

Binh Son Refinery (BSR)

China's gloomy economic outlook as a major risk

March 12, 2024

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2023 revenue and gross profit decreased sharply over the same period

In 2023, Binh Son Refinery (BSR) saw revenue down 12% YoY, mainly due to a 19% YoY drop in Brent crude oil price. The jet fuel crack spread remained high thanks to rising air travel demand in the region. However, the crack spread of other major refined petroleum products like gasoline A95, A92, and diesel all declined substantially from their high bases in the same period in 2022, leading to a significant contraction in BSR's gross profit margin.

China's gloomy economic outlook will be the major risk for Asian crack spreads in 2024 China keeps grappling with deflation and a real estate crisis, posing worries about the country's economic outlook. China's PMI still does not show signs of recovery. With subdued domestic consumption and industrial production, China may increase export quotas for refined petroleum products, creating oversupply risks in the Asian market and causing crack spreads to decline.

Low diesel inventories in Asia would support the crack spread of this product Diesel inventory in Singapore has remained low since September 2021, supporting high crack spreads. Excluding the risk factors related to consumption in the Chinese market, we believe diesel inventory will stay low for 2024 due to high GDP growth forecasts for India and Southeast Asian countries.

We recommend HOLD for BSR with a target price is VND21,300/share

We recommend a HOLD rating for BSR utilizing the FCFF and P/B valuation methods. The target price is VND21,300/share, representing a 12.1% upside compared to the closing price of VND19,000 apiece on March 12, 2024.

Hold maintain

Target price	VND21,300
Upside	12.1%
Current price (Mar 12, 2024)	VND19,000
Consensus target price	VND19,300
Market cap (VNDbn/USDmn)	58,599/2,441

Trading data	
Free float	7.9%
3M avg trading value (VNDbn/USDmn)	96.79/4.0
Foreign ownership	1.1%
Major shareholder	PetroVietnam
	(PVN, 92,1%)

Forecast	earnings	۶.	valuation
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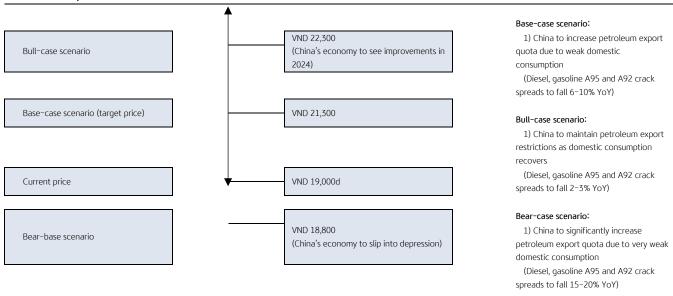
FY-end	2022A	2023A	2024F	2025F
Net revenue (VNDbn)	167,124	147,423	121,832	141,885
Operating income/loss (VNDbn)	14,673	7,948	6,031	7,653
NPAT-MI (VNDbn)	14,726	8,511	6,845	8,290
EPS (VND)	4,750	2,745	2,208	2,674
EPS growth (%)	129.1	-42.2	-20.0	21.0
P/E (x)	4.3	7.8	9.7	8.0
P/B (x)	1.2	1.2	1.1	1.1
ROE (%)	28.7	14.8	11.4	13.1
Dividend yield (%)	2.1	3.3	3.3	3.3

(%)	1M	3M	6M	12M
Absolute	-5.0	-0.5	-11.2	15.9
Relative	-6.5	-9.9	-11.2	-2.0



Source: Bloomberg, KB Securities Vietnam

Investment opinion & risks



Source: KB Securities Vietnam

Business performance

2023 revenue and gross profit decreased sharply over the same period

In 2023, Binh Son Refinery (BSR) saw revenue down 12% YoY, mainly due to a 19% YoY drop in Brent crude oil price. The jet fuel crack spread remained high thanks to rising air travel demand in the region. However, the crack spread of other major refined petroleum products like A95, A92 gasoline, and diesel all declined substantially from their high bases in the same period in 2022, leading to a significant contraction in BSR's gross profit margin.

