Guinness Global Energy

Investment Commentary – July 2025

RISK

This is a marketing communication. Please refer to the prospectus, supplement and KID/KIID for the Funds (available on our website), which contain full information on the risks, before making any final investment decisions.

The Funds are equity funds. Investors should be willing and able to assume the risks of equity investing. The value of an investment and the income from it can fall as well as rise as a result of market and currency movement, and you may not get back the amount originally invested. The Fund invests only in companies involved in the energy sector; it is therefore susceptible to the performance of that one sector and can be volatile.

Past performance does not predict future returns.

ABOUT THE STRATEGY

Launch	31.12.1998
Index	MSCI World Energy
Sector	IA Commodity/Natural Resources
Managers	Will Riley Jonathan Waghorn Tim Guinness
EU Domiciled	Guinness Global Energy Fund
UK Domiciled	WS Guinness Global Energy Fund

INVESTMENT POLICY

The Guinness Global Energy Funds invest in listed equities of companies engaged in the exploration, production and distribution of oil, gas and other energy sources. We believe that over the next twenty years the combined effects of population growth, developing world industrialisation and diminishing fossil fuel supplies will force energy prices higher and generate growing profits for energy companies. The Funds are actively managed and use the MSCI World Energy Index as a comparator benchmark only.

CONTENTS

COMMENTARY

OIL

Spot prices up sharply intra month

Brent and WTI spot oil prices rose sharply intra-month, with Brent reaching $80/bl, as Israel attacked Iran. A ceasefire resolution, after US attacks on Iranian nuclear sites, reversed the risk premium and brought crude oil back sharply. Despite Iranian threats, oil and gas supplies through the Strait of Hormuz were not affected. The International Energy Agency (IEA) increased its global demand growth forecast for 2025 to 0.8m b/day. Brent and WTI closed the month higher, at $68/bl and $65/bl respectively.

NATURAL GAS

International gas prices rose

Asian gas prices rose in June to $13/mcf while European gas prices moderated slightly to $10.5/mcf. Middle East tensions brought greater risk premia intra-month, since around 20% of global liquefied natural gas (LNG) trade travels through the Strait of Hormuz, with over 85% of these volumes headed to Asia.

EQUITIES

Energy outperforms the broad market in June

The MSCI World Energy Index (net return) rose by 5.6% (USD) in June, outperforming the MSCI World Index (net return) which rose by 5.0%.

CHART OF THE MONTH

Lower oil prices in 2025 have brought a reduction in the number of active US onshore oil-oriented drilling rigs. At the end of June, 425 rigs were active, down from 488 in June 2024 and 863 in June 2018.

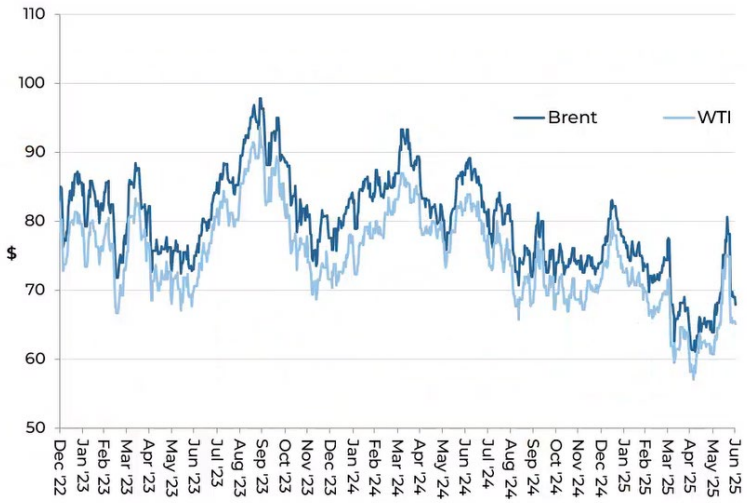
US onshore oil-directed rig count

Source: Baker Hughes, Bloomberg, July 2025

JUNE IN REVIEW

i) Oil market

Oil price (WTI and Brent $/barrel): December 2022 to June 2025



Source: Bloomberg; Guinness Global Investors

The West Texas Intermediate (WTI) oil price began June at just under $61/bl and, after rising to a high of $75bl mid-month, traded back down to close (up over the month) at around $65/bl. WTI has averaged just under $68/bl so far this year, having averaged $76/bl in 2024 and $78/bl in 2023. Brent oil traded in a similar shape, opening at $64/bl and, after peaking in excess of $80/bl, closed up over the month at around $68/bl. Brent has averaged nearly $72/bl so far in 2025, having averaged $80/bl in 2024 and $83/bl in 2023. The gap between the WTI and Brent benchmark oil prices remained narrow over the month, ending June at $2.9/bl. The Brent-WTI spread averaged $5/bl in 2024 after averaging a similar amount in 2023.

Factors which strengthened WTI and Brent oil prices in June:

- **The start and conclusion of the 12-day war sees oil prices close higher over the month**

During June, oil prices rallied hard as Israeli attacks on Iran brought a significant risk premium to the oil price. A ceasefire was ultimately announced later in the month after US forces bombed three Iranian nuclear facilities. As far as we are aware, oil and natural gas supplies were not affected by the events, but prices reacted to the increasing risk of supply disruption. Iran currently produces around 4.1m b/day of crude oil and condensate, with approximately 2.3m b/day exported: 1.7m b/day as crude and 0.6m b/day as refined products. These exports represent roughly 2-2.5% of global demand and are primarily directed to China. The loss of Iranian oil supply would be a significant near-term issue for the global oil industry, but we believe that any loss could be offset by the return of withheld OPEC+ capacity reasonably quickly. While difficult to be precise, we see OPEC+ spare capacity of around 4m b/day and believe that around 60% of this supply could enter the market within a six-month timeframe.

- **Falling US rig count and signs of flattening US oil supply**

According to the US Energy Information Administration (EIA), US onshore oil production in April averaged 11.2m b/d, essentially flat on March 2025 and up only 0.24m b/d on April 2024. US shale production typically moves with a lag to drilling activity, and we note that current production relates to a period when the onshore rig count was around 475 rigs. With oil prices lower this year, a number of US shale exploration and production companies have indicated that drilling activity will fall and production growth will start to slow. The current rig count is around ~~432~~425 rigs, implying that production will continue to soften.

Factors which weakened WTI and Brent oil prices in June:

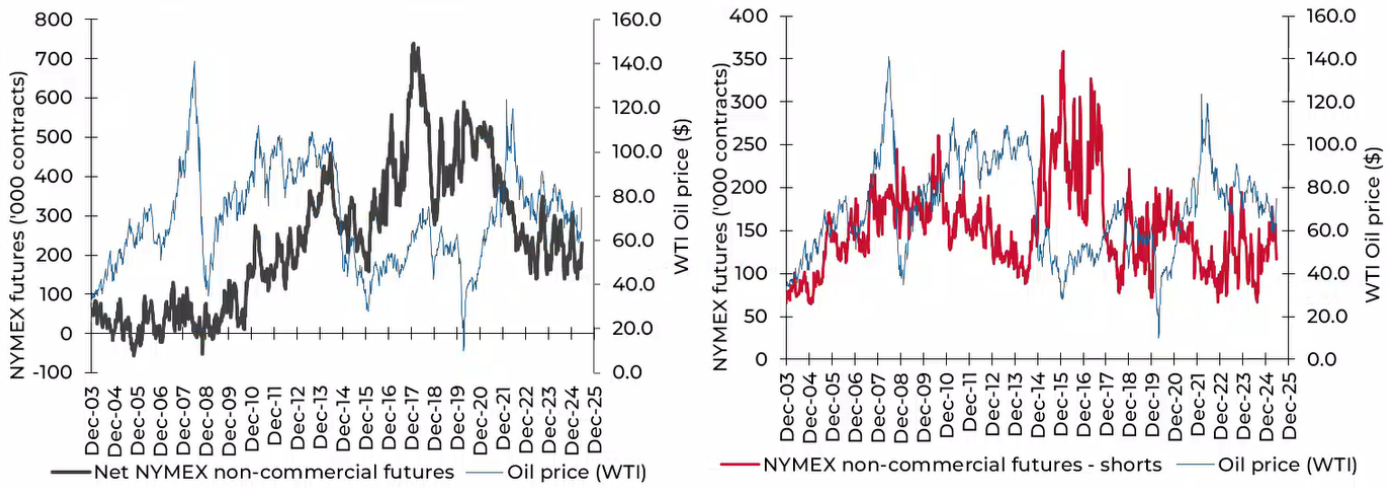
- **OPEC+ production increases**

In April, the 'group of eight countries' within OPEC+ announced the intention to increase (from May) the rate at which it returns withheld oil to the market, up to around 0.4m b/day. The group met again at the end of May, confirming their intention to return a further 0.4m b/day to the market in both June and July. At the start of July, the group announced a further production increase (for August) of 0.55m b/day and that they will meet again on 3rd August to discuss September production levels. We believe that a driver of these increases is a signal from Saudi Arabia to overproducing OPEC+ members, especially Kazakhstan, that continued overproduction will not be tolerated. Saudi Arabia is also unwilling to cede further market share to non-OPEC suppliers. That said, the OPEC+ group has stressed that it could be reversed at any time, should market conditions become materially looser.

- **Speculative and investment flows**

The New York Mercantile Exchange (NYMEX) net non-commercial crude oil futures open position was 231,000 contracts long at 17 June (latest data point available) versus 166,000 contracts long at the end of May. The net position peaked in February 2018 at 739,000 contracts long. Typically, there is a positive correlation between the movement in net position and the movement in the oil price. The gross short position fell to 117,000 contracts at the end of May versus 157,000 at the end of the previous month.

NYMEX Non-commercial net and short futures contracts: WTI January 2004 – June 2025



Source: Bloomberg LP/NYMEX/ICE (2025)

- **OECD stocks**

OECD total product and crude inventories at the end of April (latest data point) were estimated by the IEA to be 2,725m barrels, down 9m barrels versus the level reported for the previous month. The fall in April compares to a 10-year average (pre-COVID) build of 20m barrels, implying that the OECD market was tighter than normal. The significant oversupply situation in 2020 pushed OECD inventory levels close to maximum capacity in August 2020 (c.3.3bn barrels), with subsequent tightening taking inventories below normal levels. The IEA indicated that oil inventories 'surged' in May, but the scale of the increase was not quantified.

