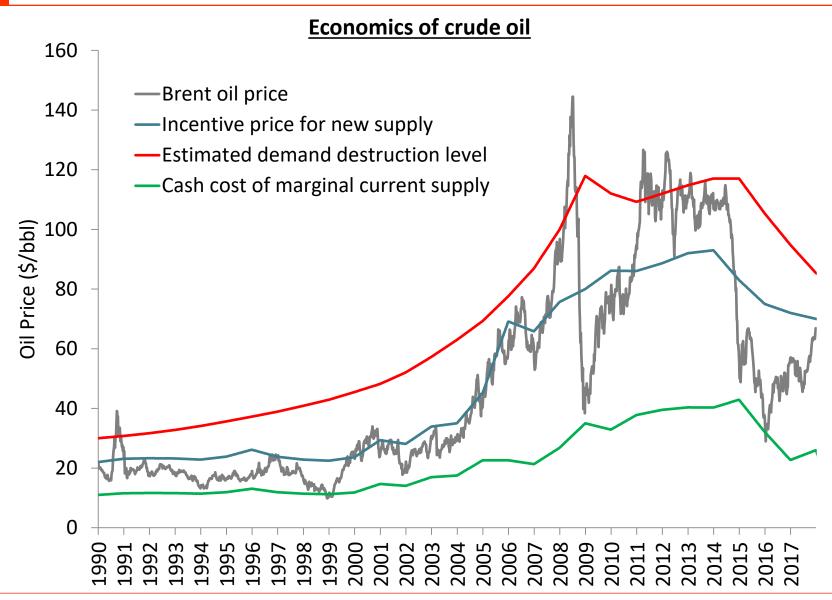
Global Energy: Q2 2018 webcast

July, 2018

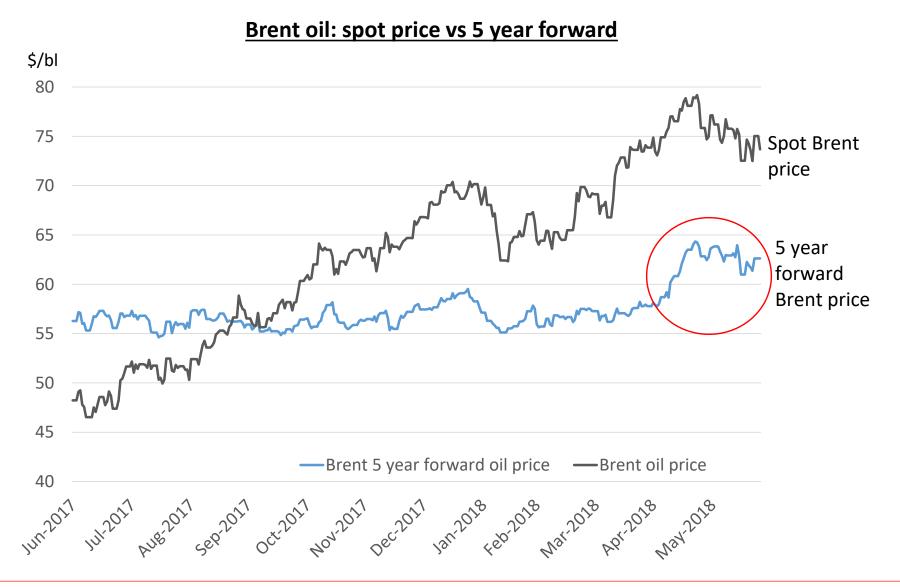
Tim Guinness (Co-manager)
Will Riley, CA (Co-manager)
Jonathan Waghorn (Co-manager)



- 1) Oil prices: what have been the key drivers of oil price moves over the last twelve months? Where do oil prices now sit in the context of previous cycles?
- 2) Oil demand: The global GDP juggernaut versus the rise of EVs who wins?
- **3) Non-OPEC supply:** how is US shale responding to rising oil prices? How relevant our constraints in the Permian basin? What are the prospects for rest of non-OPEC supply?
- **4) OPEC strategy:** how does OPEC navigate the Iran nuclear deal, Venezuela and the Saudi Aramco IPO?
- **5) Investment opportunities:** with capital discipline and improving free cashflow in the energy sector now being rewarded by the market over growth, where are the best opportunities?