Table 1. BSR - 2022A-2023A business results

(VNDbn)	4Q2022	4Q2023	%YoY	2022A	2023A	%YoY	KBSV's comments
Revenue	40,430	41,933	4%	167,134	146,907	-12%	The decrease in revenue was mainly due to crude oil prices being 19% lower than the high base of the same period despite consumption up 4% YoY.
Diesel	17,899	17,579	-2%	66,717	57,736	-13%	
Gasoline A95	10,093	12,258	21%	47,523	42,239	-11%	
Gasoline A92 & E5	5,148	4,585	-11%	24,088	19,900	-17%	
Jet A1	3,409	3,700	9%	11,372	11,954	5%	
FO	361	117	-68%	2,419	1,893	-22%	
LPG	1,870	2,002	7%	9,293	7,451	-20%	
Gross profit	1,727	2,529	46%	16,097	9,608	-40%	Except for JetA1, crack spreads of Gasoline A95, A92 and diesel all decreased sharply from their high bases in the same period, sending gross profit plummeting.
Gross profit margin	4.3%	6.0%		9.6%	6.5%		
SG&A	-545	-599	10%	-1,424	-1,660	17%	
Operating income/loss	1,182	1,930	63%	14,673	7,948	-46%	
Financial income	648	959	48%	1,750	2,659	52%	Deposit interest increased dramatically thanks to a huge amount of cash accumulated from 2022.
Financial expenses	-239	-351	47%	-923	-1,154	25%	Mainly due to foreign exchange loss
РВТ	1,621	2,546	57%	15,586	9,486	-39%	
NPAT	1,495	2,269	52%	14,669	8,455	-42%	
NPAT margin	3.7%	5.4%		8.8%	5.8%		
Production (million tons)	1,766	1,673	-5%	6,971	7,150	3%	
Consumption (million tons)	1,472	1,962	33%	7,004	7,256	4%	
Diesel	744	886	19%	2,838	2,990	5%	
Gasoline A95	444	567	28%	1,899	1,947	3%	
Gasoline A92	229	219	-4%	983	953	-3%	
Jet A1	125	114	-9%	552	514	-7%	
FO	17	35	106%	141	129	-9%	
LPG	108	117	8%	477	473	-1%	
Brent price (USD/barrel)	89	82	-7%	103	83	-19%	

Source: Binh Son Refinery, KB Securities Vietnam

China's gloomy economic outlook will be the major risk for Asian crack spreads in 2024 In 2023, China's economic growth was supported by the low base in 2022 resulting from the COVID-19 pandemic. For now, we are quite concerned about China's economic prospects, especially in industrial production, as the country keeps grappling with deflation and a real estate crisis. China's PMI might not see improvements in the near term. In the coming period, with weakening domestic consumption and sluggish industrial production activities, China may increase export quotas for refined petroleum products, creating oversupply risks in the Asian market and causing crack spreads to decline.

Russia's gasoline export ban until the end of 3Q2024 may cause crack spreads to rise Recently, the world's second-largest exporter of petroleum products, Russia, officially ordered a ban on gasoline exports from March 2024 until the end of the third quarter of 2024. The ban was implemented to stabilize commodity prices during the upcoming presidential election in Russia amidst significant damage to some of the country's key oil refineries following attacks from Ukraine. We expect this move to back gasoline crack spreads over the next six months.

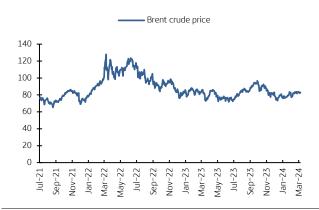
Low diesel inventories in Asia would support the crack spread of this product; petroleum inventories depend on seasonal factors and should decrease sharply from the end of 2Q2024 The diesel inventory in Singapore, known as an Asian oil trading hub, has remained low since September 2021, supporting high crack spreads. In February 2024, diesel inventory saw a significant rise primarily due to the effects of prolonged holidays in the regional countries. Excluding the risk factors related to consumption in the Chinese market, we believe diesel inventory will continue to remain low for 2024 due to high GDP growth forecasts for India and Southeast Asian nations.

