







February 2013

Commentary and Review by portfolio manager Tim Guinness



View Archive Briefs

REPORT HIGHLIGHTS

FUND NEWS

• Fund size \$94 million at end of January

OIL

• WTI/Brent up strongly at \$97/\$117

WTI \$92 and Brent \$112 at start of month; ended at \$97 and \$117. Positive broad market sentiment at the start of 2013 spills into the oil market, supported by strong demand data

NATURAL GAS

US gas price down slightly over the month

Henry Hub spot traded down 11c to end January at \$3.33 (up from April 2012 low of \$1.84)

EQUITIES

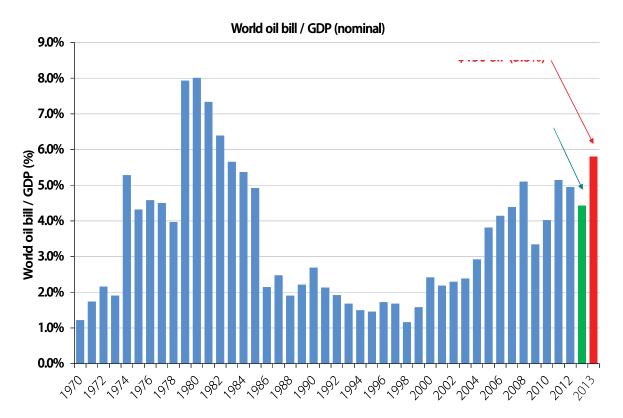
• Fund up 7.73% in January; energy outperforming the broad market Fund (class B) outperforms the MSCI World Energy Index by 1.53% (all in US dollar terms)



- January in Review
- Manager's Comments
- Performance: Guinness Atkinson Global Energy Fund
- Portfolio: Guinness Atkinson Global Energy Fund
- Outlook
- Appendix: Oil and Gas Markets, Historical Context

Chart of the Month:

We think the world today can afford \$100 oil, but not yet \$150 oil. If oil was to average \$105 in 2013, the world oil bill / Gross Domestic Product (GDP) is just under 4.5% (oil efficiency gains have helped since the 1970s/80s). We think 4.5% is sustainable. \$150 today is probably unsustainable.



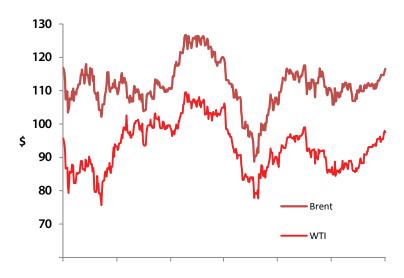
Source: Bloomberg LP; Guinness Asset Management (Feb 2013)



1. January 2013 Review

Oil market

Figure 1: Oil price (WTI and Brent \$/barrel) 18 months July 31, 2011 to January 31, 2013



Source: Bloomberg

The West Texas Intermediate (WTI) oil price opened January at \$91.82 and rose steadily through the month to a high on January 30 of \$97.94. The price fell slightly on January 31 to close the month at \$97.49. WTI averaged \$94.12 and \$95.04 in 2012 and 2011.

Brent also rose in January, from \$111.94 to \$116.54. The gap between the WTI and Brent benchmark oil prices that started at the beginning of 2011 contracted slightly from \$20 to \$19 over the month but remains high. Despite some pipeline additions over the past few months, notably the Seaway Gulf Coast-Cushing pipeline reversal which started flowing during May 2012 and was expanded in January 2013, there are not sufficient takeaway pipelines to deal with growing Permian, Bakken and other in-land US oil supply growth, though more capacity is coming this year.

Factors which strengthened the WTI and Brent oil prices in January:

Positive market sentiment

Positive sentiment regarding the temporary resolution of US fiscal cliff negotiations and prospects for global growth in 2013 translated into a strong start to the year for a number of asset classes, oil included. The oil price (Brent) rose by 4.1% over the month, in comparison to broader commodities (DJ-UBS commodities) rising 2.4% and world equities (MXWO) up 5.1%.

Strong China demand

Trade data released in January suggested that China oil demand reached an all-time high figure of 10.5million (m) barrels (b)/day. Oil demand in 2012 averaged 9.6m b/day, and if the current demand growth is sustained (allowing for seasonal factors), it implies that the IEA's forecast for 10.1m b/day may be conservative.

· North African unrest

A major terrorist attack on the Amenas natural gas plant in Algeria on January 16 demonstrated the vulnerability of oil and gas installations in the country, fueling concern that Algerian oil supplies may not be secure. Algeria produces around 1.8m b/day (2% of world supply), of which 1.5m



b/day is exported. There was also new unrest in Libya, with the eastern Zueitana oil terminal being closed throughout January due to local protests. Initial indicators show Libyan production down sharply in January (in the order of 0.4m b/day), but we wait to see if these are verified.

NYMEX non-commercial futures rising

NYMEX non-commercial futures rose by 70,000 contracts during January to close the months at net 268,000 contracts long. The net long position has only been higher on one occasion, in March 2008. Typically an unwinding of a high net futures position coincides with a decline in the oil price.

Factors which weakened the WTI oil price in January:

US production growth forecasts

US grew liquids output from 8.1m b/day to 9.1m b/day in 2012, and the IEA is projecting growth to 9.8m b/day in 2013. This growth of 0.7m b/day represents the majority of total non-OPEC supply growth in 2013, estimated at 1.0m b/day. The sharp rise in production from shale oil has been the main driver behind growth in North American output, as new techniques, such as fracking and horizontal drilling, are used to extract oil from areas such as the Bakken and the Eagleford.

Strong production in Iraq

Iraq production is at 3.2m b/day, up 0.45m b/day (16%) versus a year ago. This has helped to offset the decline in Iranian production.

Speculative and investment flows

The New York Mercantile Exchange (NYMEX) net non-commercial crude oil futures open position rose sharply during January. It started the month at 198,000 contracts long, and increased to finish the month at 268,000 contracts. The net long position has only been higher on one occasion, in March 2008. Typically an unwinding of a high net futures position coincides with a decline in the oil price.

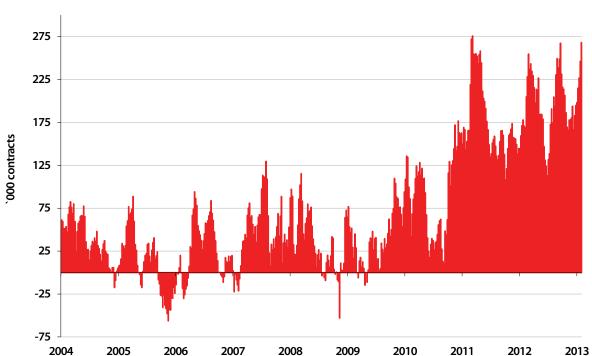


Figure 2: NYMEX Non-commercial net futures contracts: WTI January 2004 – January 2013

Source: Bloomberg/Nymex (January 2013)



OECD stocks

Organization for Economic Co-Operation and Development (OECD) estimated total crude and product stocks for December 2012 (published in the January 2013 International Energy Agency (IEA) Oil Market Report) declined by 18 million barrels from 2,793 million barrels, giving a total stock of 2,675 million barrels. Over the preceding five years, the average inventory draw in December was 40 million barrels.

After sitting for two years above the historic levels of OECD inventories, a noticeable shift downward occurred in 2011 in absolute inventory levels versus the 1998-2009 spread, as the graph below shows. The tightening happened even as OPEC-12 production increased to make up for lost Libyan and then Iranian production, and the IEA released 60 million barrels of emergency reserve oil. In 2012, inventories were generally looser than 2011, illustrating Saudi's attempts to keep production high and bring the Brent oil price back towards \$100. Despite this, figures for recent months are well-behaved, falling within the 2002-2011 range.

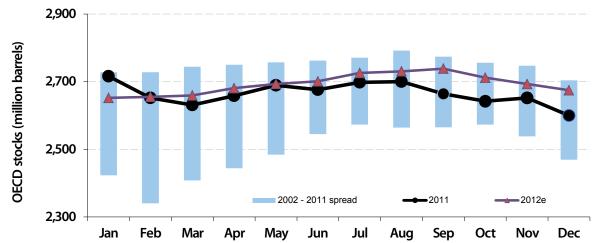


Figure 3: OECD total product and crude inventories, monthly, 1998 to 2012

Source: IEA Oil Market Report (January 2013); Guinness Asset Management estimates



2. Natural Gas Market

The US spot natural gas price (Henry Hub) opened January at \$3.44 per Mcf (1000 cubic feet) and, after falling to \$3.08 mid-month then rallying to \$3.65, closed the month at \$3.33. The spot gas price hit a low of \$1.84 in April 2012 and averaged \$2.75 last year, well down on the 2010 and 2011 averages of \$4.38 and \$4.00 and significantly below the average in each of the previous 5 years (2005-2009).

The 12-month gas strip price (a simple average of settlement prices for the next 12 months' futures prices) rose slightly over the month from \$3.60 to \$3.66. The strip price averaged \$3.28 last year, having averaged \$4.35 in 2011, \$4.86 in 2010 and \$5.25 in 2009.

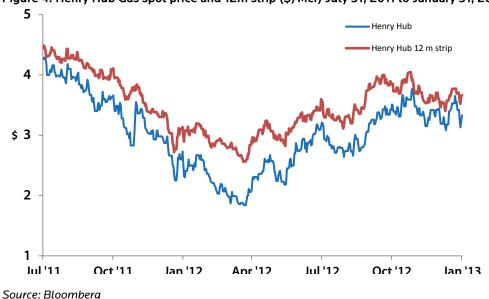


Figure 4: Henry Hub Gas spot price and 12m strip (\$/Mcf) July 31, 2011 to January 31, 2013

Factors which weakened the US gas price in January included:

US production data

The November data (latest available) from the Energy Information Agency indicated that total US natural gas production was up 0.4 Bcf/day (0.6%) month-on-month. The rise was led by growth in the Marcellus, and production rebounds in the Gulf of Mexico, following Hurricane Isaac, and Wyoming. Growth in these areas was partially offset by declines in Louisiana. Onshore production increased by 0.4% month on month.

Warm weather in January

With overall winter weather in the US being relatively mild so far, gas consumption has been lower than the seasonal norm. At this time of year, heating demand is a dominant component of overall gas demand, therefore weather can have a large effect. The weather for January 2013 was 10% warmer than normal (following a December that was 15% warmer than normal).