Energy equities: longer dated oil prices starting to move up



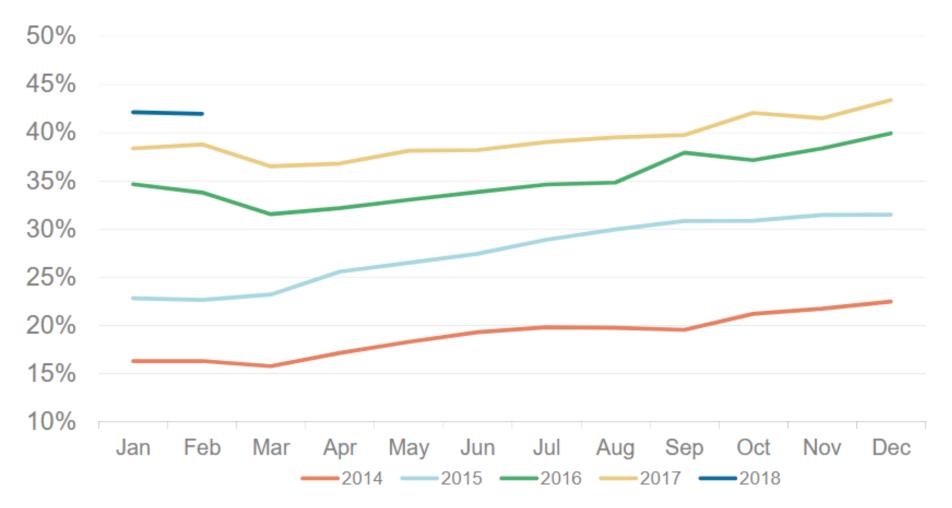
Near term oil demand: world oil demand up 1.5m b/day in 2018

Global oil demand (m b/day)

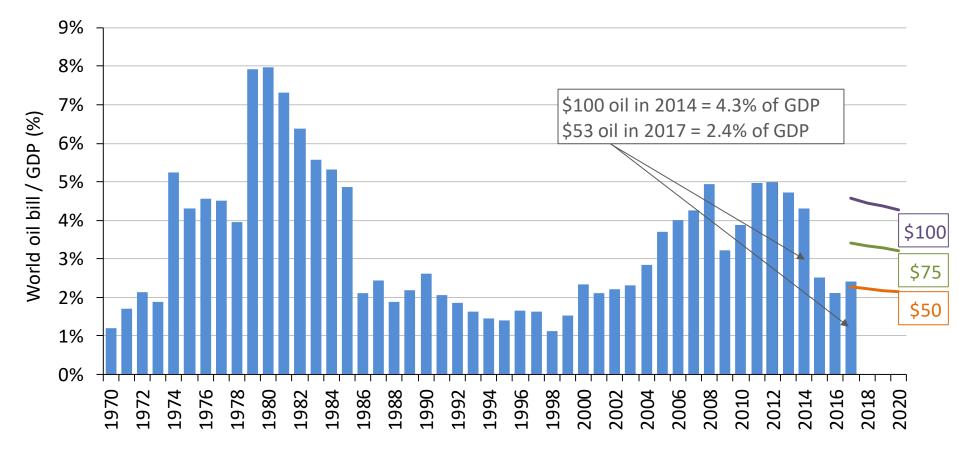
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
OECD demand															IEA
North America	25.7	25.8	24.5	25.8	24.5	23.7	24.1	24.0	23.6	24.2	24.2	24.6	24.7	24.9	25.0
Europe	15.6	15.7	15.7	15.6	15.5	14.7	14.7	14.3	13.8	13.6	13.5	13.8	14.0	14.3	14.5
Pacific	8.8	8.9	8.7	8.7	8.3	8.0	8.2	8.2	8.5	8.3	8.1	8.1	8.1	8.2	8.1
Total OECD	50.1	50.4	48.9	50.1	48.3	46.4	47.0	46.5	45.9	46.1	45.8	46.4	46.9	47.4	47.7
Change in OECD demand		0.3	-1.5	1.2	-1.8	-1.9	0.6	-0.5	-0.6	0.2	-0.3	0.6	0.5	0.5	0.3
NON-OECD demand															
FSU	3.8	3.9	4.0	4.0	4.2	4.0	4.1	4.4	4.6	4.5	4.6	4.5	4.7	4.7	4.8
Europe	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8
China	6.4	6.7	7.2	7.6	7.7	7.9	8.9	9.3	9.9	10.4	10.8	11.6	11.8	12.4	12.8
India	2.6	2.6	2.7	2.9	3.1	3.2	3.3	3.5	3.7	3.7	3.8	4.2	4.6	4.7	5.0
Other Asia	6.4	6.4	6.6	6.9	6.8	7.1	7.5	7.6	7.6	7.9	8.0	8.2	8.4	8.6	8.8
Latin America	4.9	5.0	5.2	5.3	5.6	5.7	6.1	6.2	6.5	6.6	6.8	6.7	6.6	6.6	6.6
Middle East	5.5	5.9	6.1	6.4	6.7	7.1	7.3	7.5	7.9	8.0	8.4	8.4	8.3	8.3	8.4
Africa	2.8	2.9	2.9	3.3	3.3	3.4	3.5	3.5	3.8	3.8	3.9	4.3	4.3	4.3	4.4
Total Non-OECD	33.1	34.1	35.4	37.1	38.1	39.1	41.4	42.7	44.8	45.6	47.4	48.6	49.2	50.4	51.5
Change in non-OECD demand		1.0	1.3	1.7	1.0	1.0	2.3	1.3	2.1	0.8	1.8	1.2	0.6	1.2	1.1
Total Damand	02.5	02.0	05.4	07.2	06.4	0F F	00.4	00.2	00.7	04.7	02.4	05.0	06.2.4	07.7	00.0
Total Demand	82.5	83.8	85.1	87.2	86.4	85.5	88.4	89.2	90.7	91.7	93.1	95.0	96.2	97.7	99.2
Change in demand		1.3	1.3	2.1	-0.8	-0.9	2.9	0.8	1.5	1.0	1.4	1.9	1.2	1.5	1.5