Meanwhile, we anticipate that gasoline inventory in Singapore will still be affected by seasonal factors, meaning it should remain high until mid-2Q2024 and then sharply decrease when entering the peak season in 3Q2024.

We raised our projection for Brent price following its developments in 1Q2024 We raised our forecast for the Brent crude oil price in 2024F to USD83 per barrel (flat YoY) following its rallies during the low season. As noted in our 2024 Strategy Report, we believe that global crude oil consumption will experience relatively low growth due to challenges faced by the world's second-largest crude oil consumer, China. On the other hand, we anticipate that global supply will further remain tight in 2024F primarily due to (1) limited production growth from non-OPEC+ countries possibly constrained by drilling rig shortages and (2) bottlenecks in the Red Sea region that may persist in the long term, causing a steep reduction in global crude oil supply. We expect a balanced energy market in 2024, given the tight supply and conservative crude oil consumption growth forecast.

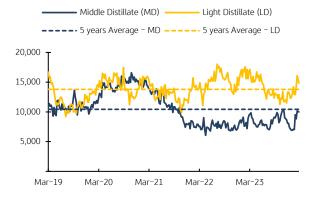
BSR plans to start performing the fifth maintenance in March and April 2024 As mentioned in previous reports, BSR is scheduled to conduct comprehensive maintenance of its oil refinery in March and April 2024. We estimate that this maintenance period will cause BSR's production output to decrease by approximately 17% YoY, negatively impacting the company's growth prospects for the year.

Fig 2. Global - Brent price (USD/barrel)



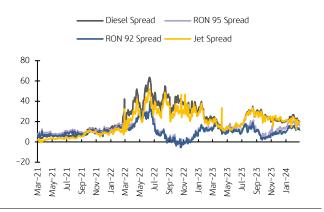
Source: Bloomberg, KB Securities Vietnam

Fig 4. Asia – Inventories of Middle Distillate (Diesel, FO, Jet A1) and Light Distillate (Gasoline A95, A92) (thousand barrels)



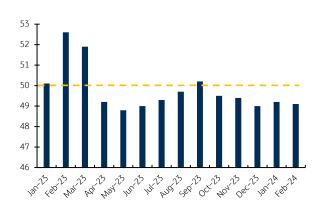
Source: Bloomberg, KB Securities Vietnam

Fig 3. Global – Crack spreads of major refined petroleum products (USD/barrel)



Source: Bloomberg, KB Securities Vietnam

Fig 5. China - PMI after post-pandemic reopening



Source: Bloomberg, KB Securities Vietnam

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Forecast & Valuation

Table 6. BSR - 2023A-2024F business results

(VNDbn)	2023A	2024F	%YoY	KBSV's comments
Revenue				The decrease is mainly due to the impact of a major 50-day maintenance
	146,907	121,832	-17%	period taking place from March 2024 to April 2024.
	140,707	121,032	1770	
Diesel	57,736	46,700	-19%	
Gasoline A95	42,239	35,359	-16%	
Gasoline A92 & E5	19,900	16,511	-17%	
Jet A1	11,954	10,319	-14%	
FO	1,893	1,397	-26%	
LPG	7,451	6,360	-15%	
Gross profit	9,608	7,402	-23%	Gross profit may fall sharply due to (1) impacts from the maintenance process and (2) crack spreads of gasoline A95, A92 and diesel assumed to drop by 6–10% YoY due to the risk of China promoting exports. The jet fuel crack spread
Gross profit margin	6.5%	6.1%		is expected to remain at the same level as in 2023.
SG&A	-1,660	-1,371	-17%	
Operating income/loss	7,948	6,243	-21%	
Financial income	2,659	6,031	127%	Driven by a large amount of cash and cash equivalents at the end of 2023
Financial expenses				Capitalizing the loan interest arising from the Dung Quat oil refinery upgrade
	-1,154	-1,174	2%	project so the total interest expense did not change significantly
РВТ	9,486	7,569	-20%	
NPAT	8,455	6,812	-19%	From 2023, BSR will be subject to a corporate tax rate of 10% from the preferential rate of 5%. $$
NPAT margin	5.8%	5.6%		
Production (million tons)	7,150	5,967	-17%	Major turnaround lasting 50 days
Consumption (million tons)	7,256	6,001	-17%	
Diesel	2,990	2,445	-18%	
Gasoline A95	1,947	1,637	-16%	
Gasoline A92	953	790	-17%	
Jet A1	514	441	-14%	
FO	129	95	-26%	
LPG	473	395	-16%	

