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# **Industry Insights**

Global Oil and Gas M&A Outlook

Q3 2023



## **Executive Summary**

In this edition of our Global Oil and Gas M&A Outlook, we examine and evaluate current trends for commodities prices, leading sector indicators, valuation developments, M&As performed during the guarter and developments on featured specialty subsectors.

Our top insights for this edition are detailed below:

- The LNG market remains heavily impacted by the Russia's war on Ukraine, which has caused a seismic shift in LNG trade flows as the European continent has turned into a major LNG importer willing to pay premium prices.
- The stagnating supply of LNG will continue until 2025– 2026 when a new cycle of liquefaction capacity comes online. In consequence, the LNG market will face upward pricing pressure, especially in winter, when European and East Asian LNG demand may turn inelastic.
- In Q3 2023, global M&A activity registered a total of 154 deals with a disclosed value of USD 56.0 billion. The registered transactions are mainly concentrated in North America (52% of announced global deals and 77% of their disclosed value), specifically the U.S., which represented 36% of global deals with 75% of the global disclosed value.

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#### **Explanatory Note:**

To create this report, Kroll prepared a set of peer groups, according to the eight most representative subindustries of the oil and gas sector and the most relevant companies by market capitalization.

Deals displayed in "Top 10 Global Deals Announced" include acquisitions of private companies that do not disclose some information. Other M&A analysis performed throughout the report considers all available information.



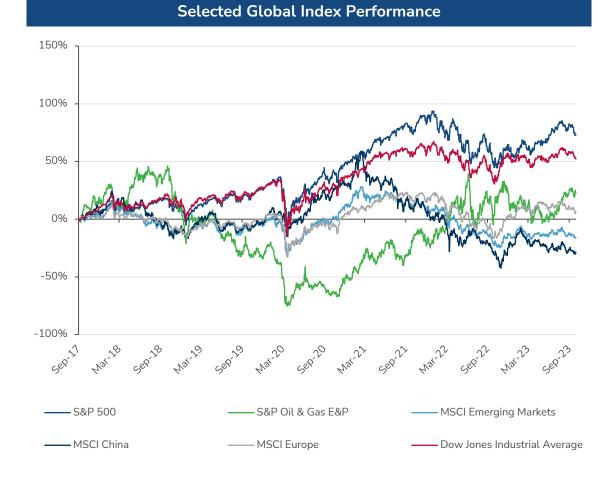
LNG: liquefied natural gas.



### **Economic Environment** • •

#### **Key Considerations**

- Over the last 12 months, the economic environment has been largely impacted by inflation levels remaining above policymakers' targets.
- Given the negative nature of elevated inflation, central banks have implemented an aggressive monetary policy of interest rate increases to counter inflation.
- In the short term, policymakers have made it clear that the restrictive cycle and the efforts against elevated inflation aren't over. Therefore, interest rates are set to remain elevated, while further rate increases may be enacted depending on the economic outcomes.
- Given the negative correlation between interest rates and the performance of most stocks, the current environment of elevated interest rates has negatively impacted the financial markets around the world, and companies' potential earnings are diminished.
- Despite the challenging conditions caused by elevated interest rates and the risk of recession in the U.S. and the Eurozone, index performance levels have grown YoY. The S&P 500 has grown 19.6%, and the Dow Jones has grown 16.6%, while MSCI China and Europe are up 2.9% and 25.4%.



#### Source: Capital IQ

#### **Explanatory Note:**

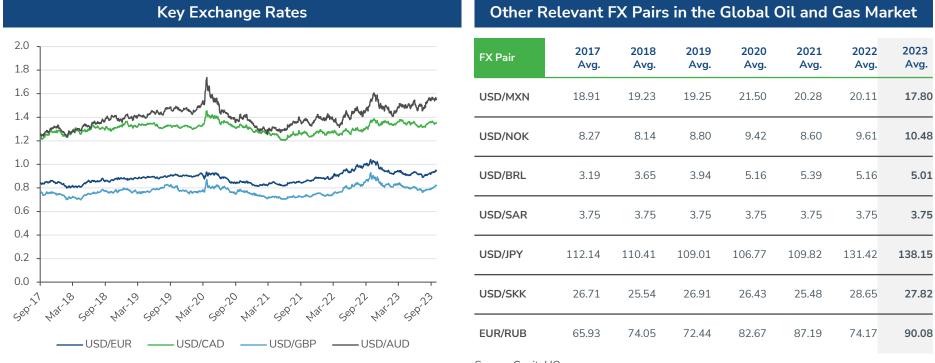
The graph shown above portrays the performance of selected indexes against the S&P Oil and Gas E&P Industry Index, which encompasses a selection of the most important E&P companies in the world. The calculation takes September 1, 2017, as the starting point and tracks the percent change until October 1, 2023. **Definition:** 

E&P: exploration and production. S&P: Standard & Poor's 500. MSCI: Morgan Stanley Capital International



### **Economic Environment O**

FX Rates of Key Currency Pairs



Source: Capital IQ Note: 2023 average considers January–September.

#### **Key Considerations**

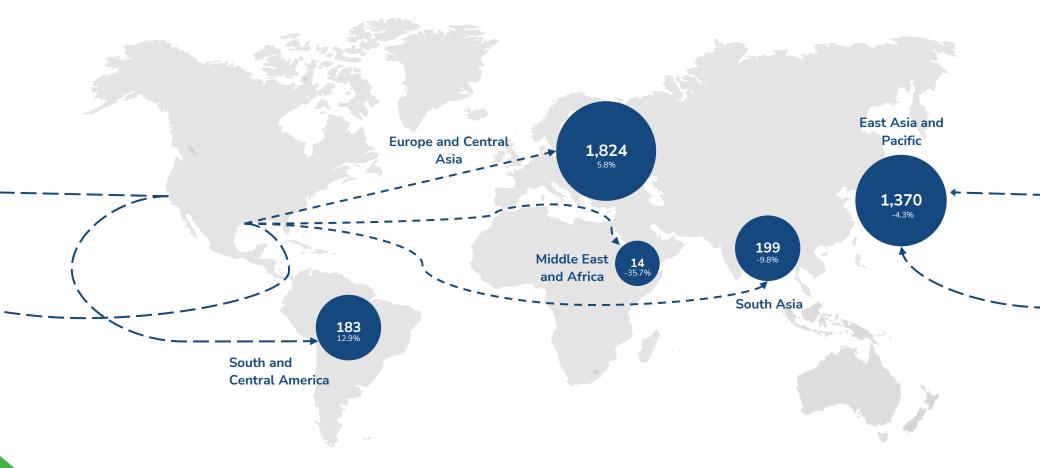
- The different banking cycles among the advanced economies are a major driver of FX fluctuations. As central banks evaluate their response, high
  interest rates in the short term will make major currencies such as the U.S. dollar or the euro more attractive to investors who look for returns in
  more solid currencies.
- In Q3 2023, the U.S. dollar has been characterized by its strength and supported by healthy economic activity in the U.S. The lasting strength of the U.S. dollar will depend on local consumer spending, which may be negatively affected by the depletion of consumer savings and less favorable credit conditions after the pandemic.

**Definition:** FX: foreign exchange.

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## **Trading Statistics**

### Q3 2023 U.S. Crude Oil Exports by Region (MBbls/d)



#### Source: U.S. Department of Energy

Explanatory Note: Data for this visualization includes U.S. commodity export values from July 2023 to August 2023. Definition: MBbls/d: thousand barrels per day.