OECD total product and crude inventories, monthly, 2010 to April 2025

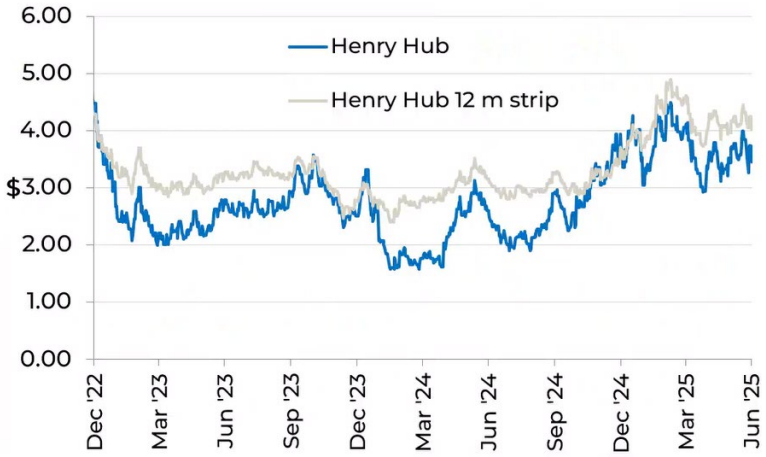
Source: IEA Oil Market Reports (June 2025 and older)

ii) Natural gas market

The US natural gas price (Henry Hub front month) opened June at $3.45/Mcf (1,000 cubic feet), rose over the month to nearly $4/mcf, and settled unchanged at $3.46/Mcf. The spot gas price has averaged $3.69/Mcf so far in 2025, having averaged $2.41/Mcf in 2024 and $2.67/Mcf in 2023.

The 12-month gas strip price (a simple average of settlement prices for the next 12 months' futures prices) traded in a similar pattern, opening at $3.97/Mcf and closing at $4.03/Mcf. The strip price has averaged $4.16/Mcf so far in 2025, having averaged $2.98 in 2024 and $3.19 in 2023.

Henry Hub gas spot price and 12m strip ($/Mcf): December 2022 to June 2025



Source: Bloomberg LP, July 2025

Factors which strengthened the US gas price in June included:

- **Anaemic rig count**

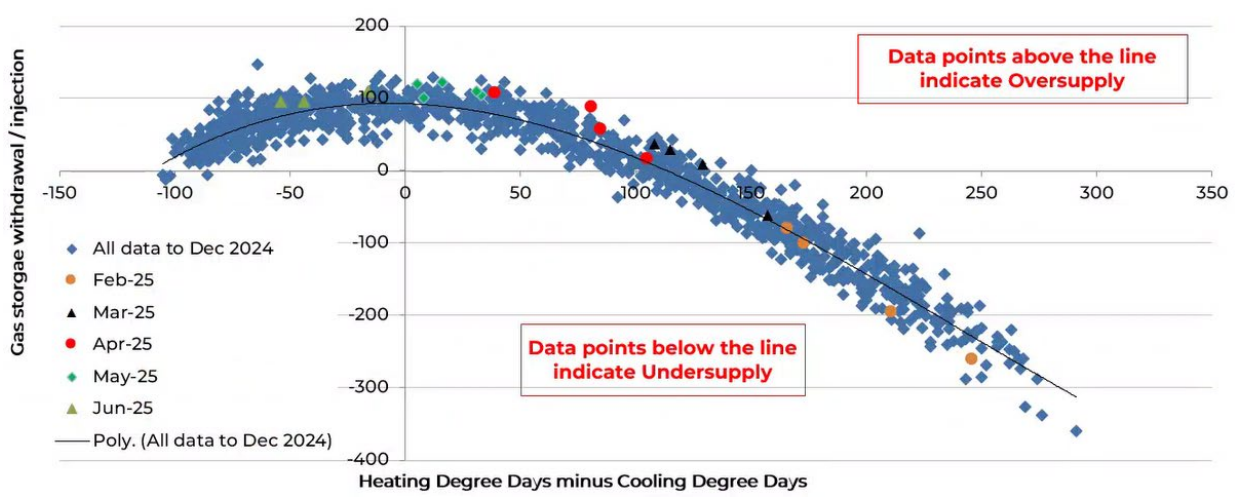
The number of rigs drilling for natural gas in the US fell from 160 in the middle of 2022 to a low of 94 in mid-September 2024. It has since averaged around 100 rigs and was reported at 109 rigs operating at the end of June 2025. Overall, the low number of gas rigs operating has slowed gas production growth, though 'associated gas' production (a by-product of shale oil) has continued to grow from the Permian basin.

Factors which were negative for the US gas price in June included:

- **Market oversupplied (ex-weather effects)**

Adjusting for the impact of weather, the US gas market was, on average, in oversupply during June. This is a change to the sharply undersupplied markets earlier in the year, as illustrated in the chart below.

Weather-adjusted US natural gas inventory injections and withdrawals

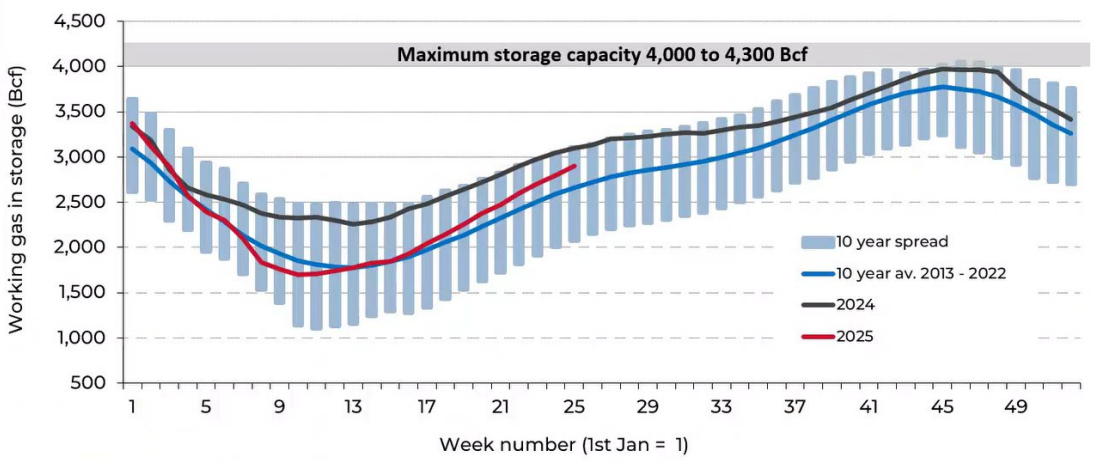


Source: Bloomberg LP; Guinness Global Investors; June 2025

- **Natural gas in inventories is comfortably above the 10-year average**

US natural gas inventories ran higher than seasonal norms throughout 2024, driven by a warmer-than-expected 2023/24 winter and early spring that brought lower-than-expected heating demand. Inventory levels moved to the top of the 10-year range but tightened in 4Q 2024 and further in 1Q 2025 as very cold weather arrived. At the end of June 2025, US natural gas inventories stood at around 2.9 trillion cubic feet (Tcf), above the 10-year average, as a result of stronger supply growth.

Deviation from 10yr US gas storage norm



Source: Bloomberg; Energy Information Administration (EIA), June 2025

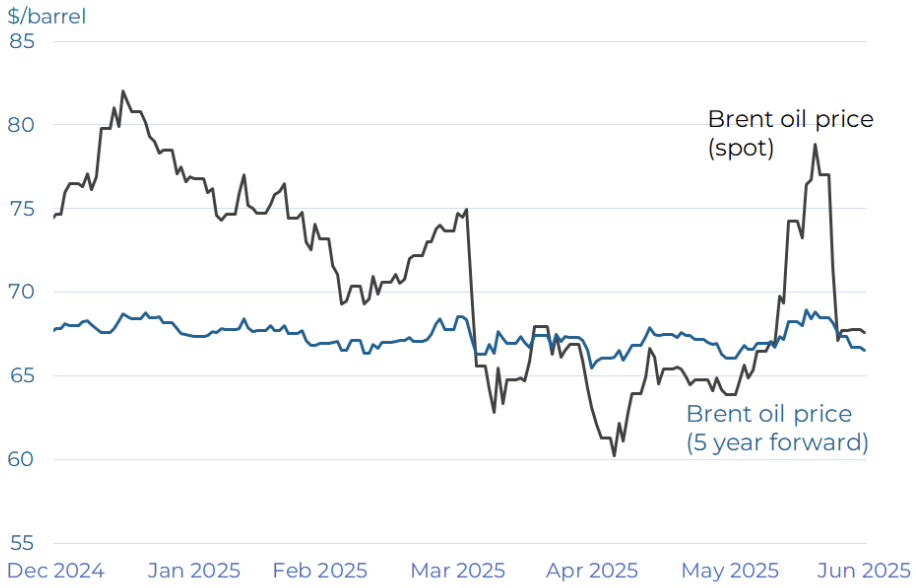
MANAGERS' COMMENTS

Global energy equities performed reasonably over the first half of 2025, with lower oil and natural gas prices offset by continued strong cashflow and shareholder distributions from many companies in the sector. Here, we explore the key developments in energy markets and the fund over the period, and consider the outlook.

Review of 1H 2025

Over the first six months of 2025, we saw expectations develop of a looser oil market for the rest of the year than previously forecasted. The looser oil balance has been driven mainly by higher supply expectations from the OPEC+ group, who have accelerated their return to the market of oil that had been held back under OPEC's quota system. Offsetting the looser balance, heightened geopolitical tensions in the Middle East have created volatility in prices, as the market considers the likelihood of disruption to supply, especially in Iran. The Brent spot oil price has fallen by 9% since the start of the year, while the 5-year forward Brent oil price has fallen by 2%.

Brent spot price vs 5-year forward price ($/bl) YTD

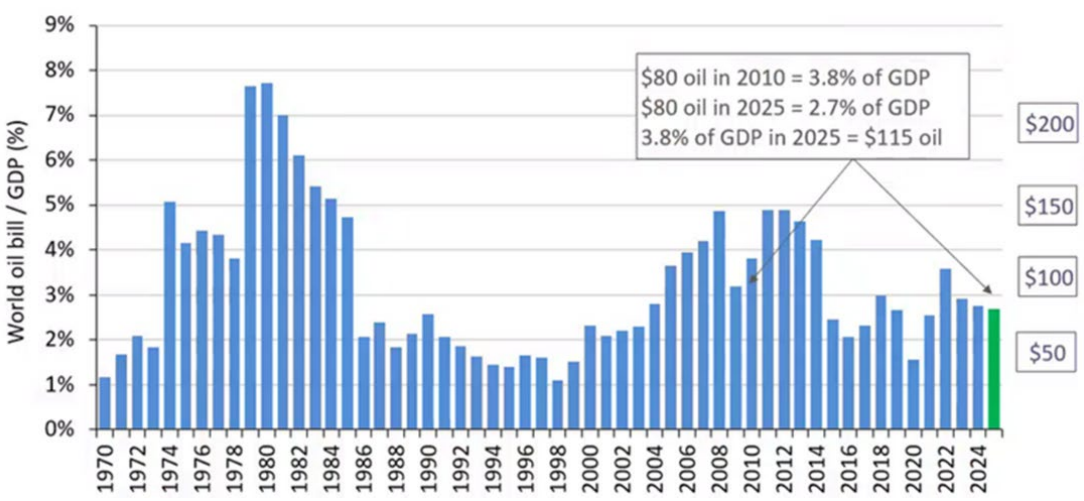


Source: Bloomberg; Guinness Global Investors; July 2025

Global oil demand growth for 2025 is estimated by the IEA to be 0.7m b/day (down from the 1.0m b/day forecast at the start of the year but in line with the 0.8m b/day growth seen in 2024) with the non-OECD up by c.1.1m b/day and the OECD down by c.0.3m b/day. The demand outlook has been impacted by geopolitical risks, especially the threat of tariffs from President Trump, where the outcome remains uncertain. Oil demand in 2025 of 103.9m b/day will be around 3.2m b/day above its pre-COVID peak in 2019. Unlike previous years, China is not expected to be the dominant driver of demand growth, and at only 0.2m b/day, China's demand growth is in line with that expected from India, Other Asia and the Middle East.

