Investment Commentary - May 2024



# RISK

This is a marketing communication. Please refer to the prospectuses, KIDs and KIIDs for the Funds, which contain detailed information on their characteristics and objectives, 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. Further details on the risk factors are included in the Funds' documentation, available on our website.

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.

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# COMMENTARY

### OIL

#### Prices flat on partial easing of Middle East tensions

Brent and WTI spot oil prices were up \$1/bl and down \$1/bl respectively in April as some de-escalation of tensions in the Middle East late in the month improved confidence over Iranian supply. Five-year forward prices were also about flat, with Brent closing April at \$70/bl and WTI at \$65/bl.

### NATURAL GAS

#### Global gas prices lower on exceptionally mild winter

Asian and European gas prices (using UK national balancing point) ended April around \$1/mcf higher, both trading around \$9-10.5/mcf. High gas inventories in the US after an exceptionally warm winter are keeping a lid on US gas prices, ending April at \$2/mcf.

### EQUITIES

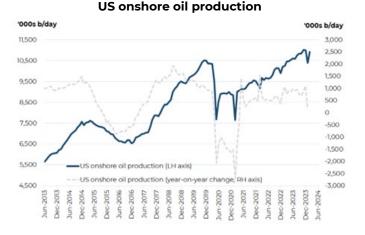
#### Energy outperforms the broad market in April

The MSCI World Energy Index (net return) increased by 0.3% in April, outperforming the MSCI World Index (net return) which fell by 3.7% (all in USD). Year-to-date, the MSCI World Energy Index is up by 10.1% versus the MSCI World Index up by 4.8%.

#### **CHART OF THE MONTH**

#### Year-on-year growth in US onshore oil supply dropping

The annual growth rate for US shale oil had been running in recent months at around 0.8-0.9m b/day but has now dropped to below 0.5m b/day. A lower drilling rig count, despite elevated oil prices, is driving the change in rate of growth, indicating that exploration and production (E&P) companies remain disciplined in their use of capital.

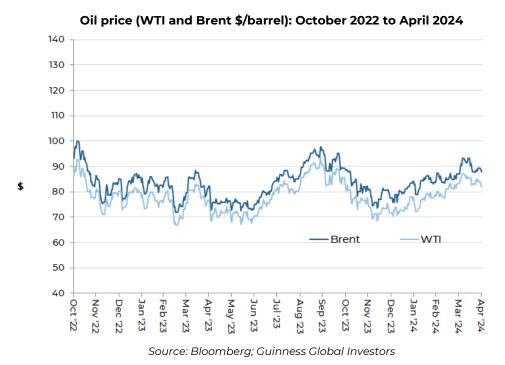


#### Source: EIA, Guinness Global Investors, May 2024

**UINNES** GLOBAL INVESTO

# **APRIL IN REVIEW**

### i) Oil market



The West Texas Intermediate (WTI) oil price began April at \$83/bl and rose to a high of nearly \$87 on 7<sup>th</sup> April, before drifting lower to close the month at \$82/bl. WTI has averaged \$79/bl so far this year, having averaged \$78/bl in 2023 and \$95/bl in 2022. Brent oil traded in a similar shape, opening at \$87/bl, rising to \$91/bl, then closing at nearly \$88/bl. Brent has averaged just under \$85/bl so far in 2024, having averaged \$83/bl in 2023 and \$100/bl in 2022. The gap between the WTI and Brent benchmark oil prices closed over the month, ending April at \$5.9/bl. The Brent-WTI spread has averaged \$6.0/bl so far in 2024 after averaging \$5.0/bl in 2023.

### Factors which strengthened WTI and Brent oil prices in April:

### Overall tighter supply/demand environment

Recent inventory declines suggest the oil market has been tighter than expected in the start of 2024. Expectations for global demand growth have moved higher, supported mainly by stronger consumption in Europe (particularly ethane and liquefied petroleum gas (LPG)), whilst US production has underperformed, partially driven by weather effects. A number of commentators are now pointing to demand growth in 2024 of closer to 1.5m b/day, versus forecasts of around 1.1m-1.2m b/day growth at the start of the year.

### Middle East conflict / Iranian sanction concerns

Tensions in the Middle East initially ratcheted higher in April, with Israel's air strike on Iran's embassy in Syria being followed by Iran launching a significant retaliatory missile and drone attack. A de-escalation of tensions thereafter helped to take a few dollars of political premium out of the oil price, but tensions in the region remain high. Latest data suggests that Iran is producing around 3.2m b/day of oil, up significantly from 12 months ago. Any disruption to Iranian oil exports would clearly have a tightening effect on the world market.

### Saudi breakeven oil price moving higher

During April, the International Monetary Fund increased its estimate of Saudi's fiscal breakeven oil price from \$80/bl to an estimated \$96/bl in 2024. The estimate for 2023 was also revised higher, from \$86/bl to \$93/bl. The fiscal breakeven price is defined as the oil price that is needed by a country to balance fiscal budgets. Please see our managers' comments, below, for further details.