### **Trading Statistics** •••

#### **Key Considerations**

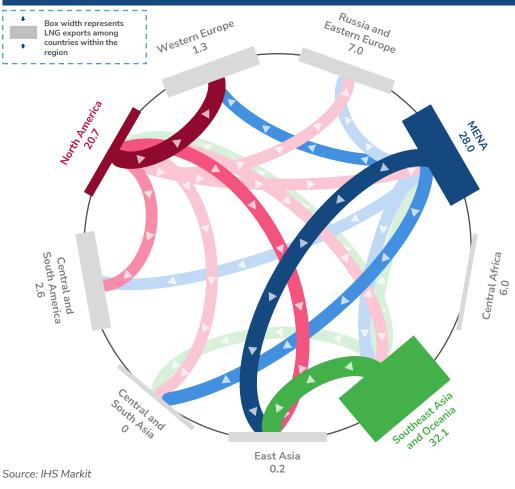
- Throughout 2023, the LNG market has continued to face constrained supply and high demand, keeping prices above the levels registered before late 2021. This situation is expected to continue until new liquefaction capacity becomes available in 2025 and 2026, mainly in the U.S. and Qatar.
- Heightened demand is linked to geopolitical events. Specifically, the reduction of Russian supply to Europe has forced the European continent to become a major LNG importer.
- This situation has benefited major global exporters of LNG, including MENA, North America, and Southeast Asia and Oceania, which together represent 82.6% share of global LNG exports, equivalent to 80.8 MMt.
- In Q3 2023, global LNG trade has decreased by 3.3 MMt, or 3.2%, compared to Q2 2023 despite the continued high demand and constrained supply conditions.
- Reductions in exports were mainly driven by lack of demand from Western Europe, which had an import decrease of 7.7 MMt QoQ, due to weak industrial demand and the continent's high levels of gas reserves (96% as of October 2, 2023).
- At the same time, exports to East Asia have increased by 3.9 MMt, thanks to stabilizing prices at levels below the previous year.

#### **Explanatory Note:**

Data for this visualization includes commodity bilateral trade export values of selected regions from July 2023 to September 2023. Values accompanying the boxes indicate the global LNG exports for each region during the analyzed period. Definitions:

LNG: liquefied natural gas. MMt: million metric tons. QoQ: quarter over quarter.



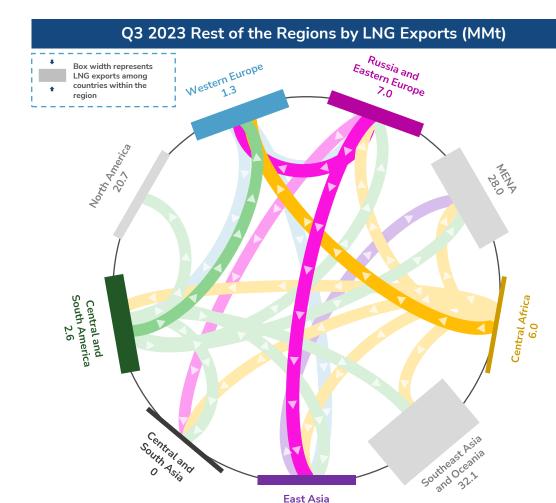


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## **Trading Statistics**00•

#### **Key Considerations**

- The rest of the regions highlighted in the illustration are mainly importers of LNG. In Q3 2023, they accounted for 19.2% of global LNG exports, equivalent to 17.1 MMt. This export total was reduced by 1.2 MMt from 18.3 MMt in Q2 2023.
- Specifically in East Asia, Western Europe and Eastern Europe, the intensity of the upcoming winter will prove to be a key factor in the short term for LNG demand. As heightened competition for LNG supplies requires the buildup of a sufficient stockpile to serve national gas demand, nations are taking measures to ensure sufficient gas reserves.
- In consequence, the cold months in Europe and East Asia may increase the inelasticity of LNG demand, which paired with a constrained supply of LNG may cause price spikes on the spot market.
- However, this effect has been delayed considering that European gas reserves remain elevated (96% as of October 2, 2023) and the continent's demand is weaker. This fact has enabled reduced spot prices YoY.
- Reduced YoY prices have encouraged an active spot market in China, which is set to resume its role as the world's largest single LNG market, becoming the primary driver of LNG demand.



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#### Source: IHS Markit

#### **Explanatory Note:**

Data for this visualization includes commodity bilateral trade export values of selected regions from July 2023 to September 2023. Values accompanying the boxes indicate the global LNG exports for each region during the analyzed period. **Definitions:** 



LNG: liquefied natural gas. MMt: million metric tons.

## **Leading Sector Indicators** • **O**

#### **Key Considerations**

- During Q3 2023, OECD commercial crude oil days of supply remained steady QoQ, despite Saudi Arabia's voluntary 1 MBbls/d production cut in July this year. This days of supply level is expected to last at least until the end of the year.
- Average U.S. crude oil and gasoline days of supply presented minimum variances due to a 3.0% decrease in crude oil exports and an increase in average refinery percent utilization from 92.0% to 92.7% QoQ.
- Average days of supply for OECD countries presented the following movements QoQ:
  - The OECD average crude oil supply has remained stable, increasing by one day.
  - U.S. crude oil supply has declined QoQ by three days, standing at 26 days in Q3 2023.
  - U.S average gasoline supply stands at 25 days after increasing by one day QoQ.
- The U.S. Department of Energy announced on July 7, 2023, the purchase of 6 million barrels of oil for the strategic petroleum reserves for October and November 2023. This is the third repurchase request issued this year to replenish the reserves and tame the high oil prices observed last year.

#### OECD and U.S. Days of Supply Q3 2023



#### Source: U.S. Energy Information Administration

#### **Explanatory Note:**

Days of supply is "a measure of the adequacy of inventories. It is calculated by taking the current stock level and dividing by product supplied (used as an estimate of demand) averaged over the most recent four-week period. For crude oil, refinery inputs of crude oil are used as a proxy for demand" (U.S. Energy Information Administration). Definitions:

QoQ: quarter over quarter. MBbls/d: thousand barrels per day.

### **Leading Sector Indicators** •

#### **Key Considerations**

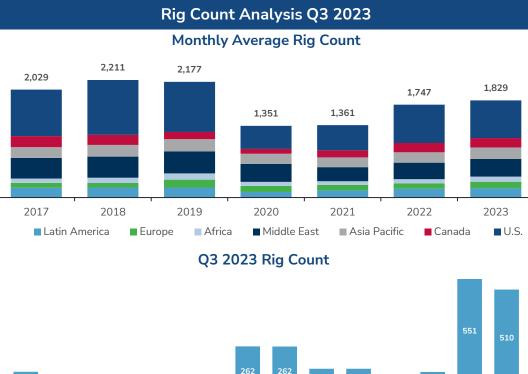
- In 2023, the monthly average rig count increased by 82 to 1,829 rigs. This increase was mainly driven by Europe, the Middle East and Asia Pacific, which added 21 rigs each. In contrast, the U.S. was the only country to reduce its rig count, with a 10-rig reduction.
- In terms of QoQ growth, Canada registered the largest quarterly rig count growth at the end of Q3 2023, with 42 additional rigs, a 2.4% increase. This contrasts with Canada's previous decrease of 50 rigs between the end of Q1 2023 and Q2 2023.
- At the end of Q3 2023, the U.S. registered a 3.1% decline in rig count QoQ due to a reduction of 41 oil rigs and 15 gas rigs.
- Oil prices and rig counts present a direct relationship with a two-to-three-month lag. In the U.S., rig count peaked at 779 in December of 2022 thanks to high prices caused by the Ukrainian conflict. Since then, as prices have fallen, U.S. rig closures have driven the QoQ global rig decline in 2023.
- This trend is expected to reverse as the U.S. is set to increase its rigs to over 700 in 2024 from the average of 626 in Q3 2023. With this increase, the U.S. hopes to accomplish production targets from operators and benefit from growing prices caused by the OPEC cuts and the turmoil in the Middle East.

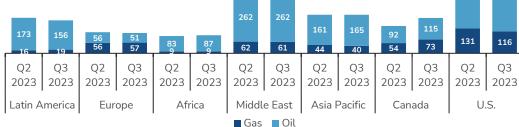
#### Explanatory Note:

The first graph, "Monthly Average Rig Count," displays the average number of active drilling rigs throughout the world. This indicator is closely watched as a precursor to oil production across the oil and gas sector. The second graph, "Q3 2023 Rig Count," does not include "Miscellaneous" rigs because they represent a marginal number of rigs. Furthermore, "Q3 2023 Rig Count" considers rig count at the end of each quarter.

Definition:

QoQ: quarter over quarter.