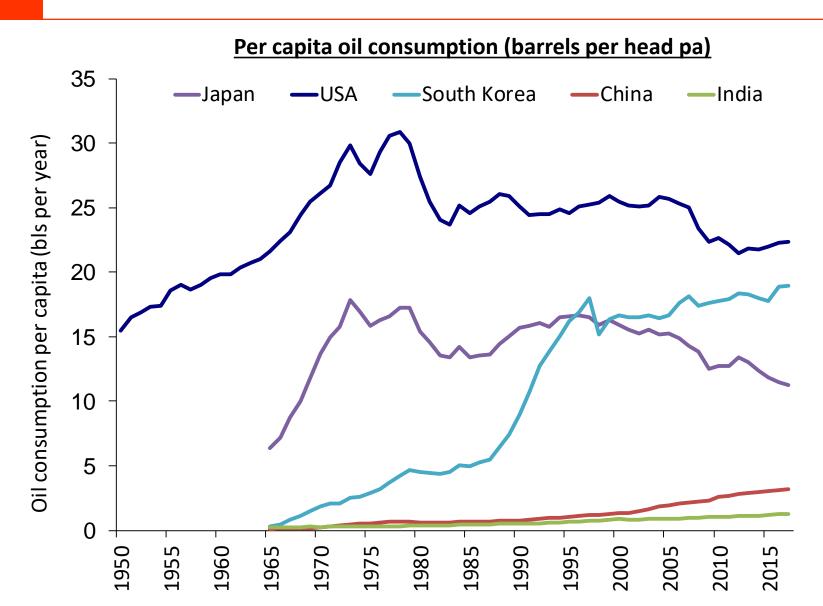
Near term oil demand: China oil consumption boosted by SUVs

China SUV sales as % of total vehicle sales



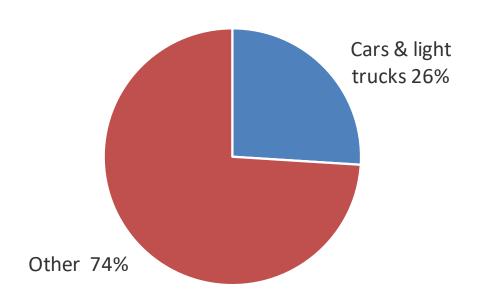
The world oil 'bill' as a percentage of world GDP





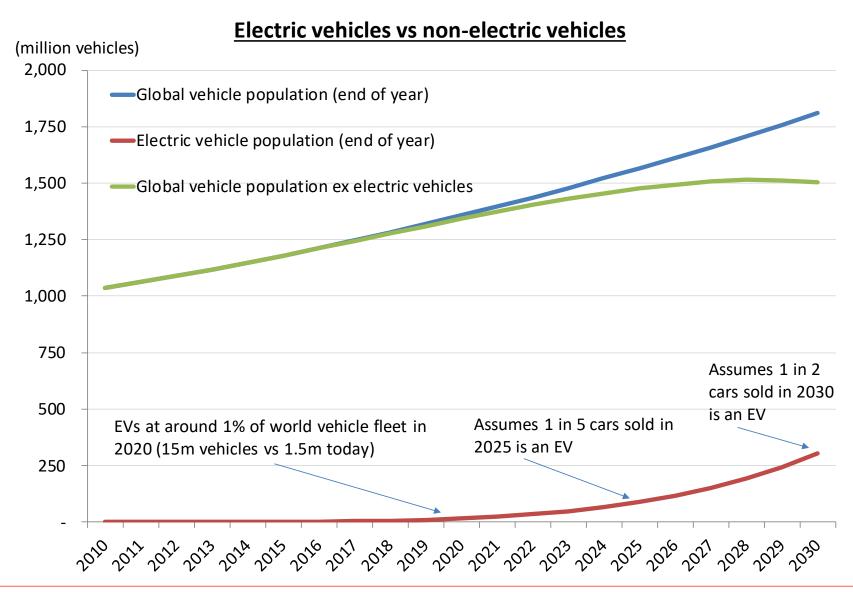
Oil demand: a lot more than just gasoline and diesel demand