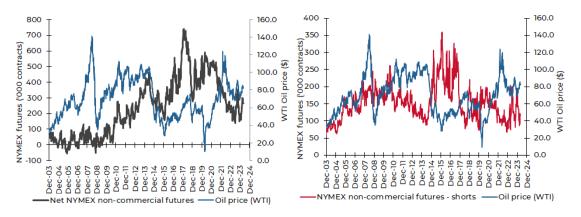
### Factors which weakened WTI and Brent oil prices in April:

### • Weaker Chinese macro

Although China is likely to remain the biggest driver of global oil consumption growth in 2024, weaker manufacturing data and consumer expenditure data bring into question the scale of demand growth. Chinese oil demand is currently forecast to grow by 0.6m b/day in 2024 to 17.0m b/day, a slight downgrade (-0.1m b/day) versus February's forecast.

### Speculative and investment flows

The New York Mercantile Exchange (NYMEX) net non-commercial crude oil futures open position was 265,000 contracts long at the end of April versus 278,000 contracts long at the end of march. 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 movement in the oil price. The gross short position increased to 117,000 contracts at the end of April versus 99,000 at the end of the previous month.



NYMEX Non-commercial net and short futures contracts: WTI January 2004 – April 2024

Source: Bloomberg LP/NYMEX/ICE (2024)

### OECD stocks

OECD total product and crude inventories at the end of March (latest data point) were estimated by the International Energy Agency (IEA) to be 2,795m barrels, up by 22m barrels versus the level reported for the previous month. The rise in March compares to a 10-year average draw of 5m barrels, implying that the OECD market was about 1m b/day oversupplied. The significant oversupply situation in 2020 pushed OECD inventory levels close to maximum capacity in August 2020 (c3.3bn barrels), with subsequent tightening taking inventories below normal levels.







Source: IEA Oil Market Reports (April 2024 and older)

### ii) Natural gas market

The US natural gas price (Henry Hub front month) opened April at \$1.76/mcf (1,000 cubic feet) and range traded for most of the month between \$1.60 and \$1.80/mcf, before rising into the end of the month, closing at \$1.99/mcf. The spot gas price has averaged \$2.02/mcf so far in 2024, having averaged \$2.67/mcf in 2023 and \$6.52/mcf in 2022.

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 \$2.78/mcf and trading up to \$2.90/mcf. The strip price has averaged \$2.76/mcf so far in 2024, having averaged \$3.19 in 2023 and \$5.90 in 2022.



### Henry Hub gas spot price and 12m strip (\$/Mcf): August 2022 to April 2024

### Factors which strengthened the US gas price in April included:

### Falling rig count

The number of rigs drilling for natural gas in the US has fallen from 160 rigs in the middle of 2022 to 110 rigs at the end of April 2024. This has slowed gas production growth, though 'associated gas' production (a byproduct of shale oil) has continued to grow this year from the Permian basin.

### Gas E&P companies react to lower prices

In full year 2023 and Q1 2024 results, many gas-oriented exploration and production (E&P) companies have announced slight reductions in activity and production in reaction to low natural gas prices. Chesapeake has made the most significant announcements so far, indicating that it would reduce the number of wells that it brings into production by 70% vs 2023 levels, thereby reducing 2024 net production by around 1 Bcf/day.

### Factors which weakened the US gas price in April included:

### Rising onshore production

Despite the fall in the gas drilling rig count since 2022, US production rose by just over 3.0 Bcf/day in 2023 to 100.9 Bcf/day and is expected to grow to 101.7 Bcf/day in 2024. Production in February 2024 (latest data point) was almost 5 Bcf/day higher than February 2023, meaning that the overall rise in supply has outpaced demand growth over this period.

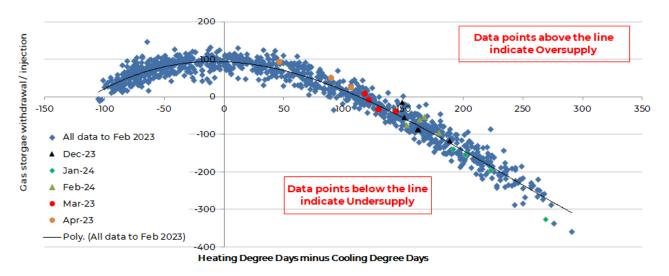
### • Exceptionally warm winter conditions

The 2023/24 winter in the US was the warmest ever recorded, dampening heating demand for natural gas. According to the National Oceanic and Atmospheric Administration, the average temperature in the lower 48 US states from December 2023 to February 2024 was 3.1 degrees Celsius, the highest in a record that goes back to the 1890s, and 3 degrees above the 20<sup>th</sup> century average. This leaves gas in storage at exceptionally high levels for the time of year.



### • Market oversupplied (ex-weather effects)

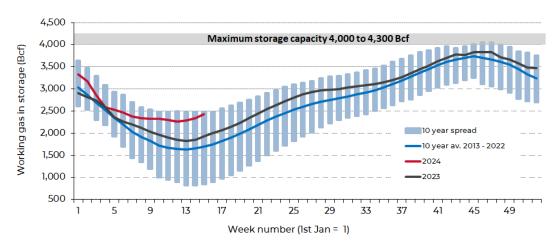
Adjusting for the impact of weather, the US gas market was, on average, around 1 Bcf (billion cubic feet) per day oversupplied during March.