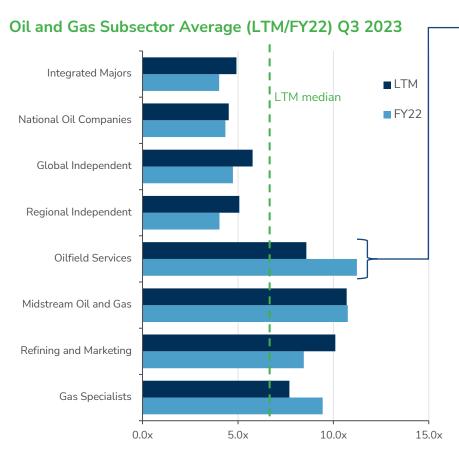


Source: Baker Hughes, September 30, 2023

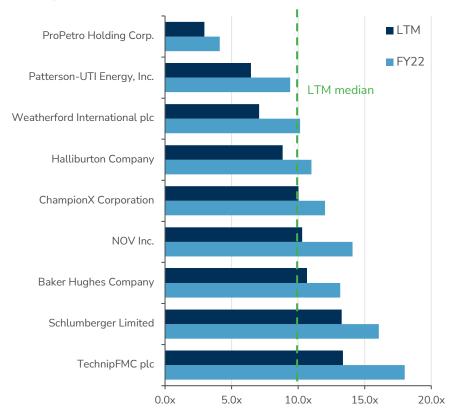
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## Subsector Focus

### EV/EBITDA



#### Spotlight: Oilfield Services



#### Source: Capital IQ as of September 29, 2023

#### **Explanatory Note:**

Subsector averages consider the available enterprise values and EBITDA values for the public companies under each category. Similarly, the oilfield services subsector spotlight considers the most representative companies by market capital (as of September 29, 2023) and uses the available data for the multiple calculation (LTM EV/EBITDA and FY22 EV/EBITDA). Therefore, the LTM median presented in the spotlight may differ from the subsector average because it only considers said companies and not all the companies listed under the category.

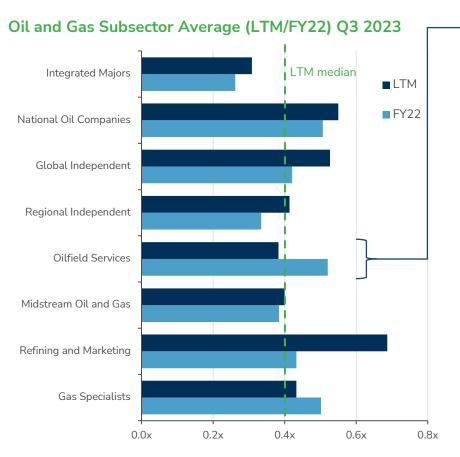
Definitions:

EV: enterprise value. EBITDA: earnings before interest, taxes, depreciation and amortization. LTM: last 12 months.

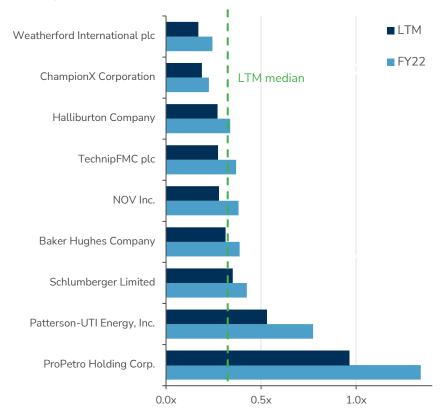


### Subsector Focus •••

### Capital Expenditure/EBITDA



#### Spotlight: Oilfield Services



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#### Source: Capital IQ as of September 29, 2023

#### **Explanatory Note:**

Subsector averages consider the available capital expenditure and EBITDA values for the public companies under each category. Similarly, the oilfield services subsector spotlight considers the most representative companies by market capital (as of September 29, 2023) and uses the available data as inputs for the multiple calculation. Therefore, the LTM median presented in the spotlight only considers said companies and not the entire universe under the category.



EBITDA: earnings before interest, taxes, depreciation and amortization. LTM: last 12 months.

### Subsector Focus ooe

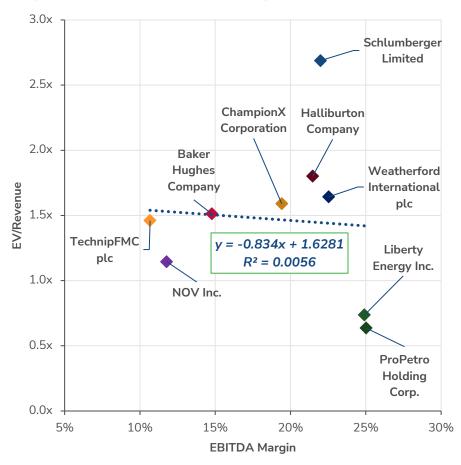
Oilfield Services

#### Share Price Development Q3 2023



Schlumberger Limited Halliburton Company
 ChampionX Corporation Liberty Energy Inc.
 Weatherford International plc Baker Hughes Company
 NOV Inc. TechnipFMC plc
 ProPetro Holding Corp.

#### Regression Analysis: EBITDA Margin vs. EV/Revenue



#### Source: Capital IQ as of September 30, 2023; Kroll Analysis

#### Explanatory Note:

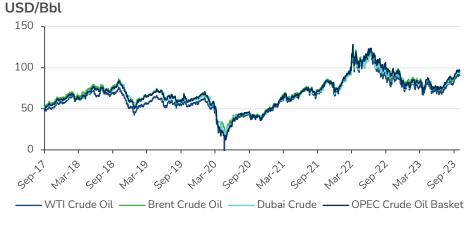
The return showed in the share price chart is calculated by taking July 1, 2022, as the starting point and tracking the percent change until October 1, 2023. The linear regression plotted on the right graph represents the forecasted EBITDA margin depending on the EV/revenue multiple as of September 30, 2023. **Definitions:** EBITDA: earnings before interest, taxes, depreciation and amortization. EV: enterprise value.

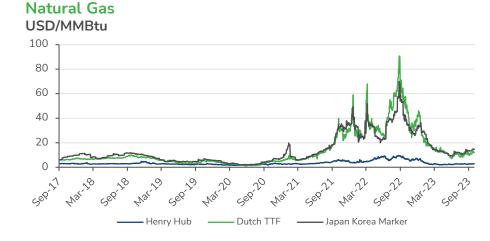
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## **Commodity Prices**

Q3 2023 Hydrocarbon Prices

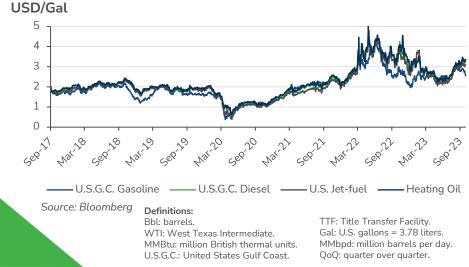
Crude Oil





Source: Bloomberg

Refined Products



#### **Key Considerations**

Source: Bloomberg

- QoQ, the four benchmark crude oil prices reported increases: WTI Crude Oil with 28.5%, Brent Crude Oil with 27.2%, Dubai Crude with 24.4% and OPEC Crude Oil Basket with 26.5%. OPEC Crude Oil's increase was mainly driven by the voluntary production cuts from Saudi Arabia (1 MMbpd).
- While Henry Hub Natural Gas price has remained steady, Dutch TTF and Japan Korea Marker prices increased QoQ due to the arrival of colder weather in Europe and East Asia and due to the latest Israel-Hamas conflict, which has impacted the Middle East with the closure of the Tamar Field in Israel and the cease of operations for the export pipeline from Israel to Egypt.

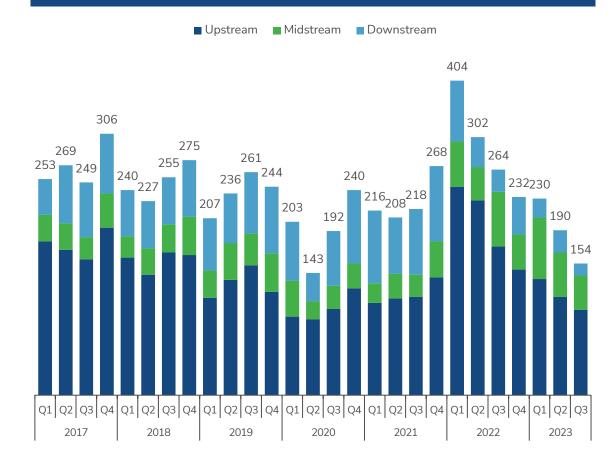
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## **Announced Deals**

#### **Key Considerations**

- A total of 154 M&A transactions for the oil and gas industry were registered in Q3 2023, compared to 190 transactions in Q2 2023. The disclosed value of the announced deals was USD 56.0 billion, which represented a reduction of 33%, or USD 27.8 bn, compared to the USD 83.8 bn from the previous guarter.
- Regarding the different subsegments:
  - Upstream deal count represented 65% of the reported transactions in Q3 2023, with a total volume of 100 transactions. The average disclosed value per transaction was USD 198.4 million, with the disclosed value of all transactions adding up to USD 19.8 bn.
  - The announced midstream deals in Q3 2023 amounted to 40, which represents 26% of the total oil and gas transactions. The disclosed value of the midstream deals was USD 20.5 bn, which represented an average value of USD 513.8 mn per deal.
  - Finally, the announced deals in downstream stand at 14, which is 9% of the total deals announced in Q3 2023. The observed deals report a disclosed value of USD 15.6 bn, with the average deal valued at USD 1.12 bn.

