

9 January 2023

Energy & Petrochemicals | Regional Oil & Gas

Regional Oil & Gas

Overweight (Maintained)

Expecting a Balanced Oil Market; **OVERWEIGHT**

Stocks Covered 18
 Rating (Buy/Neutral/Sell): 14 / 3 / 1
 Last 12m Earnings Revision Trend: Positive

- OVERWEIGHT; Top Picks: Bumi Armada, Dayang Enterprise, Yinson, Bangchak Corp and PTT Oil and Retail Business (PTTOR).** We cut our average Brent crude oil price for 1Q23F to USD85/bbl (2023: USD88/bbl), but also think that it will take some time before the impact of China's reopening of borders is felt – this may gather momentum in 2Q23-3Q23. Concerns over soft demand remain, but OPEC+ should still be a major price support. That said, we expect a more balanced oil market in the medium term, with the theoretical supply deficit estimated at 0.2mbpd in 2023.
- We lower our 2023 Brent crude oil price forecast to USD88/bbl from USD90/bbl, and maintain 2024-2025 projections at USD80/bbl.** Our 1Q23 estimate drops to USD85/bbl as it will take some time before the impact of China's border reopening is felt – it may pick up in 2Q23-3Q23. Overall global crude oil demand should remain healthy, registering positive growth of 2.2mbpd this year. Note that apart from global economic uncertainties, there is also an increased risk of a supply disruption following the commencement of the EU embargo on Russian oil and the implementation of a price cap. For now, we may see a sudden decline in crude exports, but these should eventually be re-routed to other countries as time goes by – premised on the overall global demand being largely unaffected still.
- Relatively balanced oil market in 2023.** The International Energy Agency's (IEA) December Oil Market Report highlighted that Organisation for Economic Co-operation and Development (OECD) industry oil stocks have increased by 17m bbl to 2.77bn bbl in October, or 150m bbl below its 5-year average. Preliminary data for the US, Europe and Japan show industry stocks rose by 3m bbl in November. Currently, the inventory is above 2010-2014 levels, when oil prices averaged at >USD100/bbl. Based on our assumptions, we expect a relatively balanced market in 2023, with the estimated quarterly deficit-to-surplus ranging from -0.7mbpd to +0.8mbpd. Therefore, it is reasonable to assume that oil prices may stay above USD80/bbl. Meanwhile, a weak economic outlook – or, in the worst case, a recession – would bring down global demand significantly. With OPEC's commitment to cut production, this may somehow provide strong support for oil prices.
- Sector view.** We believe oil companies will maintain capex and opex spending plans, which will benefit upstream service providers (Yinson, Dayang Enterprise and Coastal Contracts). For Malaysia, the overall expectations of upstream activities by services players remain fairly robust. Also, there could be a potential increase in rates for new contracts, to cater for the rising cost of materials. For Thailand, we like PTTOR and Bangchak Corp – both Top Picks – on the basis of their oil & retail business recovery, which in turn would be supported by their nationwide oil & retail service branches in Thailand and neighbouring countries.

Top Picks

Company	Target Price
Bangchak Corporation (BCP TB) – BUY	THB39.00
PTT Oil and Retail Business (OR TB) – BUY	THB35.00
Bumi Armada (BAB MK) – BUY	MYR0.61
Dayang Enterprise (DEHB MK) – BUY	MYR1.58
Yinson (YNS MK) – BUY	MYR3.14

Analysts

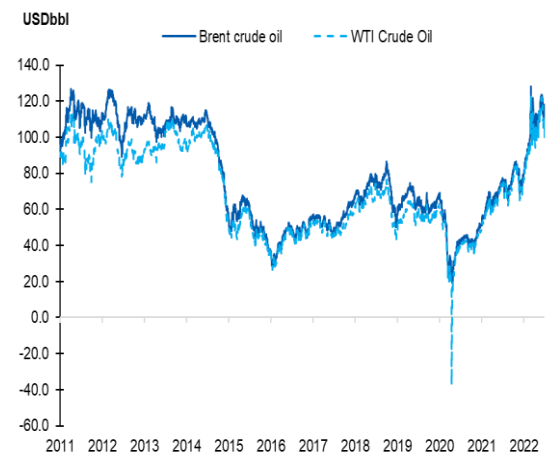
Sean Lim, CFA
 +603 9280 8867
sean.lim@rhbgroup.com



Athipu Visavaveja
 +66 2088 9827
athipu.vi@rhbgroup.com



Brent and WTI price trends



Source: Bloomberg

Company Name	Rating	Target	% Upside (Downside)	P/E (x) Dec-23F	P/B (x) Dec-23F	ROAE (%) Dec-23F	Yield (%) Dec-23F
Bangchak Corp	Buy	THB39.00	27.9	7.7	0.8	11.2	5.4
Bumi Armada	Buy	MYR0.61	29.2	3.7	0.5	15.7	-
Coastal Contracts	Buy	MYR2.76	11.9	7.9	0.8	10.7	-
Dayang Enterprise	Buy	MYR1.58	20.6	11.4	1.0	9.1	1.1
Dialog	Buy	MYR2.96	22.3	25.7	2.7	10.9	1.7
IRPC	Buy	THB4.50	53.1	9.1	0.7	7.6	6.8
Malaysia Marine & Heavy Engineering	Buy	MYR0.59	(4.6)	29.2	0.6	2.0	-
MISC	Buy	MYR8.10	12.3	14.9	0.9	6.2	4.6
Petronas Chemicals	Neutral	MYR9.34	11.1	11.1	1.6	15.2	4.5
Petronas Dagangan	Neutral	MYR22.58	1.3	26.3	3.8	14.5	3.0
PTT	Buy	THB51.00	56.9	8.4	0.9	11.1	5.7
PTT Exploration & Production	Buy	THB193.00	15.2	10.6	1.4	13.1	3.8
PTT Global Chemical	Buy	THB73.00	57.8	8.3	0.6	7.5	5.5
PTT Oil and Retail Business	Buy	THB35.00	48.9	19.9	2.4	12.7	1.5
Sapura Energy	Sell	MYR0.02	(50.0)	na	na	100.7	-
Star Petroleum Refining	Buy	THB11.70	20.0	6.4	0.9	14.7	3.9
Thai Oil	Buy	THB68.00	25.9	9.6	0.8	8.9	4.6
Yinson	Buy	MYR3.14	27.7	19.4	2.6	14.3	0.8