### Natural gas in inventories in the US

US natural gas inventories have been running higher than seasonal norms, driven by a warmer-than-expected winter and early spring that has brought lower-than-expected heating demand. Inventory levels have moved above the 5-year average, ending April at just over 2.4 trillion cubic feet (around 0.7 Tcf above the 10-year average).



### Deviation from 10yr US gas storage norm

Source: Bloomberg; Energy Information Administration (April 2024)



Source: Bloomberg LP; Guinness Global Investors, May 2024

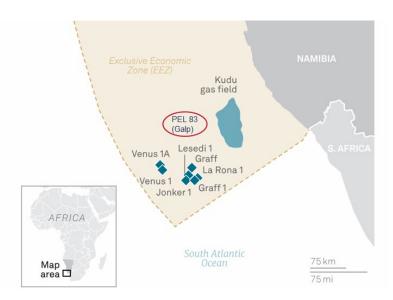
# MANAGERS' COMMENTS

This month, we provide comment on two developments in oil markets recently reported: the oil & gas discoveries made by Galp and its European peers off the coast of Namibia; and the International Monetary Fund's hiking of Saudi's fiscal breakeven oil price to \$96/bl.

### Namibia: what do recent discoveries mean for the companies involved?

Considering the longer-term prospects for non-OPEC supply, it has become clear in recent months that offshore Namibia is likely to be the next meaningful area for development. In January, we were pleased to see the exploration results that Galp (a portfolio holding) reported in the region. At that point, Galp confirmed a "significant" discovery of light oil located close to discoveries made by Shell and TotalEnergies (also portfolio holdings) last year.

On April 21, Galp reported that it had concluded the first phase of exploration in the Mopane field (PEL 83) off the coast of Namibia and estimated it could have at least 10 billion barrels of oil in place. Further appraisal is required, but initial results suggest that the discovery is good quality, which points to low oil viscosity, high pressures, high permeabilities and good porosity. Ultimately, these are some of the key factors which drive the economics of the discovery and how it compares to other oil projects around the world.



### Namibia: key oil & gas prospects

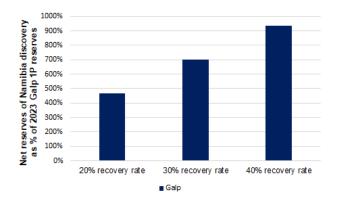
Source: S&P Global; Guinness Global Investors, April 2024

What does this mean for Galp? The company holds an 80% stake in the block where the discovery has been made, which covers an area of nearly 10,000 sq km in the Orange Basin off the Namibian coast. Assuming a 20% to 40% recovery rate of the resource estimated to be in place, net PEL 83 reserves would be around 4-9x the size of Galp's existing proven oil and gas reserves. The discovery is therefore transformational for the company, and whilst Galp has outperformed its European peers by around 35% this year, we believe there remains material upside if the discovery progresses to development as hoped.

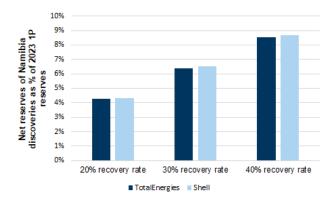
Other companies operating in the vicinity of Galp's discovery include TotalEnergies, Shell and Chevron, all also owned in the portfolio. Galp's PEL 83 block is located immediately north of Shell's PEL 39 block, where initial smaller discoveries were made, while TotalEnergies' Venus 1 discovery sits a little further to the west. The PEL 83 block fund has around double the announced hydrocarbons in place than Shell and TotalEnergies' discoveries, but they remain important additions even to the balance sheets of these super-major operators. According to Goldman Sachs, for example, the PEL 39 and Venus discoveries may add around 4-8% to Shell and TotalEnergies' proven reserves.



Net reserves of PEL83 discovery as % of Galp's 1P 2023 reserves under different recovery rate assumptions



Net reserves of Venus and PEL39 discoveries as % of Total and Shell 1P 2023 reserves under different recovery rate assumptions



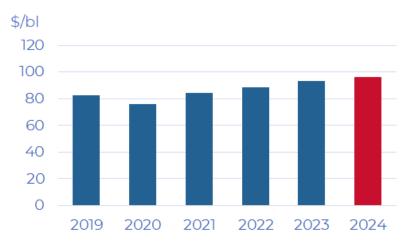
Source: Goldman Sachs, April 2024

It is expected that TotalEnergies' Venus discovery will be the first of these projects to receive a Final Investment Decision (FID), shaping how the development will proceed, at some point in 2026. The FID for Galp and Shell's discoveries will likely follow in 2026, with oil from the region starting to flow in the early 2030s. And if all goes to plan, it is possible that Namibia becomes a 1m+ b/day producing region, helping to offset net declines that likely emerge in certain OPEC and non-OPEC regions through a lack of current investment.

### Saudi Arabia: examining the latest hike in the country's fiscal breakeven oil price

During April, the International Monetary Fund increased its estimate of Saudi's fiscal breakeven oil price from \$80/bl to an estimated \$96/bl for 2024. The estimate for 2023 was also revised higher, from \$86/bl to \$93/bl. The fiscal breakeven price is defined as the oil price that is needed by a country to balance its fiscal budgets.

Saudi's fiscal breakeven oil price has been edging higher over the past four or five years, from around \$80/bl in 2019/20 to \$96/bl in 2024. The increase is partly driven by Saudi's production, which has decreased by around 0.7m b/day (8% of their total production) since 2019, in an effort to keep the market balanced through a period of post-COVID normalization.