Source: Binh Son Refinery, KB Securities Vietnam

Valuation

We recommend HOLD for BSR with a target price is VND21,300/share

By combining two valuation methods, Free Cash Flow to the Firm (FCFF) and and P/B comparables (with 2024F book value per share), we recommend HOLD for BSR with a target price of VND21,300 per share, equivalent to a 12.1% upside compared to the closing price of VND19,000 per share on March 12, 2024. The target P/B is set at 1.16x, based on the 5-year median P/B of BSR.

Table 7. BSR - FCFF model assumptions

	•		
Risk-free rate	4.7%	Present value of terminal value (VNDbn)	24,161
Market risk pren	nium 7.6%	Total present value for the period 2024-2028	15,193
Beta	1.44	Total present value	39,354
Average interest	rate 7.0%	Plus: Cash & Short-term investments	39,287
Corporate tax ra	te 10.0%	Less: Net Debt	-15,246
WACC	12.8%	Less: Minority interest	-124
Terminal growth	1.5%	Equity value	63,271
		Outstanding shares (million shares)	3,100.5
		Equity value/share (VND)	20,400

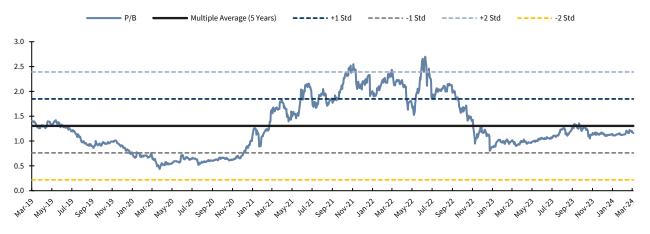
Source: Bloomberg, KB Securities Vietnam

Table 8. BSR - Valuation results

Valuation method	Forecast price	Weighting	Weighted price
FCFF	20,400	50%	10,200
P/B (1.16x)	22,249	50%	11,125
Target price (rounded)			21,300
Current price (Mar 12, 2024)			19,000
Upside			12.1%
C			

Source: KB Securities Vietnam

Fig 9. BSR - Historical P/B in 2019-2024 (x)