Source: Company data, RHB

Crude Oil Price Forecasts

We lower our Brent crude oil price forecast for 2023 to USD88 per bbl from USD90 per bbl, and maintain 2024-2025 projections at USD80 per bbl. 4Q22 crude prices averaged USD89 per bbl, bringing the YTD average to USD99 per bbl. This fell below our expectations, largely due to increased negative sentiment resulting from multiple factors, eg higher recession risks amidst weaker consumption in China. We lower our 1Q23 projection to USD85 per bbl as we believe it will take some time before the impact of China's reopening of borders can be felt – although this should garner momentum in 2Q23-3Q23. We assume overall demand to still be healthy this year, registering a positive growth of 2.2mbpd. This is also premised on a no-global recession scenario. We acknowledge the fact that, apart from global economic uncertainties, there is also an increased disruption in the supply side following the commencement of the EU embargo on Russian oil and the implementation of a price cap. For now, we may see a sudden decline in crude oil exports but there should eventually be a re-routing to other countries as time goes by – premised on the assumption that overall global demand will still be largely unaffected.

Our main assumptions are:

- i. Global oil demand is projected to grow by 2.2mbpd to 100mbpd in 2022 and another 2.7mbpd to 102.7mbpd in 2023;
- ii. Russia's oil and condensate production to decline by an average of 0.8mbpd to 10.0mbpd in 2023;
- iii. OPEC production to average 29.2mbpd in 2023 (vs Nov 2022's 28.8mbpd). Such production levels are below than the pre-pandemic level of 29.4mbpd in 2019.

With the assumptions highlighted above, we expect a relatively balanced market with an average theoretical deficit of 0.2mbpd in 2023.

Figure 1: Demand/supply and crude oil prices/forecasts

	2019	2020	2021	2022	1Q23F	2Q23F	3Q23F	4Q23F	2023F
Crude oil price (USD/bbl)									
Brent ,RHB (new)	64	43	71	99	85	90	90	85	88
Brent ,RHB (old)	64	43	71	99	95	90	90	85	90
World oil demand and supply balance (mbpd)									
Total demand	100.2	91.2	96.9	99.6	101.9	100.7	102.0	103.4	102.0
YoY change	1.0	-9.0	5.7	2.6	1.5	2.5	2.5	2.3	2.2
Total non-OPEC	65.6	63.0	63.7	65.6	66.5	66.9	67.2	67.9	67.1
OPEC NGLs	5.2	5.2	5.3	5.4	5.4	5.5	5.4	5.4	5.4
Total non-OPEC +OPEC NGLs	70.8	68.2	69.0	71.0	71.9	72.3	72.6	73.3	72.6
YoY change	2.1	-2.7	0.8	2.0	1.3	2.4	1.6	1.1	1.6
OPEC	29.4	25.7	26.4	28.8	29.1	29.2	29.3	29.3	29.2
Total production	100.2	93.9	95.3	99.8	101.0	101.5	101.9	102.6	101.8
Balance	0.0	2.7	-1.6	-0.2	0.8	-0.8	0.1	0.8	0.2

Note: Data as at Dec 2022

Source: OPEC, RHB

Impact on equities

Oil prices have been fairly weak in the past two months and we have seen companies with exploration and exploration businesses, like PTT Exploration & Production, seeing a concurrent sell-down in their share prices. However, the share prices of Malaysian oil & gas (O&G) companies, as evidenced by the Bursa Malaysia Energy Index, have been trending otherwise, surging as high as >20% from low levels in end-October. This was also backed by their strong 3Q22 results (announced in end-Nov 2022). As our oil prices are projected to average at USD88/bbl this year, we believe this will continue to encourage oil companies to maintain their capex and opex spending plans, which will be a boon to upstream services players (Yinson, Dayang Enterprise and Coastal Contracts). For Malaysia, the overall expectations of upstream activities by service providers remain fairly robust.

9 January 2023

Energy & Petrochemicals | Regional Oil & Gas

There could also be an upward revision of rates for new contracts, to cater for the rising cost of materials. That said, we believe margins will not be able to return to pre-pandemic levels amidst rising cost pressures that include higher logistics and equipment costs.

Meanwhile, in Thailand, we like oil retailing players now, as the economy continues to recover and businesses bounce back. Tourism is recovering after the COVID-19 pandemic, leading to a pick-up in demand for transportation services. Gasoline, diesel and aviation oil consumption, as such, is likely to recover. The oil retailing businesses are also doing better, as this is a high season for oil consumption and consumer spending. The Thai Government also plans to introduce measures to spur tourism, retail businesses and transportation activities. Premised on this, we like PTTOR and Bangchak Corp – both Top Picks – on the basis of the recovery of their oil retail businesses. This, in turn, is underpinned by both companies' nationwide oil retail branches in Thailand and neighbouring countries.