### Saudi fiscal breakeven oil prices\* 2019-2024 (\$/bl)

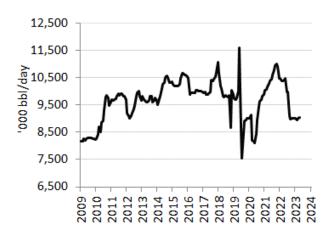
Source: IMF; Guinness Global Investors, April 2024

The increase is also brought on, however, by the expanding nature of Saudi's spending ambitions, which are designed to drive domestic growth and support non-oil & gas GDP. Saudi is half way through "Vision 2030", which requires hundreds of billions of \$US investment to create an economy that is less reliant on hydrocarbons. According to the Saudi Finance



Ministry, total government expenditure in 2024 is projected to be around \$335bn, which is c.12% higher than spending in 2023.

With the Brent oil price averaging around \$83/bl last year, versus a breakeven oil price for 2023 of around \$93/bl, Saudi ran a fiscal deficit that is largely being plugged by debt issuance. And Saudi's centrepiece city project, Neom, is planning a debut riyal bond sale later this year. The kingdom is also pushing to increase foreign direct investment (FDI), though FDI is currently running at around one third of the \$100bn that is being targeted by the end of the decade.



### Saudi oil production 2009-2024 (\$/bl)

Source: Bloomberg; Guinness Global Investors, April 2024

Public debt is forecast to reach around 26% of GDP in 2024, remaining on the low side compared to many western counterparts. Nevertheless, Saudi has enjoyed fiscal surpluses for most of the last 25 years, and we believe the country continues to target an annual position that is as close to fiscal neutrality as possible. And given that the oil & gas sector accounts for around 75% of fiscal revenues, this ultimately shapes Saudi's desire to maintain current oil prices as close to \$96/bl as possible.

That said, Saudi remain conscious of maintaining a price that does not over-stimulate non-OPEC supply, hence we think they are prepared to settle for something a little lower than \$96/bl at present, perhaps in the \$80-90/bl range.

Longer-term, we believe that Saudi seek a 'good' oil price, one that satisfies their fiscal needs. Overall, we reiterate two important criteria for Saudi:

- 1. Saudi is interested in the average price of oil that they get; they have a longer investment horizon than most other market participants.
- 2. Saudi wants to maintain a balance between global oil supply and demand to maintain a price that is acceptable to both producers and consumers.

In our energy equity valuation work, we continue to use a more conservative long-term price of \$80/bl, which, we estimate, currently drives upside in valuations of around 30-35%. Were we to use the Saudi breakeven oil price of \$96/bl in our valuation work, the estimated upside is 75-80%.



# PERFORMANCE

The main index of oil and gas equities, the MSCI World Energy Index (net return), increased by 0.3% in April, while the MSCI World Index (net return) fell by 3.7% in USD.

Within the portfolio, April's strongest performers included Galp, Shell, Petrochina, Sinopec and TotalEnergies while the weakest performers included Schlumberger, Valero, Enbridge, Conocophillips and Halliburton.

Guinness Global Energy Fun							
Performance (in USD) as at 30.0	4.2024					_	
			3 years	5 years	Launc	h of strateg	y* ann.
Cumulative returns	YTD	1 year	ann.	ann.		(31.12.98)	
Guinness Global Energy Fund	12.3%	16.9%	21.9%	6.1%		8.6%	
MSCI World Energy NR Index	10.1%	12.6%	23.6%	9.0%		6.6%	
Calendar year returns	2023	2022	2021	2020	2019	2018	2017
Guinness Global Energy Fund	2.6%	32.4%	44.5%	-34.7%	9.8%	-19.7%	-1.3%
MSCI World Energy NR Index	2.5%	46.0%	40.1%	-31.5%	11.4%	-15.8%	5.0%
	2016	2015	2014	2013	2012	2011	2010
Guinness Global Energy Fund	27.9%	-27.6%	-19.1%	24.4%	3.0%	-13.7%	15.3%
MSCI World Energy NR Index	26.6%	-22.8%	-11.6%	18.1%	1.9%	0.2%	11.9%
	2009	2008*	2007*	2006*	2005*	2004*	2003*
Guinness Global Energy Fund	61.8%	-48.2%	37.9%	10.0%	62.3%	41.0%	32.3%
MSCI World Energy NR Index	26.2%	-38.1%	29.8%	17.9%	28.7%	28.1%	25.9%
	2002*	2001*	2000*	1999*			
Guinness Global Energy Fund	6.7%	-4.1%	39.6%	22.5%			
MSCI World Energy NR Index	-6.4%	-7.2%	6.0%	22.0%			

Source: FE fundinfo, Guinness Global Investors and Bloomberg, bid to bid, 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 31.03.2024

			3 years	5 years		
Cumulative returns	YTD	1 year	ann.	ann.		
WS Guinness Global Energy Fund	16.5%	21.4%	27.2%	9.0%		
MSCI World Energy NR Index	12.1%	13.0%	27.8%	9.8%		
Calendar year returns		2023	2022	2021	2020	2019
WS Guinness Global Energy Fund		-3.2%	49.9%	45.7%	-35.7%	12.6%
MSCI World Energy NR Index		-3.3%	64.4%	41.4%	-33.6%	7.2%
	2018	2017	2016	2015	2013	2012
WS Guinness Global Energy Fund	-6.3%	-7.2%	65.2%	-29.6%	-26.6%	-4.7%
MSCI World Energy NR Index	-10.6%	-4.1%	51.0%	-18.3%	-6.1%	15.9%

### Source: FE fundinfo, bid to bid, 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 April there were no buys or sells of full positions, but the portfolio was actively rebalanced.

