
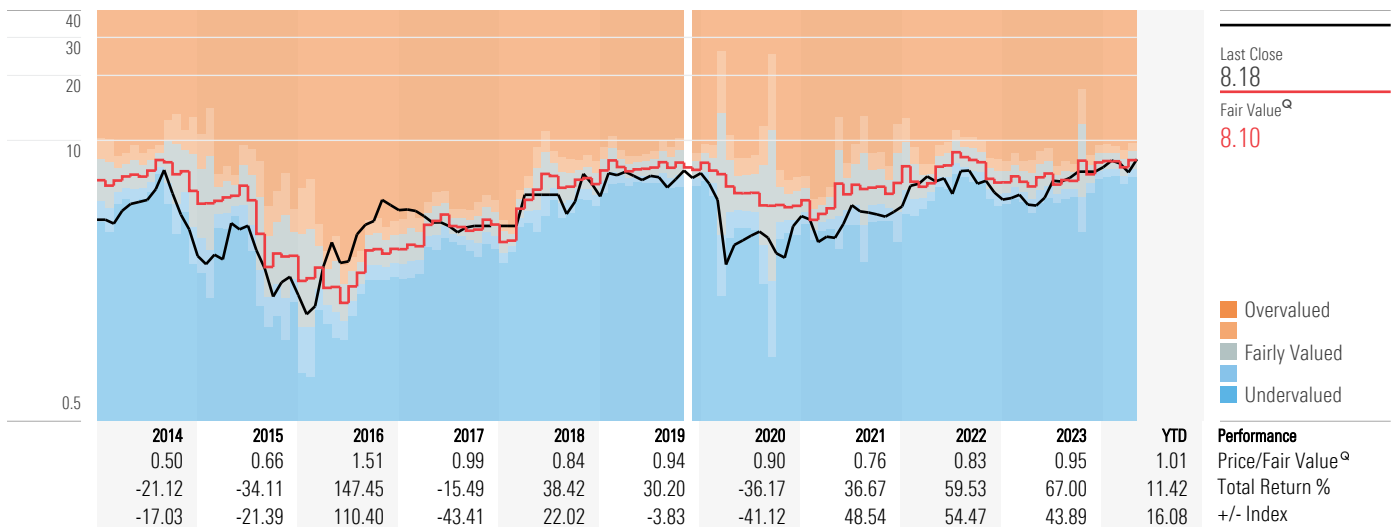


# Petroleo Brasileiro SA Petrobras XPBR ★★★ Q 26 Apr 2024, 22:42 UTC

<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	High	1.0	 3 Apr 2024 05:00, UTC	12.62	101.6874 Bil	Large Value	Energy	Oil & Gas Integrated



<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 25 Apr 2024

Metrics	Value	Percentile in Sector
Earnings Yield (%)	21.2	89.0
Sales Yield (%)	87.2	59.0
Book Value Yield (%)	67.5	46.0
Return on Assets (%)*	11.8	83.0
Revenue(Bil)*	96.1	96.0
Market Value (Bil)	106.3	97.0
Enterprise Value (Bil)	150.7	98.0
EV/MV Ratio	1.4	72.0
Volatility TTM (%)	27.1	38.0
Drawdown TTM (%)	17.9	27.0
Volume (Mil)	19.6	94.0

\*31 Dec 2023

## Business Description

No data available

## Valuation <sup>Q</sup> as of 26 Apr 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 7.84, in-line with the previous closing price of 7.99. 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 92nd percentile in the coverage universe and 92nd 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 67.51% falls at the 55th percentile in the equity universe and the 46th percentile in its sector. The trailing 12-month average volume (primary share) of 19,648,160 shares corresponds to the 95th percentile overall and the 94th percentile in the industry.

## Economic Moat <sup>Q</sup> as of 26 Apr 2024

With a Morningstar quantitative moat rating of None, the quantitative moat score for Petrobras Brasileiro falls at the 14th percentile in the energy sector and at the 9th 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 37th percentile overall and 41st 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 67.51%, ranks at the 55th percentile in the covered equity universe and at the 46th percentile among its peers. Meanwhile, its annualized trailing 12-month volatility of 27.13%, falls at the 39th percentile in the universe and the 38th percentile in the energy sector.

## Fundamentals as of 26 Apr 2024


Petrobras Brasileiro reports earnings per share of 9.27. Its return on invested capital is 19.92%. The company maintains a dividend yield of 19.21%, paying out 76.74% of earnings. These values are calculated over a trailing 12-month period. As of last market close, Petrobras Brasileiro has a price-to-earnings ratio of 4.74, falling at the 19th percentile in its sector (where a lower percentile means a lower ratio) and ranging between 1.75 and 4.85 over the past year. The company's price-to-free cash flow ratio is 3.79, falling at the 15th percentile in its sector and ranging between 1.6 and 3.88 over the past year.