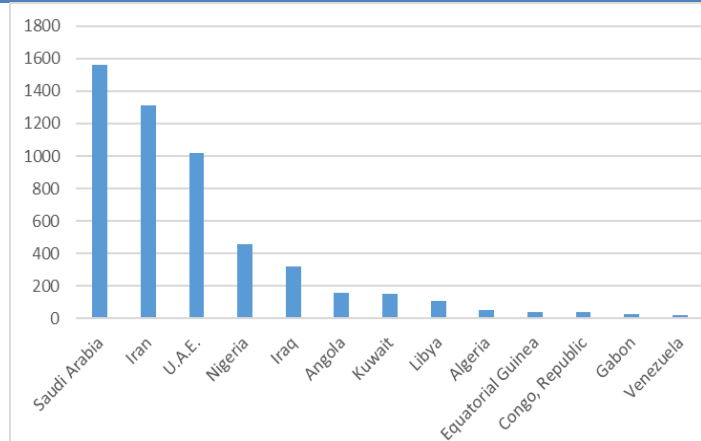
Global oil demand likely to stay healthy in 2023

As per OPEC's monthly report for Dec 2022, oil demand for 2022 and 2023 should stay largely unchanged from Nov 2022 levels. Global oil demand growth is still estimated at 2.5mbpd YoY, taking total demand to 99.6mbpd for 2022F (premised on global GDP growth of 2.8% YoY). For 2023, with a relatively lower global economic growth of 2.5% YoY, global oil demand is projected by OPEC to increase by 2.2mbpd YoY. The non-OECD region is projected to chart higher growth, at 1.9mbpd, vs OECD regions' 0.3mbpd in 2023F. Note that China and India are the largest growth factors, on the back of a recovery in transportation fuel and firm industrial fuel demand, including petrochemical feedstock.

No major action from OPEC+ but the cartel remains a major price supporter

In early Dec 2022, OPEC+ decided to maintain production levels. The frequency of the monthly meetings has been adjusted to every two months for the Joint Ministerial Monitoring Committee, with additional meetings to be hosted anytime to address market developments, if necessary. The 35th OPEC and non-OPEC Ministerial Meeting is scheduled on 4 Jun 2023. We believe the cartel will stay intact – and that it is still one of the strongest influencers in the world in terms of oil supply. According to Reuters, OPEC produced additional 120kbpd of oil MoM (to total 29mbpd) in December, largely due to the rebound in production in Nigeria.

Figure 2: OPEC's spare capacity



Source: Bloomberg

Figure 3: OPEC – crude oil production



Source: Bloomberg

EU price cap and its impact on the oil market

The EU's embargo on Russian oil started on 5 Dec with a price cap of USD60 per bbl, which also includes a mechanism to adjust prices to 5% below market price. We understand that the Urals grade was trading close to this level but saw a steeper decline in early December to USD40/bbl level in North-West Europe. Such a price cap will be reviewed in mid-January and every two months. A 45-day transitional period would apply to vessels carrying Russian oil loaded before 5 Dec, but a grace period of 90 days will be given after the regular review for vessels not to be caught.

The price cap review is an EU-specific mechanism that will require unanimity among the 27 countries that make up the bloc, for any changes to the price level. Once a change is agreed upon by the EU, it will then be discussed at the Group of Seven or G7 level, which includes the US, Canada, Britain and Japan.

If a third country-flagged vessel intentionally carries Russian oil above the price cap, EU operators will be prohibited from insuring, financing and servicing this vessel for the transport of Russian oil or petroleum products for 90 days after the cargo purchased above the price cap has been unloaded. If an EU-flagged vessel violates the price cap, it will be subject to the consequences that follow under each member state's national legislation.

The Russian Government has estimated a 0.5mbpd decline in production and IEA projected a 1.4mbpd drop production in 1Q23. Overall, we may see a sudden decline in crude exports, but there should eventually be a re-routing to other countries as time goes by – premised on overall global demand remaining largely unaffected. We believe the impact of the EU sanction will be partially cushioned by stronger take-up rates from Asia, including China and India, which has been the case since the Russia-Ukraine war broke out. There has also been market talk about potential ways to bypass such regulations including ship-to-ship transfers mid-ocean to hide the origin of the oil products.

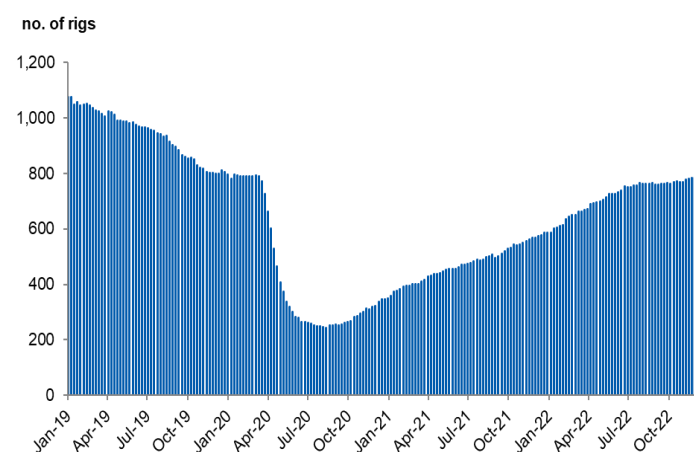
US production remains as a laggard

The US Energy Information Administration (EIA) expects US crude production to improve by 0.5mbpd YoY to 12.3mbpd in 2023. Although this would make the US the producer that delivers the strongest output growth in 2023, such forecasts have been adjusted downwards since the beginning of the year. This is despite the strong rig count numbers. The US rig count is still on an uptrend, albeit, at a decelerating pace – it stood at 784 in early December, up by about 38% from a year ago, but still pointed to a gap from the 900-1,000 levels recorded in 2018-2019.

Despite the strong rig count, US production increased by just 0.4mbpd on average to 12.1mbpd since early 2022. There seems to be no change in shale producers' strategies, especially in their capex spending, to merely match the natural decline rate or single-digit production growth plan. Meanwhile, they continued to face supply chain disruptions, workforce shortages and equipment bottlenecks – which hampered their production growth. Things got worse when cost inflation hit almost all the items, ie raw materials, labour and equipment, lifting their breakeven levels to high USD50s-low USD60s levels.