When writing at the start of the year about the prospects for oil demand, we placed strong emphasis on the current affordability of oil as a driver of demand growth. Globally, we believe that oil remains a 'good value' commodity. Based on a Brent oil price of around $80/bl in 2025, we calculate that the world would spend around 2.7% of GDP on oil, below the 30-year average of around 3% and well below the 3.8% seen in 2010 when oil also averaged $80/bl. With oil trading in the mid $60s/bl at the time of writing, the world is currently paying closer to 2% of GDP for its oil, putting today's oil amongst the cheapest of the last fifty years.

The world oil 'bill' as a percentage of world GDP



Source: Bloomberg; Guinness Global Investors, July 2025

On the **supply side**, forecasts for non-OPEC supply growth in 2025 have moderated by 0.4m b/day since the start of the year, with growth of 1.7m b/day shrinking to growth of 1.3m b/day. Nonetheless, the call on OPEC+ production for the year has stayed about flat, given the reduction in demand expectations. Since May, the OPEC+ group has been raising its quotas (by 0.4m b/day each month for May, June and July and then a further 0.55m b/day for August) with further increases expected for September. It is evident that core members of the group (e.g. Saudi Arabia and Kuwait) are attempting to bring overproducers into line (e.g. Kazakhstan, Iraq), in addition to maintaining market share at non-OPEC's expense. OPEC+ continued to stress that its supply strategy could be amended at any time, should market conditions require it.

Geopolitical concerns came to the fore in June with a sharp escalation of conflict in the Middle East. On June 13, Israel commenced a bombing campaign in Iran that targeted military sites and Iran's nuclear enrichment programme. A week later, the US joined the campaign by bombing nuclear enrichment sites, in particular those out of reach of Israel's military. With US/Israeli/Iranian tensions still present, there is concern around the accessibility of the Strait of Hormuz, a 21-mile-wide stretch of water separating Iran from the UAE and Oman. Since typically around 20% of the world's oil supply passes through the Strait each day, any closure or impediment would bring significant disruption to the world's oil balance. The current unrest also brings continued uncertainty around the US enforcing existing sanctions against Iranian oil exports, in contrast to the last 12 months, when Iranian supply has been allowed to flow to China.

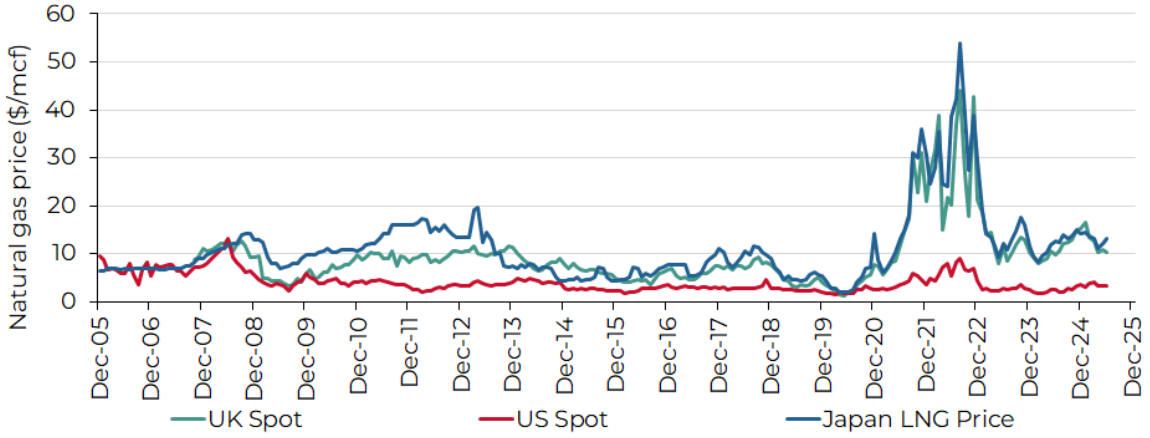
Elsewhere, the US announced the cancellation of a "concession agreement" in **Venezuela** that allowed Chevron to export oil from the country. The concession had been put in place by President Biden in November 2022, and, since then, Venezuelan oil production has increased from 0.7m b/day to nearly 1.0m b/day. Seaborne crude oil exports are already falling, and we expect further declines in the coming months.

International and US natural gas markets have remained fairly tight so far this year, thanks largely to industrial, LNG and power demand for natural gas, together with colder-than-normal conditions (the US suffered the coldest January in a decade). US natural gas inventories drew to 9% below 10-year average levels as the first phase of the Plaquemines LNG terminal commenced operation, consuming 2 Bcf/day of natural gas (nearly 2% of total US gas demand) and helping to lift the Henry Hub gas price to over $4/mcf at the end of March. Milder weather has allowed inventories to rebuild since then, with the price moderating to around $3.5/mcf by the end of June.

Similar tightening occurred in Europe where a combination of reduced Russian gas imports, colder weather, lower wind power and increased competition from Asia for LNG brought the largest winter drawdown in gas inventories in four years (falling to 33% full, 8 percentage points below the 10-year average level). By June, inventories were a little looser, but still below the long-term average. Inventory movements so far in 2025 have been in sharp contrast to the prior 24-month period

during which Europe had been successful in building a surplus of natural gas in storage. International gas prices spiked briefly in June over concerns that LNG flows would be interrupted by Iran/Israel/US tensions.

Global natural gas prices (US$/mcf)



Source: Bloomberg; Guinness Global Investors, July 2025

Past performance does not predict future returns.

The first half of 2025 saw reasonable performance for energy equities. The sector (MSCI World Energy Index net return in USD) returned +4.6%, behind the broad market (MSCI World +9.5%). The Guinness Global Energy Fund produced a total return of +5.3% (in USD).

In **company and sector news** during the first half of the year, the most interesting developments included:

- A reset from European majors (especially BP and Shell) away from low-carbon investments and towards growth in fossil fuels
- An attractive long-term outlook for LNG demand
- Continued efficiency improvements in US shale oil drilling, thanks to enhanced drilling programmes, lower downhole loss time, and improved maintenance cycles
- Ramp in natural gas distribution activities, thanks in particular to data centre demand

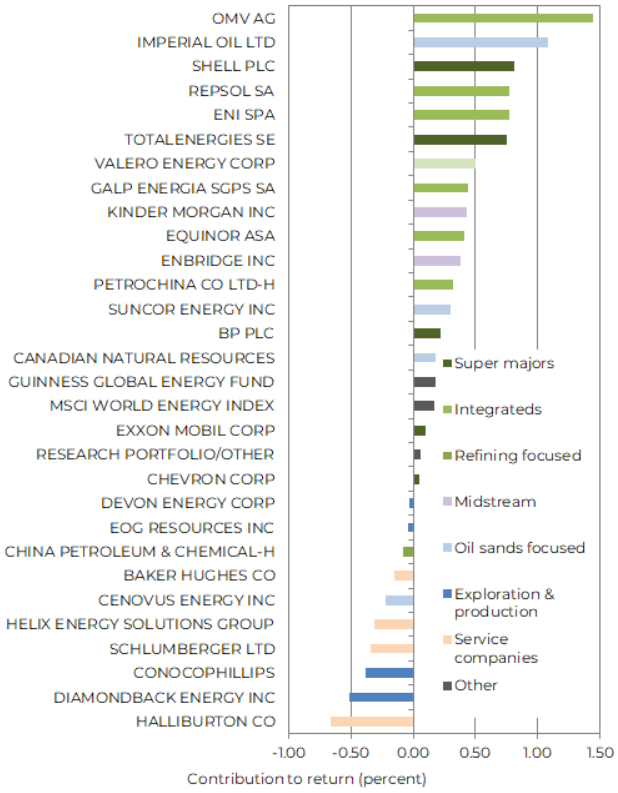
Within the Global Energy Fund over the period, stronger performers included:

- **European integrateds:** seven of the top 10 contributors were European integrateds, reflecting strength in broader European stock markets and a tilting away from low-carbon investments back towards growth from fossil fuels.
- **Canadian integrateds:** Canadian oil benchmarks strengthened versus WTI, boosting cashflows, while tensions in the Middle East provided a reminder of the energy security offered by Canadian oil supply.
- **US refining:** tighter refining capacity kept refining margins higher. Particular beneficiaries included Valero Energy and the US major Exxon.

Sectors in the portfolio that were relatively weaker over the period included:

- **Services:** Large-cap diversified service companies Halliburton, Schlumberger and Baker Hughes underperformed, driven by a declining US oil/gas rig count and continued capital discipline from exploration and production (E&P) companies and integrated oils.
- **US E&Ps:** Oil producers such as Devon, Diamondback, and ConocoPhillips tend to have the greatest operational leverage in the portfolio to oil prices. With the spot Brent price down by 9% since the start of the year, cashflows for these companies have shrunk.

Guinness Global Energy Fund contribution 1H 2025



Source: Bloomberg, Guinness estimates; data to 30.06.2025

Outlook

As ever, the outcomes for spot oil prices in the short term are hard to predict. What is clearer is that the incentive price for new supply has risen to around $80/bl, which coincides with the 'floor' for oil which Saudi are looking to defend in the longer term. We see a disconnect between this longer-term floor and the oil price currently being reflected in energy equity valuations, which is closer to $65/bl.

The IEA now estimates **oil demand** growth for 2025 of 0.8m b/day (to 103.9m b/day) with the non-OECD up by 1.1m b/day and the OECD down by 0.3m b/day. This expectation is consistent with the IMF's current global GDP growth forecast for 2025 of 2.8%. Unlike previous years, China (at +0.2m b/day) will not be a dominant driver of demand growth, with India and the Middle East expected to grow by at least as much. The IEA has recently published its first forecast for global oil demand in 2026, up by 0.7m b/day versus 2025 and taking demand to 104.6m b/day. As in 2025, all of the growth comes from the non-OECD region. Looking still further ahead, even with electric vehicles approaching 25% sales penetration this year, we continue to see global oil demand growing until around 2030, reaching a peak of somewhere between 107-109m b/day, and plateauing thereafter.

OPEC+ continues to be led by Saudi Arabia, which is seeking to balance the market but also maintain market share. We see Saudi Arabia as a rational and intelligent operator in the oil market, targeting an oil price that closes their fiscal deficit (according to the IMF, they require $91/bl to break even this year), but one that does not stress the world economy. Saudi's sweet spot for oil, therefore, appears to be in the $80-90/bl range. Defending an $80 oil price in 2025 would be broadly the same in real terms as the group's actions in 2006-2008 when they defended a nominal price of around $60/bl. The OPEC+ group are increasing their supply quotas over the summer by around 0.4m b/day per month, unwinding 2.2m b/day of voluntary cuts by key members. The main wildcard within the OPEC+ group remains Iran. Iranian oil exports are currently being allowed to flow to China, but this could reverse if tensions with the US/Israel re-escalate.