#### Sector Breakdown

The following table shows the asset allocation of the Guinness Global Energy Fund at April 30 2024.

Asset allocation as %NAV	Current	Change	Last year end	r Previous year ends								
	Apr-24		Dec-23	Dec-22	Dec-21	Dec-20	Dec-19	Dec-18	Dec-17	Dec-16	Dec-15	Dec-14
Oil & Gas	98.0%	<b>-0.9</b> %	98.9%	97.4%	96.9%	94.8%	98.3%	96.7%	98.4%	96.7%	95.1%	93.7%
Integrated	55.0%	0.2%	54.7%	54.7%	57.7%	56.3%	51.1%	46.4%	42.9%	46.4%	41.5%	37.3%
Exploration & Production	23.9%	0.6%	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%	0.1%	2.2%	1.9%	2.2%	1.5%	3.3%
Equipment & Services	8.7%	-1.3%	10.0%	9.0%	4.0%	4.6%	9.6%	8.6%	9.5%	8.6%	11.4%	13.4%
Storage & Transportation	4.5%	-0.5%	5.0%	4.8%	4.3%	4.4%	4.0%	0.0%	3.5%	0.0%	0.0%	0.0%
Refining & Marketing	6.0%	0.0%	6.0%	5.8%	7.2%	7.3%	3.8%	3.7%	3.7%	3.7%	4.2%	3.5%
Solar	0.1%	-0.1%	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%
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%
Cash	1.9%	1.1%	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 April 2024 was on a price to earnings (PE) ratio for 2024/2025 of 10.0x/9.6x versus the MSCI World Index at 18.8x/16.9x as set out in the following table:

As at 30 April 2024		PE	
	2023	2024E	2025E
Guinness Global Energy Fund	10.1x	10.0x	9.6x
MSCI World Index	18.8x	18.8x	16.9x
Fund Premium/(Discount)	-46%	-47%	-43%

Source: Bloomberg; Guinness Global Investors

### Portfolio holdings

Our integrated and similar stock exposure (c.55%) 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. At April 30 2024 the median P/E ratio of this group was 8.1x 2024 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.24%) 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, Pioneer 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 3.8% 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 nearly 9% 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 benefitting from a recovery in refining margins.