Source: Bloomberg, KB Securities Vietnam

BSR - 2022A-2025F financials

Income Statement (VND billion)	2022A	2023A	2024F	2025F		Balance Sheet VND billion)
ales	167,124	147,423	120,450	140,273	CURRENT ASSETS	
iles	-151,027	-137,815	-114,443	-132,651	Cash and cash equivalents	
rofit	16,097	9,608	6,007	7,622	Short-term investments	
ncial income	1,750	2,659	2,712	2,712	Accounts receivable	
ncial expenses	-923	-1,154	-1,174	-1,198	Inventories	
which: interest expenses	-253	-288	-294	-299	LONG-TERM ASSETS	
oss) from joint ventures (from 2015)	0	0	0	0	Long-term trade receivables	
ng expenses	-909	-1,034	-845	-984	Fixed assets	
eral and admin expenses rating profit/(loss)	-515 15,500	-626 9,453	-511 6,189	-595 7,557	Investment properties Long-term incomplete assets	
her incomes	13,300	32	0,109	0	Long-term investments	
ther expenses	1	0	0	0	TOTAL ASSETS	
other income/(expenses)	86	32	0	0	LIABILITIES	
ne from investments in other entities	1	2	3	4	Current liabilities	
counting profit/(loss) before tax	15,586	9,485	6,189	7,557	Trade accounts payable	
ate income tax expenses	-916	-1,031	-619	-756	Advances from customers	
fit/(loss) after tax	14,669	8,455	5,570	6,801	Short-term unrealized revenue	
interests	-57	-57	-27	-33	Short-term borrowings	
table to parent company	14,726	8,511	5,597	6,834	Long-term liabilities	
					Long-term trade payables	
ratio	20224	20224	20245	20255	Long-term advances from customers	
profit margin	2022A 9.6%	2023A 6.5%	2024F 5.0%	2025F 5.4%	Unrealized revenue	
orotit margin A margin	9.6%	6.5%	6.2%	6.9%	Long-term borrowings OWNER'S EQUITY	
margin	8.8%	5.4%	3.9%	4.3%	Paid-in capital	
-tax profit margin	9.3%	6.4%	5.1%	5.4%	Share premium	
perating profit margin	9.3%	6.4%	5.1%	5.4%	Undistributed earnings	
et profit margin	8.8%	5.7%	4.6%	4.9%	Minority interests	
t Flow Statement billion) try profit/(loss) before tax	2022A 15,586	2023A 9,486	2024F 6,189	2025F 7,557	Key ratios - Multiple	
preciation and amortisation	2,192	2,269	2,830	3,664	P/E	
fit/loss from investing activities	-1,102	-2,315	0	0	P/E diluted	
erest expense	253	288	294	299	P/B	
ating profit/(loss) before changes in ing Capital	16,929	9,728	9,313	11,520	P/S	
rease)/decrease in receivables	-2,943	1,848	-2,260	4,346	P/Tangible Book	
ase)/decrease in inventories	-6,577	1,305	1,431	1,710	P/Cash Flow	
se/(decrease) in payables	883	604	2	-4,435	EV/EBITDA	
ease)/decrease in prepaid expenses	184	36	0	0	EV/EBIT	
h inflows/(outflows) from operating	7,088	11,672	7,573	12,086	Operating performance	
hases of fixed assets and other long	1,000	11,012	1,515	12,000	Operating performance	
ssets	220					
	-220	-230	-7,701	-7,741	ROE	
eds from disposal of fixed assets	-220	-230 1	-7,701 0	-7,74 <u>1</u> 0	ROE ROA	
eeds from disposal of fixed assets s granted, purchases of debt ents						18.
eds from disposal of fixed assets granted, purchases of debt ints tion of loans, proceeds from sales	-7,826	1 -29,789	-29,789	-29,789	ROA	18.7
eeds from disposal of fixed assets s granted, purchases of debt lents ction of loans, proceeds from sales s instruments	0	1	0	0	ROA	18.7 38.0
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teeds from disposal of fixed assets as granted, purchases of debt ments ection of loans, proceeds from sales to instruments strents in other entities teeds from divestment in other strends and interest received sh inflows/(outflows) from investing es teeds from borrowings are teeds from borrowings are lease principal payments dends paid rests, dividends, profits received sh inflows/(outflows) from financing es treated from borrowings are lease principal payments dends paid rests, dividends, profits received sh inflows/(outflows) from financing es trease in cash and cash equivalents	0 -7,826 9,843 0 0 897 2,695 0 0 77,969 -79,886 0 -1,347 0	1 -29,789 10,840 0 0 1,303 -17,874 0 95,396 -93,407 0 -2,164 0	0 -29,789 0 0 0 -9,372 0 4,476 -193 0 -2,170 0	0 -29,789 0 0 0 -9,781 0 4,854 -1,790 0 -2,170 0	ROA ROIC Financial structure Cash Ratio Quick Ratio Current Ratio LT Debt/Equity LT Debt/Total Assets Debt/Equity Debt/Total Assets ST Liabilities/Equity ST Liabilities/Total Assets Total Liabilities/Fotal Assets Activity ratios	18.

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Investment ratings & definitions

Investment Ratings for Stocks

(based on expectations for absolute price gains over the next 6 months)

Buy:	Hold:	Sell:
+15% or more	+15% to -15%	-15% or more

Investment Ratings for Sectors

(based on expectations for absolute price gains over the next 6 months)

Positive:	Neutral:	Negative:
Outperform the market	Perform in line with the market	Undernerform the market

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