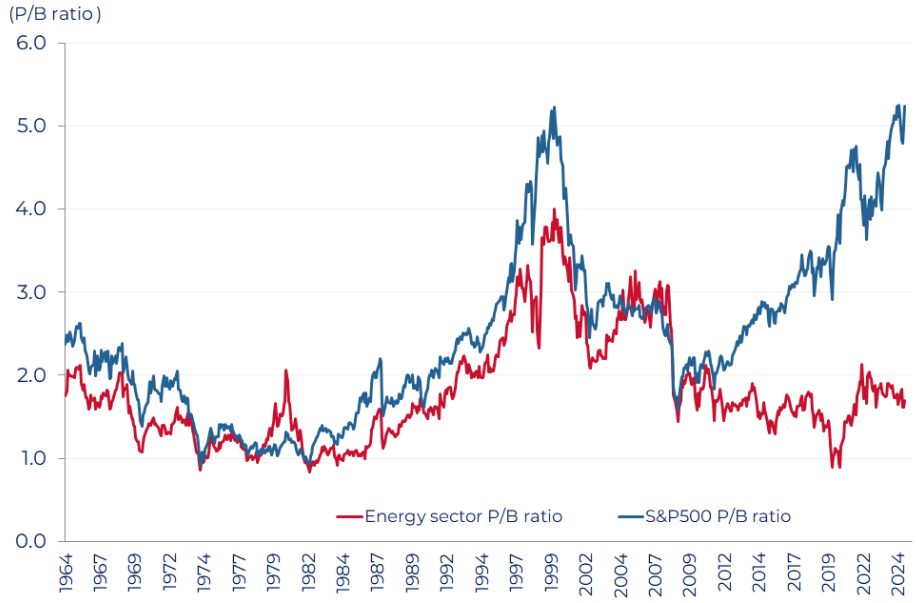
Non-OPEC+ oil supply growth will continue to come through over the next few months, with Brazil, Guyana and Canada likely to be the largest contributors. US shale production growth has slowed this year, with the drilling rig count reduced since January by 11%. Nevertheless, US shale supply is still expected to increase by around 0.3m b/day, down from 0.4m b/day

in 2024. Overall, in the US, capital discipline and lower prices are trumping efforts from the new president to increase supply growth.

For international **natural gas** markets, the reduced flow of Russian gas into Europe continues to pose a challenge. Gas in storage in Europe sits today at around 80% of the 10-year average. Global demand for LNG has risen in recent months, meaning it is more difficult for Europe to attract LNG cargoes than 12 months ago. Overall, an international price range of $9-11/mcf incentivises new US and Qatari LNG supply sources to flow, allowing Europe to displace permanently almost all its Russian gas imports. In the US, Henry Hub gas is seeing a demand boost this year from the start of those LNG export terminals. We remain cautious, however, about a material price spike, given supply at around $4/mcf remains abundant.

Moves in energy equities so far this year have lifted the price-to-book (P/B) ratio for the energy sector at the end of June 2025 to around 1.7x, versus the S&P 500 trading at 5.2x. On a relative P/B basis versus the S&P500, therefore, the valuation of energy equities now sits at around 0.32x (down from 0.37x at the end of June 2024), and still more than two standard deviations below the long-term relationship.

P/B of energy sector versus S&P 500

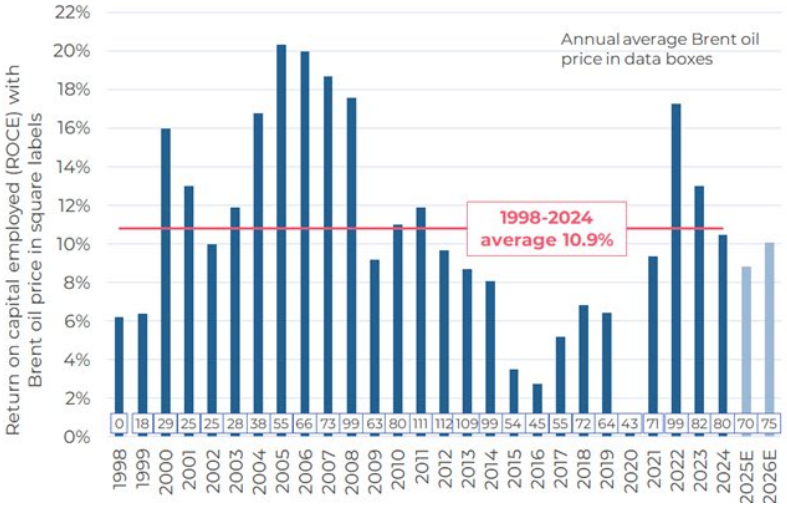


Sources: Bernstein; Bloomberg; Guinness Global Investors, July 2025

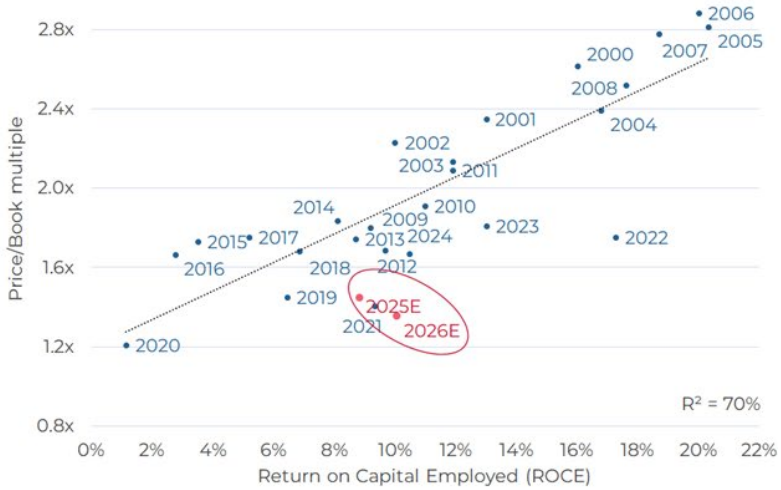
We keep a close eye on the relationship between the P/B ratio for the energy sector and return on capital employed (ROCE), which historically shows a high correlation.

ROCE for the Guinness Global Energy portfolio in 2025 (assuming an average Brent oil price of $70/bl) will be around 9%, we think, a little below mid-cycle ROCE, which we peg at around 11%. However, current valuation implies that the ROCE of our companies will stay at about 4-5%. If ROCE remains at around 9-10% and the market were to pay for it sustainably, it would imply an increase in the equity valuation of around 30-35%:

ROCE of current Guinness Energy portfolio



ROCE vs P/B multiple for Guinness Energy portfolio

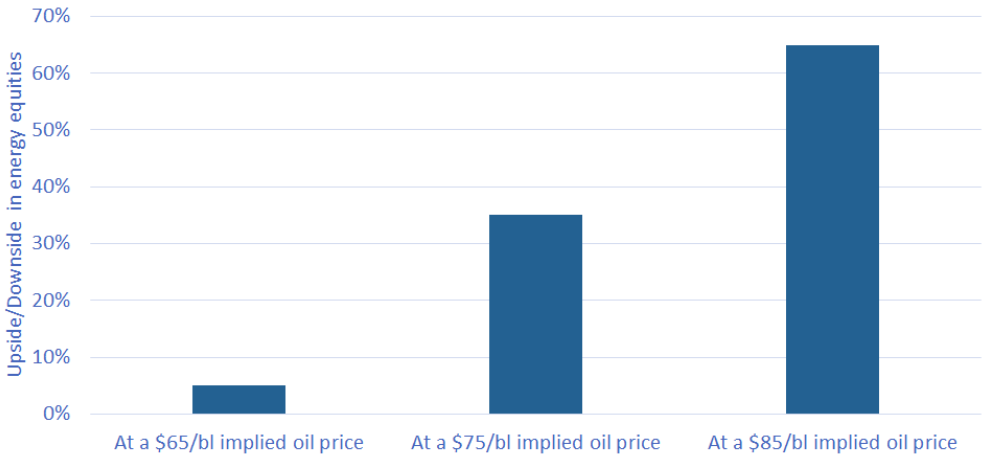


Sources: Bernstein; Bloomberg; Guinness Global Investors, inc. estimates; July 2025

The higher ROCE is being supported by robust free cash generation. Assuming an average Brent oil price of $70/bl in 2025, we estimate the average free cashflow yield of our portfolio, after capital expenditure, to be around 8.4% and note that the 2025 estimated gross dividend yield of the portfolio currently sits at around 4.8%. Fixed dividends in the portfolio have generally been growing, and have ample room to run further, given the high free cashflow yield. At our long-term oil price assumption of $80/bl, the average free cashflow yield rises to over 10%.

To consider valuation another way, we are often asked what oil price is implied in the portfolio, as a barometer of the expectation priced into the equities. At the end of June, we estimate that the valuation of our portfolio of energy equities reflected a long-term Brent/WTI oil price of around $65/bl. If the market were to price in a long-term oil price of $75/bl, on a one year forward view it would imply around 35% upside while there would be around 65% upside at a long-term oil price of $85/bl Brent (which is equivalent to $55 in 2007 prices):

Upside/downside for Guinness energy portfolio (1-year forward view)



Source: Guinness Global Investors, July 2025

In summary, at $70/bl Brent in 2025, our portfolio continues to trade at a significant valuation discount to the broader equity market, despite high shareholder return yields. We see good confidence that dividends can be maintained and supplemented by share buyback programmes, driven by a free cash flow yield of over 8% for the portfolio, which rises to over 10% at our long-term oil price assumption of $80/bl.

PERFORMANCE

Past performance does not predict future returns.

The main index of oil and gas equities, the MSCI World Energy Index (net return), rose by 5.6% in June, while the MSCI World Index (net return) rose by 5.0% in USD.

Within the portfolio, June's strongest performers included Galp, OMV, Imperial Oil, EOG Resources and ENI while the weakest performers included Enbridge, Sinopec, Helix Energy Solutions, Diamondback and Schlumberger.

Past performance does not predict future returns.

Guinness Global Energy Fund
Performance (in USD) as at 30.06.2025

Cumulative returns	YTD	1 year	3 years ann.	5 years ann.	Launch of strategy* ann. (31.12.98)
Guinness Global Energy Fund	5.3%	-5.8%	7.1%	17.7%	7.9%
MSCI World Energy NR Index	4.6%	-0.8%	9.1%	19.1%	6.2%

Calendar year returns	2024	2023	2022	2021	2020	2019	2018
Guinness Global Energy Fund	-1.3%	2.6%	32.4%	44.5%	-34.7%	9.8%	-19.7%
MSCI World Energy NR Index	2.7%	2.5%	46.0%	40.1%	-31.5%	11.4%	-15.8%
	2017	**2016**	**2015**	**2014**	**2013**	**2012**	**2011**
Guinness Global Energy Fund	-1.3%	27.9%	-27.6%	-19.1%	24.4%	3.0%	-13.7%
MSCI World Energy NR Index	5.0%	26.6%	-22.8%	-11.6%	18.1%	1.9%	0.2%
	2010	**2009**	**2008***	**2007***	**2006***	**2005***	**2004***
Guinness Global Energy Fund	15.3%	61.8%	-48.2%	37.9%	10.0%	62.3%	41.0%
MSCI World Energy NR Index	11.9%	26.2%	-38.1%	29.8%	17.9%	28.7%	28.1%
	2003*	**2002***	**2001***	**2000***	**1999***		
Guinness Global Energy Fund	32.3%	6.7%	-4.1%	39.6%	22.5%		
MSCI World Energy NR Index	25.9%	-6.4%	-7.2%	6.0%	22.0%		

Source: FE fundinfo, Guinness Global Investors and Bloomberg, bid to bid, net of fees, gross income reinvested, in US dollars

Calculation by Guinness Global Investors. *Simulated past performance prior to 31.03.2008, launch date of Guinness Global Energy Fund. The Guinness Global Energy investment team has been running global energy funds in accordance with the same methodology continuously since December 1998. These returns are calculated using a composite of the Investec GSF Global Energy Fund class A to 29.2.08 (managed by the Guinness team until this date); the Guinness Atkinson Global Energy Fund (sister US mutual fund) from 1.3.08 to 31.3.08 (launch date of this Fund), the Guinness Global Energy Fund class A (1.49% OCF) from launch to 02.09.08, and class Y (0.99% OCF) thereafter. Returns for share classes with a different OCF will vary accordingly.