#### Portfolio at March 31 2024 (for compliance reasons disclosed one month in arrears)

Guinness Global Energy Fund (31 Mar	ch 2024)			P/E			EV/EBITD	A	F	k	
Stock	ISIN	% of NAV	2023	2024E	2025E	2023	2024E	2025E	2023	2024E	2025E
Integrated Oil & Gas											
Exxon Mobil Corp	US30231G1022	5.5%	12.2x	12.7x	12.0x	7.1x	6.5x	6.1x	2.3x	2.0x	1.9x
Chevron Corp	US1667641005	4.5%	12.5x	12.5x	10.7x	6.5x	6.0x	5.3x	1.8x	1.8x	1.7x
Shell PLC	GB00BP6MXD84	5.0%	8.2x	8.4x	8.2x	4.2x	4.2x	4.2x	1.2x	1.1x	1.0x
Total SA	FR0000120271	4.9%	7.1x	7.7x	7.5x	3.6x	4.3x	4.4x	1.4x	1.3x	1.2x
BP PLC	GB0007980591	4.5%	8.9x	7.7x	7.0x	3.9x	3.7x	3.7x	1.5x	1.4x	1.3x
Equinor ASA	NO0010096985	2.7%	6.6x	8.4x	8.0x	1.5x	1.9x	1.9x	1.6x	1.7x	1.6x
ENI SpA	IT0003132476	3.1%	5.9x	7.0x	7.0x	3.2x	3.6x	3.6x	0.9x	0.9x	0.8x
Repsol SA	ES0173516115	3.6%	5.0x	5.2x	5.6x	3.7x	3.1x	3.3x	0.8x	0.7x	0.6x
Galp Energia SGPS SA	PTGAL0AM0009	3.6%	9.7x	13.4x	13.1x	4.5x	5.0x	5.0x	2.6x	2.5x	2.3x
OMV AG	AT0000743059	2.8%	7.0x	6.8x	6.9x	3.2x	3.5x	3.5x	0.9x	0.8x	0.8x
OMV AG	A10000743035	40.1%		0.07	0.071	0.2/1	0.071	0.071	0.071	0.07	0.07
Integrated / Oil & Gas E&P - Canada											
Suncor Energy Inc	CA8672241079	3.8%	11.1x	9.6x	9.9x	5.5x	5.0x	4.9x	1.5x	1.4x	1.3x
Canadian Natural Resources Ltd	CA1363851017	4.0%	13.7x	13.4x	11.4x	7.3x	7.2x	6.6x	2.7x	2.7x	2.6x
Cenovus Energy Inc	CA15135U1093	3.4%	10.8x	11.2x	9.9x	5.4x	5.3x	4.9x	1.8x	1.7x	1.5x
Imperial Oil Ltd	CA4530384086	3.9%	11.1x	10.7x	10.4x	6.6x	6.7x	6.7x	2.2x	2.0x	1.9x
		15.2%	-								
Integrated Oil & Gas - Emerging market											
PetroChina Co Ltd	CNE1000003W8	2.2%	5.3x	6.5x	6.5x	4.1x	4.4x	4.4x	0.8x	0.7x	0.7x
		2.2%									
Oil & Gas E&P											
ConocoPhillips	US20825C1045	4.8%	14.4x	14.7x	12.9x	7.0x	6.4x	6.1x	3.0x	2.9x	2.7x
EOG Resources Inc	US26875P1012	3.4%	12.5x	11.1x	10.7x	6.6x	6.0x	5.8x	2.6x	2.4x	2.1x
Diamondback Energy Co	US25278X1090	4.4%	10.9x	11.1x	10.3x	6.8x	6.4x	3.9x	2.1x	1.9x	1.7x
Pioneer Natural Resources Co	US7237871071	3.9%	12.6x	13.0x	12.1x	7.2x	7.1x	6.6x	2.6x	2.5x	2.2x
Devon Energy Corp	US25179M1036	2.8%	. 8.8x	10.4x	9.4x	5.2x	5.4x	5.2x	2.6x	2.4x	2.1x
Internetional ERDa		19.3%									
International E&Ps Pharos Energy PLC	GB00B572ZV91	0.1%	n.m.	6.8x	4.5x	1.2x	1.3x	1.3x	0.5x	n.m.	n.m.
Pharos Energy PEC	000003722431	0.1%		0.07	-1.5A	1.27	1.37	1.3/	0.04		
Midstream		•									
Kinder Morgan Inc	US49456B1017	2.2%	17.6x	15.0x	14.4x	11.3x	9.2x	9.0x	1.3x	1.3x	1.3x
Enbridge Inc	CA29250N1050	2.5%	17.4x	16.2x	15.1x	13.8x	10.9x	10.1x	1.9x	1.9x	1.8x
Enonage me	0,120200111000	4.6%									
Equipment & Services											
Schlumberger Ltd	AN8068571086	3.3%	18.0x	15.4x	13.1x	9.3x	9.4x	8.4x	3.9x	3.4x	2.9x
Halliburton Co	US4062161017	3.4%	13.1x	11.6x	9.9x	7.8x	7.7x	7.0x	3.7x	3.2x	2.6x
Baker Hughes a GE Co	US05722G1004	1.9%	19.7x	16.3x	13.0x	9.4x	8.8x	7.6x	2.2x	2.1x	1.9x
Helix Energy Solutions Group Inc	US42330P1075	1.0%	31.0x	21.3x	12.2x	5.7x	6.5x	5.2x	1.1x	1.1x	1.0x
		9.5%	-								
Oil & Gas Refining & Marketing											
China Petroleum & Chemical Corp	CNE1000002Q2	1.4%	8.1x	7.1x	7.1x	5.7x	5.3x	5.1x	0.6x	0.6x	0.6x
Valero Energy Corp	US91913Y1001	4.9%	6.8x	10.1x	12.6x	4.5x	6.4x	7.6x	2.2x	2.0x	1.9x
		6.3%									
Research Portfolio		-									
Deltic Energy PLC	GB00BNTY2N01	0.13%	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.
		0.2%	18.0x	1.6x	1.6x	1.6x	1.7x	1.7x	0.9x	0.6x	0.5x
EnQuest PLC	GB00B635TG28										
	GB00B635TG28 GB00B95L0551	0.0%	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.
EnQuest PLC					n.m. n.m.	n.m. n.m.	n.m. n.m.	n.m. 10.5x			
EnQuest PLC Reabold Resources PLC	GB00B95L0551	0.0%	n.m.	n.m.					n.m.	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	2024E
										IEA
World Demand	95.3	96.4	98.2	99.5	100.7	91.8	97.5	99.6	101.8	103.2
Non-OPEC supply (inc NGLs)	62.1	61.5	62.5	65.0	67.0	64.4	64.9	66.7	69.1	70.4
OPEC NGLs	5.2	5.3	5.4	5.5	5.3	5.2	5.2	5.4	5.5	5.5
Non-OPEC supply plus OPEC NGLs	67.3	66.8	67.9	70.5	72.3	69.6	70.1	72.1	74.6	75.9
Call on OPEC (crude oil)	28.0	29.6	30.3	29.0	28.4	22.2	27.4	27.5	27.2	27.3
Congo supply adjustment	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
Eq Guinea supply adjustment	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	26.8	26.9	26.6	26.7

Source: Bloomberg; IEA; Guinness Global Investors, May 2024

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 2021 and 2023 by over 10m b/day, leaving overall consumption in 2023 over 1m 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 their 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. Late in 2023, Angola announced its intention to leave OPEC.



