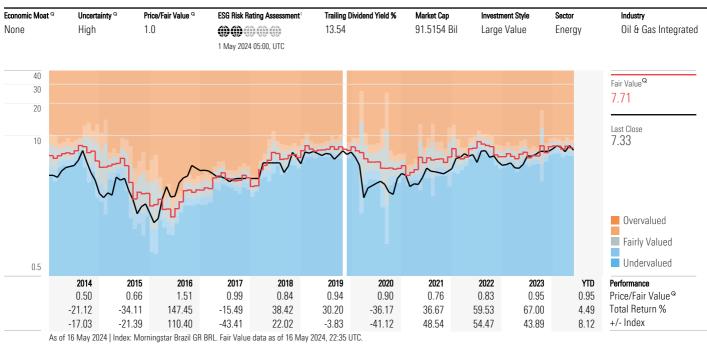
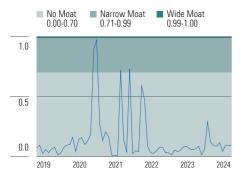
Petroleo Brasileiro SA Petrobras XPBR ★★★ Q 16 May 2024, 22:35 UTC



¹The 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 15 M	ay 2024								
Metrics	Percentile in Sector								
Earnings Yield (%)	22.1	91.0							
Sales Yield (%)	98.4	62.0							
Book Value Yield (%)	81.2	57.0							
Return on Assets (%)*	11.0	85.0							
Revenue(Bil)*	99.4	96.0							
Market Value (Bil)	105.3	97.0							
Enterprise Value (Bil)	150.7	98.0							
EVMV Ratio	1.4	71.0							
Volatility TTM (%)	28.0	41.0							
Drawdown TTM (%)	17.9	26.0							
Volume (Mil)	19.4	94.0							
*31 Mar 2024			0%	25	50	75	100		

Economic Moat ^QHistory as of 16 May 2024



Business Description

Petrobras is a Brazil-based integrated energy company controlled by the Brazilian government. The company focuses on exploration and production of oil and gas in Brazilian offshore fields. Production in 2023 was 2.8 million barrels of oil equivalent a day (80% oil production), and reserves stood at 10.9 billion boe (85% oil). At end-2023, Petrobras operated 10 refineries in Brazil with capacity of 1.8 million barrels a day and distributes refined products and natural gas throughout Brazil.

Valuation ^Qas of 16 May 2024

Petrobras Brasileiro achieves a 3-star quantitative star rating based on Morningstar's equity model. This reflects the company's valuation and uncertainty scores under this assessment system.

The Quantitative Fair Value estimate is 7.67, in-line with the previous closing price of 7.33. The stock has been trading between a 24.1% discount and 12.62% premium to its quantitative fair value over the past year. The stock's current valuation rating sits at the 84th percentile in the coverage universe and 84th percentile in the energy sector (higher percentile indicates more undervalued).

The quantitative uncertainty rating for Petrobras Brasileiro is High.

Our quantitative star rating last differed from the current rating on 10/02/2023; the uncertainty rating last differed on 02/28/2024. The previous ratings were 2 and Very High, respectively.

The main drivers of the company's valuation and uncertainty are its book value yield and volume. The book value yield of 81.24% falls at the 63rd percentile in the equity universe and the 57th percentile in its sector. The trailing 12-month average volume (primary share) of 19,442,117 shares corresponds to the 95th percentile overall and the 94th percentile in the industry.

Economic Moat ^Qas of 16 May 2024

With a Morningstar quantitative moat rating of None, the quantitative moat score for Petrobras Brasileiro falls at the 20th percentile in the energy sector and at the 12th in the equity coverage universe. The company has maintained its None quantitative moat rating for the last year.

We also assign a Moderate quantitative financial health rating to Petrobras Brasileiro. The company's raw score on this metric, termed Distance to Default, ranks at the 34th percentile overall and 37th in the energy 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 81.24%, ranks at the 63rd percentile in the covered equity universe and at the 57th percentile among its peers. Meanwhile, its annualized trailing 12-month volatility of 28.04%, falls at the 41st percentile in both the universe and the energy sector.

Fundamentals as of 16 May 2024

The earnings per share for Petrobras Brasileiro is 1.72. The company earns a return on invested capital of 18.14%, falling at the 86th percentile in the energy sector. The firm maintains a dividend yield of 12.25%. We calculate the above figures over a trailing 12-month period.

Examining valuation further, we find Petrobras Brasileiro holds a price-to-earnings ratio of 4.6, a figure greater than 15% of its sector peers. The company's price-to-free cash flow ratio is 3.46, greater than 13% of its sector peers. These values are calculated using the stock's price at last market close.