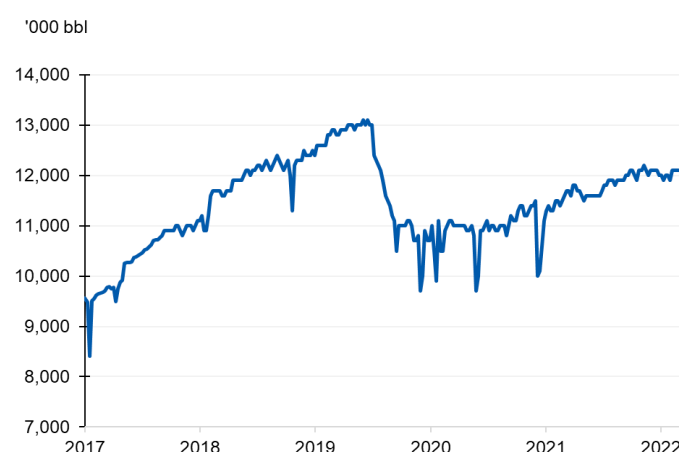
Based on the EIA's latest Drilling Productivity Report, total drilled but uncompleted (DUC) wells in the US started to increase marginally in November to 4,408 (+0.2%). This suggests drilling may surpass fracking activities.

Figure 4: US rig count



Source: Bloomberg

Figure 5: US crude oil production



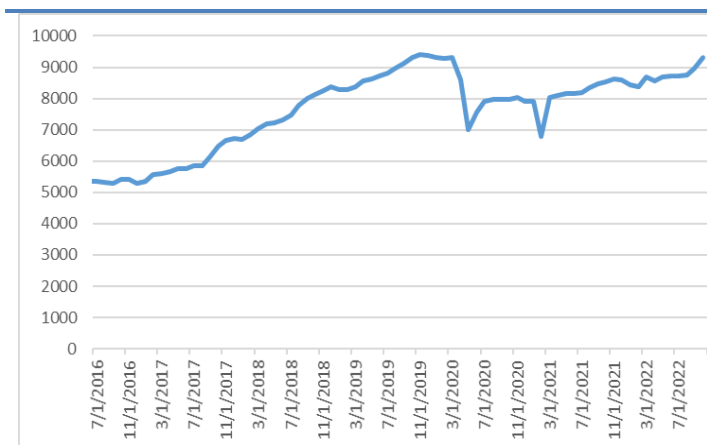
Source: Bloomberg

Figure 6: US annual oil production to accelerate in 2023

(mbpd)	2016	2017	2018	2019	2020	2021	2022	2023
US crude oil production	8.84	9.35	10.99	12.29	11.28	11.25	11.87	12.34
US crude oil production growth	-0.6	0.51	1.64	1.3	-1.01	-0.03	0.62	0.47