				Current vs	Current vs
('000 b/day)	31-Dec-19	29-Feb-24	31-Mar-24	Dec 2019	last month
Saudi	9,730	9,010	9,040	-690	30
Iran	2,080	3,140	3,180	1,100	40
Iraq	4,610	4,200	4,170	-440	-30
UAE	3,040	3,140	3,130	90	-10
Kuwait	2,710	2,430	2,430	-280	0
Nigeria	1,820	1,520	1,470	-350	-50
Venezuela	730	850	870	140	20
Libya	1,110	1,140	1,130	20	-10
Algeria	1,010	910	910	-100	0
OPEC-9	26,840	26,340	26,330	-510	-10

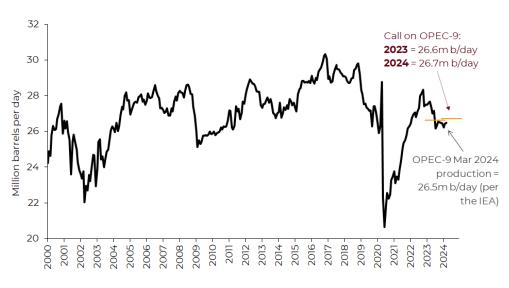
### **OPEC-9 oil production to March 2024**

Source: Bloomberg; Guinness Global Investors

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 agreement around their response to demand from the spread of the virus, precipitating a fall-out 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 – 2024

Source: IEA Oil Market Report (April 2024 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 shorter term, the COVID-19 and Russia/Ukraine crises have created particularly challenging conditions, adding to oil price volatility. Longer-term, we believe that Saudi seek a 'good' oil price, one that satisfies their fiscal needs. Overall, we reiterate two important criteria for Saudi:

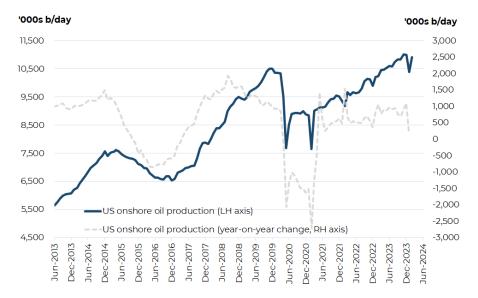
- 3. Saudi is interested in the average price of oil that they get; they have a longer investment horizon than most other market participants.
- 4. Saudi wants to maintain a balance between global oil supply and demand to maintain a price that is acceptable to both producers and consumers.

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 1.6% p.a. from 2009-2023.

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 between 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, May 2024

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. Our assessment is 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 allow growth into the mid-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, despite lower oil prices, with projects that were sanctioned before 2014 (when oil was \$100/bl+) continuing to come onstream. However, with a lack of major project additions post 2020, new supply growth has proved to be on the slow side.

### Future demand

The IEA estimate that 2024 oil demand will rise by around 1.3m b/day to 103.2m b/day, around 2.5m b/day ahead of the 2019 pre-COVID peak.

Post the COVID demand recovery and assuming typical economic growth, we expect the world to settle 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, the most important component of this growth, although signs are emerging that India will also grow rapidly.

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 2.8%, and this will still be a stimulant of further demand growth. If oil prices were in a higher range (say around \$110/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 14m in 2023, up from 10m in 2022 and 6m in 2021. We expect to see strong EV sales growth again in 2024, up to over 16m, around 20% of total global sales. Even applying an aggressive growth rate to EV sales, we see EVs comprising only around 3-4% of the global car fleet by the end of 2024. 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 2024 versus recent history.

Oil price																		Est
12 month MAV	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
WTI	72	100	62	80	95	94	98	93	49	43	51	65	57	39	68	94	78	79
Brent	73	99	63	80	111	112	109	99	54	45	55	72	64	43	71	99	83	83
Brent/WTI (12m MAV)	73	99	62	80	103	103	103	96	51	44	53	68	61	41	70	97	80	81
Brent/WTI y-on-y change	-3%	37%	-37%	28%	29%	0%	0%	-7%	-47%	-13%	19%	29%	-11%	-32%	68%	39%	-17%	1%
Brent/WTI (5yr MAV)	59	72	75	78	83	89	90	97	91	80	70	63	55	53	58	67	70	74

#### Average WTI & Brent yearly prices, and changes

Source: Guinness Global Investors estimates, Bloomberg, January 2024

We believe that Saudi'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 2.8% of 2024 global GDP, well under the average of the 1970 – 2021 period (3.4%).

# 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	2023E	2024E
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	23.3	21.8	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	34.0	31.8
Industrial	19.7	20.3	20.9	20.6	21.1	21.6	23.0	23.1	22.3	22.5	23.0	23.1	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	6.0	6.5
LNG exports	-	-	-	0.1	1.0	2.6	2.8	4.8	6.4	9.7	11.8	13.0	13.7
Pipeline/plant/other	6.1	6.7	6.3	6.5	6.4	6.5	7.0	7.8	7.7	7.8	8.8	9.0	9.1
Total demand	71.7	73.6	74.8	77.8	80.1	80.9	89.8	95.2	95.0	98.3	105.7	106.9	107.4
Demand growth	3.1	1.9	1.2	3.0	2.3	0.8	8.9	5.4	- 0.2	3.3	7.4	1.2	0.5

Source: EIA; GS; Guinness estimates, April 2024

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 2023 (including Mexican and LNG exports) was around 106.9 Bcf/day, up by 1.2 Bcf/day versus 2022 and 7 Bcf/day (7%) higher than the 5-year average. The biggest contributors to the growth in demand in 2023 were LNG exports and power generation.