Investors should note that fees and expenses are charged to the capital of the Fund. This reduces the return on your investment by an amount equivalent to the Ongoing Charges Figure (OCF). The fund performance shown has been reduced by the current OCF of 0.99% per annum. Returns for share classes with different OCFs will vary accordingly. Performance returns do not reflect any initial charge; any such charge will also reduce the return.

Past performance does not predict future returns.

WS Guinness Global Energy Fund
Performance (in GBP) as at 30.06.2025

Cumulative returns	YTD	1 year	3 years ann.	5 years ann.
WS Guinness Global Energy Fund	-2.5%	-12.8%	2.6%	16.0%
MSCI World Energy NR Index	-4.4%	-8.5%	4.8%	16.7%

Calendar year returns	2024	2023	2022	2021	2020	2019	2018
WS Guinness Global Energy Fund	-0.8%	-3.2%	49.9%	45.7%	-35.7%	12.6%	-6.3%
MSCI World Energy NR Index	4.5%	-3.3%	64.4%	41.4%	-33.6%	7.2%	-10.6%

	2017	2016	2015	2013	2012
WS Guinness Global Energy Fund	-7.2%	65.2%	-29.6%	-26.6%	-4.7%
MSCI World Energy NR Index	-4.1%	51.0%	-18.3%	-6.1%	15.9%

Source: FE fundinfo, bid to bid, net of fees, gross income reinvested, in GBP

Investors should note that fees and expenses are charged to the capital of the Fund. This reduces the return on your investment by an amount equivalent to the Ongoing Charges Figure (OCF). The fund performance shown has been reduced by the current OCF of 0.96% per annum. Returns for share classes with different OCFs will vary accordingly. Performance returns do not reflect any initial charge; any such charge will also reduce the return. Fund launched 21.04.2011.

PORTFOLIO

Buys/Sells

In June, there were no buys or sells of full positions.

Sector Breakdown

The following table shows the asset allocation of the Guinness Global Energy Fund at **June 30 2025**.

Asset allocation as %NAV	Current	*Change*	Last year end	Previous year ends								
	Jun-25		Dec-24	Dec-23	Dec-22	Dec-21	Dec-20	Dec-19	Dec-18	Dec-17	Dec-16	Dec-15	Dec-14
Oil & Gas	**96.9%**	***-0.9%***	***97.8%***	**98.9%**	**97.4%**	**96.9%**	**94.8%**	**98.3%**	**96.7%**	**98.4%**	**96.7%**	**95.1%**	**93.7%**
Integrated	57.5%	*2.4%*	*55.1%*	54.7%	54.7%	57.7%	56.3%	51.1%	46.4%	42.9%	46.4%	41.5%	37.3%
Exploration & Production	17.5%	*-1.8%*	*19.3%*	23.2%	23.1%	23.7%	22.2%	29.6%	35.8%	36.9%	35.8%	36.5%	36.2%
Drilling	0.0%	*0.0%*	*0.0%*	0.0%	0.0%	0.0%	0.0%	0.1%	2.2%	1.9%	2.2%	1.5%	3.3%
Equipment & Services	7.9%	*-1.9%*	*9.8%*	10.0%	9.0%	4.0%	4.6%	9.6%	8.6%	9.5%	8.6%	11.4%	13.4%
Storage & Transportation	8.3%	*0.3%*	*8.0%*	5.0%	4.8%	4.3%	4.4%	4.0%	0.0%	3.5%	0.0%	0.0%	0.0%
Refining & Marketing	5.6%	*0.0%*	*5.6%*	6.0%	5.8%	7.2%	7.3%	3.8%	3.7%	3.7%	3.7%	4.2%	3.5%
Solar	0.0%	*0.0%*	*0.0%*	0.2%	0.7%	1.0%	1.8%	0.7%	0.9%	1.4%	0.9%	4.7%	3.7%
Coal & Consumable Fuels	0.0%	*0.0%*	*0.0%*	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Construction & Engineering	0.0%	*0.0%*	*0.0%*	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Cash	3.1%	*0.9%*	*2.2%*	0.9%	1.9%	2.1%	3.3%	1.1%	2.4%	0.2%	2.4%	0.2%	2.6%

Source: Guinness Global Investors. Basis: Global Industry Classification Standard (GICS)

The Fund at end of June 2025 was on a price to earnings (PE) ratio for 2025/2026 of 12.1x/11.1x versus the MSCI World Index at 21.0x/18.8x as set out in the following table:

As at 30 June 2025	PE		
	2024	2025E	2026E
Guinness Global Energy Fund	10.9x	12.1x	11.1x
MSCI World Index	22.6x	21.0x	18.8x
Fund Premium/(Discount)	*-52%*	*-43%*	*-41%*

Source: Bloomberg; Guinness Global Investors

Portfolio holdings

Our integrated and similar stock exposure (c.56%) is comprised of a mix of mid-cap, mid/large-cap and large-cap stocks. Our five large-caps are Chevron, BP, ExxonMobil, Shell and TotalEnergies. Mid/large and mid-caps are ENI, Equinor, GALP, Repsol and OMV. As of June 30 2025, the median P/E ratio of this group was 10.7x 2025 earnings. We also have three Canadian integrated holdings, Suncor, Cenovus and Imperial Oil. All three companies have significant exposure to oil sands in addition to downstream assets.

Our exploration and production holdings (c.18%) give us exposure most directly to rising oil and natural gas prices. We include in this category non-integrated oil sands companies, as this is the GICS approach. The stock here with oil sands exposure is Canadian Natural Resources. The pure E&P stocks have a bias towards the US (EOG, Diamondback and Devon), with one other name (ConocoPhillips) having a mix of US and international production. One of the key metrics behind a number of the E&P stocks held is low enterprise value / proven reserves.

We have exposure to two emerging market stocks, Petrochina and Sinopec, which in total represent around 4.5% of the portfolio.

The portfolio contains two midstream holdings, Enbridge and Kinder Morgan, two of North America's largest pipeline companies. With the growth of hydrocarbon demand expected in the US and Canada over the next five years, we believe both companies are well placed to execute their pipeline expansion plans.

We have reasonable exposure to oil service stocks, which comprise just over 8% of the portfolio. The stocks we own provide exposure to both North American and international oil and natural gas development.

Our independent refining exposure is currently in the US in Valero, the largest of the US refiners. Valero has a reasonably large presence on the US Gulf Coast and is benefiting from a recovery in refining margins.

Portfolio at May 31 2025 (for compliance reasons, disclosed one month in arrears)

Guinness Global Energy Fund (31 May 2025)			P/E			EV/EBITDA			Price/Book		
Stock	**ISIN**	**% of NAV**	**2024**	**2025E**	**2026E**	**2024**	**2025E**	**2026E**	**2024**	**2025E**	**2026E**
Integrated Oil & Gas											
Exxon Mobil Corp	US30231G1022	5.4%	13.1x	15.8x	13.5x	7.3x	7.0x	6.4x	1.7x	1.7x	1.7x
Chevron Corp	US1667641005	5.4%	16.3x	17.0x	13.7x	7.2x	6.8x	5.8x	1.6x	1.6x	1.6x
Shell PLC	GB00BP6MXD84	6.1%	8.7x	10.7x	9.8x	4.0x	4.4x	4.5x	1.1x	1.1x	1.1x
Total SA	FR0000120271	5.5%	7.4x	8.4x	8.0x	4.0x	4.5x	4.5x	1.1x	1.1x	1.1x
BP PLC	GB0007980591	4.8%	10.5x	11.3x	9.8x	4.3x	4.0x	3.9x	1.3x	1.2x	1.2x
Equinor ASA	NO0010096985	3.4%	7.7x	7.8x	7.7x	1.7x	1.7x	1.9x	1.5x	1.4x	1.3x
ENI SpA	IT0003132476	3.8%	9.1x	9.0x	8.1x	3.8x	4.0x	3.8x	0.8x	0.8x	0.8x
Repsol SA	ES0173516115	3.6%	6.3x	5.6x	5.0x	4.3x	3.4x	3.3x	0.6x	0.5x	0.5x
Galp Energia SGPS SA	PTGAL0AM0009	3.4%	10.2x	14.5x	12.0x	4.1x	5.3x	4.5x	2.5x	2.2x	2.1x
OMV AG	AT0000743059	3.8%	6.5x	9.1x	8.4x	3.4x	3.9x	4.1x	1.1x	0.9x	0.9x
		45.3%									
Integrated / Oil & Gas E&P - Canada											
Suncor Energy Inc	CA8672241079	4.3%	9.9x	10.3x	10.5x	4.3x	5.1x	5.0x	1.4x	1.3x	1.3x
Canadian Natural Resources Ltd	CA1363851017	3.7%	14.7x	11.6x	12.0x	6.7x	6.3x	6.2x	2.3x	2.1x	2.1x
Cenovus Energy Inc	CA15135U1093	2.7%	10.7x	12.2x	11.3x	4.2x	4.5x	4.4x	1.2x	1.1x	1.1x
Imperial Oil Ltd	CA4530384086	4.2%	10.8x	13.2x	14.2x	6.5x	7.7x	8.1x	2.2x	2.1x	2.0x
		15.0%									
Integrated Oil & Gas - Emerging market											
PetroChina Co Ltd	CNE1000003W8	2.6%	6.5x	6.8x	6.8x	3.5x	3.8x	3.7x	0.7x	0.7x	0.7x
		2.6%									
Oil & Gas E&P											
ConocoPhillips	US20825C1045	4.3%	11.0x	13.5x	12.4x	5.5x	5.0x	4.9x	1.7x	1.7x	1.6x
EOG Resources Inc	US26875P1012	3.6%	9.3x	11.3x	10.1x	4.7x	5.1x	4.7x	2.1x	1.9x	1.8x
Diamondback Energy Co	US25278X1090	3.1%	8.5x	9.9x	10.5x	7.6x	5.6x	5.8x	1.0x	1.0x	0.9x
Devon Energy Corp	US25179M1036	2.4%	6.3x	7.8x	7.2x	3.8x	3.8x	3.8x	1.4x	1.3x	1.1x
		13.4%									
International E&Ps											
Pharos Energy PLC	GB00B572ZV91	0.2%	12.5x	n.m.	5.8x	1.2x	1.4x	1.2x	0.4x	0.3x	0.3x
		0.2%									
Midstream											
Kinder Morgan Inc	US49456B1017	4.7%	23.7x	22.1x	20.6x	14.4x	11.7x	11.2x	2.0x	2.0x	2.0x
Enbridge Inc	CA29250N1050	4.3%	21.4x	19.8x	18.9x	16.3x	12.3x	11.8x	2.3x	2.3x	2.3x
		9.0%									
Equipment & Services											
Schlumberger Ltd	AN8068571086	2.8%	8.9x	10.5x	9.8x	5.3x	6.6x	6.3x	2.2x	1.9x	1.9x
Halliburton Co	US4062161017	2.1%	6.7x	8.3x	7.4x	4.5x	5.6x	5.4x	1.6x	1.6x	1.4x
Baker Hughes a GE Co	US05722G1004	2.7%	16.2x	15.6x	13.7x	8.3x	8.6x	7.9x	2.2x	2.0x	1.9x
Helix Energy Solutions Group Inc	US42330P1075	0.7%	13.2x	15.4x	9.5x	3.3x	4.5x	3.9x	0.6x	0.6x	0.6x
		8.4%									
Oil & Gas Refining & Marketing											
China Petroleum & Chemical Corp	CNE1000002Q2	1.6%	9.4x	9.5x	8.6x	6.0x	5.9x	5.6x	0.6x	0.6x	0.6x
Valero Energy Corp	US91913Y1001	4.3%	15.0x	19.3x	13.1x	7.1x	8.8x	7.2x	1.7x	1.7x	1.7x
		6.0%									
Research Portfolio											
EnQuest PLC	GB00B635TG28	0.4%	n.m.	12.2x	5.0x	1.6x	1.9x	2.0x	0.6x	0.5x	0.5x
Diversified Energy Company	GB00BQHP5P93	0.4%	7.8x	7.4x	8.4x	12.0x	3.6x	3.7x	1.6x	1.3x	1.1x
Deltic Energy PLC	GB00BNTY2N01	0.1%	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.
Reabold Resources PLC	GB00B95L0551	0.0%	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	0.1x	n.m.	n.m.