#### M&A Quarterly Deal Count Q3 2023



Source: Bloomberg as of September 29, 2023

**Explanatory Note:** 

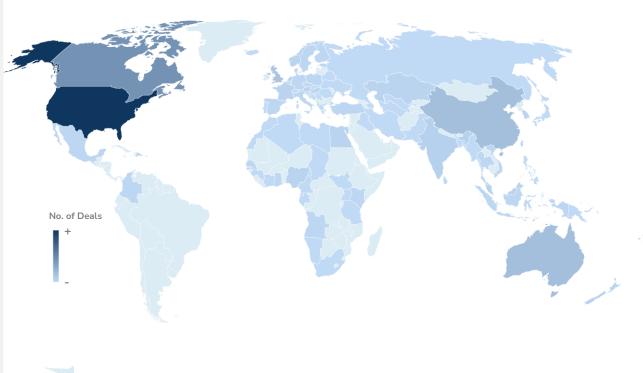
The analysis is based on disclosed transactions for the mentioned periods considering all announced M&A deals in the oil and gas industry in order to illustrate the overall M&A activity.

## Hotspots for Oil and Gas Deal Activity

#### **Key Considerations**

- In Q3 2023, the U.S. presents the most active M&A landscape in the world as it reports 36% of the announced transactions and 75% of the total disclosed values.
- Initial acquisitions have targeted high-quality private assets with large synergy potential. However, the M&A focus is shifting toward mergers of publicly traded companies, given that most private entities and assets have majorly been acquired.
- Public entities M&A activity is accelerating in Q4 2023, with the latest acquisitions made by Chevron and ExxonMobil in October 2023. The values of these two megadeals are over twice the total global disclosed value reported during Q3 2023 (USD 113 bn vs. USD 56 bn).
  - On October 11, 2023, ExxonMobil announced a merger with Pioneer and obtained a leading presence in the Permian Basin in the third-largest ever upstream deal at USD 60 bn.
  - On October 23, 2023, Chevron announced the acquisition of Hess for USD 53 bn, which gives access to Guyana's offshore assets in the Stabroek block.

#### M&A Heatmap by Region and Deal Count Q3 2023



Source: Bloomberg between July 1, 2023, and September 29, 2023

#### **Explanatory Note:**

The heatmap displays M&A activity distribution across the world based only on the number of deals announced during the period and does not take into consideration the value corresponding to said transactions. As a result, the volume of events per location within the announced and completed deal universe provides an immediate visual summary of the figures regarding the Q3 2023.

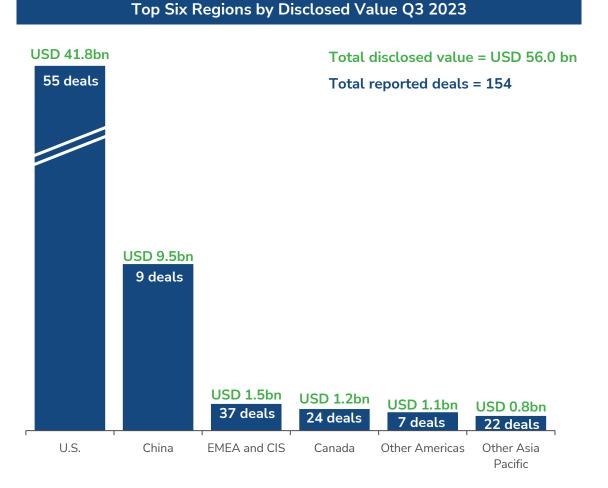


## Hotspots for Oil and Gas Deal Activity



#### **Key Considerations**

- A handful of players represent the totality of oil and gas M&A activity. In particular, five countries account for 96.3% of the total global disclosed value, which represent 64.3% of the volume of announced deals.
- The top three countries with the largest M&A activity are the U.S. (74.6% of value and 35.7% of deals), China (17.0% of value and 5.8% of deals) and Canada (2.2% of value and 15.6% of deals).
- The number of megadeals (transaction over USD 1 bn) was reduced to nine in Q3 2023, compared to 14 in Q2 2023. These nine megadeals represented 5.8% of the total number of transactions, with their disclosed value accounting for 82.8% of global disclosed value.
- Megadeals remain concentrated in the U.S., with seven deals valued at USD 36.9 bn, which constitutes 88.3% of U.S. deals and 65.8% of global deals.
- Enbridge's acquisition of three U.S.-based utilities to form Dominion Energy represents the largest transaction of Q3 2023 at USD 14.0 bn, representing 25.0% of the global disclosed value. This acquisition has resulted in the largest natural gas distributor franchise in North America.



Source: Bloomberg as of September 29, 2023

#### Explanatory Note:

The analysis is based on disclosed transactions for the period, taking into account the total transaction value (considering all announced M&A deals in the oil and gas industry) to illustrate overall M&A activity. Therefore, said countries represent the industry's most significant regions by concentrating the highest proportion of market activity regarding volume and value. **Definitions** 



## Hotspots for Oil and Gas Deal Activity



#### **Key Considerations**

- Out of the 80 transactions observed in North America, 15 (18.8%) are undisclosed. The effects of tightening financial conditions can be observed in the progressive reduction of average TV/EBITDA multiple, which currently stands at 5.3 compared to 9.1 in Q3 2022.
- Europe's activity has decreased by 35 transactions (57.4%) QoQ, from 61 transactions in Q2 2023 to 26 transactions in Q3 2023. Out of these 26 transactions, 19 of them (73.1%) do not disclose a transaction value. Furthermore, the financial information from the disclosed transaction values does not offer sufficient data to calculate a multiple.
- Regarding Asia Pacific, most of the regional activity was driven by China and Australia, each with nine transactions. Both countries contributed 58.1% of the total activity within the region (31 transactions total). In terms of disclosed value, China concentrates 91.9% of the disclosed regional value.
- The previously highlighted regions represented 89.0% (137 transactions) out of the total announced deals (154 transactions) in Q3 2023.

#### Avg. Multiples (TV/EBITDA) by Region Q3 2023

Region	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
North America	9.1	8.3	6.4	5.2	5.3
Europe	2.8	5.8	9.4	8.5	N/A
Asia Pacific	4.4	4.8	3.5	2.4	4.0

Source: IHS and Bloomberg as of September 29, 2023

#### **Explanatory Note:**

The chart displays M&A activity distribution across the world based only on the number of deals announced, disclosing the transaction value during the period. As a result, an approximate transaction value for multiples per region within the announced and completed deal universe provides an immediate visual summary of the figures regarding Q3 2023. Multiple calculation for the displayed heatmap only considers disclosed transaction value and available financial information regarding the target, and it may not be representative for all M&A activity of the quarter. Specifically in Europe, there's not enough information available to calculate the average multiple.

#### Definitions:

TV: transaction value. EBITDA: earnings before interest, taxes, depreciation and amortization.



Trading Statistics

## Hotspots for Oil and Gas Deal Activity

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#### Canada

Canadian gas drillers have suffered from low prices because of constrained export options.

In this situation, Tourmaline Oil Corp. has been a leader in devising new routes to market its output.

One of these efforts includes a joint venture with Rockies LNG to create a new LNG gas export terminal on Canada's Pacific Coast.

#### **United States**

Ongoing activity is focusing on producing assets in the U.S. Permian Basin. Exxon Mobil Corp. agreed to expand U.S. onshore operations in the Rockies and Gulf Coast, targeting carbon capture operations through the upstream acquisition market.

#### Brazil

In September 2023, Petrobras announced the end of its divestment efforts, which have been the main driver of regional M&A activity since 2013 by selling USD 46 bn worth of energy assets.



#### **United Kingdom**

Harbour Energy Plc, which is the North Sea's largest independent oil producer and has 90% of the UK's reserves, has entered a new strategic partnership with Wood Group.