Storage levels

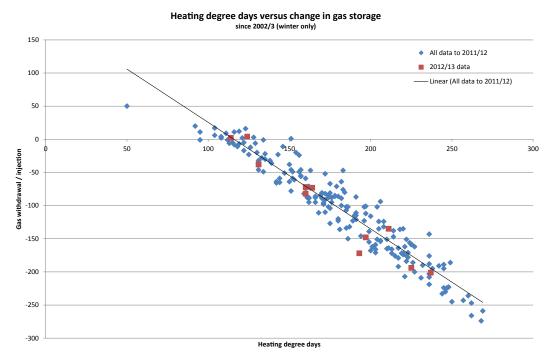
After weak heating demand in December caused by the very warm weather, January saw a reduction in surplus gas in storage compared with the seasonal average. Gas in storage at the end of January was nearly 10% (269 Bcf) over the 5 year average, ending at 2,802 bcf (compared with 361 Bcf over the 5 year average, at the end of December 2012).



Factors which strengthened the US gas price in January included:

Above average withdrawals of gas from storage (weather adjusted)

After adjusting for the warmer-than-normal January, natural gas withdrawals from storage were relatively high, suggesting that the market was undersupplied with gas (bullish). The graph below shows the historical pattern of winter gas withdrawals since 2002, with colder weather (which corresponds to higher heating degree days) leading to higher withdrawals. The weekly data points for January, circled, indicate that withdrawals during the month were consistently greater than expected, when adjusted for weather. We are watching this data set closely to see if the bullish pattern persists.



Source: Bloomberg

Low gas drilling rig count

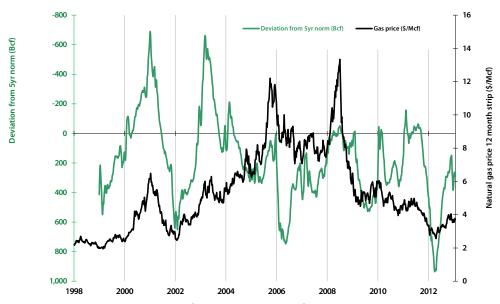
The US natural gas-directed rig count (reported by Baker Hughes) rose slightly from 431 to 434 rigs during January, but since the end of September 2011, has declined from 923 rigs (i.e. by 53%). The falling rig count reflects a suspension of activity in areas that are no longer economic to drill, given the depressed gas price. Of course there is a likely to be a reasonable lead time between a fall in the rig count and a fall in production, but the cumulative effects of the slide which started over a year ago can only grow for as long as the rig count is low.

Natural gas storage

Swings in the supply/demand balance for US natural gas should, in theory, show up in movements in gas storage data. The following graph shows the 12 month gas strip price (in black) against the amount of gas in storage expressed as the deviation from the 5 year storage average (in green). Swings in storage have frequently been a leading indicator to movements in the gas strip price.



Figure 5: Deviation from 5yr gas storage norm vs. gas price 12 month strip (H. Hub \$/Mcf)



Source: Bloomberg, EIA (February 2013)

The surplus of gas in the second half of 2008 and 2009, a result of oversupply during the recession, can be seen in gas storage data, with the inflection point in storage occurring in July 2008 and the storage line moving from negative (i.e. deficit) to positive (i.e. surplus) territory over this 18 month period. This coincided with the gas strip price falling from a peak of over \$13 in July to below \$5. An unusually cold 2009/10 winter boosted demand and pushed the gas storage level back into balance, only for oversupply to persist again for much of the rest of 2010. A cold 2010/11 winter followed by a hot 2011 summer tightened storage again, with storage levels staying around the 5 year average for much of this period.

The last 12 months have been characterized by initial oversupply then undersupply since March 2012. The very mild 2011/12 winter (in combination with rising production) caused gas storage levels to balloon to record levels, driving prices down to their lowest levels for a decade. Since then, coal-to-gas switching and shut ins and the sharp rig count drop have worked in the other direction, seeing gas prices rising from their sub \$2 lows in April to around \$3.50 now.

We watch movements in gas storage closely, as it is likely to be a coincident indicator, weather adjusted, for the start of a sustained gas price recovery.

3. Manager's Comments

Here are three big energy questions. First, is energy demand still rising faster than supply, or are we suddenly awash with hydrocarbons, as the media convey? Second, is the energy sector independent from the commodity supercyle? Third, what then for energy equities? With many on single digit PEs, and the world now coming to terms with \$100 oil, their upside is exciting and often overlooked.

Oil and the commodity supercycle

US onshore oil production grew strongly in 2012, up 1.1 million to 7 million barrels/day. But other non-OPEC oil production declined by c0.5m b/day, driven by falls in Syria, Yemen, Sudan and the North Sea.



OPEC production averaged 28.8m b/day, up 1.8m versus 2011. The key producers (Saudi, United Arab Emirates (UAE) and Kuwait) ramped up production from 14.9m to 15.6m b/day (by September) then reduced it to 15m b/day at year end.

And yet, the oil price was firmer than we expected (Brent averaged \$111.6), and OECD inventories did not rise significantly. At year end they were comfortably within the 10 year range.

What lay behind this? Continuing robust emerging economy demand, which grew by at least 1.4m b/day in 2012. This is the yin to the growing shale oil production yang.

We've said for a while that OPEC's three key producers would manage whatever the US, China or Eurozone economies threw at them. Perhaps we were over cautious. We saw oil averaging \$95 (blended Brent/WTI), whereas we now feel it will average \$105 from hereon. Inflation is doing its stuff. Global GDP is now cerca (c) \$74 trillion. We will likely consume 90.8m b/day of oil in 2013. At \$105 average price that spend is \$34.8 billion, or 4.7% of 2013 global GDP (assuming growth and inflation add 6% to GDP). History shows that when prices take oil spend to 7-8% pa, they never last; and that 2% of GDP is cheap. It's exceeded 4% in 15 of the last 40 years. It won't topple the world economy. For OPEC it's a price that looks fair; they will strive to achieve it. And it will likely rise from here gradually at something like inflation or better.

Our more positive view is influenced by the recovery in the US economy, which we believe is real and will not be derailed by February's fiscal cliff mark 2. China will rebuild momentum and surprise doubting commentators by successfully graduating from infrastructure investment to consumption of cars, consumer goods and services. Yes, the growth rate will slow to maybe 5% or 3% per annum (pa), but this will be a period of great prosperity and growth. Japan grew at 8.2% pa from 1950-70 and then grew at 3.3% pa from 1970-90. China today is at the equivalent of Japan in 1965.

The two remaining black clouds are the OECD governments' over indebtedness and Europe. But even here we see green shoots. Reality is dawning among the political classes. Bullets must and are going to be bitten. European recovery may not come until 2015, but remember that the current slump in car sales, for example, has the silver lining of a business cycle recovery in two years' time. Nor do property slumps last forever. We may need interest rates to get back to normal before they do, however. Some politicians don't get it – but one of the biggest depressants hanging over the economy is the fear of what may happen when interest rates are allowed to rise. The answer, of course, is that some businesses may be tipped over the edge, but most businesses have been cutting their cloth for this day and will get through. And we need the creative destruction of those that fail to happen.

Back to the specifics of oil, and we think commentators are over-focused on new US supply. This is just like the development of the Gulf of Mexico, North Sea and Alaska in the 1980s after the 1970s price hike. With one huge difference: back then oil demand from the OECD economies had exploded from 1950-73. They were at the end of a 25 year journey adopting the motor vehicle; impetus was fading and demand then naturally corrected as prices jumped. Now it's different. China's demand for oil per capita has not even reached that of the OECD in 1950. There are two decades of unrelenting oil demand growth to come while China's vehicle fleet moves from 100 million now to 400 million by 2030, with India and others following behind.

Another difference is that OPEC and Russia are much happier to work together now than then, and between them they control 53% of the market!



Looking ten years forward to 2022, we see 12 to 15m b/day of global demand growth (emerging economies 12 – 15m b/day less 2m b/day OECD decline) and muted supply growth (perhaps US 2m b/day, Iraq 2m b/day, Africa 2m b/day, Brazil 1.75m b/day; Canada 1.25m b/day, Caspian 1m b/day, less mature basin declines). If you doubt us, remember that Canada, for example, only grew its oil production by 0.9m b/day from 2002 to 2012, despite all the effort to develop its oil sands.

Natural Gas

The US has seen its very capitalist free-wheeling competitive industry enjoy (!) a classic bust following the 2007 boom. Gas prices peaked then at over \$15/mcf and troughed in March 2012 at under \$2/mcf.

For seven years onshore gas production has grown from c.45 bcf/day to c.68 bcf/day following the technological discovery of how to drill horizontally and frack in a way that released gas from its reservoirs. This growth equates simplistically to 23 bcf/day, or c.3–4 bcf/day of growth per year. This was absorbed for the first 5 years, but eventually, in late 2011, production growth overwhelmed demand (helped too by a very warm winter). Since then the industry has reacted in classic fashion: the gas rig count has been halved and coal plants started switching to gas (now the cheapest fuel) as gas moved below c\$3.50/mcf. We know this will rebalance the market. It's how markets work. The only issue is when. So far, two thirds of the massive overhang has been worked off in about nine months.

Our hunch is that in three years the gas price will be moving from 20% of the oil price (\$3.50 gas is like \$21/barrel oil) to 33% (if oil is \$110 that is \$36/barrel or \$6.00 gas). That is 71% up on the \$3.50 today and 118% up on 2012 average price of gas of \$2.75.

Outside the US, gas prices remained very firm. So firm, in fact, that at the end of the year the UK National balancing point price was over \$10/mcf, and prices in Japan were over \$16/mcf – circa three and five times that in the US. And, surprise surprise, the driver is those pesky emerging economies again. China has grown its consumption of gas by 17% pa since 2000 and has now reached 10 bcf/day (one seventh the consumption of the US). Remember, by the way, that China consumes 3.6X the amount of coal the US does. It shows every sign of growing its gas demand 4X in the next ten years. By 2022 we expect demand to be 40 bcf/day. Globally, demand, now 315 bcf/day, will rise to 450 bcf/day by the same date if the last ten years are repeated (4.4% pa growth in the developing world; 0.8% pa in the developed world).