The Fund's portfolio may change significantly over a short period of time; no recommendation is made for the purchase or sale of any particular stock.

OUTLOOK

i) Oil market

The table below illustrates the difference between the growth in world oil demand and non-OPEC supply since 2015:

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025E IEA
World Demand	***95.3***	***96.4***	***98.2***	***99.5***	***100.7***	***91.8***	***97.4***	***100.0***	***102.2***	***103.0***	***103.8***
Non-OPEC supply (inc NGLs)	*62.1*	*61.5*	*62.5*	*65.0*	*67.0*	*64.4*	*65.0*	*66.9*	*69.4*	*70.3*	*71.6*
OPEC NGLs	*5.2*	*5.3*	*5.4*	*5.5*	*5.3*	*5.2*	*5.3*	*5.5*	*5.5*	*5.5*	*5.7*
Non-OPEC supply plus OPEC NGLs	**67.3**	**66.8**	**67.9**	**70.5**	**72.3**	**69.6**	**70.3**	**72.4**	**74.9**	**75.8**	**77.3**
Call on OPEC (crude oil)	**28.0**	**29.6**	**30.3**	**29.0**	**28.4**	**22.2**	**27.1**	**27.6**	**27.3**	**27.2**	**26.5**
Congo supply adjustment	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Gabon supply adjustment	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Eq Guinea supply adjustment	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Call on OPEC-9 (crude oil)	**27.4**	**29.0**	**29.7**	**28.4**	**27.8**	**21.6**	**26.5**	**27.0**	**26.7**	**26.6**	**25.9**

Source: Bloomberg; IEA; Guinness Global Investors, July 2025

Global oil demand in 2019 was 13m b/day higher than the pre-Financial Crisis (2007) peak. The demand picture for 2020, down by around 9m b/day, was heavily clouded by the impact of the COVID-19 virus and efforts to mitigate its spread. Demand rebounded between 2020 and 2024 by over 11m b/day, leaving overall consumption in 2024 2.5m b/day higher than the 2019 peak.

OPEC

The last few years have proved testing for OPEC. They have tried to keep prices strong enough that OPEC economies are not running excessive deficits, whilst not pushing the price too high and over-stimulating non-OPEC supply.

The effect of $100+/bl oil, enjoyed for most of the 2011-2014 period, emerged in 2014 in the form of an acceleration in US shale oil production and an acceleration in the number of large non-OPEC (ex US onshore) projects reaching production. OPEC met in late 2014 and responded to rising non-OPEC supply with a significant change in strategy to one that prioritised market share over price. Post the November 2014 meeting, OPEC not only maintained their quota but also raised production significantly, up by 2.5m b/day over the subsequent 18 months. This contributed to an oversupplied market in 2015 and 2016.

In late 2016, faced with sharply lower oil prices, OPEC stepped back from its market share stance, announcing plans for the first production cut since 2008. The announcement included a cut in production from Russia (a non-OPEC country), creating for the first time the concept of an OPEC+ group.

OPEC-9 oil production to June 2025

('000 b/day)	31-Dec-19	31-May-25	30-Jun-25	Current vs Dec 2019	Current vs last month
Saudi	9,730	9,130	**9,370**	-360	240
Iran	2,080	3,390	**3,370**	1,290	-20
Iraq	4,610	4,180	**4,210**	-400	30
UAE	3,040	3,310	**3,400**	360	90
Kuwait	2,710	2,440	**2,470**	-240	30
Nigeria	1,820	1,530	**1,560**	-260	30
Venezuela	730	900	**900**	170	0
Libya	1,110	1,320	**1,280**	170	-40
Algeria	1,010	920	**930**	-80	10
OPEC-9	**26,840**	**27,120**	**27,490**	**650**	**370**

Source: Bloomberg; Guinness Global Investors, 30.6.2025

The 2017-19 period continued to be volatile for OPEC, with further production cuts necessary to balance ongoing non-OPEC supply growth.

The challenge for OPEC+ then ballooned in 2020 with the onset of COVID around the world. Initially, OPEC and their non-OPEC partners failed to reach an agreement around their response to demand from the spread of the virus, precipitating a fallout between participants and a short-lived price war. In light of extreme oil market oversupply, OPEC and non-OPEC partners reconvened in April 2020 and confirmed a deal to cut their production by nearly 10m b/day.

In July 2021, with demand largely recovered after COVID, the OPEC+ group agreed to taper their quota cuts at 0.4m b/day each month until September 2022. The actions of OPEC through the pandemic gave us confidence that OPEC was looking to do 'what it takes' to keep the market in balance, despite extreme challenges. Since the end of 2022, OPEC have adjusted their production to match closely the prevailing call on the group.

OPEC-9 apparent production vs call on OPEC 2000 – 2025

Source: IEA Oil Market Report (June 2025 and prior); Guinness estimates

OPEC's actions in recent years have generally demonstrated a commitment to delivering a reasonable oil price to satisfy their own economies, but also to incentivise investment in long-term projects. Saudi's actions at the head of OPEC have been designed to achieve an oil price that, to some extent, closes their fiscal deficit (c.$95/bl is needed to close the gap fully), whilst not spiking the oil price too high and over-stimulating non-OPEC supply.

In the short term, the COVID-19 and Russia/Ukraine crises have created particularly challenging conditions, adding to oil price volatility. Longer-term, we believe that Saudi seeks a 'good' oil price, one that satisfies their fiscal needs. Overall, we reiterate two important criteria for Saudi:

1. Saudi Arabia is interested in the average price of oil that they get; they have a longer investment horizon than most other market participants.

2. Saudi Arabia wants to maintain a balance between global oil supply and demand to maintain a price that is acceptable to both producers and consumers.

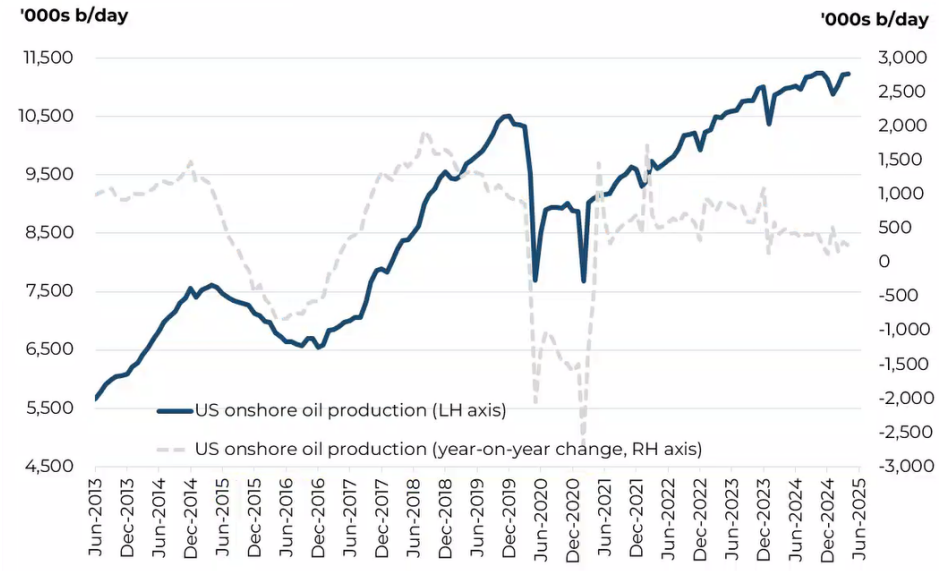
Nothing in the market in recent years has changed our view that OPEC can put a floor under the price, as they did in 2020, 2018, 2016, 2008, 2006, 2001 and 1998.

Supply looking forward

The non-OPEC world has, since the 2008 financial crisis, grown its production more meaningfully than in the period before 2008. The growth was 0.9% p.a. from 2001-2008, increasing to 1.7% p.a. from 2009-2024.

Growth in the non-OPEC region since the start of the last decade has been dominated by the development of shale oil and oil sands in North America (up around 8m b/day since 2010), implying that the rest of the non-OPEC region has barely grown over this period, despite the sustained high oil price until mid-2014.

US onshore oil production



Source: EIA; Guinness Global Investors, June 2025

The growth in US shale oil production, especially the Permian Basin, raises the question of how much more there is to come and at what price. We assess that US shale oil is capital-intensive, but some growth is viable, on average, at around $70 oil prices. In particular, there appears to be ample inventory in the Permian Basin to maintain volumes into the late-2020s. The rate of development is heavily dependent on the cashflow available to producing companies, which tends to be recycled immediately into new wells, and the underlying cost of services to drill and fracture the wells. Since 2019, we have seen increased shareholder pressure applied to US E&P companies to improve their capital discipline and to cut their reinvestment rates.

The collapse in oil prices at the start of 2020 to a level well below $50/bl changed the landscape, with US E&P companies reducing capital spending further as they attempted to live within their cashflows. Shale oil production dropped by nearly 3m b/day in 2020 (peak to trough) and took nearly three years to recover to the previous peak of late 2019.