We expect a more muted US demand growth picture in 2024 of 0.5 Bcf/day versus average growth of nearly 4 Bcf/day between 2021 and 2023. Growth is expected to be driven by higher LNG exports and a strong US economy lifting residential, commercial and industrial demand, offset by declining power generation demand (-2.2 Bcf/day). Beyond 2024, 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 6-7 Bcf/day by the end of 2025 and a further 5-6 Bcf/day in 2026-2028, bringing total export capacity to around 25 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 total supply.

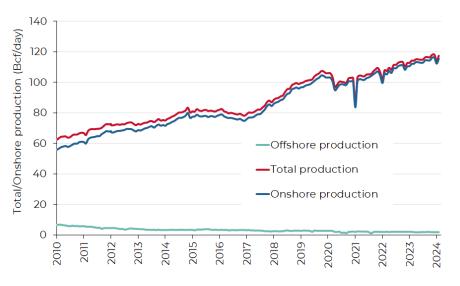


#### US natural gas supply

(Supply)/demand balance	- 0.2	1.7	- 1.5	- 1.8	0.8	1.2	•	- 1.0	- 0.5	1.4	2.7	0.8	0.5
Supply growth	2.4	•	4.4	3.3	- 0.3	0.4	10.1	6.4	- 0.7	1.4	6.1	3.1	0.8
Total supply	71.9	71.9	76.3	79.6	79.3	79.7	89.8	96.2	95.5	96.9	103.0	106.1	106.9
LNG imports & other	0.8	0.6	0.5	0.5	0.4	0.3	0.1	0.1	÷		0.1	5	2
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	5.2
US (onshore & offshore)	65.7	66.3	70.9	74.2	73.4	73.6	84.3	91.4	91.1	91.8	97.3	100.9	101.7
US natural gas supply:													
Bcf/day	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023E	2024

#### Source: EIA; GS; Guinness estimates, May 2024

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 around 110 at the end of April 2024. However, offsetting the fall, the average productivity per rig has risen dramatically as producers focus their attention on the most prolific shale basins, whilst associated gas from oil production has grown handsomely.



#### US natural gross gas production 2010 – 2023 (Lower 48 States)

#### Source: EIA 914 data (May 2024 data)

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 2024 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 (down 30% to 110 rigs at end April 2024) and lower investment. A 10% reduction in rig count in the Permian also has a knock-on effect of reducing associated gas supply in 2024 while Haynesville production in 2024 will be down versus 2023.

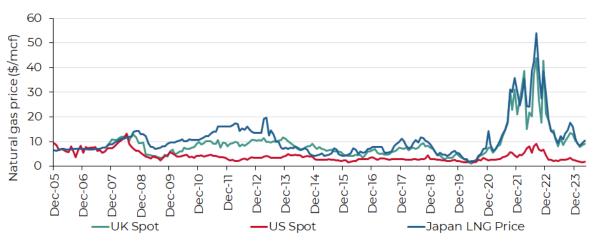
#### Outlook for US LNG exports – global gas arbitrage

We expect the LNG market is going 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 \$12/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 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 \$10-12/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 \$10-12/mcf is well down on the highs seen in 2022, but would leave the market at a c.50% higher price point than that seen in the few years prior to COVID and the Russian invasion of Ukraine.

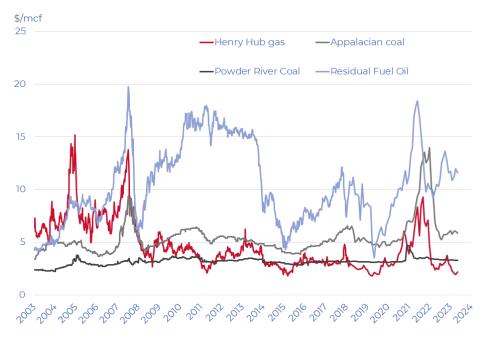


#### International gas prices to April 2024

### 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 (May 2024)



Source: Bloomberg; Guinness Global Investors (May 2024)

### **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 2024, we expect a Henry Hub price at around this level.





Oil price (WTI \$) since 1989

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

- 1990-1998: broadly characterized by decline. The oil price steadily weakened 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 90's that increased supply. OPEC responded rapidly to this during 2001 and reintroduced production cuts that stabilized the market relatively quickly by the end of 2001.

Then, in late 2002 early 2003, 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 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



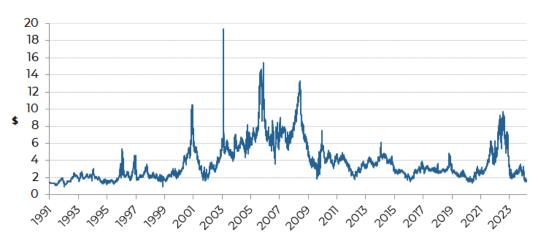
Source: Bloomberg, May 2024

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 re-set the investment cycle. Oil prices found a bottom in 2016 (as a result of OPEC and non-OPEC partners cutting production again), but its 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 rang 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, May 2024

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. Excepting 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 recovering since 2009 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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