## Contact

Avenida Republica do Chile, 65, Rio de Janeiro, RJ 20031-912  
+55 2132242401  
<https://www.petrobras.com.br>

# Petroleo Brasileiro SA Petrobras XPBR ★★★

Q 26 Apr 2024, 22:42 UTC

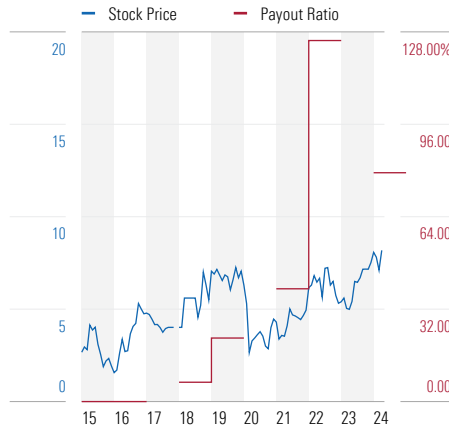
<b>Economic Moat</b> <sup>Q</sup>	<b>Uncertainty</b> <sup>Q</sup>	<b>Price/Fair Value</b> <sup>Q</sup>	<b>ESG Risk Rating Assessment</b> <sup>1</sup>	<b>Trailing Dividend Yield %</b>	<b>Market Cap</b>	<b>Investment Style</b>	<b>Sector</b>	<b>Industry</b>
None	High	1.0	 3 Apr 2024 05:00, UTC	12.62	101.6874 Bil	Large Value	Energy	Oil & Gas Integrated

## Earnings as of 25 Apr 2024

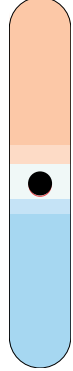
Earnings	%	Percentile in Sector
Dividend Yield*	19.2	95.0
Payout Ratio*	76.7	78.0
Price to Earnings	4.7	19.0
Price to Cash Flow	3.8	15.0
ROIC**	19.9	86.0

\*28 Mar 2024  
\*\*31 Dec 2023

## Dividends as of 26 Apr 2024



## Valuation <sup>Q</sup> as of 26 Apr 2024



XPBR is trading within a range we consider fairly valued..

**Economic Moat** <sup>Q</sup>

**None**

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

**Moderate**

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

> 9.75

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

< 6.73

## Financials as of 26 Apr 2024 (Fiscal Year End 31 Dec 2024)

2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	YTD	Fiscal
382	386	265	258	328	308	279	468	658	497	497	Revenue (Bil)
38	58	51	37	88	84	95	170	281	190	190	Operating Income (Bil)
9.95	15.11	19.28	14.33	26.91	27.15	33.98	36.3	42.72	38.15	38.15	Operating Margin (%)
-19.61	-33.47	-15.75	-0.30	27.80	40.85	5.93	110.77	193.66	120.77	120.77	Net Income (Bil)
-1.49	-2.57	-1.20	-0.03	2.13	3.14	0.47	8.47	14.86	9.27	9.27	Diluted Earnings/Share
71	103	85	90	102	103	150	211	263	210	210	Operating Cash Flow (Bil)
-93	-86	-46	-45	-46	-96	-31	-35	-51	-59	-59	Capital Spending (Bil)
-21.46	17.17	39.17	44.96	55.99	6.85	119.66	175.37	212.23	150.92	150.92	Free Cash Flow (Bil)
13	13	13	13	13	13	13	13	13	13	13	Avg Shares Outstand(Bil)

## Valuation as of 26 Apr 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	1.01	Price/Fair Value <sup>Q</sup>
0.37	0.26	0.77	—	0.85	1.18	1.26	1.10	0.60	1.00	1.18	Price/Sales
5.82	—	—	—	14.77	15.75	—	2.96	2.09	3.92	4.86	Price/Earnings
2.38	1.10	2.49	—	3.13	4.19	2.48	2.29	1.53	2.27	2.80	Price/Cash Flow
0.34	0.37	0.82	—	1.08	1.36	1.50	1.14	1.05	1.35	1.53	Price/Book

## Operating Performance as of 26 Apr 2024 (Fiscal Year End 31 Dec 2024)

2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Q3	Fiscal (%)
-2.52	-3.92	-1.83	-0.04	3.28	4.58	0.62	11.31	19.75	11.82	2.59	Return on Assets
-5.93	-11.79	-6.2	-0.12	10.26	14.28	1.97	31.86	51.35	32.25	7.01	Return on Equity
-2.52	-2.56	-0.57	1.62	5.92	9.33	3.78	18.43	29.75	19.92	4.36	Rtn on Invested Capital

## Dividends as of 26 Apr 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	1.03	Dividend Per Share
6.02	—	—	—	1.02	1.73	0.86	23.3	58.84	—	12.62	Trailing Dividend Yield
—	—	—	—	—	—	—	—	—	—	0.64	Buyback Yield

# Appendix

**Economic Moat** <sup>®</sup>History as of 26 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	0.09	0.12	0.04	0.08	—	—	—	—	—	—	—	—
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

# 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

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/esg-ratings/](https://sustainalytics.com/esg-ratings/)

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