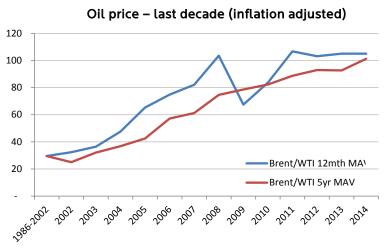
Energy equities

What of energy equities? It's not difficult to work out that, on single digit PE ratios, they are likely to perform strongly in this scenario. Of course we may be wrong, but sometimes we are right, too.

March 2011 to June 2012 saw energy equities significantly underperform the broad market; investors believed the commodity supercycle was over. **But energy equities have been outperforming again since June 2012** – and this is logical to us. The likely evolution of the commodity cycle is that demand for infrastructure commodities – copper, aluminium, iron ore – may well level off and prices weaken as capacity moves from tight to loose. But, typically, the next stage is that commodities that are in growing demand from consumers remain firm and even strengthen – commodities like energy and agricultural goods.



Our portfolio, based on consensus estimates, is on a 2012 PE ratio of 10.5x (at January 31), well below the broad market's 15.2x. The discount gives a potential upside versus the broad market of 45% when energy PEs close the gap. History indicates they'll do so when the current oil price and long-run market expectations come together. \$100 oil is around where that could happen.



Oil Price (inflation adjusted)										Fore	cast			
12 month MAV	1986- 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
WTI	30	33	38	49	66	75	82	104	68	84	99	94	100	100
Brent	30	32	35	46	64	75	82	103	67	84	115	112	110	110
Brent/WTI 12mth MAV	30	32	36	48	65	75	82	103	67	84	107	103	105	105
Brent/WTI 5yr MAV	30	25	32	37	42	57	61	75	79	82	89	93	93	101

Source: Bloomberg (actuals); Guinness Atkinson Asset Management (forecasts)

The super-majors are not expensive, and non-majors are good value thanks to their previous underperformance. All this assumes the oil price stabilizes around the 5 year moving average price of \$100, and the US gas price in due course recovers. We haven't touched on gas here, but suffice it to say this is what we believe is increasingly likely to occur.

The super-majors, to our way of thinking, are not expensive, and non-majors have become increasingly good value thanks to their underperformance of the broad market during 2011 and H1 2012. All this of course assumes the oil price stabilizes around the 5 year moving average price of \$100 (blended Brent/WTI) and the gas price in due course recovers. Suffice it to say, this is, in our view, what is increasingly likely to occur.

Energy equities are one of the better inflation hedges. If we see dollar inflation of 30/50% over the next decade, it will be surprising if oil and gas prices do not rise by a comparable percentage.



4. Performance – Guinness Atkinson Global Energy Fund

The main index of oil and gas equities, the MSCI World Energy Index, was up by 6.20% in January. The S&P 500 was up by 5.18% over the same period. The Fund was up by 7.53% over this period, outperforming the MSCI World Energy Index by 1.33% (all in US dollar terms).

Within the Fund, January's stronger performers were Valero, Transocean, Hess, JA Solar and Chesapeake. Poorer performers were JKX, Bill Barrett, QEP, Penn Virginia and Gazprom.

Performance as of December 31, 2012

Inception date 6/30/04	Full Year 2009	Full Year 2010	Full Year 2011	Full Year 2012	1 year (annualized)	Last 2 years (annualized)	Last 5 years (annualized)	Inception to end 2012 (annualized)	Since Inception (annualized)
Global Energy Fund	63.27%	16.63%	-13.16%	3.45%	3.43%	-5.21%	-2.53%	12.19%	12.19%
MSCI World Energy Index	26.98%	12.73%	0.71%	2.54%	2.52%	1.62%	-1.63%	9.51%	9.51%
S&P 500 Index	26.47%	15.06%	2.09%	15.99%	15.89%	8.80%	1.66%	4.81%	4.81%

Performance as of January 31, 2013

Inception date 6/30/04	Full Year 2009	Full Year 2010	Full Year 2011	Full Year 2012	1 year (annualized)	Last 2 years (annualized)	Last 5 years (annualized)	Inception to end 2012 (annualized)	Since Inception (annualized)
Global Energy Fund	63.27%	16.63%	-13.16%	3.45%	5.28%	-5.05%	0.92%	12.19%	13.01%
MSCI World Energy Index	26.98%	12.73%	0.71%	2.54%	6.38%	1.58%	2.05%	9.51%	10.18%
S&P 500 Index	26.47%	15.06%	2.09%	15.99%	16.71%	10.28%	3.97%	4.81%	5.38%

Source: Bloomberg

Gross expense ratio: 1.27%

Performance data quoted represent past performance and does not guarantee future results. The investment return and principal value of an investment will fluctuate so that an investor's shares, when redeemed, may be worth more or less than their original cost. Current performance of the Fund may be lower or higher than the performance quoted. For most recent month-end and quarter-end performance, visit www.gafunds.com/performance.asp or call (800) 915-6566.

The Fund imposes a 2% redemption fee on shares held for less than 30 days. Performance data does not reflect the redemption fee and, if deducted, the fee would reduce the performance noted.



5. Portfolio - Guinness Atkinson Global Energy Fund

Buys/Sells

There were no buys or sells in January.

Sector Breakdown

The following table shows the asset allocation of the Fund at January 31, 2013.

(%)	31 Dec 2007	31 Dec 2008	31 Dec 2009	31 Dec 2010	31 Dec 2011	31 Dec 2012	31 Jan 2013	Change YTD
Oil & Gas	103.5	96.4	96.1	93.2	98.5	98.6	97.2	-1.4
Integrated	66.2	53.7	47.2	41.2	39.6	39.1	38.8	-0.3
Exploration and production	25.8	28.7	32.0	36.9	41.5	41.6	40.3	-1.3
Drilling	8.1	5.2	8.4	6.3	6.0	7.4	7.8	0.4
Equipment and services	3.4	6.4	5.4	5.3	6.6	7.1	6.9	-0.2
Refining and marketing	0.0	2.4	3.1	3.5	4.8	3.4	3.4	0.0
Coal and consumables	2.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.0	3.2	1.2	1.2	1.5	0.3
Construction and engineering	0.0	0.4	0.4	0.4	0.4	0.6	0.6	0.0
Cash	-6.0	0.9	3.5	3.2	-0.1	-0.4	0.7	1.1
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0

Source: Guinness Atkinson Asset Management

Basis: Global Industry Classification Standard (GICS)

Guinness Atkinson Global Energy Fund Portfolio

The Fund at **January 31, 2013** was on an average price to earnings ratio (PE) versus the S&P 500 Index at 1,498 as set out in the table. (Based on S&P 500 'operating' earnings per share estimates of \$49.5 for 2008, \$56.9 for 2009, \$83.8 for 2010, \$96.4 for 2011 and \$98.3 for 2012). This is shown in the following table:

	2007	2008	2009	2010	2011	2012
Fund PER	8.8	7.7	14.9	9.9	9.3	10.5
S&P 500 PER	18.2	30.3	26.3	17.9	15.5	15.2
Premium (+) / Discount (-)	-52%	-75%	-43%	-45%	-40%	-31%
Average oil price (WTI \$)	\$72.2/bbl	\$99.9/bbl	\$61.9/bbl	\$79.5/bbl	\$95/bbl	\$94/bbl

Source: Standard and Poor's; Guinness Atkinson Asset Management Inc.



Portfolio Holdings

Our integrated and similar stock exposure (c.39%) is comprised of a mix of mid cap, mid/large cap and large cap stocks. Our five large caps are Exxon, BP, Chevron, Royal Dutch Shell, and Total. Mid/large and mid-caps are ENI, StatoilHydro, Hess and OMV. At the end of December the median PE ratio of this group was 8.7x 2012 earnings. We have one Canadian integrated holding, Suncor, which merged in 2009 with PetroCanada. The company has significant exposure to oil sands and stands on an attractive PE of 10.5x 2012 earnings, given the company's good growth prospects.

Our exploration and production exposure (c.39%) gives 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 are all largely in the US (Newfield, Devon, Chesapeake, Carrizo, Stone, Penn Virginia, Ultra, QEP and Bill Barrett) and three more (ConocoPhillips, Apache and Noble) which have significant international production. One of the key metrics behind a number of the E&P stocks held is low enterprise value / proven reserves. All of the E&P stocks held also provide exposure to North American natural gas and include two of the industry leaders (Devon and Chesapeake). In PE terms, the group divides roughly into two: (i) ConocoPhillips, Apache, Chesapeake, Devon, Newfield, Ultra, Stone and Bill Barrett all with quite low PEs (5.8x – 9.5x 2011 earnings) and (ii) Noble, Carrizo, Penn Virginia and QEP with higher PE ratios (18.0x – 20.9x 2011 earnings). However, all look reasonably attractive on EV/EBITDA multiples.

We have exposure to eight (pure) emerging market stocks, though all but one are half-units in the portfolio. Two are classified as integrateds by the GICS (Gazprom and PetroChina) and five as E&P companies (JKX Oil and Gas, Dragon Oil, Afren, Petrominerales and Soco International). Gazprom is the Russian national oil and gas company which produces approximately a quarter of the European Union gas demand and trades on 2.9x 2012 earnings. PetroChina is one of the world's largest integrated oil and gas companies and has significant growth potential and advantages as a Chinese national champion. Dragon Oil is an oil and gas E&P focused on offshore Turkmenistan, in the Caspian Sea and trades on 7.0x 2012 earnings. JKX is a gas focused E&P company with production in the Ukraine and trades on 2.4x 2012 earnings. Afren focuses on offshore West African production and trades on 8.5x 2012 earnings. Soco International is an E&P company with production in Vietnam and exploration interests across East Africa in Angola, Democratic Republic of Congo and the Republic of Congo. Petrominerales is a Colombia-focused E&P trading on 4.4x 2012 earnings.

We have useful exposure to oil service stocks. The stocks we own are split between those which focus their activities in North America (land drillers Patterson and Unit on 11.4x and 11.7x 2012 earnings) and those which operate in the US and internationally (Helix, Transocean and Halliburton on 12.8x - 16.2x 2012 earnings).

Our independent refining exposure is currently in the US in Valero, the largest of the US refiners, which is currently trading at significant discount to book and replacement value. Valero has a reasonably large presence on the US Gulf Coast and is benefitting from the rise in US exports of refined products seen in recent times.