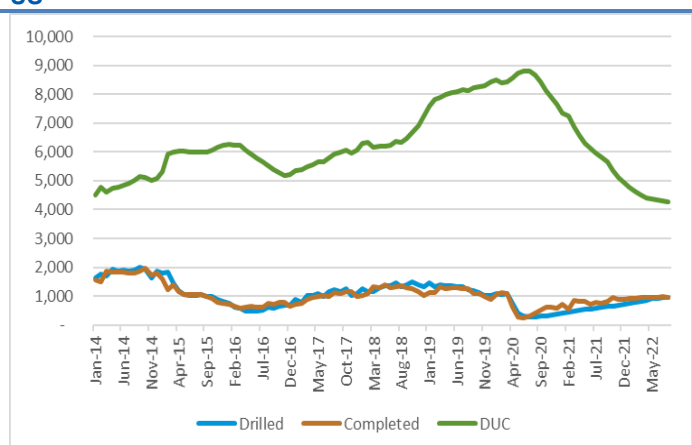
Source: EIA, RHB

Figure 7: US shale production



Source: Bloomberg

Figure 8: Newly drilled, completed wells and DUCs in the US

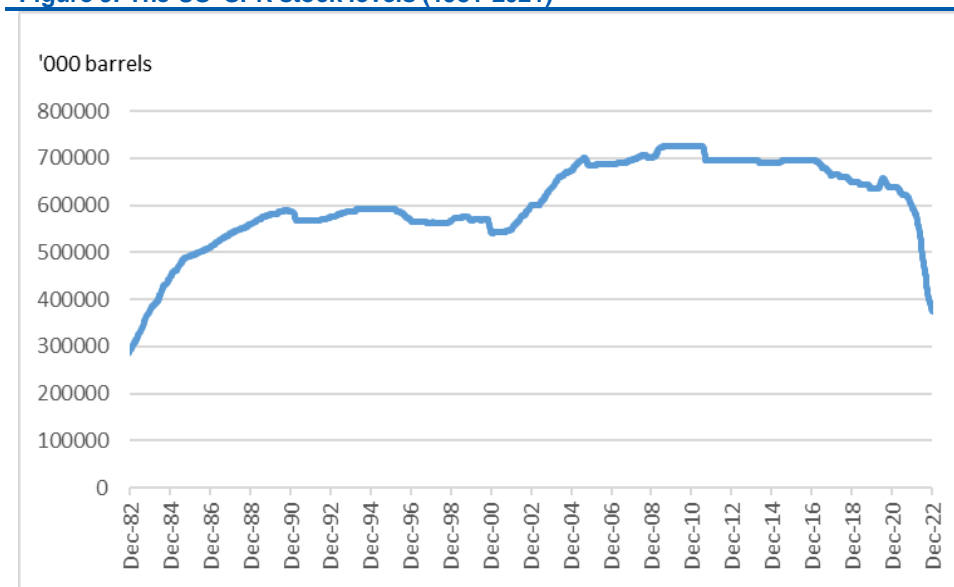


Source: Bloomberg

US to replenish SPR in 2023

Meanwhile, the US announced its plan to replenish the Strategic Petroleum Reserve (SPR) after it released an unprecedented 180m bbl to cool down energy prices. Based on the EIA’s disclosure, the US’ SPR stock level was at 375m as of end-Dec 2022 – about 211m lower vs the start of this year, before the release plan was announced. This also marks the lowest level since 1984, although it is still well above what the US is required under the agreement with allies in the IEA. At such a low level of SPR, it leaves President Joe Biden with very few options to curb energy prices, as further draining the reserve could heighten the national security risk and make the US vulnerable to another major supply disruption. As such, the replenishment plan is essential to strengthen its reserve, leveraging on the recent weakness in WTI when it traded to USD70/bbl level.

Figure 9: The US’ SPR stock levels (1981-2021)



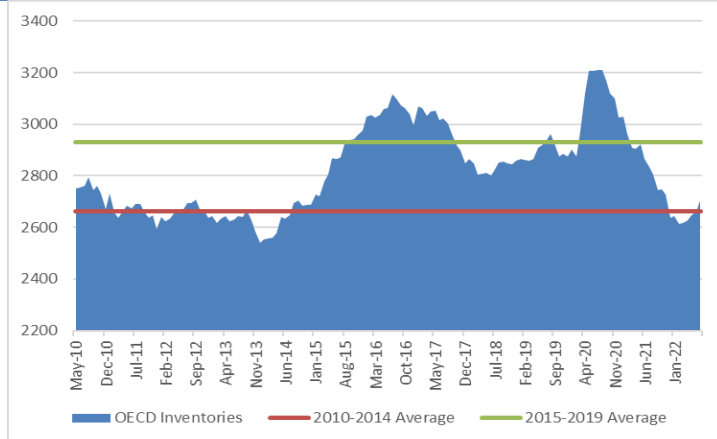
Source: EIA

OECD inventories level are slightly above 2010-2014 levels

The IEA’s December Oil Market Report highlighted that OECD industry oil stocks increased by 17m bbl to 2.77bn bbl in October, or 150m bbl below its 5-year average. Despite so, OECD government stocks fell by 20m bbls. Preliminary data for the US, Europe and Japan show industry stocks increased by 3m bbls in November. Currently, the inventory level is above 2010-2014 levels, of which oil prices had averaged at above USD100/bbl. Based on our assumptions, we expect a relatively balanced market on average in 2023, with the estimated quarterly deficit-to-surplus range of -0.7mbpd to +0.8mbpd. Therefore, it is reasonable to assume that oil prices could stay above USD80/bbl.

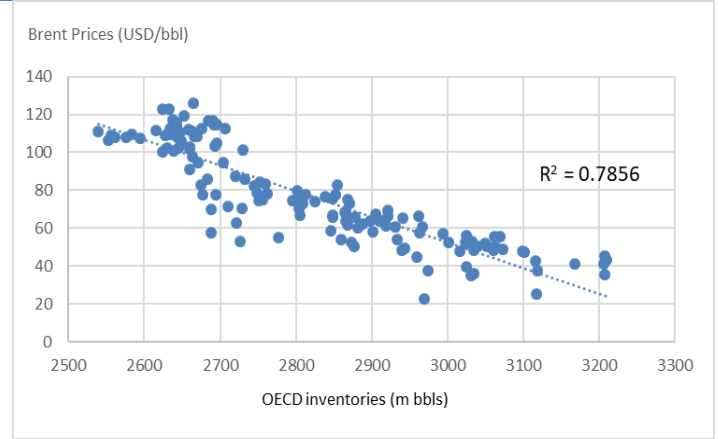
On demand, a weak economic outlook – or, in the worst case, a recession – could bring down global demand significantly. With OPEC’s commitment to cut production, this may somehow provide a strong support for oil prices.

Figure 10: OECD inventories are slightly above the 2010-2014 averages



Source: Bloomberg

Figure 11: OECD inventory levels are strongly correlated with oil prices



Source: Bloomberg

RHB Guide to Investment Ratings

Buy:	Share price may exceed 10% over the next 12 months
Trading Buy:	Share price may exceed 15% over the next 3 months, however longer-term outlook remains uncertain
Neutral:	Share price may fall within the range of +/- 10% over the next 12 months
Take Profit:	Target price has been attained. Look to accumulate at lower levels
Sell:	Share price may fall by more than 10% over the next 12 months
Not Rated:	Stock is not within regular research coverage

Investment Research Disclaimers

RHB has issued this report for information purposes only. This report is intended for circulation amongst RHB and its affiliates' clients generally or such persons as may be deemed eligible by RHB to receive this report and does not have regard to the specific investment objectives, financial situation and the particular needs of any specific person who may receive this report. This report is not intended, and should not under any circumstances be construed as, an offer or a solicitation of an offer to buy or sell the securities referred to herein or any related financial instruments.

This report may further consist of, whether in whole or in part, summaries, research, compilations, extracts or analysis that has been prepared by RHB's strategic, joint venture and/or business partners. No representation or warranty (express or implied) is given as to the accuracy or completeness of such information and accordingly investors should make their own informed decisions before relying on the same.

This report is not directed to, or intended for distribution to or use by, any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction where such distribution, publication, availability or use would be contrary to the applicable laws or regulations. By accepting this report, the recipient hereof (i) represents and warrants that it is lawfully able to receive this document under the laws and regulations of the jurisdiction in which it is located or other applicable laws and (ii) acknowledges and agrees to be bound by the limitations contained herein. Any failure to comply with these limitations may constitute a violation of applicable laws.