Under this partnership, Wood Group will provide engineering, procurement and construction, and operations and maintenance services.

The partnership will be operated under a new agreement which will impact contracts in the North Sea valued at around USD 330 mn.



### China

In the first half of 2023, China replaced Japan as the world's top LNG importer.

CNOOC Energy has signed an agreement with Nippon Yusen and China Merchants Energy Shipping to establish an LNG carrier joint venture with a total investment of EUR 412.6 million (around USD 446 mn).

## **Top 10 Deals Announced in Upstream**

	Acquirer	Seller	Target	Туре	Deal Description	Stake Acq.	Transaction Value (USD)		LTM EBITDA		TV/LTM EBITDA
Announced July 13, 2023	ExonMobil	Denbury ô	Denbury Inc.	Public Company	Exxon Mobil Corp announced the acquisition of y Denbury Inc.	100%	4,523 mn	77 mn	621 mn	58.74x	7.28x
August 22, 2023	EGT	QUANTUM ENERGY PARTNERS	THQ Appalachia LLC, THQ-XcL Holdings I Midco LLC	Private	Quantum Energy Partners LLC sold THQ Appalachia I LLC and THQ-XcL Holdings I Midco / LLC to EQT Corp. The transaction was completed on 8/22/23.	100%	4,498 mn	N/A	N/A	N/A	N/A
August 21, 2023	PERMIAN RESOURCES	EARTHSTONE Energy, Inc.	Earthstone Energy Inc.	Public Company	Permian Resources Corp announced the y acquisition of Earthstone Energy Inc.	100%	2,810 mn	387 mn	1,189 mn	7.26x	2.36x
September 15, 2023	Vital Energy	HERRY	Permian Basin/Delaware	Asset	A consortium led by Henry Resources LLC announced the sale of Permian Basin/Delaware to Vital Energy Inc. The transaction is expected to be completed by 12/31/23.	100%	1,165 mn	N/A	N/A	N/A	N/A
July 5, 2023		Blackstone	Ulterra Drilling Technologies LP	Private Company	Blackstone Inc. sold Ulterra Drilling Technologies LP to Patterson-UTI Energy Inc. The transaction was completed on 8/14/23.	100%	773 mn	N/A	N/A	N/A	N/A
August 16, 2023	MAUREL	CARLYLE	Assala Energy Ul Ltd.		The Carlyle Group Inc. announced the sale of Assala Energy UK Ltd. to Etablissements Maurel / et Prom SA. The transaction is expected to be completed by 3/31/24.	100%	730 mn	N/A	N/A	N/A	N/A
August 24, 2023	Kraken	Crescent Point	North Dakota assets	Asset	Crescent Point Energy Corp announced the sale of North Dakota assets to Kraken Resources LLC. The transaction is expected to be completed by 12/31/23.	100%	500 mn	N/A	N/A	N/A	N/A
September 7, 2023	PEYTO Exploration & Development Carp.	REPJOL	Repsol Canada Energy Partnership	Private Company	Repsol SA sold Repsol Canada Energy Partnership to Peyto Exploration & Development / Corp. The transaction was completed on 10/17/23.	100%	468 mn	N/A	N/A	N/A	N/A
July 5, 2023	CALLON	PERCUSSION PETROLEUM II	Delaware Basin assets	Asset	Percussion Petroleum Operating II LLC sold Delaware Basin assets to Callon Petroleum Co. The transaction was completed on 7/5/23.	100%	461 mn	N/A	N/A	N/A	N/A
September 28, 2023	PETRONAS Common Grap	TotalEnergies	Block 20/Kwanza Basin	Asset	TotalEnergies SE sold Block 20/Kwanza Basin to Petronas Chemicals Group Bhd.	40%	400 mn	N/A	N/A	N/A	N/A

Source: Bloomberg as of September 30, 2023

Definitions:

Transaction value (USD): For financial companies, transaction value is equivalent to equity value. For other companies, transaction value is equity value plus target net debt. LTM: last 12 months. TV: transaction value. EBITDA: earnings before interest, taxes, depreciation and amortization.

## **Top 10 Deals Announced in Midstream**

	Acquirer	Seller	Target	Туре	Deal Description	Stake Acq.	Transaction Value (USD)		LTM EBITDA		TV/LTM EBITDA
Announced August 30, 2023	PipeChina	National Pipeline Group United Co. Ltd.	National Pipeline . Group United Co. Ltd.	Private Company	National Petroleum and Natural Gas Pipeline Network Group Co. Ltd. acquired National Pipeline Group United Co. Ltd.	89%	7,943 mn	N/A	N/A	N/A	N/A
August 16, 2023	ENERGY TRANSFER	Crestwood	Crestwood Equity Partners LP	/Public	Energy Transfer LP announced the acquisition of / Crestwood Equity Partners LP.	100%	6,128 mn	294 mn	673 mn	20.84x	9.11x
September 5, 2023	Western Midstream Partners, LP	RIVER ST≌NE	Meritage Midstream Services II LLC	Private Company	Riverstone Holdings LLC sold Meritage Midstream Services II LLC to Western Midstream / Partners LP. The transaction was completed on 10/13/23.	100%	885 mn	N/A	N/A	N/A	N/A
August 31, 2023	AltaGas	TIDEWATER Misbingen und Infrashucture List.	Pipestone Natura Gas Processing Plant	l Asset	Tidewater Midstream and Infrastructure Ltd. announced the sale of Pipestone Natural Gas Processing Plant to AltaGas Ltd. The transaction is expected to be completed by 12/31/23.	100%	565 mn	N/A	N/A	N/A	N/A
September 19, 2023	M &G	Vopak	Portfolio of three chemical terminals	Asset	Koninklijke Vopak NV announced the sale of a portfolio of three chemical terminals to M&G Investment Management Ltd. The transaction is expected to be completed by 12/31/23.	100%	435 mn	N/A	N/A	N/A	N/A
September 28, 2023	Linda	aes	LNG businesses	Private Company	The AES Corp announced the sale of LNG businesses/AES Corp to Grupo Linda. The transaction is currently pending.	10%	190 mn	N/A	N/A	N/A	N/A
August 15, 2023	Tenaris	① SHAWCOR	Pipeline Performance Group LLC	Private Company	Shawcor Ltd. announced the sale of Pipeline Performance Group LLC to Tenaris SA. The ransaction is expected to be completed by 2/29/24.	100%	166 mn	N/A	N/A	N/A	N/A
July 27, 2023	NexTier	<b>ECP</b>	Continental Intermodal Group - Navasota LLC	Private Company	A consortium led by Energy Capital Partners LLC sold Continental Intermodal Group - Navasota / LLC to NexTier Oilfield Solutions Inc. The transaction was completed on 8/3/23.	100%	33 mn	N/A	N/A	N/A	N/A
September 21, 2023		Undisclosed	Eight shallow water, oil and gas producing assets in Mexico	Asset	W&T Offshore Inc acquired eight shallow water, oil and gas producing assets.	100%	32 mn	N/A	N/A	N/A	N/A
September 6, 2023	PERSIST OIL & GAS INC	SIGULER ③ GUFF	Dienerian Resources Inc.	Private Company	Siguler Guff & Co. LLC sold Dienerian Resources Inc. to Persist Oil & Gas Inc. The transaction was completed on 9/6/23.	100%	29 mn	N/A	N/A	N/A	N/A
Source: Blo	omberg as of Sept	ember 30, 2023									

Definitions:

Transaction value (USD): For financial companies, transaction value is equivalent to equity value. For other companies, transaction value is equity value plus target net debt. LTM: last 12 months. TV: transaction value. EBITDA: earnings before interest, taxes, depreciation and amortization.