Our alternative energy exposure is currently a single unit split equally between two companies: JA Solar and Trina Solar. Both were loss making in 2011 due to dramatic falls in solar prices during the year. Trina is a Chinese solar module manufacturer and JA Solar is a Chinese solar cell manufacturer. Some measure of their recovery potential may be indicated by their 2010 PEs of 1.5x and 0.7x respectively.



Portfolio at January 31, 2013

March Marc	Guinness Atkinson Global Energy Fun	a 3 i January 2	UIS			2006	2007	2008	2009	2010	2011	2012	201
The state of the first of the state of the s	Stock	ID ISIN	Curr.	Country		B'berg				B'berg	B'berg	B'berg	B'ber
		.55		country,	NAV	mean PER	mean PE						
Cherwon Corp US1667941055 US0 US 3.43 148 13.1 10.1 22.4 12.4 8.6 9.3 9.3 14.5 PMS DARCH Shall PLC GROSOMSMOP US 18.1 N. 3.4 8.0 7.7 16.2 13.8 11.5 11.5 13.5 11.5 8.4 18.0 PMS PCC GROSOMSMOP US0	_	1152022454022	uco		2.25				22.4				
Regular Lord Sell PC	•												
BEPICC GROWNSOPSOPSOPSOPSOPSOPSOPSOPSOPSOPSOPSOPSOPS													
Figure F													
NS gold													
Stanish ASA MODIO MARCO MODIO													
Hease Cop USB899H1077 USD USB AJO 122 112 92 35.1 130 112 114 150 95 68 73 73 73 73 73 73 74 73 74 74	· · · · · · · · · · · · · · · · · · ·												
OMM AG A10000743999 G.R. AT 3.37 60 58 47 122 76 95 68 7 3.05.7 Integrated of B. Gas - Canada Sincor Snergy in CAD CA 3.08 3.05.7 Sincordan Natural Resources Ltd CASS/2241079 CAD CA 3.08 3.88 14.2 106 32.1 21.4 3.5 10.5 10.5 10.5 Canadan Natural Resources Ltd CASS/2241079 CAD CA 3.08 3.88 14.2 106 32.1 21.4 3.5 10.5 10.5 10.5 Canadan Natural Resources Ltd CASS/2241079 CAD CA 3.08 3.89 11.2 11.0 14.1 15.0 12.0 11.8 13.2 11.0 PROFECTION COLUMN STATE OF ST													8
Miles Mile													
Integrated Oil & Cas - Canada Susuror Reserged to CASP02241079	OMV AG	AT0000743059	EUR	AT		6.0	5.8	4.7	12.2	7.6	9.5	6.8	7.
Canadian Marva Resources Let CA 138881017 CAD CA 332 206 143 9.2 125 124 130 190 14 16 16 16 16 16 16 16 16 16 16 16 16 16	Integrated Oil & Gas - Canada				50.57								
Regreted Oil & Gas - Emerging market PetroChina o Lut CNR100000098 HID HIK 339 112 1110 M1 150 120 118 132 132 132 132 133 132 133 132 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133	Suncor Energy Inc	CA8672241079	CAD	CA	3.28	13.8	14.2	10.6	32.1	21.4	9.5	10.5	10
Integrated Oil & Gas - Emerging market PeterOilma Co. Li Septem OAO	Canadian Natural Resources Ltd	CA1363851017	CAD	CA	3.32	20.6	14.3	9.2	12.5	12.4	13.0	19.0	14
PetroChain CoLid CNE (0000000000 HD)					6.60								
Sargonn OAO		Chilla acceptante			2.20				4-0	400	***	42.2	
1979													
Oil & Gas RéP ComocoPhillips US20825C1045 USD USD 322 USD 346 115 97 75 151 90 71 87 88 103 1017 102 103 104 105 105 105 107 105 105 107 105 105 107 105 105 107 107 107 107 107 107 107 107 107 107	Gazprom OAO	US3682872078	USD	RU		5.2	5.1	4.4	5.0	3.7	2.7	2.9	3
Apache Corp Mapsche Corp US0874111054 USD US 0.55 11.3 16.5 5.9 9.4 7.9 9.1 19.0 3.0 Def Resource Inc	Oil & Gas E&P												
Bill Barret Corp USD6#Resources Inc USD7#32971/08 USD US	ConocoPhillips	US20825C1045	USD	US	3.22	5.85	5.99	5.44	16.03	9.78	6.83	10.17	10.5
CPR Resources Inc	Apache Corp	US0374111054	USD	US	3.45	11.5	9.7	7.5	15.1	9.0	7.1	8.7	8
USB PRESOURCE INC	Bill Barrett Corp		USD	US	0.95	11.3	16.5		9.4	7.9	9.1	190.1	30
Ultra Petroleum Corp	QEP Resources Inc		USD	US	1.05	nm	nm	nm	nm	21.2	18.0	23.5	19.
Devon Energy Corp US5197M1036 USD US 3.49 9.1 8.2 5.8 15.8 9.6 9.5 17.7 14.1 14.1 14.1 14.1 14.1 14.1 14.1	Ultra Petroleum Corp												18.
Chespaele Energy Corp US651571075 US5 US 3.30 US5 3.50 US5 3.71 US	Devon Energy Corp		USD	US	3.49	9.1			15.8	9.6		17.7	14.
Newfield Exploration Co	Chesapeake Energy Corp	US1651671075	USD	US	3.30	5.6	6.3	5.7	8.2	6.9	7.2	41.5	16.
Newfield Exploration Co			USD	US	3.50	28.4	19.8		31.9	26.1	20.5	23.6	16.
Stone Energy Corp	Newfield Exploration Co		USD	US	3.59	8.4	9.2	9.4	5.8	6.4		12.3	12.
Carriso Dil & Gas Inc Perm Virginia Corp US70782000 US 05 US 1.68 30.3 30.7 11.9 14.6 16.9 20.9 14.7 5.7 16.7 24.2 24.1 17.7 17.7 17.7 17.7 17.7 17.7 17.7 1	•												10.
Penn Minjinia Corp	Carrizo Oil & Gas Inc												9.
Bayfield Energy Holdings PLC G80083N3BU75 G8P G8													nn
Ophis Energy PLC GB006824CT194 GBP GB GA2 nm nm nm nm nm nm nm n													nn
Discription USB US													nn
Partition Resources PLC GB00861255882 GBP GB													nn
Cluff Natural Resources PLC G800865YKF01 G8P G8	Pantheon Resources PLC												nn
Oil & Gas E&P - Emerging markets Driggon Oil PLC IE0000590798 GBP GB 1.66 25.1 14.9 12.4 18.0 13.0 7.0 7.0 0.0 Department of Department	Cluff Natural Resources PLC												nn
Dragon Oil PLC E0000590798 GBP GB 1.66 25.1 14.9 12.4 18.0 13.0 7.0 7.0 7.0 6.0 Petrominerales Ltd CA71673R1073 CAD CA 12.4 52.3 18.2 7.0 9.1 3.6 2.5 4.4 6.0 Petrominerales Ltd GB0006727298 GBP GB 1.64 nm nm nm nm 1866 35.0 17.6 8.4 7.0 Soco International PLC GB00065727291 GBP GB 1.67 56.9 52.4 56.3 35.1 48.4 31.2 82.2 7.0 Soco International PLC GB00065727291 GBP GB 1.67 56.9 52.4 56.3 35.1 48.4 31.2 82.2 7.0 Soco International PLC GB00065727291 GBP GB 1.67 56.9 52.4 56.3 35.1 48.4 31.2 82.2 7.0 Soco International PLC GB00065727291 GBP GB 1.67 56.9 52.4 56.3 35.1 48.4 31.2 82.2 7.0 Soco International PLC GB00066727291 GBP GB 1.67 56.9 52.4 56.3 35.1 48.4 31.2 82.2 7.0 Soco International PLC GB00066727291 GBP GB 1.67 56.9 52.4 56.3 35.1 48.4 31.2 82.2 7.0 Soco International PLC GB0006672791 GBP GB 1.67 56.9 52.4 56.3 35.1 48.4 31.2 82.2 7.0 Soco International PLC GB0006672791 GBP GB 1.67 57.1 57.2 4.0 4.8 9.5 40.0 16.2 11.2 Soco International PLC GB0006672791 USD US 3.53 5.0 8.0 8.6 nm 30.0 9.4 11.4 18.2 Soco International PLC GB000672791 USD US 3.43 8.3 7.1 9.7 4.0 4.8 9.5 4.0 4.1 11.4 18.2 Social Part of Social Plane US90528E1047 USD US 0.82 nm 7.1 4.3 3.2 1.5 172.3 nm nm 1.0 1.0 1.0 Social Plane US90528E1047 USD US 0.63 6.2 16.6 24.6 nm 0.7 nm nm nm nm 1.0 Social Plane US90528E1047 USD US 0.63 6.2 16.6 24.6 nm 0.7 nm nm nm nm nm 1.0 Social Plane US90528E1047 USD US 0.63 6.2 16.6 24.6 nm 0.7 nm nm nm nm nm nm nm n	Oll 6 Coo FOR Foregoing grounds				29.75								
Petrominerales Ltd		IE0000E00700	CPD	CP	166	25.1	140	12.4	100	120	70	70	6
Affer PLC GB0086673728 GBP GB 1.64 nm nm nm 186.6 35.0 17.6 8.4 7.7 50.0 international PLC GB008572791 GBP GB 1.67 56.9 52.4 56.3 35.1 48.4 31.2 8.2 7.7 14.0 1.7 1.8 2.0 2.4 2.4 2.4 3.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1													
Social International PLC GB0004697420 GBP GB 1.67 56.9 52.4 56.3 35.1 48.4 31.2 8.2 7.4 7.5 1.4 1.7 1.8 2.0 2.4 2.4 2.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4													
MRX OII & Gas PLC GB0004697420 GBP GB 0.53 1.7 1.4 1.7 1.8 2.0 2.4 2.4 3 3 3 3 3 3 3 3 3													
MesternZagros Resources Ltd													7.
Drilling Transocean Ltd/Switzerland CH0048265513 USD													