Petroleo Brasileiro SA Petrobras XPBR ★★★ Q 16 May 2024, 22:35 UTC



Contact	Financials a	is of 16 M	1ay 2024	Fiscal Yea	ar End 31	Dec 2024)					
Avenida Republica do Chile, 65, Rio de Janeiro, RJ	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	YTD	Fiscal
20031-912	144	97	81	78	85	77	54	84	124	102	24	Revenue (Bil)
+55 2132242401	14.30	14.70	15.69	9.71	22.77	20.92	20.05	31.00	53.26	39.27	9.07	Operating Income (Bil)
	9.95	15.11	19.28	12.47	26.91	27.31	37.35	36.92	42.79	38.35	38.16	Operating Margin (%)
https://www.petrobras.com.br	-7.37	-8.45	-4.84	-0.09	7.17	10.15	1.14	19.88	36.62	24.88	4.78	Net Income (Bil)
	-0.56	-0.65	-0.37	-0.01	0.55	0.78	0.09	1.52	2.81	1.91	0.37	Diluted Earnings/Share

1.02

1.73

0.86

58.84

23.3

13.54

0.64

_

Trailing Dividend Yield

Buyback Yield

-0.56	-0.65	-0.37	-0.01	0.55	0.78	0.09	1.52	2.81	1.91	0.37	Diluted Earnings/Share
26.75	25.99	26.11	27.11	26.35	25.60	28.89	37.79	49.72	43.21	9.39	Operating Cash Flow (Bil)
-34.81	-21.65	-14.09	-13.55	-11.91	-23.90	-5.87	-6.33	-9.58	-12.11	-2.84	Capital Spending (Bil)
-8.06	4.33	12.03	13.57	14.45	1.70	23.02	31.47	40.14	31.10	6.55	Free Cash Flow (Bil)
13	13	13	13	13	13	13	13	13	13	13	Avg Shares Outstand(Bil)
Valuation a	as of 16 N	1ay 2024									
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Current	Calendar
0.50	0.66	1.51	0.99	0.84	0.94	0.90	0.76	0.83	0.95	0.95	Price/Fair Value Q
0.33	0.25	0.80	-	0.87	1.15	1.20	0.99	0.62	1.03	1.04	Price/Sales
5.25	_	-	_	16.56	15.48	_	2.85	2.17	4.04	4.61	Price/Earnings
2.16	1.09	2.57	_	3.21	4.11	2.45	2.05	1.61	2.44	2.44	Price/Cash Flow
0.28	0.38	0.82	-	1.13	1.40	1.63	1.08	1.07	1.40	1.25	Price/Book
Operating	Performai	n ce as of	16 May 2	024 (Fisca	l Year End	d 31 Dec 3	2024)				
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	03	Fiscal (%)
-2.38	-3.19	-2.03	-0.04	3.03	4.49	0.54	10.91	20.26	12.31	2.22	Return on Assets
-5.56	-9.31	-6.81	-0.12	9.48	14.01	1.72	30.87	52.73	33.61	5.97	Return on Equity
-2.16	-2.09	-0.2	1.6	5.45	9.16	3.32	17.8	30.57	20.75	3.79	Rtn on Invested Capital
Dividends	as of 16 N	/lay 2024									
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Current	Calendar (%)
1.06	_		_	0.25	0.50	0.24	7.26	16.77	7.34	0.99	Dividend Per Share

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6.02



Appendix

Economic Moat ^Q History as of 16 May 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	0.09	0.12	0.04	0.10	0.09	_	_	_	_	_	_	_
2023	0.05	0.08	0.08	0.07	0.06	0.06	0.09	0.02	0.06	0.29	0.12	0.09
2022	0.47	0.08	0.03	0.03	0.05	0.08	0.08	0.03	0.03	0.01	0.05	0.04
2021	0.16	0.01	0.01	0.01	0.72	0.14	0.04	0.73	0.02	0.05	0.04	0.59
2020	0.16	0.04	0.15	0.16	0.10	0.13	0.18	0.89	0.97	0.27	0.14	0.21
2019	0.08	0.09	0.02	0.06	0.03	0.06	0.08	0.01	0.03	0.08	0.10	0.10



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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 analystdriven 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)

 $\star \star \star$ – 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)

 $\star \star \star \star$ – 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%

 $\ensuremath{\textit{Extreme}}\xspace -$ 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

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.

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.

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 estimate.

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of unmanaged ESG risk across all subindustries covered.

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