All the information contained herein is based upon publicly available information and has been obtained from sources that RHB believes to be reliable and correct at the time of issue of this report. However, such sources have not been independently verified by RHB and/or its affiliates and this report does not purport to contain all information that a prospective investor may require. The opinions expressed herein are RHB's present opinions only and are subject to change without prior notice. RHB is not under any obligation to update or keep current the information and opinions expressed herein or to provide the recipient with access to any additional information. Consequently, RHB does not guarantee, represent or warrant, expressly or impliedly, as to the adequacy, accuracy, reliability, fairness or completeness of the information and opinion contained in this report. Neither RHB (including its officers, directors, associates, connected parties, and/or employees) nor does any of its agents accept any liability for any direct, indirect or consequential losses, loss of profits and/or damages that may arise from the use or reliance of this research report and/or further communications given in relation to this report. Any such responsibility or liability is hereby expressly disclaimed.

Whilst every effort is made to ensure that statement of facts made in this report are accurate, all estimates, projections, forecasts, expressions of opinion and other subjective judgments contained in this report are based on assumptions considered to be reasonable and must not be construed as a representation that the matters referred to therein will occur. Different assumptions by RHB or any other source may yield substantially different results and recommendations contained on one type of research product may differ from recommendations contained in other types of research. The performance of currencies may affect the value of, or income from, the securities or any other financial instruments referenced in this report. Holders of depositary receipts backed by the securities discussed in this report assume currency risk. Past performance is not a guide to future performance. Income from investments may fluctuate. The price or value of the investments to which this report relates, either directly or indirectly, may fall or rise against the interest of investors.

This report may contain comments, estimates, projections, forecasts and expressions of opinion relating to macroeconomic research published by RHB economists of which should not be considered as investment ratings/advice and/or a recommendation by such economists on any securities discussed in this report.

This report does not purport to be comprehensive or to contain all the information that a prospective investor may need in order to make an investment decision. The recipient of this report is making its own independent assessment and decisions regarding any securities or financial instruments referenced herein. Any investment discussed or recommended in this report may be unsuitable for an investor depending on the investor's specific investment objectives and financial position. The material in this report is general information intended for recipients who understand the risks of investing in financial instruments. This report does not take into account whether an investment or course of action and any associated risks are suitable for the recipient. Any recommendations contained in this report must therefore not be relied upon as investment advice based on the recipient's personal circumstances. Investors should make their own independent evaluation of the information contained herein, consider their own investment objective, financial situation and particular needs and seek their own financial, business, legal, tax and other advice regarding the appropriateness of investing in any securities or the investment strategies discussed or recommended in this report.

This report may contain forward-looking statements which are often but not always identified by the use of words such as "believe", "estimate", "intend" and "expect" and statements that an event or result "may", "will" or "might" occur or be achieved and other similar expressions. Such forward-looking statements are based on assumptions made and information currently available to RHB and are subject to known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievement to be materially different from any future results, performance or achievement, expressed or implied by such forward-looking statements. Caution should be taken with respect to such statements and recipients of this report should not place undue reliance on any such forward-looking statements. RHB expressly disclaims any obligation to update or revise any forward-looking statements, whether as a result of new information, future events or circumstances after the date of this publication or to reflect the occurrence of unanticipated events.

The use of any website to access this report electronically is done at the recipient's own risk, and it is the recipient's sole responsibility to take precautions to ensure that it is free from viruses or other items of a destructive nature. This report may also provide the addresses of, or contain hyperlinks to, websites. RHB takes no responsibility for the content contained therein. Such addresses or hyperlinks (including addresses or hyperlinks to RHB own website material) are provided solely for the recipient's convenience. The information and the content of the linked site do not in any way form part of this report. Accessing such website or following such link through the report or RHB website shall be at the recipient's own risk.

This report may contain information obtained from third parties. Third party content providers do not guarantee the accuracy, completeness, timeliness or availability of any information and are not responsible for any errors or omissions (negligent or otherwise), regardless of the cause, or for the results obtained from the use of such content. Third party content providers give no express or implied warranties, including, but not limited to, any warranties of merchantability or fitness for a particular purpose or use. Third party content providers shall not be liable for any direct, indirect, incidental, exemplary, compensatory, punitive, special or consequential damages, costs, expenses, legal fees, or losses (including lost income or profits and opportunity costs) in connection with any use of their content.

The research analysts responsible for the production of this report hereby certifies that the views expressed herein accurately and exclusively reflect his or her personal views and opinions about any and all of the issuers or securities analysed in this report and were prepared independently and autonomously. The research analysts that authored this report are precluded by RHB in all circumstances from trading in the securities or other financial instruments referenced in the report, or from having an interest in the company(ies) that they cover.

The contents of this report is strictly confidential and may not be copied, reproduced, published, distributed, transmitted or passed, in whole or in part, to any other person without the prior express written consent of RHB and/or its affiliates. This report has been delivered to RHB and its affiliates' clients for information purposes only and upon the express understanding that such parties will use it only for the purposes set forth above. By electing to view or accepting a copy of this report, the recipients have agreed that they will not print, copy, videotape, record, hyperlink, download, or otherwise attempt to reproduce or re-transmit (in any form including hard copy or electronic distribution format) the contents of this report. RHB and/or its affiliates accepts no liability whatsoever for the actions of third parties in this respect.

The contents of this report are subject to copyright. Please refer to Restrictions on Distribution below for information regarding the distributors of this report. Recipients must not reproduce or disseminate any content or findings of this report without the express permission of RHB and the distributors.

The securities mentioned in this publication may not be eligible for sale in some states or countries or certain categories of investors. The recipient of this report should have regard to the laws of the recipient's place of domicile when contemplating transactions in the securities or other financial instruments referred to herein. The securities discussed in this report may not have been registered in such jurisdiction. Without prejudice to the foregoing, the recipient is to note that additional disclaimers, warnings or qualifications may apply based on geographical location of the person or entity receiving this report.