Drilling Transocean Ltd/Switzerland CH0048265513 USD US 0.90 19.3 5.2 4.0 4.8 9.5 40.0 16.2 11 Patterson-UTI Energy Inc U57034811015 USD US 3.53 5.0 8.0 8.6 nm 30.0 9.4 11.4 18 Unit Corp U59092181091 USD U5 3.42 7.2 8.4 7.1 18.3 15.8 11.8 11.7 12 T.85 Equipment & Services Halliburton Co U54062161017 USD US 3.40 18.6 16.0 18.7 31.1 20.2 12.2 13.7 13 Helis Energy Solutions Group Inc U542330P1075 USD US 3.40 18.6 16.0 18.7 31.1 20.2 12.2 13.7 13 Helis Energy Solutions Group Inc U542330P1075 USD US 3.43 8.3 7.1 9.7 40.9 44.9 15.8 12.8 16.5 Shandong Molong Petroleum Machinery Co Ltd CNE1000001N1 HKD HK 0.09 14.1 9.8 6.5 18.0 7.0 9.8 nm nm Solar Trina Solar Ltd U589628E1047 USD US 0.82 nm 7.1 4.3 3.2 1.5 172.3 nm nm IA Solar Holdings Co Ltd U54660902069 USD US 0.63 6.2 16.6 24.6 nm 0.7 nm nm nm IA Solar Holdings & Marketing Valero Energy Corp U591913Y1001 USD US 3.38 5.3 5.6 8.1 nm 27.6 11.0 9.0 7 Construction & Engineering Kentz Corp Ltd JE00828ZGP75 GBP GB 0.60 nm 25.9 26.2 25.8 17.8 13.4 11.4 5.5 Cash 70 70 70 70 70 70 70 70 70 70 70 70 70	westernzagros Resources Ltd	CA9600081009	CAD	CA		nm	1,062.						
Transocean Ltd/Switzerland CH0048265513 USD US 0.90 19.3 5.2 4.0 4.8 9.5 40.0 16.2 11 Patterson-UTI Energy Inc US7034811015 USD US 3.53 5.0 8.0 8.6 nm 30.0 9.4 11.4 18 11.7 12 7.85 Equipment & Services Halliburton Co US4062161017 USD US 3.40 18.6 16.0 18.7 31.1 20.2 12.2 13.7 13 148 Helis Energy Solutions Group Inc U542330P1075 USD US 3.40 18.6 16.0 18.7 31.1 20.2 12.2 13.7 13 13 14.8 11.8 11.7 12 12 13.7 13 13 14.8 11.8 11.7 12 12 13.7 13 13 14.8 11.8 11.7 12 12 13.7 13 13 14.8 11.8 11.7 12 14.8 15.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16													
Patterson-UTI Energy Inc US7034811015 USD US 3.53 5.0 8.0 8.6 nm 3.0.0 9.4 11.4 18 11.7 12 7.85 Equipment & Services Halliburton Co US4062161017 USD US 3.40 18.6 16.0 18.7 31.1 20.2 12.2 13.7 13 14.9 15.8 11.8 11.7 12 13.7 13 14.9 15.8 12.8 16 16.9 16.0 18.7 31.1 20.2 12.2 13.7 13 13 14.9 15.8 12.8 16 16.9 16.9 16.9 16.9 16.9 16.9 16.9 1	Drilling												
Unit Corp													11.
Equipment & Services Halliburton Co	<u> </u>												18.
Equipment & Services Hallibuton Co US4062161017 USD US 3.40 18.6 16.0 18.7 31.1 20.2 12.2 13.7 13 Helix Energy Solutions Group Inc US42330P1075 USD US 3.43 8.3 7.1 9.7 40.9 44.9 15.8 12.8 16 Shandong Molong Petroleum Machinery Co Ltd CNE1000001N1 HKD HK 0.09 14.1 9.8 6.5 18.0 7.0 9.8 nm ni 6.92 Solar Trina Solar Ltd US89628E1047 USD US 0.82 nm 7.1 4.3 3.2 1.5 172.3 nm ni IA Solar Holdings Co Ltd US4660902069 USD US 0.63 6.2 16.6 24.6 nm 0.7 nm nm nm ni IA Solar Sefining & Marketing Valero Energy Corp US91913Y1001 USD US 3.38 5.3 5.6 8.1 nm 27.6 11.0 9.0 7 Construction & Engineering Kentz Corp Ltd JE00828ZGP75 GBP GB 0.60 nm 25.9 26.2 25.8 17.8 13.4 11.4 5.5 PER 9.2 8.8 7.7 14.9 9.9 9.3 10.5 10.5 Med. PER 9.2 8.8 7.7 14.9 9.9 9.3 10.5 10.5 Med. PER 9.0 9.4 7.7 15.0 11.1 9.5 10.3 10.5	Unit Corp	US9092181091	USD	US		72	8.4	7.1	18.3	15.8	11.8	11.7	12.
Halliburton Co US4062161017 USD US 3.40 18.6 16.0 18.7 31.1 20.2 12.2 13.7 13.6 14.6 14.6 14.6 14.7 15.0 15.8 12.8 16.6 14.6 14.7 15.0 15.8 12.8 16.6 16.0 18.7 31.1 20.2 12.2 13.7 13.7 13.7 13.7 13.7 13.7 13.7 13.7	Equipment & Services				7.65								
Helix Energy Solutions Group Inc US42330P1075 USD US 3.43 8.3 7.1 9.7 40.9 44.9 15.8 12.8 16.5 Shandong Molong Petroleum Machinery Co Ltd CNE1000001N1 HKD HK 0.09 14.1 9.8 6.5 18.0 7.0 9.8 nm ni 6.92 Solar Trina Solar Ltd US89628E1047 USD US 0.82 nm 7.1 4.3 3.2 1.5 172.3 nm ni JA Solar Holdings Co Ltd US4660902069 USD US 0.63 6.2 16.6 24.6 nm 0.7 nm nm nm ni Oil & Gas Refining & Marketing Valero Energy Corp US91913Y1001 USD US 3.38 5.3 5.6 8.1 nm 27.6 11.0 9.0 7 Construction & Engineering Kentz Corp Ltd JE00828ZGP75 GBP GB 0.60 nm 25.9 26.2 25.8 17.8 13.4 11.4 5.5 Cash 0.75 Total PER 9.2 8.8 7.7 14.9 9.9 9.3 10.5 10.5 Med. PER 9.0 9.4 7.7 15.0 11.1 9.5 10.3 10.5 10.5 Med. PER 9.0 9.4 7.7 15.0 11.1 9.5 10.3 10.5 10.5 Med. PER 9.0 9.4 7.7 15.0 11.1 9.5 10.3 10.5 10.5 Med. PER 9.0 9.4 7.7 15.0 11.1 9.5 10.3 10.5 10.5 Med. PER 9.0 9.4 7.7 15.0 11.1 9.5 10.3 10.5 10.5 Med. PER 9.0 9.4 7.7 15.0 11.1 9.5 10.3 10.5 10.5 Med. PER 9.0 9.4 7.7 15.0 11.1 9.5 10.3 10.5 10.5 Med. PER 9.0 9.4 7.7 15.0 11.1 9.5 10.3 10.5 10.5 Med. PER 9.0 9.4 7.7 15.0 11.1 9.5 10.3 10.5 10.5 Med. PER 9.0 9.4 7.7 15.0 11.1 9.5 10.3 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5		US4062161017	USD	US	3.40	18.6	16.0	18.7	31.1	20.2	12.2	13.7	13.
Shandong Molong Petroleum Machinery Co Ltd CNE1000001N1 HKD HK 0.09 14.1 9.8 6.5 18.0 7.0 9.8 nm ni construction & Engineering Kentz Corp Ltd JE00828ZGP75 GBP GB 0.60 nm 25.9 26.2 25.8 17.8 13.4 11.4 5.5 1.00 1.00 1.00 1.00 1.00 1.00 1.00													16.
Solar Sola	Shandong Molong Petroleum Machinery Co Ltd												nn
Trina Solar Ltd US89628E1047 USD US 0.82 nm 7.1 4.3 3.2 1.5 172.3 nm nn 17.1 AS 0.14 No 18.1 Nm 18.1 Nm 19.1 N					6.92								
JA Solar Holdings Co Ltd US4660902069 USD US 0.63 1.46 0.146 0.18 Gas Refining & Marketing Valero Energy Corp US91913Y1001 USD US 3.38 S3 S5 S6 8.1 Nm 276 11.0 9.0 7 Construction & Engineering Kentz Corp Ltd JE00B28ZGP75 GBP GB 0.60 Nm 259 262 258 178 13.4 11.4 S Cash Total PER 9.2 8.8 7.7 14.9 9.9 9.3 10.5 10.5 10.6 Med. PER 9.0 9.4 7.7 15.0 11.1 9.5 10.3 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5		LICO0620F40.47	LICE	uc	0.00		7.1			4.5	4700		_
1.46													nn
Oil & Gas Refining & Marketing Valero Energy Corp US91913Y1001 USD US 3.38 53 5.6 8.1 nm 27.6 11.0 9.0 7 Construction & Engineering Kentz Corp Ltd JE00B28ZGP75 GBP GB 0.60 nm 25.9 26.2 25.8 17.8 13.4 11.4 9 Cash Total PER 9.2 8.8 7.7 14.9 9.9 9.3 10.5 10.6 Med. PER 9.0 9.4 7.7 15.0 11.1 9.5 10.3 10.6	JA Solar Holdings Co Ltd	US466U902069	USD	US		6.2	16.6	24.6	nm	0.7	nm	nm	nn
Valero Energy Corp US91913Y1001 USD US 3.38 5.3 5.6 8.1 nm 27.6 11.0 9.0 7 3.38 Construction & Engineering Kentz Corp Ltd JE00B28ZGP75 GBP GB 0.60 nm 25.9 26.2 25.8 17.8 13.4 11.4 5 Cash 0.75 Total PER 9.2 8.8 7.7 14.9 9.9 9.3 10.5 10 Med. PER 9.0 9.4 7.7 15.0 11.1 9.5 10.3 10	Oil & Gas Refining & Marketing				1.40								
Construction & Engineering Kentz Corp Ltd JE00B28ZGP75 GBP GB 0.60 nm 25.9 26.2 25.8 17.8 13.4 11.4 5 Cash 0.75 Total 100 PER 92 8.8 7.7 14.9 99 93 10.5 10 Med. PER 9.0 9.4 7.7 15.0 11.1 9.5 10.3 10	Valero Energy Corp	US91913Y1001	USD	US	3.38	5.3	5.6	8.1	nm	27.6	11.0	9.0	7.
Kentz Corp Ltd JE00B28ZGP75 GBP GB 0.60 nm 25.9 26.2 25.8 17.8 13.4 11.4 9 Cash Total 0.75 Total 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100													
Cash 0.75 Total PER 9.2 8.8 7.7 14.9 9.9 9.3 10.5 10 Med. PER 9.0 9.4 7.7 15.0 11.1 9.5 10.3 10		IF00R287GP75	GRP	GR	0.60	nm	25.0	262	25.8	17.9	13.4	11.4	9.
Total 100 PER 9.2 8.8 7.7 14.9 9.9 9.3 10.5 10.0 Med. PER 9.0 9.4 7.7 15.0 11.1 9.5 10.3 10.0	nentz corp Eta	JE00B202GI 73	GDI	GD.	0.00	11111	23.3	20.2	23.0	17.0	13.4	11.4	Э.
Total 100 PER 9.2 8.8 7.7 14.9 9.9 9.3 10.5 10.0 Med. PER 9.0 9.4 7.7 15.0 11.1 9.5 10.3 10.0				Cash	0.75								
PER 9.2 8.8 7.7 14.9 9.9 9.3 10.5 10 Med. PER 9.0 9.4 7.7 15.0 11.1 9.5 10.3 10													
Med. PER 9.0 9.4 7.7 15.0 11.1 95 10.3 10													
Med. PER 9.0 9.4 7.7 15.0 11.1 95 10.3 10					PER	9.2	8.8	7.7	14.9	9.9	9.3	10.5	10.
													10.
				F									9.9