### **Top 10 Deals Announced in Downstream**

	Acquirer	Seller	Target	Туре	Deal Description	Stake Acq.	Transaction Value (USD)		LTM EBITDA		TV/LTM EBITDA
Announced September 5, 2023	<b>ENBRIDGE</b>	Dominion Energy <sup>®</sup>	Public Service Co of North Carolina Inc, Questar Gas Co, East Ohio Ga Co, Wexpro Co.	Private	Dominion Energy Inc. announced the sale of Public Service Co of North Carolina Inc, Questar Gas Co, The East Ohio Gas Co and Wexpro Co to Enbridge. The transaction is expected to be completed by 12/31/24.	100%	14,000 mn	N/A	N/A	N/A	N/A
July 4, 2023	大连市睡乡建设委员会 Defan Chargelang Jarolie Weijsweited	<b>直</b> 恒力石化 HENGLI PETROCHEMICAL	Yingkou Kanghui Petrochemical Co. Ltd.	Private	Hengli Petrochemical Co. Ltd. announced the sale of Kanghui New Material Technology Co. Ltd. to y Dalian Thermal Power Co. Ltd. The transaction is currently pending.	100%	1,584 mn	N/A	N/A	N/A	N/A
July 25, 2023			CPA Sas	Private Company	Rubis Terminal Infra SAS announced the sale of CPA Sas to Anan International Ltd. The transaction is currently pending.	100%	10 mn	N/A	N/A	N/A	N/A
September 6, 2023	NBIIG 宁波工业投资集团有限公司	6	Ningbo Resource Industrial Co. Ltd	Private Company	Ningbo Energy Group Co. Ltd. sold Ningbo Resource Industrial Co. Ltd. to Ningbo / Development & Investment Group. The transaction was completed on 9/19/23.	65%	9 mn	N/A	N/A	N/A	N/A
July 3, 2023	MOLGROUP	OMV	OMV Istrabenz Holding Co. PLC/ Slovenia	, Private Company	OMV AG sold OMV Istrabenz Holding Co. PLC/Slovenia to MOL Hungarian Oil & Gas PLC. The transaction was completed on 7/3/23.	100%	N/A	N/A	N/A	N/A	N/A
July 4, 2023	ORLEN	DOPPLER	Doppler Mineraloele GmbH Doppler	Private Company	Doppler Beteiligungs GmbH sold Doppler Energie GmbH to ORLEN SA. The transaction was completed on 7/4/23.	100%	N/A	N/A	N/A	N/A	N/A
July 7, 2023		Greenergy	Canada Retail & Fuel Business/ Greenergy International Ltd.	Asset	Greenergy International Ltd. announced the sale of Canada Retail & Fuel Business to Global Fuels Inc. The transaction is expected to be completed by 12/31/23.	100%	N/A	N/A	N/A	N/A	N/A
August 18, 2023	nouria	H.A. Mapes, inc.	HA Mapes Inc.	Private Company	Nouria Energy Corp acquired HA Mapes Inc. The / transaction was completed on 8/18/23.	100%	N/A	N/A	N/A	N/A	N/A
August 24, 2023			Bukom oil refinery/Shell PLC	Asset	Shell PLC proposed to sell Bukom oil refinery/Shell PLC to China Petroleum & Chemical Corp.	100%	N/A	N/A	N/A	N/A	N/A
August 31, 2023	KPC	TENT N	Kenya Petroleum Refineries Ltd.		Republic of Kenya sold Kenya Petroleum Refineries Ltd. The transaction was completed on / 8/31/23.	100%	N/A	N/A	N/A	N/A	N/A

Source: Bloomberg as of September 30, 2023

Definitions:

Transaction value (USD): For financial companies, transaction value is equivalent to equity value. For other companies, transaction value is equity value plus target net debt. LTM: last 12 months. TV: transaction value. EBITDA: earnings before interest, taxes, depreciation and amortization.



## **Commodity Prices**

						Date			% Cha	nge
	Unit	Туре	Source	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023	∆QoQ	∆YoY
Crude Oil										
WTI Crude Oil	USD/Bbl	Spot	Bloomberg	79.5	80.3	75.7	70.6	90.8	28.5%	14.2%
Brent Crude Oil	USD/Bbl	Spot	Bloomberg	88.0	85.9	79.8	74.9	95.3	27.2%	8.4%
Dubai Crude	USD/Bbl	Spot	Bloomberg	90.9	77.2	78.5	75.0	93.3	24.4%	2.6%
OPEC Crude Oil Basket	USD/Bbl	Spot	Bloomberg	92.3	81.3	78.1	76.1	96.4	26.5%	4.3%
Gas										
Henry Hub Natural Gas	USD/MMBtu	Spot	Bloomberg	6.8	4.5	2.2	2.8	2.9	4.7%	-56.7%
Dutch TTF Natural Gas	USD/MMBtu	Spot	Bloomberg	47.6	24.6	15.0	11.8	11.9	0.3%	-75.1%
Japan Korea Natural Gas	USD/MMBtu	Spot	Bloomberg	38.7	29.5	13.5	12.2	14.6	19.5%	-62.2%
Refined Products										
U.S.G.C. Regular Gasoline	USD/Gal	Spot	Bloomberg	2.6	2.5	2.6	2.4	2.6	5.8%	0.4%
U.S.G.C. Diesel	USD/Gal	Spot	Bloomberg	3.2	3.4	2.6	2.4	3.3	38.3%	1.7%
U.S.G.C. Jet Fuel	USD/Gal	Spot	Bloomberg	3.3	3.4	2.5	2.3	3.1	36.4%	-5.5%
Heating Oil	USD/Gal	Spot	Bloomberg	3.4	3.4	2.7	2.4	3.4	37.3%	-0.2%

#### Explanatory Note:

Data indicates the rounded price of the selected commodities as of the last day of each quarter from Q3 2022 to Q3 2023. Percent change column may present differences due to the rounding of the Commodities' spot prices in the tables.

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### **Integrated Majors**

(USD bn, except for per-share data)									EBITDA		
	Share Price	52-Week S	Share Price	Market	Enterprise	Revenues	EB	TDA	Margin	EV/E	BITDA
	29-Sep-23	Low	High	Сар	Value	LTM	LTM	FY2022	LTM	LTM	FY2022
Integrated Majors											
Exxon Mobil Corporation	117.58	98.02	120.70	468.73	488.65	350.39	62.53	91.13	17.85%	7.81x	5.36x
Chevron Corporation	168.62	141.73	189.68	314.85	327.73	202.70	45.94	57.45	22.66%	7.13x	5.70x
Shell plc	31.80	26.36	34.35	211.36	250.64	339.19	70.35	78.39	20.74%	3.56x	3.20x
TotalEnergies SE	65.95	54.07	69.31	158.13	184.20	228.13	53.10	62.54	23.28%	3.47x	2.95x
BP p.l.c.	6.48	5.48	7.00	109.82	154.36	226.03	59.59	54.25	26.37%	2.59x	2.85x
Average									22.18%	4.91x	4.01x
Median									22.66%	3.56x	3.20x

Source: Bloomberg as of September 29, 2023

#### Explanatory Note:

The information presented reflects analytical data and indicators from key public entities that make up the integrated majors subsector of the oil and gas industry as of September 29, 2023. The selected companies were sorted by order of the largest market capitalization from the entire subindustry's public company universe to highlight their financial status and capital adequacy. Therefore, the averages presented only account for the major players and not the entire subindustry.



### National Oil Companies

(USD bn, except for per-share data)	Share Price	52-Week S	Share Price	Mauluat	Enterprise	Revenues	EBI	TDA	EBITDA Margin	EV/E	BITDA
	29-Sep-23	Low	High	Market Cap	Value	LTM	LTM	FY2022	LTM	LTM	FY2022
National Oil Companies											
Saudi Arabian Oil Company	9.33	7.27	9.37	2257.56	2272.58	502.41	262.43	325.50	52.23%	8.66x	6.98x
PetroChina Company Limited	0.75	0.42	0.77	192.98	237.64	420.18	67.08	68.14	15.96%	3.54x	3.49x
Petróleo Brasileiro S.A Petrobras	6.94	4.23	7.91	95.32	139.37	107.39	53.62	66.64	49.93%	2.60x	2.09x
Equinor ASA	32.93	25.14	34.53	97.55	85.53	111.85	50.70	82.33	45.33%	1.69x	1.04x
China Petroleum & Chemical Corporation	0.55	0.43	0.70	92.62	156.57	456.87	24.66	25.31	5.40%	6.35x	6.19x
Eni S.p.A.	16.15	12.50	16.93	52.87	67.88	107.54	16.59	27.47	15.42%	4.09x	2.47x
Oil and Natural Gas Corporation Limited	2.31	1.60	2.39	29.05	45.14	71.37	12.91	10.15	18.09%	3.50x	4.45x
PTT Public Company Limited*	0.92	0.82	1.01	26.17	60.53	91.08	9.38	11.13	10.30%	6.45x	5.44x
Ecopetrol S.A.	0.58	0.49	0.71	24.04	54.31	36.61	15.52	15.27	42.40%	3.50x	3.56x
Indian Oil Corporation Limited	1.09	0.83	1.28	15.08	31.92	94.77	8.91	6.27	9.40%	3.58x	5.09x
Bharat Petroleum Corporation Limited	4.17	3.63	4.78	9.05	16.58	54.56	5.19	2.49	9.52%	3.19x	6.66x
YPF Sociedad Anónima	28.63	6.55	39.97	11.26	16.39	11.76	2.32	3.57	19.69%	7.07x	4.60x
Average									24.47%	4.52x	4.34x
Median									17.03%	3.56x	4.52x

Source: Bloomberg as of September 29, 2023

#### Explanatory Note:

The information presented reflects analytical data and indicators from key public entities that make up the national oil companies (NOCs) subsector of the oil and gas industry as of September 29, 2023. The selected companies were sorted by order of the largest market capitalization from the entire subindustry's public company universe to highlight their financial status and capital adequacy. Therefore, the averages presented only account for the major players and not the entire subindustry.