The term "RHB" shall denote, where appropriate, the relevant entity distributing or disseminating the report in the particular jurisdiction referenced below, or, in every other case, RHB Investment Bank Berhad and its affiliates, subsidiaries and related companies.

RESTRICTIONS ON DISTRIBUTION

Malaysia

This report is issued and distributed in Malaysia by RHB Investment Bank Berhad ("RHBIB"). The views and opinions in this report are our own as of the date hereof and is subject to change. If the Financial Services and Markets Act of the United Kingdom or the rules of the Financial Conduct Authority apply to a recipient, our obligations owed to such recipient therein are unaffected. RHBIB has no obligation to update its opinion or the information in this report.

Thailand

This report is issued and distributed in the Kingdom of Thailand by RHB Securities (Thailand) PCL, a licensed securities company that is authorised by the Ministry of Finance, regulated by the Securities and Exchange Commission of Thailand and is a member of the Stock Exchange of Thailand. The Thai Institute of Directors Association has disclosed the Corporate Governance Report of Thai Listed Companies made

pursuant to the policy of the Securities and Exchange Commission of Thailand. RHB Securities (Thailand) PCL does not endorse, confirm nor certify the result of the Corporate Governance Report of Thai Listed Companies.

Indonesia

This report is issued and distributed in Indonesia by PT RHB Sekuritas Indonesia. This research does not constitute an offering document and it should not be construed as an offer of securities in Indonesia. Any securities offered or sold, directly or indirectly, in Indonesia or to any Indonesian citizen or corporation (wherever located) or to any Indonesian resident in a manner which constitutes a public offering under Indonesian laws and regulations must comply with the prevailing Indonesian laws and regulations.

Singapore

This report is issued and distributed in Singapore by RHB Bank Berhad (through its Singapore branch) which is an exempt capital markets services entity and an exempt financial adviser regulated by the Monetary Authority of Singapore. RHB Bank Berhad (through its Singapore branch) may distribute reports produced by its respective foreign entities, affiliates or other foreign research houses pursuant to an arrangement under Regulation 32C of the Financial Advisers Regulations. Where the report is distributed in Singapore to a person who is not an Accredited Investor, Expert Investor or an Institutional Investor, RHB Bank Berhad (through its Singapore branch) accepts legal responsibility for the contents of the report to such persons only to the extent required by law. Singapore recipients should contact RHB Bank Berhad (through its Singapore branch) in respect of any matter arising from or in connection with the report.

United States

This report was prepared by RHB is meant for distribution solely and directly to "major" U.S. institutional investors as defined under, and pursuant to, the requirements of Rule 15a-6 under the U.S. Securities and Exchange Act of 1934, as amended (the "Exchange Act") via a registered U.S. broker-dealer as appointed by RHB from time to time. Accordingly, any access to this report via Bursa Marketplace or any other Electronic Services Provider is not intended for any party other than "major" US institutional investors (via a registered U.S broker-dealer), nor shall be deemed as solicitation by RHB in any manner. RHB is not registered as a broker-dealer in the United States and currently has not appointed a U.S. broker-dealer. Additionally, RHB does not offer brokerage services to U.S. persons. Any order for the purchase or sale of all securities discussed herein must be placed with and through a registered U.S. broker-dealer as appointed by RHB from time to time as required by the Exchange Act Rule 15a-6. For avoidance of doubt, RHB reiterates that it has not appointed any U.S. broker-dealer during the issuance of this report. This report is confidential and not intended for distribution to, or use by, persons other than the recipient and its employees, agents and advisors, as applicable. Additionally, where research is distributed via Electronic Service Provider, the analysts whose names appear in this report are not registered or qualified as research analysts in the United States and are not associated persons of any registered U.S. broker-dealer as appointed by RHB from time to time and therefore may not be subject to any applicable restrictions under Financial Industry Regulatory Authority ("FINRA") rules on communications with a subject company, public appearances and personal trading. Investing in any non-U.S. securities or related financial instruments discussed in this research report may present certain risks. The securities of non-U.S. issuers may not be registered with, or be subject to the regulations of, the U.S. Securities and Exchange Commission. Information on non-U.S. securities or related financial instruments may be limited. Foreign companies may not be subject to audit and reporting standards and regulatory requirements comparable to those in the United States. The financial instruments discussed in this report may not be suitable for all investors. Transactions in foreign markets may be subject to regulations that differ from or offer less protection than those in the United States.

DISCLOSURE OF CONFLICTS OF INTEREST

RHB Investment Bank Berhad, its subsidiaries (including its regional offices) and associated companies, ("RHBIB Group") form a diversified financial group, undertaking various investment banking activities which include, amongst others, underwriting, securities trading, market making and corporate finance advisory.

As a result of the same, in the ordinary course of its business, any member of the RHBIB Group, may, from time to time, have business relationships with, hold any positions in the securities and/or capital market products (including but not limited to shares, warrants, and/or derivatives), trade or otherwise effect transactions for its own account or the account of its customers or perform and/or solicit investment, advisory or other services from any of the subject company(ies) covered in this research report.

While the RHBIB Group will ensure that there are sufficient information barriers and internal controls in place where necessary, to prevent/manage any conflicts of interest to ensure the independence of this report, investors should also be aware that such conflict of interest may exist in view of the investment banking activities undertaken by the RHBIB Group as mentioned above and should exercise their own judgement before making any investment decisions.

In Singapore, investment research activities are conducted under RHB Bank Berhad (through its Singapore branch), and the disclaimers above similarly apply.