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.



6. Outlook

Oil market

The table below illustrates the difference between the growth in world oil demand and non-OPEC supply over the last 12 years, together with the IEA forecasts for 2013.

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013e
													IEA
World Demand	77.4	77.7	79.3	82.5	84.0	85.2	87.0	86.5	85.4	88.0	88.9	89.8	90.8
Non-OPEC supply (includes Angola and Ecuador for periods when each country was outside OPEC¹)	47.2	48.1	49.1	50.3	50.4	51.3	50.5	49.6	51.4	52.6	52.8	53.3	54.3
Angola supply adjustment ¹	-0.7	-0.9	-0.9	-1.0	-1.2	-1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ecuador supply adjustment ¹	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	0.0	0.0	0.0	0.0	0.0	0.0
Indonesia supply adjustment ²	1.2	1.1	1.0	1.0	0.9	0.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0
Non-OPEC supply (ex. Angola/Ecuador and inc. Indonesia for all periods)	47.3	47.9	48.8	49.8	49.6	50.3	51.0	50.6	51.4	52.6	52.8	53.3	54.3
OPEC NGLs	3.4	3.7	3.9	4.2	4.3	4.3	4.3	4.5	4.9	5.4	5.8	6.2	6.5
Non-OPEC supply plus OPEC NGLs (ex. Angola/Ecuador and inc. Indonesia for all periods)	50.7	51.6	52.7	54.0	53.9	54.6	55.3	55.1	56.3	58.0	58.6	59.5	60.8
Call on OPEC-12 ³	26.7	26.1	26.6	28.5	30.1	30.6	31.7	31.4	29.1	30.0	30.3	30.3	30.0
Iraq supply adjustment ⁴	-2.4	-2.0	-1.3	-2.0	-1.8	-1.9	-2.1	-2.4	-2.4	-2.4	-2.6	-2.8	-3.3
Call on OPEC-11 ⁵	24.3	24.1	25.3	26.5	28.3	28.7	29.6	29.0	26.7	27.6	27.7	27.6	26.7

¹Angola joined OPEC at the start of 2007, Ecuador rejoined OPEC at the end of 2007 (having previously been a member in the 1980s)

Source: 2000 - 2008: IEA oil market reports; 2009 - 12: 18 January 2013 Oil market Report

Global oil demand in 2012 was 2.8m b/day up on the previous 2007 peak. This means the combined effect of the 2007-8 oil price spike and the 2008/09 recession was quite small and has been shrugged off remarkably quickly. The IEA forecast a further 1.0m b/day rise in demand in both in 2013, which would take oil demand to a new all-time high of nearly 91m b/day.

OPEC

Four years ago, in order to put a floor under a plunging oil price, OPEC announced in its December 17, 2008 meeting a new quota target of 25.0m b/day with effect from January 1, 2009. This figure represented a 4.2m b/day cut from the actual OPEC-11 September 2008 production level (29.2m b/day). Since then, quotas remained unchanged until the OPEC meeting on December 13, 2011, at which OPEC substituted a 30m b/day target without specifying individual country quotas. The statement read as follows:

²Indonesia left OPEC as of the start of 2009

³Algeria, Angola, Ecuador, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi, U.A.E. Venezuela

⁴Iraq has no offical quota

⁵Algeria, Angola, Ecuador, Iran, Kuwait, Libya, Nigeria, Qatar, Saudi, U.A.E. Venezuela



The 30m b/day figure includes 2.7m b/day for Iraq, so in effect 25.0m b/day for OPEC-11 was moved up to 27.3m b/day. The timing of this announcement was clearly complicated by numerous issues: notably (1) a range of tricky problems in four OPEC member countries – Libya (recovery from civil war), Iran (western sanctions over nuclear weapons development), Venezuela (an ailing president), Nigeria (tribal unrest in the delta and sectarian unrest elsewhere); (2) production problems in certain non-OPEC countries that might or might not resolve themselves speedily - Yemen; Syria and Southern Sudan; and (3) a real problem in forecasting how Iraq might develop. Our view is that this 30m b/day needs to be taken as a marker in the sand (this is where we would like to see production all things being normal) but little more than that at present. That said, January 2013 production for OPEC-11 is reported to be around 27.3m b/day, indicating that OPEC are currently aligned with their overall target. None of this changes from our view that OPEC may be ill-disciplined when prices are high but remain capable of being totally effective at cutting production when the oil price weakens significantly – as they did in December 2008, 2006, 2001 and 1998.

OPEC met in June 2012 and in December 2012 and no changes to production levels were made. The next meeting is scheduled for May 2013.

The table below shows changes in production among OPEC-12 since the end of 2010 and shows how production is running well ahead of pre-MENA unrest levels. In addition to the non-OPEC problems mentioned above, Saudi Arabia's increased production is an indication of their desire to see US and European sanctions succeed against Iran (so avoiding military action against Iran by Israel). Saudi are well aware that if the oil price is \$120+, Iran's overall oil revenues are strong even if production weakens. Saudi production alone is up around 0.85m b/day, and total OPEC-12 production is 1.2m b/day higher than December 2010.

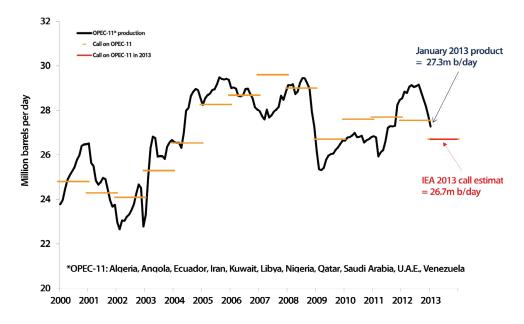


('000 b/day)	31-Dec-10	31-Jan-13	Change
Saudi	8,250	9,100	850
Iran	3,700	2,600	-1,100
UAE	2,310	2,600	290
Kuwait	2,300	2,750	450
Nigeria	2,220	1,990	-230
Venezuela	2,190	2,865	675
Angola	1,700	1,810	110
Libya	1,585	1,110	-475
Algeria	1,260	1,200	-60
Qatar	820	750	-70
Ecuador	465	504	39
OPEC-11	26,800	27,279	479
Iraq	2,385	3,200	815
OPEC-12	29,185	30,479	1,294

Source: Bloomberg LP (January 2013)

The graph below shows the estimated call on OPEC-11 for 2013, which we currently estimate to be around 26.7m b/day versus apparent production of 27.3m b/day. Given that the market is in reasonable balance, it suggests that the actual call has recently been higher than 26.7m b/day.

Figure 6: OPEC apparent production vs. call on OPEC 2000 – 2012



Source: Bloomberg/IEA Oil Market Report (January 2013)

Supply looking forward

The non-OPEC world is struggling to grow production meaningfully. The growth was 2% p.a. from 1998-2003, 0.2% p.a. from 2003-2008 and 1.8% p.a. from 2008-2012.

Since 2010, non-OPEC production is up by only 0.7m b/day (0.2m b/day in 2011 and 0.5m b/day in 2012). Nearly all of the growth has come from the successful development of oil shale and oil sands in North America (+1.7m b/day over 2 years), implying that the rest of the non-OPEC region has declined by 1.0m b/day over this period. The decline in the rest of non-OPEC has been driven by a combination of political (Sudan; Syria & Yemen) and operational (UK & Norwegian North Sea) factors.



The IEA forecast non-OPEC supply growing by 1.0m b/day in 2013, driven again by North American supply (+0.7m b/day). Other areas expected to grow their production include Brazil, Sudan, Egypt and China, offset by declines in the North Sea, Mexico and Russia.

Looking further ahead, we must consider in particular potential increases in supply from two regions: Iraq and North America. Starting with Iraq, the questions of how big an increase is likely, in what timescale, and the reaction of other OPEC members are all important issues. Our conclusion is that while an increase in Iraqi production may be possible (say, 2m barrels over the next 5 years), if it occurs it will be surprisingly easily absorbed by a combination of OPEC adjustment, if necessary, weak non-OPEC supply growth and continuing growth in demand from developing countries of c.15m b/day over the next 10 years. Iraqi production was running at 3.2m b/day in January 2013, down from a high of 3.6m b/day in mid-2000. Despite this potential, continued unrest across the country does not fill one with confidence that growth can easily be achieved.

A new and interesting source of growing non-OPEC supply is the oil being produced in North America from horizontal drilling and hydraulic fracturing to produce oil sourced from or in oil shales. The Bakken in Dakota, and the Permian and Eagleford in Texas are the best examples. So far, new oil production from these sources amounts to around 1.0m b/day, all of which has come into supply over the past 4 years. Our assessment is that this is a high cost source of oil, but one that is viable at current oil prices. It could be comparable in size to the UK North Sea, i.e. it could grow to by a further 3m b/day between now and 2020, though we note recent comments from the management of Core Laboratories, a leading reservoir analysis company, that the market is overestimating the potential of US oil shale and that we are unlikely to see more than an additional 0.6m b/day over the next three years (i.e. growth of 0.2m b/day per year to 2015). We also observe that since the discovery of the Bakken, Eagleford and Permian, the US has struggled to find another large shale resource, despite two years of trying.