Non-OPEC supply growth outside the US has been sustained in recent years by a handful of major project additions, notably in Guyana and Brazil. Net growth remains sluggish, however, as much of the new oil has been required to offset natural declines in more mature basins.

Future demand

The IEA estimates that 2025 oil demand will rise by around 0.8m b/day to 103.8m b/day, over 3m b/day ahead of the 2019 pre-COVID peak. Post the COVID demand recovery, the world is settling back into annual oil demand growth of plus or minus 1m b/day, led by increased use in the non-OECD region. China has been, and continues to be, a key – although no longer major - part of this growth and signs are emerging that India will also grow well.

The trajectory of global oil demand over the next few years will be a function of global GDP, the pace of the 'consumerisation' of developing economies, the development of alternative fuels, and price. At $80/bl, the world oil bill as a percentage of GDP is around 2.7%, and this will still be a stimulant for further demand growth. If oil prices were in a higher range (say around $115/bl, representing 3.8% of GDP), we would probably return to the pattern established over the past five years, with a flatter picture in the OECD more than offset by growth in the non-OECD area. Flatter OECD demand reflects improving oil efficiency over time, dampened by economic, population and vehicle growth. Within the non-OECD, population growth and rising oil use per capita will both play a significant part.

We keep a close eye on developments in the 'new energy' vehicle fleet (electric vehicles, hybrids, etc). Sales of electric vehicles (pure electric and plug-in hybrid electrics) globally were around 17m in 2024, up from 14 million in 2023. We expect to see strong EV sales growth again in 2025, up to around 20m, exceeding 20% of total global sales. Even applying an aggressive growth rate to EV sales, we see EVs comprising only around 5-6% of the global car fleet by the end of 2025. Looking further ahead, we expect the penetration of EVs to accelerate, causing global gasoline demand to peak at some point in the middle of the 2020s. However, owing to the weight of oil demand that comes from sources other than passenger vehicles (around 75%), which we expect to continue growing linked to GDP, we expect total oil demand not to peak until around 2030.

Conclusions about oil

The table below summarises our view by showing our oil price forecasts for WTI and Brent in 2025 versus recent history.

Average WTI & Brent yearly prices, and changes

																			Est
Oil price ($/bl)	**2007**	**2008**	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**
WTI	72	100	62	80	95	94	98	93	49	43	51	65	57	39	68	94	78	76	67
Brent	73	99	63	80	111	112	109	99	54	45	55	72	64	43	71	99	83	81	70
Brent/WTI average	**73**	**99**	**62**	**80**	**103**	**103**	**103**	**96**	**51**	**44**	**53**	**68**	**61**	**41**	**70**	**97**	**80**	**78**	**69**
Brent/WTI y-on-y change	-3%	37%	-37%	28%	29%	0%	0%	-7%	-47%	-13%	19%	29%	-11%	-32%	68%	39%	-17%	-2%	-13%
Brent/WTI (5yr MAV)	59	72	75	78	83	89	90	97	91	80	70	63	55	53	58	67	70	73	79

Source: Guinness Global Investors estimates, Bloomberg, May 2025

We believe that Saudi Arabia's long-term objective remains to maintain a 'good' oil price, something north of $80/bl. The world oil bill at around $80/bl represents 2.7% of 2024 global GDP, well under the thirty-year average level of around 3%.

ii) Natural gas market

US gas demand

On the demand side for the US, industrial gas demand and power generation gas demand (each about 25-35% of total US gas demand) are key. Commercial and residential demand, which make up a further quarter, have been fairly constant on average over the last decade, although yearly fluctuations due to the severity of winter weather can be marked.

US natural gas demand

Bcf/day	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025E
US natural gas demand:														
Residential/commercial	19.2	22.4	23.4	21.4	20.5	20.9	23.4	23.5	21.5	21.5	23.2	21.5	21.0	22.6
Power generation	24.9	22.3	22.3	26.5	27.3	25.3	29.0	30.9	31.7	30.9	33.1	35.3	36.8	35.0
Industrial	19.7	20.3	20.9	20.6	21.1	21.6	23.0	23.1	22.3	22.5	23.2	23.3	23.7	23.7
Pipeline exports (Mexico)	1.8	1.9	1.9	2.7	3.8	4.0	4.6	5.1	5.4	5.9	5.7	6.1	6.4	6.7
LNG exports	-	-	-	0.1	1.0	2.6	2.8	4.8	6.4	9.7	12.0	12.7	12.6	15.9
Pipeline/plant/other	6.1	6.7	6.3	6.5	6.4	6.5	7.0	7.8	7.7	7.8	7.4	8.2	8.3	7.9
Total demand	**71.7**	**73.6**	**74.8**	**77.8**	**80.1**	**80.9**	**89.8**	**95.2**	**95.0**	**98.3**	**104.6**	**107.1**	**108.8**	**111.8**
Demand growth	**3.1**	**1.9**	**1.2**	**3.0**	**2.3**	**0.8**	**8.9**	**5.4**	**- 0.2**	**3.3**	**6.3**	**2.5**	**1.7**	**3.0**

Source: EIA; GS; Guinness estimates, June 2025

Industrial demand (of which around 35% comes from petrochemicals) trends up and down depending on the strength of the economy and the differential between US and international gas prices. Electricity gas demand (i.e. power generation) is affected by weather, in particular by warm summers, which drive demand for air conditioning, but the underlying trend depends on GDP growth and the proportion of incremental new power generation each year that goes to natural gas versus the alternatives of coal, nuclear and renewables. Gas has been taking market share in this sector: in 2022, 38% of electricity generation was powered by gas, up from 22% in 2007. The big loser here is coal, which has consistently given up market share.

Total gas demand in 2024 (including Mexican and LNG exports) was around 108.8 Bcf/day, up by 1.7 Bcf/day versus 2023 and 13 Bcf/day higher than the pre-COVID level in 2019. The biggest contributor to the growth in demand in 2024 was power generation.

We expect US demand growth in 2025 of 3.0 Bcf/day, similar to the average growth seen between 2021 and 2024. Growth is expected to be driven by higher LNG exports and greater power generation demand. Beyond 2025, we expect to see a material increase in US LNG export capacity as higher international gas prices incentivise new LNG export investment. Proposed projects imply capacity growth of around 3 Bcf/day by the end of 2025 and a further 5-6 Bcf/day in 2026-2028, bringing total export capacity to over 20 Bcf/day by 2028.

US gas supply

Overall, whilst gas demand in the US has been strong over the past five years, it has been overshadowed by a rise in onshore supply, holding the gas price lower.

The supply side fundamentals for natural gas in the US are driven by three main moving parts: onshore and offshore domestic production, pipeline imports of gas from Canada, and LNG imports. Of these, onshore supply is the biggest component, making up over 90% of the total supply.

US natural gas supply

Bcf/day	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025E
US natural gas supply:														
US (onshore & offshore)	65.7	66.3	70.9	74.2	73.4	73.6	84.3	91.4	91.1	91.8	97.4	102.4	101.6	104.6
Net imports (Canada)	5.4	5.0	4.9	4.9	5.5	5.8	5.4	4.7	4.4	5.1	5.6	5.2	5.8	5.9
LNG imports & other	0.8	0.6	0.5	0.5	0.4	0.3	0.1	0.1	-	-	0.1	-	-	-
Total supply	**71.9**	**71.9**	**76.3**	**79.6**	**79.3**	**79.7**	**89.8**	**96.2**	**95.5**	**96.9**	**103.1**	**107.6**	**107.4**	**110.5**
Supply growth	**2.4**	**-**	**4.4**	**3.3**	**- 0.3**	**0.4**	**10.1**	**6.4**	**- 0.7**	**1.4**	**6.2**	**4.5**	**- 0.2**	**3.1**
(Supply)/demand balance	**- 0.2**	**1.7**	**- 1.5**	**- 1.8**	**0.8**	**1.2**	**-**	**- 1.0**	**- 0.5**	**1.4**	**1.5**	**- 0.5**	**1.4**	**1.3**

Source: EIA; GS; Guinness estimates, June 2025

Since 2010, the weaker gas price in the US reflects growing onshore US production driven by rising shale gas and associated gas production (a by-product of growing onshore US oil production). Interestingly, the overall rise in onshore production has come despite a collapse in the number of rigs drilling for gas, which has dropped from a 1,606 peak in September 2008

to a trough of 68 in July 2020, before recovering to 109 at the end of June 2025. However, offsetting the fall, the average productivity per rig has risen dramatically since 2020 as producers focus their attention on the most prolific shale basins, whilst associated gas from oil production has grown handsomely.

The outlook for gas production in the US depends on three key factors: the rise of associated gas (gas produced from wells classified as oil wells); expansion of the newer shale basins, principally the Marcellus/Utica, and the decline profile of legacy gas fields.

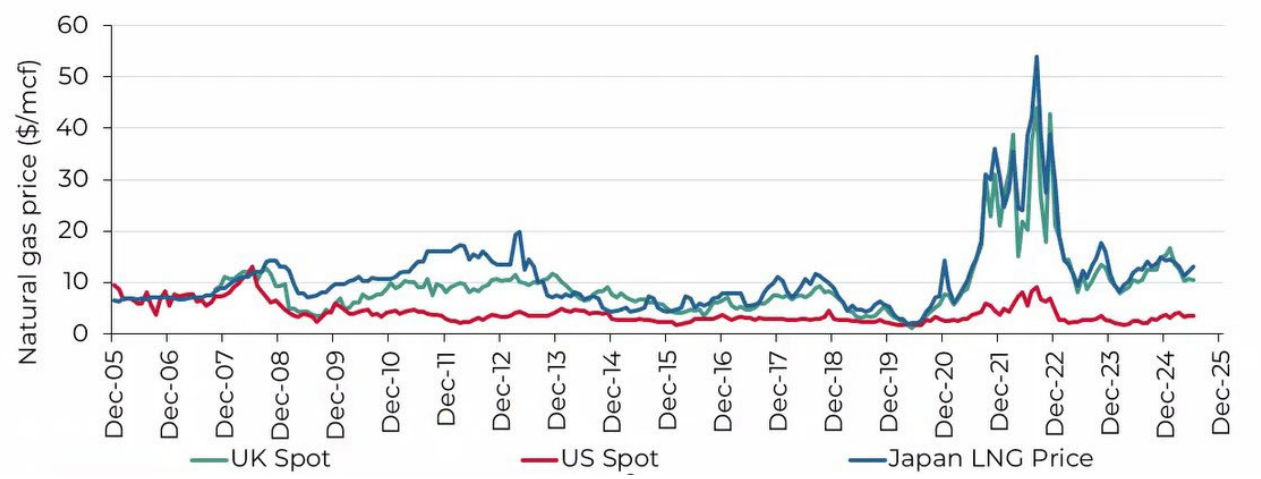
Associated gas production is expected to rise again in 2025, albeit at a slower pace (+0.8 Bcf/day) than in 2022 (+5.5 Bcf/day) and 2023 (+3.6 Bcf/day). Lower supply growth is expected from onshore properties as weaker natural gas prices have brought a lower rig count and lower investment.