Malaysia

Save as disclosed in the following link [RHB Research conflict disclosures – Dec 2022](#) and to the best of our knowledge, RHBIB hereby declares that:

- RHBIB does not have a financial interest in the securities or other capital market products of the subject company(ies) covered in this report.
- RHBIB is not a market maker in the securities or capital market products of the subject company(ies) covered in this report.

- None of RHBIB's staff or associated person serve as a director or board member* of the subject company(ies) covered in this report
**For the avoidance of doubt, the confirmation is only limited to the staff of research department*
- RHBIB did not receive compensation for investment banking or corporate finance services from the subject company in the past 12 months.
- RHBIB did not receive compensation or benefit (including gift and special cost arrangement e.g. company/issuer-sponsored and paid trip) in relation to the production of this report.

Thailand

Save as disclosed in the following link [RHB Research conflict disclosures – Dec 2022](#) and to the best of our knowledge, RHB Securities (Thailand) PCL hereby declares that:

- RHB Securities (Thailand) PCL does not have a financial interest in the securities or other capital market products of the subject company(ies) covered in this report.
- RHB Securities (Thailand) PCL is not a market maker in the securities or capital market products of the subject company(ies) covered in this report.
- None of RHB Securities (Thailand) PCL's staff or associated person serve as a director or board member* of the subject company(ies) covered in this report
**For the avoidance of doubt, the confirmation is only limited to the staff of research department*
- RHB Securities (Thailand) PCL did not receive compensation for investment banking or corporate finance services from the subject company in the past 12 months.
- RHB Securities (Thailand) PCL did not receive compensation or benefit (including gift and special cost arrangement e.g. company/issuer-sponsored and paid trip) in relation to the production of this report.

Indonesia

Save as disclosed in the following link [RHB Research conflict disclosures – Dec 2022](#) and to the best of our knowledge, PT RHB Sekuritas Indonesia hereby declares that:

- PT RHB Sekuritas Indonesia and its investment analysts, does not have any interest in the securities of the subject company(ies) covered in this report.
For the avoidance of doubt, interest in securities include the following:
 - Holding directly or indirectly, individually or jointly own/hold securities or entitled for dividends, interest or proceeds from the sale or exercise of the subject company's securities covered in this report*;
 - Being bound by an agreement to purchase securities or has the right to transfer the securities or has the right to pre subscribe the securities*.
 - Being bound or required to buy the remaining securities that are not subscribed/placed out pursuant to an Initial Public Offering*.
 - Managing or jointly with other parties managing such parties as referred to in (a), (b) or (c) above.
- PT RHB Sekuritas Indonesia is not a market maker in the securities or capital market products of the subject company(ies) covered in this report.
- None of PT RHB Sekuritas Indonesia's staff** or associated person serve as a director or board member* of the subject company(ies) covered in this report.
- PT RHB Sekuritas Indonesia did not receive compensation for investment banking or corporate finance services from the subject company in the past 12 months.
- PT RHB Sekuritas Indonesia** did not receive compensation or benefit (including gift and special cost arrangement e.g. company/issuer-sponsored and paid trip) in relation to the production of this report:

Notes:

*The overall disclosure is limited to information pertaining to PT RHB Sekuritas Indonesia only.

**The disclosure is limited to Research staff of PT RHB Sekuritas Indonesia only.

Singapore

Save as disclosed in the following link [RHB Research conflict disclosures – Dec 2022](#) and to the best of our knowledge, the Singapore Research department of RHB Bank Berhad (through its Singapore branch) hereby declares that:

- RHB Bank Berhad, its subsidiaries and/or associated companies do not make a market in any issuer covered by the Singapore research analysts in this report.
- RHB Bank Berhad, its subsidiaries and/or its associated companies and its analysts do not have a financial interest (including a shareholding of 1% or more) in the issuer covered by the Singapore research analysts in this report.
- RHB Bank Berhad's Singapore research staff or connected persons do not serve on the board or trustee positions of the issuer covered by the Singapore research analysts in this report.
- RHB Bank Berhad, its subsidiaries and/or its associated companies do not have and have not within the last 12 months had any corporate finance advisory relationship with the issuer covered by the Singapore research analysts in this report or any other relationship that may create a potential conflict of interest.
- RHB Bank Berhad's Singapore research analysts, or person associated or connected to it do not have any interest in the acquisition or disposal of, the securities, specified securities based derivatives contracts or units in a collective investment scheme covered by the Singapore research analysts in this report.
- RHB Bank Berhad's Singapore research analysts do not receive any compensation or benefit in connection with the production of this research report or recommendation on the issuer covered by the Singapore research analysts.

Analyst Certification

The analyst(s) who prepared this report, and their associates hereby, certify that:

- they do not have any financial interest in the securities or other capital market products of the subject companies mentioned in this report, except for:

Analyst	Company
-	-



(2) no part of his or her compensation was, is or will be directly or indirectly related to the specific recommendations or views expressed in this report.



KUALA LUMPUR

RHB Investment Bank Bhd
Level 3A, Tower One, RHB Centre
Jalan Tun Razak
Kuala Lumpur 50400
Malaysia
Tel : +603 9280 8888
Fax : +603 9200 2216

JAKARTA

PT RHB Sekuritas Indonesia
Revenue Tower, 11th Floor, District 8 - SCBD
Jl. Jendral Sudirman Kav 52-53
Jakarta 12190
Indonesia
Tel : +6221 509 39 888
Fax : +6221 509 39 777

BANGKOK

RHB Securities (Thailand) PCL
10th Floor, Sathorn Square Office Tower
98, North Sathorn Road, Silom
Bangrak, Bangkok 10500
Thailand
Tel: +66 2088 9999
Fax :+66 2088 9799

SINGAPORE

RHB Bank Berhad (Singapore branch)
90 Cecil Street
#04-00 RHB Bank Building
Singapore 069531
Fax: +65 6509 0470