\*Note: Values correspond to Q2 2023 period, as companies did not present earnings information for the Q3 2023 period by the elaboration time of this report.

### Global Independent

(USD bn, except for per-share data)	Share Price	52-Week S	Share Price	Market	Enterprise	Revenues	EBI	TDA	EBITDA Margin	EV/E	BITDA
	29-Sep-23	Low	High	Сар	Value	LTM	LTM	FY2022	LTM	LTM	FY2022
Global Independent											
ConocoPhillips	119.80	91.53	135.68	143.46	153.09	61.84	25.49	34.92	41.22%	6.01x	4.38x
EOG Resources, Inc.	126.76	98.52	150.05	73.81	73.19	23.73	13.56	13.79	57.17%	5.40x	5.31x
Occidental Petroleum Corporation	64.88	55.51	75.78	57.40	86.52	29.30	14.15	20.59	48.29%	6.11x	4.20x
Hess Corporation	153.00	113.82	167.75	46.78	54.45	10.22	5.07	5.63	49.61%	10.74x	9.67x
Repsol, S.A.	16.48	13.32	16.98	21.04	27.06	57.29	7.27	10.65	12.70%	3.72x	2.54x
Inpex Corporation	15.10	8.58	15.62	19.73	26.77	14.92	10.30	11.74	69.03%	2.60x	2.28x
Average									46.33%	5.76x	4.73x
Median									48.95%	5.70x	4.29x

Source: Bloomberg as of September 29, 2023

#### **Explanatory Note:**

The information presented reflects analytical data and indicators from key public entities that make up the global independent subsector of the oil and gas industry as of September 29, 2023. The selected companies were sorted by order of the largest market capitalization from the entire subindustry's public company universe to highlight their financial status and capital adequacy. Therefore, the averages presented only account for the major players and not the entire subindustry.



### **Regional Independent**

(USD bn, except for per-share data)	Share Price	52-Week S	Share Price	Market	Enterprise	Revenues	EBI	TDA	EBITDA Margin	EV/E	BITDA
	29-Sep-23	Low	High	Сар	Value	LTM	LTM	FY2022	LTM	LTM	FY2022
Regional Independent											
Canadian Natural Resources Limited	64.93	48.70	67.78	70.80	80.44	26.69	12.12	16.53	45.42%	6.64x	4.87x
Pioneer Natural Resources Company	229.55	177.27	262.42	53.52	59.00	19.47	9.36	12.51	48.07%	6.30x	4.71x
Suncor Energy Inc.	34.53	26.91	35.81	44.87	55.51	37.11	14.74	18.64	39.71%	3.77x	2.98x
Cenovus Energy Inc.	20.91	14.73	21.17	39.48	46.63	39.28	7.38	9.68	18.79%	6.32x	4.82x
Imperial Oil Limited	61.84	43.66	61.74	35.62	37.10	38.51	6.39	8.26	16.60%	5.80x	4.49x
Devon Energy Corporation	47.70	42.59	73.98	30.56	37.05	14.93	7.52	10.28	50.39%	4.93x	3.60x
Diamondback Energy, Inc.	154.88	119.01	171.40	27.70	35.07	7.74	6.07	7.34	78.37%	5.78x	4.78x
Aker BP ASA	27.76	21.11	32.44	17.52	21.11	13.93	12.57	11.77	90.25%	1.68x	1.79x
Santos Limited*	5.10	4.29	5.16	16.50	20.27	6.99	4.57	5.05	65.43%	4.43x	4.01x
Marathon Oil Corporation	26.75	20.57	33.19	16.20	21.97	6.45	4.37	5.22	67.68%	5.03x	4.21x
Average									52.07%	5.07x	4.03x
Median									49.23%	5.40x	4.35x

Source: Bloomberg as of September 29, 2023

#### **Explanatory Note:**

The information presented reflects analytical data and indicators from key public entities that make up the regional independent subsector of the oil and gas industry as of September 29, 2023. The selected companies were sorted by order of the largest market capitalization from the entire subindustry's public company universe to highlight their financial status and capital adequacy. Therefore, the averages presented only account for the major players and not the entire subindustry.

\*Note: Values correspond to Q2 2023 period, as companies did not present earnings information for the Q3 2023 period by the elaboration time of this report.



### Oilfield Services

(USD bn, except for per-share data)	Share Price	52-Week	Share Price	Market	Enterprise	Revenues	EB	ITDA	EBITDA Margin	EV/E	BITDA
	29-Sep-23	Low	High	Сар	Value	LTM	LTM	FY2022	LTM	LTM	FY2022
Oilfield Services											
Schlumberger Limited	58.30	42.73	62.78	82.86	93.48	32.02	7.04	5.82	21.99%	13.27x	16.06x
Baker Hughes Company	35.32	26.12	37.58	35.66	38.66	24.58	3.63	2.94	14.78%	10.64x	13.16x
Halliburton Company	40.50	27.84	43.85	36.39	43.40	22.86	4.91	3.94	21.47%	8.84x	11.01x
TechnipFMC plc	20.34	11.09	22.78	8.91	10.62	7.44	0.79	0.59	10.67%	13.37x	18.00x
NOV Inc.	20.90	14.05	24.83	8.23	10.09	8.31	0.98	0.72	11.78%	10.30x	14.09x
Weatherford International plc	90.33	38.61	100.93	6.51	7.94	4.98	1.12	0.78	22.54%	7.07x	10.14x
ChampionX Corporation	35.62	23.66	38.37	7.00	7.40	3.80	0.74	0.62	19.42%	10.03x	12.02x
Patterson-UTI Energy, Inc.	13.84	9.70	19.81	5.74	6.43	3.35	1.00	0.68	29.76%	6.45x	9.40x
Liberty Energy Inc.	18.52	11.18	21.25	3.16	3.55	4.90	1.22	0.82	24.91%	2.91x	4.33x
ProPetro Holding Corp.	10.63	6.33	12.58	1.20	1.21	1.63	0.41	0.29	25.03%	2.96x	4.12x
Average									20.24%	8.59x	11.23x
Median									21.73%	9.43x	11.51x

Source: Bloomberg as of September 29, 2023

#### **Explanatory Note:**

The information presented reflects analytical data and indicators from key public entities that make up the oilfield services subsector of the oil and gas industry as of September 29, 2023. The selected companies were sorted by order of the largest market capitalization from the entire subindustry's public company universe to highlight their financial status and capital adequacy. Therefore, the averages presented only account for the major players and not the entire subindustry.