Similar opportunities to exploit unconventional oil likely exist internationally, notably in Argentina (Vaca Muerta), Russia (Bazhenov), China (Tarim and Sichuan) and Australia (Cooper). However, the US is far better understood geologically; the infrastructure in the US is already in place; service capacity in the US is high and the interests of the landowner are aligned in the US with the E&P company. In most of the rest of the world, the reverse of each of these points is true, and as a result we see international shale 5-10 years behind North America.

We must also keep an eye on future sources of new conventional oil supply. In Kazakhstan, the Kashagan field that is currently in development is expected to begin producing commercial volumes in mid-2013. Though initial volumes are lower, production is anticipated to reach between 1-1.5m b/day by around the end of the decade.

Demand looking forward

The IEA reported growth in oil demand in 2012 of 1.0m b/day, comprising an increase in non-OECD demand of 1.4m b/day and a decline in OECD demand of 0.3m b/day. The non-OECD growth forecast for 2013 is similar to 2012 at 1.3m b/day. The components of this growth can be summarized as follows:

Figure 7: Non-OECD oil demand

Million b/day			Demand				Grow	th	
_	2009	2010	2011	2012	2013	2010	2011	2012	2013
Asia	18.25	19.65	20.28	20.96	21.62	1.40	0.63	0.68	0.66
M. East	7.10	7.32	7.37	7.60	7.79	0.22	0.05	0.23	0.19
Lat. Am.	5.70	6.04	6.29	6.50	6.65	0.34	0.25	0.21	0.15
FSU	4.00	4.15	4.43	4.57	4.73	0.15	0.28	0.14	0.16
Africa	3.37	3.30	3.29	3.41	3.53	-0.07	-0.01	0.12	0.12
Europe	0.70	0.68	0.69	0.72	0.73	-0.02	0.01	0.03	0.01
	39.12	41.14	42.35	43.76	45.05	2.02	1.21	1.41	1.29

Source: IEA Oil Market Report (January 2013)



As can be seen, Asia has settled down into a steady pattern of growth since 2010. Collective growth in the Middle East, Latin America, FSU and Africa is likely in 2013 to match that in Asia. These other non-OECD regions are all central to the developing world industrialization and urbanization thesis and should not be overlooked.

For OECD demand in 2013, the IEA's forecast of a decline of 0.4m b/day sees North America flat and Europe and the Pacific up. The expected decline in European demand broadly reflects weak economic expectations for the region.

Global oil demand over the next few years is likely to follow a similar pattern, with a shallow decline in the OECD more than offset by strong growth in the non-OECD area. The decline in the OECD reflects improving oil efficiency over time, though this effect will be dampened by population and vehicle growth. Within the non-OECD, population growth and rising oil use per capita will both play a significant part. Price and the trajectory of global GDP will have an effect at any point in the short-term, but overall we would not be surprised to see average annual demand growth of around 1.5m b/day to the end of the decade. This would represent a growth rate of 3% p.a., no greater than the growth rate over the last 15 years (3.2% p.a.).

Conclusions about oil

From the low of \$31.42 on December 22, 2008 we saw the oil price (WTI) recover to above \$70 by May 2009, and range trade around \$65-\$85 for the subsequent 20 months. Since November 2010 it has generally moved above this range, trading in a wider range of \$80-\$110. Brent's trading range over the same period has been higher, at \$90-\$125.

The table below summarizes our view by showing our oil price forecasts for WTI and Brent in 2013 against their historic levels, and rises in percentage terms that we have seen in the period from 2002 to 2012.

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Average WTI (\$)	31.2	41.7	56.6	66.1	72.2	99.9	61.9	79.5	95.0	94.1	100
Average Brent (\$)	28.9	38.5	54.7	65.5	73.2	97.1	62.5	79.7	111.0	112.0	110
Average Brent and WTI	30.1	40.1	55.7	65.8	72.7	98.5	62.2	79.6	103.0	103.1	105
Average Brent and WTI Change + y-o-y (\$)		10.1	15.6	10.2	6.9	25.8	-36.3	17.4	23.4	0.05	1.95
Avge Change ⁺ y-o-y (%)		33%	39%	18%	10%	35%	-37%	28%	29%	0%	2%

Figure 8: Average WTI & Brent yearly prices, and changes

We think the most likely scenario going forward is that we will see the average price of Brent and WTI in the trading range of \$90-110. Once the floor of this range looks threatened, OPEC will start to cut back and any significant price weakness below \$100 (Brent) will be prevented by OPEC cuts. Should the oil price rise much over \$125 and we think demand will start to weaken, putting a ceiling on the price for the time being (absent a supply shock).

In the short term, the restoration of Libyan oil production post-civil war is being countered by supply disruption in Syria, Yemen and foremost, Iran. In Syria, with Hezbollah and Iran backing the Alawite/Shia minority government and Saudi sources financing the arming of Sunni rebels, there is a clear risk that Iran responds by trying to destabilise the Shia (oil producing) eastern region of Saudi Arabia. As regards Iran, the continuing rhetoric between Iran and the West, with US and European policy of oil embargoes from July, underlines that we are only one ill-judged military move away from another oil spike. In Iraq stability remains elusive. At the heart of it all, we believe that Saudi are working hard to try and maintain a 'good' oil price (\$90-110).



Natural gas market

Supply & demand recent past

On the demand side, industrial gas demand and electricity gas demand, each about a third of total US gas demand, are key. Commercial and residential demand, which make up the final third, have been fairly constant on average over the last decade – although yearly fluctuations due to the coldness of winter weather can be marked.

Industrial demand (of which around 30% comes from petrochemicals) tends to trend up and down depending on the strength of the economy, the level of the US dollar and the differential between US and international gas prices. Between 2000 and 2009 industrial demand was in steady decline, falling from 22.2 Bcf/day to 16.9 Bcf/day. Since 2009 the lower gas price (particularly when compared to other global gas prices) and recovery from recession has seen demand rebound, up in 2012 to an estimated 18.8 Bcf/day.

The supply side fundamentals for natural gas in the US are driven by 5 main moving parts: onshore and offshore domestic production, net imports of gas from Canada, exports of gas to Mexico and imports of liquefied natural gas (LNG). Of these, onshore supply is the biggest component, making up over 80% of total supply.

Since the middle of 2008 the weakening gas price in the US reflects growing onshore US production driven by rising gas shale and associated gas production (coming from growing onshore US oil production). These trends initially were mitigated by declining offshore production and falling net Canada and LNG imports and rising exports to Mexico. Most recently, from about September 2011, the mitigating factors became exhausted and a net imbalance developed. This combined with very warm winter temperatures in early 2012 caused gas in storage to balloon. This in turn precipitated a gas price sell off. Since around April 2012, we have seen (a) the gas rig count fall week on week as producers seek to cut back supply and (b) coal to gas switching by US electricity utilities burgeon.

Total gas demand in 2012 (excluding Canadian exports) is estimated to have been 71.6 Bcf/day, up by 3.4 Bcf/day (5.0%) vs. 2011 and up 6.2 Bcf/day (10%) vs the 5 year average. The principal contributor to the increase in 2012 vs. 2011 was power generation (+4.5 Bcf/day), driven by coal to gas switching. Other notable changes were industrial demand (+0.4 Bcf/day), exports to Mexico (+0.5 Bcf/day) and residential/commercial demand (-2.2 Bcf/day) which was pulled lower by the very warm start to the year. Overall, while gas demand in the US has been reasonably strong over the past 3 years, it has been trumped over this period by a rise in onshore supply, as discussed above.

Supply Outlook

Change in Rig Count

The onshore drilling rig count is the key driver of gas supply. When looking at changing totals, however, the accelerating shift from vertical to horizontal drilling has to be factored in as too does growing associated gas from rising onshore oil production, itself linked to a rising US oil rig count.

In total, the onshore gas rig count has dropped from a 1,606 peak in September 2008 to 434 at end-January 2013. Over the same period the oil rig count has risen from 416 to 1,315. The total number of rigs has therefore declined recently but not changed hugely (it has gone from 2,031 Aug 2008 to 1,990 Sep 2011 to 1,753 January 2013. Within this, however, the mix has changed as illustrated by the following table:



RIG COUNT BHI	Aug 2008		Sep 2011		Jan 2013	
Gas Rigs	1606		923		434	
Oil Rigs	416		1060		1315	
Misc. Rigs	9		7		4	
Total Rigs	2031		1990		1753	
		%		%		%
Horizontal Rigs	626	31%	1135	<i>57</i> %	1127	64%
Directional Rigs	388	19%	238	12%	181	10%
Vertical Rigs	1017	50%	617	31%	445	25%
Total Rigs	2031	100%	1990	100%	1753	100%

One result of the change from vertical to horizontal drilling has been that onshore gas supply has continued to rise and is now at c 69.7 Bcf/day, around 12.3 Bcf/day (21%) above the 57.4 Bcf/d peak in 2009 before the rig count collapsed. But as we mentioned earlier, we do not believe this growing excess in production over demand can continue indefinitely with natural gas trading well below the marginal cost of supply: a combination of reduced capital spending by the exploration companies, lowering production, and growing natural gas demand stimulated by the low gas price will rebalance the market, as is now happening.

80 12 70 Total/Onshore production (Bcf/day) 60 Offshore production (Bcf/day) 50 40 30 20 3 10 0 Jan-05 Jan-07 Jan-08 Jan-09 Jan-12 Jan-06 Jan-10 Jan-11

Figure 9: US natural gas production 2005 - 2012 (Lower 48 States)

Source: EIA 914 data (November 2012 published in February 2013)

Liquid natural gas (LNG) arbitrage

The UK national balancing point (NBP) gas price – which serves as a proxy to the European traded gas price – rose slightly in January but is at a very significant premium to the US gas price (\$10.60 versus \$3.33). LNG supplies to the UK have been somewhat constrained, particularly in light of strong demand for LNG to Asian markets and this has been helping to support the price in recent months. US LNG imports remained around 0.5 Bcf/day in January as cargoes took advantage of the higher prices in Europe and Asia.



