) between (-0.5*Quantitative Uncertainty, 0.5*Quantitative Uncertainty)}$ 

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%

 $\label{eq:continuous} \textbf{Extreme} - \text{the interquartile range for possible fair values is greater than } 80\%$ 

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

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

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

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

Overvalued — Last Price is above Morningstar's quantitative fair value

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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



of unmanaged ESG risk across all subindustries covered.

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/esgratings/

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