Outlook for US LNG exports – global gas arbitrage

We expect the LNG market to be quite finely balanced over the next couple of years. In the event of moderate Chinese LNG demand and "normal" European winters, LNG supply and demand appear to be roughly in balance, and global LNG prices appear to be fairly priced at around $10/mcf. However, stronger Asian demand (including South Korea and Japan as well as China) or a colder than expected European winter could easily see LNG in tight supply and cause international gas prices to spike, although it is unlikely that they revert to the $40-$50 levels seen in winter 2022/2023.

Looking further ahead, we see international gas prices settling in a $9-11/mcf range. This price range should be sufficient to incentivise new US LNG supply to come online from 2025. It would also allow Europe to displace permanently almost all its Russian gas imports. An international gas price in the $9-11/mcf is well down on the highs seen in 2022, but would leave the market at a higher price point than that seen in the few years prior to COVID and the Russian invasion of Ukraine.

Global gas prices

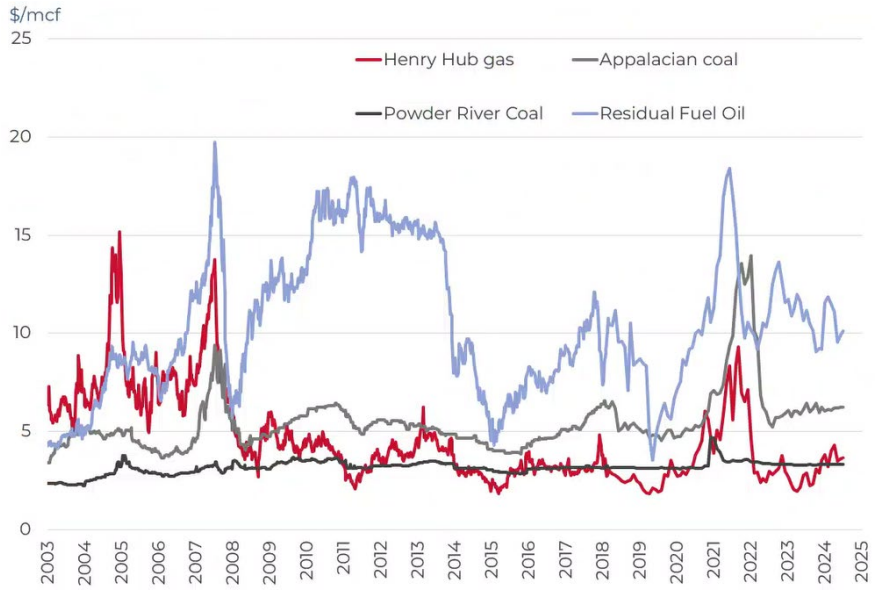


Source: Bloomberg; Guinness Global Investors, June 2025

Relationship with oil and coal

The following chart of the front month US natural gas price against heating oil (No 2), residual fuel oil (No 6) and coal (Sandy Barge adjusted for transport and environmental costs) seeks to illustrate how coal and residual fuel oil switching provide a floor and heating oil a ceiling to the natural gas price. When the gas price has traded below the coal price support level (2012 and 2016), resulting coal-to-gas switching for power generation was significant.

Natural gas versus substitutes (fuel oil and coal) - Henry Hub vs residual fuel oil, heating oil, Sandy Barge (adjusted) and Powder River coal (adjusted)



Source: Bloomberg; Guinness Global Investors, July 2025

Conclusions about US natural gas

The US natural gas price since 2010 has mainly fluctuated between $2 and $4/mcf. The extremes of this range have tended to coincide with warm and cold winters, and any sustained recovery over $3.50/mcf has generally been muted by strength in gas supply. With inflationary pressures, we estimate that new onshore supply has an incentive price of around $3.50/mcf. Assuming normal weather in 2025, we expect a Henry Hub price at around this level.

APPENDIX: Oil and gas markets historical context

Oil price (WTI $) since 1989

Source: Bloomberg, July 2025

For the oil market, the period since the Iraq/Kuwait war (1990/91) can be divided into four distinct periods:

1) **1990-1998:** broadly characterised by decline. The oil price steadily weakened from 1991 – 1993, rallied between 1994 – 1996, and then sold off sharply, to test 20-year lows in late 1998. This latter decline was partly induced by a sharp contraction in demand growth from Asia, associated with the Asian crisis, partly by a rapid recovery in Iraq exports after the UN Oil for Food deal, and partly by a perceived lack of discipline at OPEC in coping with these developments.

2) **1998-2014:** a much stronger price and upward trend. There was a very strong rally between 1999 and 2000 as OPEC implemented 4m b/day of production cuts. It was followed by a period of weakness caused by the rollback of these cuts, coinciding with the world economic slowdown, which reduced demand growth and a recovery in Russian exports from depressed levels in the mid-90s that increased supply. OPEC responded rapidly to this during 2001 and reintroduced production cuts that stabilised the market relatively quickly by the end of 2001.

   Then, in late 2002 and early 2003, the war in Iraq and a general strike in Venezuela caused the price to spike upward. This was quickly followed by a sharp sell-off due to the swift capture of Iraq's Southern oil fields by Allied Forces and the expectation that they would win easily. Then, higher prices were generated when the anticipated recovery in Iraq production was slow to materialise. This was in mid to end 2003, followed by a much more normal phase with positive factors (China demand; Venezuelan production difficulties; strong world economy) balanced against negative ones (Iraq back to 2.5 m b/day; 2Q seasonal demand weakness), with stock levels and speculative activity needing to be monitored closely. OPEC's management skills appeared likely to be the critical determinant in this environment.

   By mid-2004 the market had become unsettled by the deteriorating security situation in Iraq and Saudi Arabia and increasingly impressed by the regular upgrades in IEA forecasts of near record world oil demand growth in 2004 caused by a triple demand shock from strong demand simultaneously from China; the developed world (esp. USA) and Asia ex China. Higher production by OPEC has been one response, and there was, for a period, some worry that this, if not curbed, together with demand and supply responses to higher prices, would cause an oil price sell-off. Offsetting this has been an opposite worry that non-OPEC production could be within a decade of peaking; a growing view that OPEC would defend $50 oil vigorously; upwards pressure on inventory levels from a move from JIT (just in time) to JIC (just in case); and pressure on futures markets from commodity fund investors.

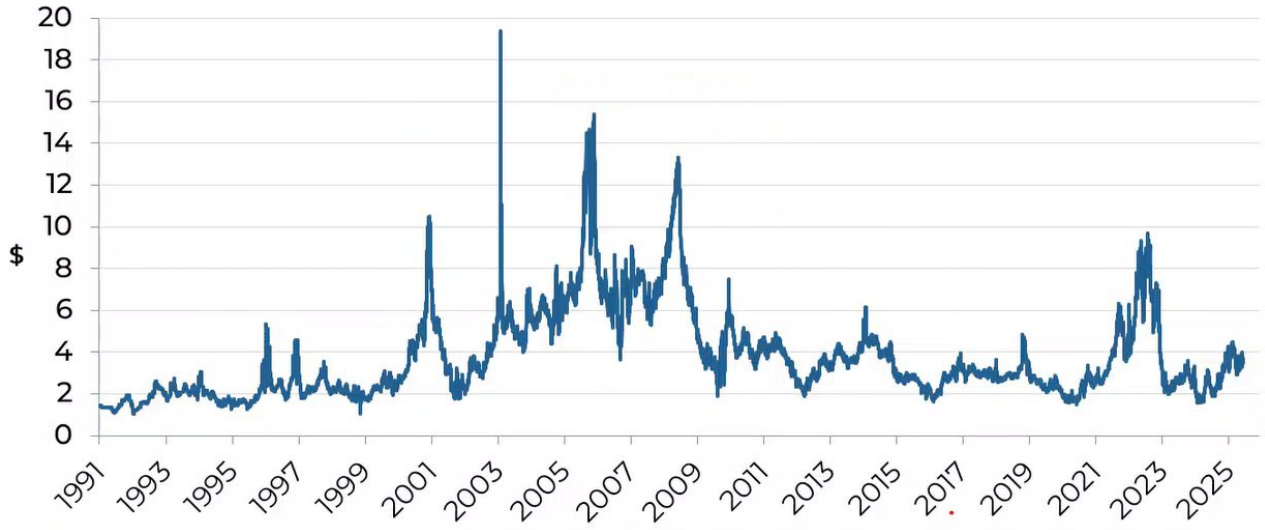
   Continued expectations of a supply crunch by the end of the decade, coupled with increased speculative activity in oil markets, contributed to the oil price surging past $90 in the final months of 2007 and as high as $147 by the middle of 2008. This spike was brought to an abrupt end by the collapse of Lehman Brothers and the financial crisis and recession that followed, all of which contributed to the oil price falling back by early 2009 to just above $30. OPEC responded decisively and reduced output, helping the price to recover in 2009 and stabilise in the $70-95 range, where it remained for two years.

   Prices during 2011-2014 moved higher, averaging around $100, though WTI generally traded lower than Brent oil benchmarks due to US domestic oversupply affecting WTI. During this period, US unconventional oil supply grew strongly, but was offset by the pressures of rising non-OECD demand and supply tensions in the Middle East/North Africa.

3) **2014-2020:** a further downcycle in oil. Ten years of high prices leading up to 2014 catalysed a wall of new non-OPEC supply, sufficient that OPEC saw no choice but to stop supporting price and reset the investment cycle. Oil prices found a bottom in 2016 (as a result of OPEC and non-OPEC partners cutting production again), but their recovery was capped by the volume of new supply still coming into the market from projects sanctioned pre the 2014 price crash. Average prices were pinned 2017-19 in the $50-70/bl range, with prices at the top end of this range stimulating oversupply from US shale. The alliance between OPEC and non-OPEC partners fell apart briefly in March 2020 and, coupled with an unprecedented collapse in demand owing to the COVID-19 crisis, oil prices dropped back below $30/bl, before recovering to around $50/bl by the end of 2020 thanks to renewed OPEC+ action.

4) **2021 onwards:** Underinvestment in new oil capacity in the 2015-2020 period catalysed the start of a new cycle in 2021, pushing prices above $75/bl.

North American gas price since 1991 (Henry Hub $/Mcf)



Source: Bloomberg, July 2025

With regard to the US natural gas market, the price traded between $1.50 and $3/Mcf for the period 1991 - 1999. The 2000s were a more volatile period for the gas price, with several spikes over $8/mcf, but each lasting less than 12 months. On each occasion, the price spike induced a spurt of drilling, which brought the price back down. Except for these spikes, from 2004 to 2008, the price generally traded in the $5-8 range. Since 2008, the price has averaged below $4 as progress achieved in 2007-8 in developing shale plays boosted supply while the 2008-09 recession cut demand. Demand has been extremely strong over the last decade, but this has been outpaced by continued growth in onshore production, driven by the prolific Marcellus/Utica field and associated gas as a by-product of shale oil production.

North American gas prices are important to many E&P companies. In the short term, they do not necessarily move in line with the oil price, as the gas market is essentially a local one. (In theory, 6 Mcf of gas is equivalent to 1 barrel of oil, so $60 per barrel equals $10/Mcf gas). It remains a regional market more than a global market, though the development of the LNG industry is creating a greater linkage.

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