### Midstream Oil and Gas

(USD bn, except for per-share data)	Share Price	52-Week S	hare Price	Market	Enterprise	Revenues	EBI	TDA	EBITDA Margin	EV/EI	BITDA
	29-Sep-23	Low	High	Сар	Value	LTM	LTM	FY2022	LTM	LTM	FY2022
Midstream Oil and Gas											
Enbridge Inc.	33.30	30.90	40.75	70.79	136.15	33.84	10.35	9.41	30.60%	13.15x	14.46x
Enterprise Products Partners L.P.	27.37	23.14	27.95	59.44	89.42	48.74	8.63	8.73	17.70%	10.36x	10.24x
The Williams Companies, Inc.	33.69	27.80	36.32	40.98	67.40	10.30	6.24	5.04	60.53%	10.81x	13.38x
Energy Transfer LP	14.03	11.37	14.15	44.13	106.70	78.56	12.24	12.29	15.58%	8.72x	8.68x
ONEOK, Inc.	63.43	55.91	71.57	36.95	49.64	17.47	4.43	3.34	25.37%	11.20x	14.87x
TC Energy Corporation	34.41	32.52	49.51	35.82	82.33	10.15	5.57	6.44	54.92%	14.77x	12.78x
Kinder Morgan, Inc.	16.58	15.89	19.36	36.94	69.55	15.88	6.44	6.17	40.54%	10.81x	11.27x
MPLX LP	35.57	31.34	36.80	35.61	56.97	10.40	5.22	5.67	50.18%	10.92x	10.06x
Plains All American Pipeline, L.P.	15.32	11.16	16.05	10.70	23.53	48.97	2.16	2.53	4.42%	10.88x	9.32x
Antero Resources Corporation	25.38	19.91	38.70	7.62	12.62	5.21	2.09	3.43	40.20%	6.03x	3.68x
EnLink Midstream, LLC	12.22	8.46	13.58	5.64	11.96	7.07	1.34	1.32	19.01%	8.89x	9.06x
Equitrans Midstream Corporation	9.37	4.60	10.48	4.09	12.04	1.39	1.02	1.07	73.56%	11.79x	11.20x
Average									36.05%	10.69x	10.75x
Median									35.40%	10.84x	10.72x

Source: Bloomberg as of September 29, 2023

#### **Explanatory Note:**

The information presented reflects analytical data and indicators from key public entities that make up the midstream subsector of the oil and gas industry as of September 29, 2023. The selected companies were sorted by order of the largest market capitalization from the entire subindustry's public company universe in order to highlight their financial status and capital adequacy. Therefore, the averages presented only account for the major players and not the entire subindustry.

### Refining and Marketing

(USD bn, except for per-share data)	Share Price	52-Week	Share Price	Market	Enterprise	Revenues	EB	TDA	EBITDA Margin	EV/E	BITDA
	29-Sep-23	Low	High	Сар	Value	LTM	LTM	FY2022	LTM	LTM	FY2022
Refining and Marketing											
Reliance Industries Limited	28.22	26.19	34.31	179.32	208.78	104.60	17.89	14.37	17.10%	11.67x	14.53x
Marathon Petroleum Corporation	151.34	104.32	159.65	60.51	84.48	152.73	19.36	22.97	12.67%	4.36x	3.68x
Phillips 66	120.15	89.74	125.19	53.50	71.50	149.41	10.46	11.31	7.00%	6.84x	6.32x
Valero Energy Corporation	141.71	104.18	152.20	50.04	58.43	145.46	17.39	18.27	11.95%	3.36x	3.20x
Neste Oyj	34.01	30.54	53.91	26.12	28.77	24.54	2.59	3.07	10.54%	11.13x	9.37x
Formosa Petrochemical Corporation	2.50	2.41	2.78	23.86	22.42	22.71	0.55	0.63	2.41%	41.01x	35.74x
Targa Resources Corp.	85.72	64.85	90.64	19.18	33.31	16.38	3.87	2.83	23.61%	8.62x	11.77x
Pembina Pipeline Corporation	30.19	28.04	35.87	16.58	26.53	6.92	1.81	2.11	26.15%	14.67x	12.59x
OMV Aktiengesellschaft	47.97	39.80	55.62	15.69	24.53	44.03	8.45	14.92	19.19%	2.90x	1.64x
ENEOS Holdings, Inc.	3.95	2.88	4.24	11.91	37.49	95.35	3.19	8.27	3.35%	11.75x	4.53x
HF Sinclair Corporation	56.93	37.12	66.19	10.31	13.03	33.29	3.70	4.60	11.12%	3.52x	2.83x
SK Innovation Co., Ltd.*	109.57	90.83	173.57	9.72	26.46	60.56	1.48	4.54	2.45%	17.82x	5.83x
PBF Energy Inc.	53.53	31.26	56.38	6.62	7.48	40.03	3.26	4.48	8.14%	2.30x	1.67x
Sunoco LP	48.95	40.81	53.96	4.11	8.09	23.35	0.94	0.86	4.04%	8.57x	9.43x
CVR Energy, Inc.	34.03	22.60	41.26	3.42	4.52	9.73	1.54	1.26	15.86%	2.93x	3.58x
Average									11.70%	10.10x	8.45x
Median									11.12%	8.57x	5.83x

Source: Bloomberg as of September 29, 2023

#### Explanatory Note:

The information presented reflects analytical data and indicators from key public entities that make up the refining and marketing subsector of the oil and gas industry as of September 29, 2023. The selected companies were sorted by order of the largest market capitalization from the entire subindustry's public company universe to highlight their financial status and capital adequacy. Therefore, the averages presented only account for the major players and not the entire subindustry.

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\*Note: Values correspond to Q2 2023 period, as companies did not present earnings information for the Q3 2023 period by the elaboration time of this report.

### Gas Specialists

(USD bn, except for per-share data)	Share Price	52-Week S	Share Price	Market	Enterprise	Revenues	EBI	TDA	EBITDA Margin	EV/E	BITDA
	29-Sep-23	Low	High	Сар	Value	LTM	LTM	FY2022	LTM	LTM	FY2022
Gas Specialist											
The Williams Companies, Inc.	33.69	27.80	36.32	40.98	67.40	10.30	6.24	5.04	60.53%	10.81x	13.38x
Woodside Energy Group Ltd.*	23.55	19.73	25.15	44.71	48.21	18.41	11.57	10.41	62.84%	4.17x	4.63x
Cheniere Energy, Inc.	165.96	135.00	179.05	39.93	67.15	24.47	21.01	5.62	85.84%	3.20x	11.95x
ONEOK, Inc.	63.43	55.91	71.57	36.95	49.64	17.47	4.43	3.34	25.37%	11.20x	14.87x
TC Energy Corporation	34.41	32.52	49.51	35.82	82.33	10.15	5.57	6.44	54.92%	14.77x	12.78x
Kinder Morgan, Inc.	16.58	15.89	19.36	36.94	69.55	15.88	6.44	6.17	40.54%	10.81x	11.27x
Coterra Energy Inc.	27.05	22.25	29.89	20.42	22.15	6.39	4.51	6.91	70.46%	4.92x	3.20x
Southwestern Energy Company	6.45	4.57	7.69	7.10	11.28	8.21	6.62	3.30	80.62%	1.70x	3.42x
Average									60.14%	7.70x	9.44x
Median									61.69%	7.86x	11.61x

Source: Bloomberg as of September 29, 2023

#### **Explanatory Note:**

The information presented reflects analytical data and indicators from key public entities that make up the gas specialist subsector of the oil and gas industry as of September 29, 2023. The selected companies were sorted by order of the largest market capitalization from the entire subindustry's public company universe to highlight their financial status and capital adequacy. Therefore, the averages presented only account for the major players and not the entire subindustry. \*Note: Values correspond to Q2 2023 period, as companies did not present earnings information for the Q3 2023 period by the elaboration time of this report.



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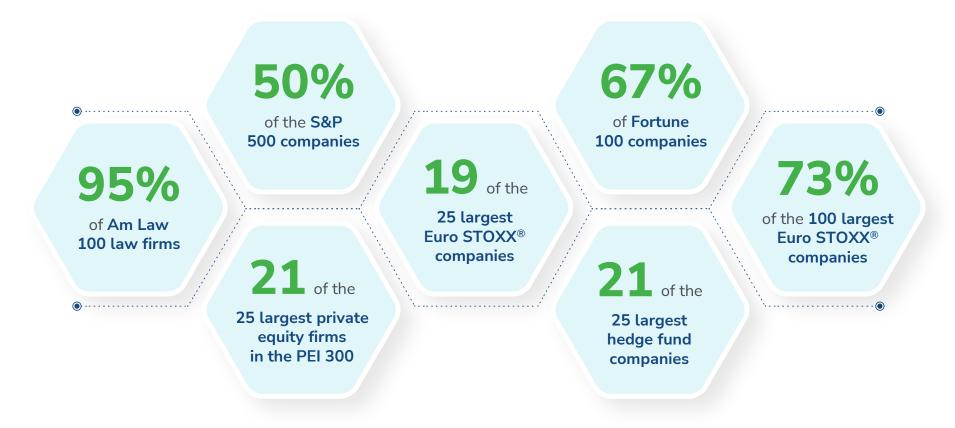
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