Canadian imports into the US

Net Canadian imports of gas into the US dropped from 9 Bcf/day in 2007 to 5.4 Bcf/day (estimated) in 2012. This was initially driven by falling rig counts and a less attractive royalty regime enacted in 2007 and has accelerated due increased domestic demand from Canadian oil sands development. Although the Canadian rig count has recovered somewhat, we expect net imports to continue to decline in 2013 to around 5 Bcf/day.

Demand Outlook

Our focus is now on gas demand in 2013. Here we see demand from power generation down on 2012 (some of the coal to gas switching is likely to reverse if the gas price stays above \$3) but about 1-2 Bcf/day above 2011. Residential and commercial gas demand will, as ever, be weather dependent but assuming average temperatures, will be around 2 Bcf/day better than 2012 and unchanged from 2011. And we expect industrial consumption about 0.3 Bcf/day above 2012. Overall, assuming average weather, we expect 2013 demand to be around 73-74 Bcf/day, down a little on 2012 but around 2.5-3 Bcf/day higher than 2011.

Looking out further, the low US gas price has stimulated various initiatives that are likely have a material impact on demand from 2015/16 onwards. The most significant is the group of LNG export terminals in the US and Canada which are in the planning/early construction stages. There are over 26 bcf/day of LNG export projects proposed in the US today, plus a further 6 bcf/day in Canada, as shown below:



#	Terminal	Sponsor	MTPA Capacity	BCF/day Capacity
US	– Approved			
1	Sabine Pass	Cheniere	16.0	2.6
US	 FERC Review 			
2	Freeport	Freeport	10.0	1.8
3	Corpus Christi	Cheniere	13.5	1.8
4	Coos Bay	Jordan Cove	6.0	0.9
5	Lake Charles	ETE-BG	7.0	2.4
6	Hackberry (Cam)	Sempra	12.0	1.7
7	Cove Point	Dominion Res.	7.2	1.0
8	Astoria	Oregon LNG	8.0	1.3
US	- Proposed			
9	Alaska LNG	XOM-BP-COP	15.0	3.0
10	Brownsville	Gulf Coast LNG	20.6	2.8
11	Pascagoula	Gulf LNG	9.0	1.5
12	Lavaca Bay	Excelerate	8.5	1.4
13	Elba Island	ETE	3.0	0.5
14	Golden Pass	XOM	16.0	2.6
15	Plaquemines Parish	CE FLNG	7.5	1.1
	US Total		159.3	26.4
Can	nada – Review			
16	Kitimat	EOG-APA- ECA	5.5	0.7
17	BC LNG	Var.	1.8	0.3
18	LNG Canada	RDS	24.0	3.6
Can	ada – Proposed			
19	Prince Rupert	Petronas	8.5	1.0
20	Ridley Island	BG	8.5	1.0
	Canada Total		48.3	6.6

Source: Bernstein (December 2012)

Not all these facilities will be built, but we think that exports of between 6-10 bcf/day from the US by 2020, or around 10-15% of new demand, are likely. Additional LNG exports from Canada will contribute a few extra bcf, tightening the natural gas balance across North America. Importantly, the DOE sponsored report concluded that LNG exports will have a net benefit to the US economy and that benefits are likely to increase as LNG exports rise.

Industrial demand will also grow thanks to the construction of new petrochemical plants: Dow Chemical and Chevron Phillips have large new Gulf Coast facilities planned for 2017, the first new crackers to be built in the US since 2001.



We believe that gas will continue to take the majority of incremental power generation growth in the US. The combined cycle gas turbine fleet (CCGT) operated in 2010 at 39% of capacity versus the coal fleet at 70% of capacity. 2012 has given us a glimpse of the scale of switching that is possible, and while the CCGT fleet will not reach 70% anytime soon (it is not all in the 'right place' geographically), we do expect it to grow its underlying market share and add several Bcf/day to gas demand over the next few years. Our working assumption is 1 Bcf/day per year.

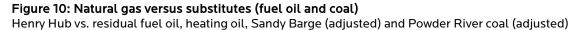
We also watch with interest the efforts being made to increase the usage of LPG and LNG by the US truck, bus and delivery van fleets. Whether this will gain traction is hard to know. If it does its impact will be meaningful. If the entire fleet described above moved to gas, we estimate that it would increase demand by 18 Bcf/day.

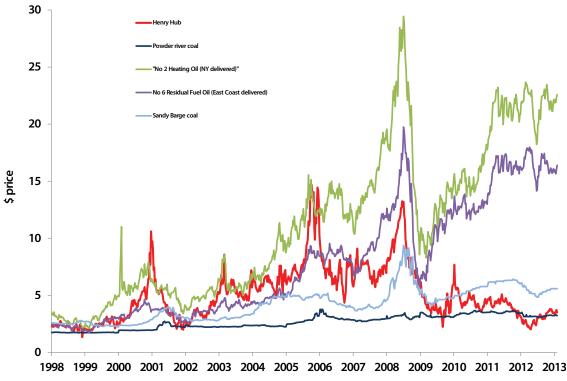
Other

Relationship between gas price and other energy commodity prices in the US

The oil/gas price ratio (\$ per bbl WTI/\$ per mcf Henry Hub) of 29.3x at the end of January continues well outside the more normal ratio of 6-9x. If the oil price averages around \$90 in 2013 and the relationship between the oil and gas price returning to its longer-term average of 6-9x, this would imply the gas price increasing back to above \$10 once the gas market has returned to balance. This is quite a thought and a long way away from current market sentiment.

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. With the gas price trading below the coal price support level for the first 8 months of 2012, resulting coal to gas switching for power generation was significant. It will be interesting to see how much of the switching persists in 2013 with gas back above \$3/Mcf – some but not all, we think.





Source: Bloomberg LP (January 31, 2012)



Conclusions about US natural gas

The US natural gas price has bottomed and the recovery has begun. Natural gas at around \$3.50 spot is still below the (full cycle) marginal cost of supply and as the depressed rig count holds back new supply we expect the price to recover further. We believe the gas price may then be held around the \$4-5 range for a period until demand grows further, and longer term we expect the price to normalize to \$6-8.

6. Appendix: Oil and Gas markets historical context



Figure 11: Oil price (WTI \$) last 23 years.

Source: Bloomberg

For the oil market, the period since the Iraq Kuwait war (1990/91) can be divided into two distinct periods: the first 9-year period was 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.

The last 13 years, by contrast, have seen 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 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.

After 2005 we saw a further strong run-up in the oil price. Hurricanes Katrina and Rita which devastated New Orleans caused oil to spike up to \$70 in August 2005, and it spiked up again in July 2006 to \$78 after a three week conflict between Israel and Lebanon threatened supply from the Middle East. OPEC implemented cuts in late 2006 and early 2007 of 1.7 million barrels per day to defend \$50 oil and with non-OPEC supply growth at best anaemic demonstrated that it could to act a price-setter in the market at least so far as putting a floor under it.

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's 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. Since 2011 we have seen a disconnect between the WTI and Brent oil benchmarks due to US domestic oversupply affecting WTI. The WTI price has generally moved up and into a wider range of \$80-\$110, whilst Brent's trading range over the same period has been higher, at \$90-\$125, with the pressures of non-OECD demand persistently outstripping non-OPEC supply and supply tensions in the Middle East/North Africa prevailing.



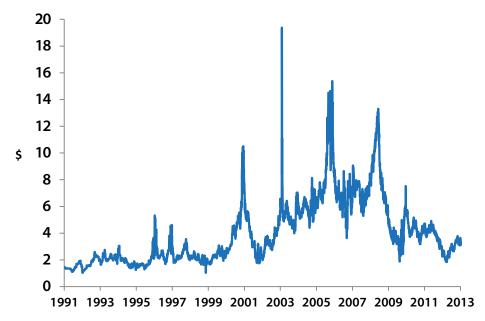


Figure 12: North American gas price last 22 years (Henry Hub \$/Mcf)

Source: Bloomberg

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.

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 because the infrastructure to export LNG from North America is not yet in place.

Tim Guinness

Chairman & Chief Investment Officer

Will Riley & Ian Mortimer

Fund investment team



Commentary for our views on Alternative Energy and Asia markets is available on our website. Please <u>click</u> <u>here</u> to view.

The Fund's holdings, industry sector weightings and geographic weightings may change at any time due to ongoing portfolio management. References to specific investments and weightings should not be construed as a recommendation by the Fund or Guinness Atkinson Asset Management, Inc. to buy or sell the securities. Current and future portfolio holdings are subject to risk.

Mutual fund investing involves risk and loss of principal is possible. The Fund invests in foreign securities which will involve greater volatility, political, economic and currency risks and differences in accounting methods. The Fund is non-diversified meaning it concentrates its assets in fewer individual holdings than a diversified fund. Therefore, the Fund is more exposed to individual stock volatility than a diversified fund. The Fund also invests in smaller companies, which involve additional risks such as limited liquidity and greater volatility. The Fund's focus on the energy sector to the exclusion of other sectors exposes the Fund to greater market risk and potential monetary losses than if the Fund's assets were diversified among various sectors. The decline in the prices of energy (oil, gas, electricity) or alternative energy supplies would likely have a negative affect on the funds holdings.

MSCI World Energy Index is the energy sector of the MSCI World Index (an unmanaged index composed of more than 1400 stocks listed in the US, Europe, Canada, Australia, New Zealand, and the Far East) and as such can be used as a broad measurement of the performance of energy stocks. Indices do not incur expenses and are not available for investment.

The S&P 500 Index is a broad based unmanaged index of 500 stocks, which is widely recognized as representative of the equity market in general.

Price to earnings ratio (PER) reflects the multiple of earnings at which a stock sells.

Earnings per share (EPS) is calculated by taking the total earnings divided by the number of shares outstanding.

Book Value is the net asset value of a company, calculated by subtracting total liabilities from total assets.

Enterprise value is defined as the market capitalization of a company plus debt minus total cash and cash equivalents.

This information is authorized for use when preceded or accompanied by a prospectus for the Guinness Atkinson Funds. The <u>prospectus</u> contains more complete information, including investment objectives, risks, charges and expenses related to an ongoing investment in the Fund. Please read the prospectus carefully before investing.

Distributed by Quasar Distributors, LLC