Structure of global oil demand



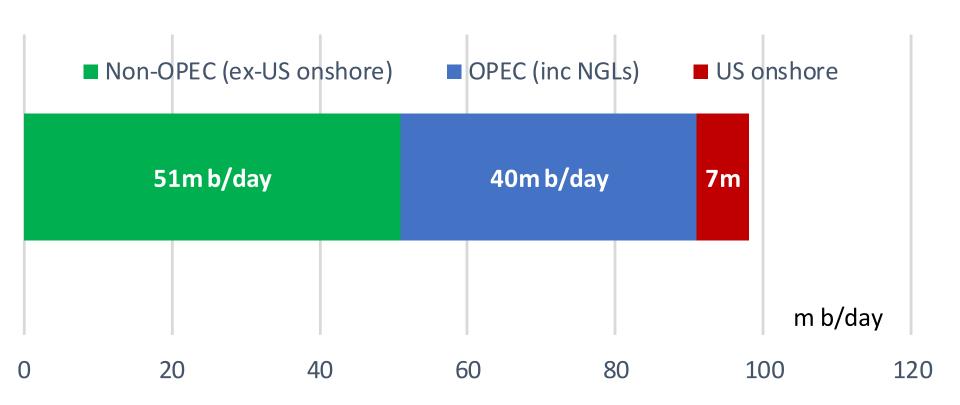
Source of demand	%
Power	6%
Petrochemicals	13%
Other industry	11%
Cars & light trucks	26%
Heavy vehicles	18%
Air travel	6%
Shipping	6%
Rail	1%
Other	13%
Total	100%

Oil demand: vehicle growth is creating an oil demand shock



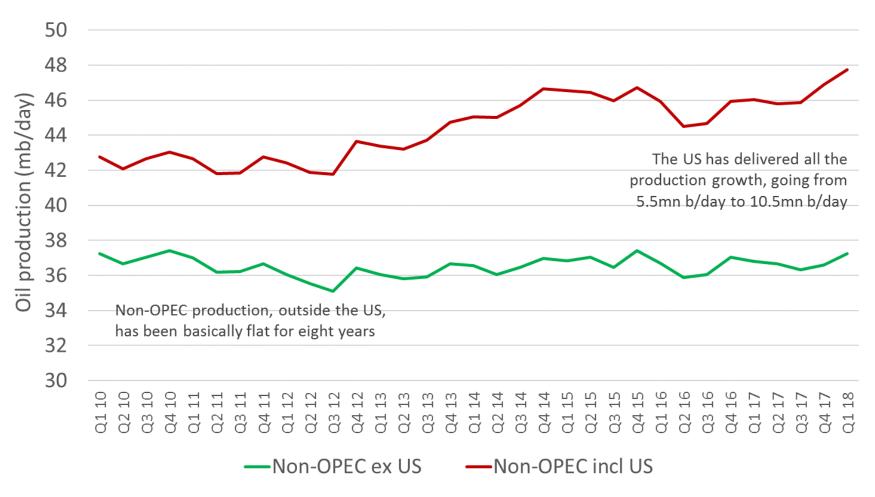
Global oil supply: three main components

Global oil supply (m b/day)



Non-OPEC oil supply: US delivering all the growth recently

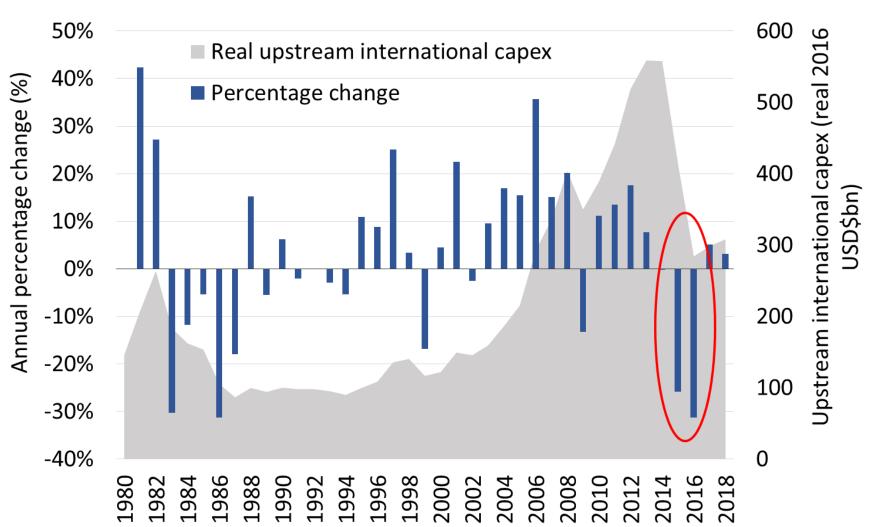
Non-OPEC oil production split between US and other



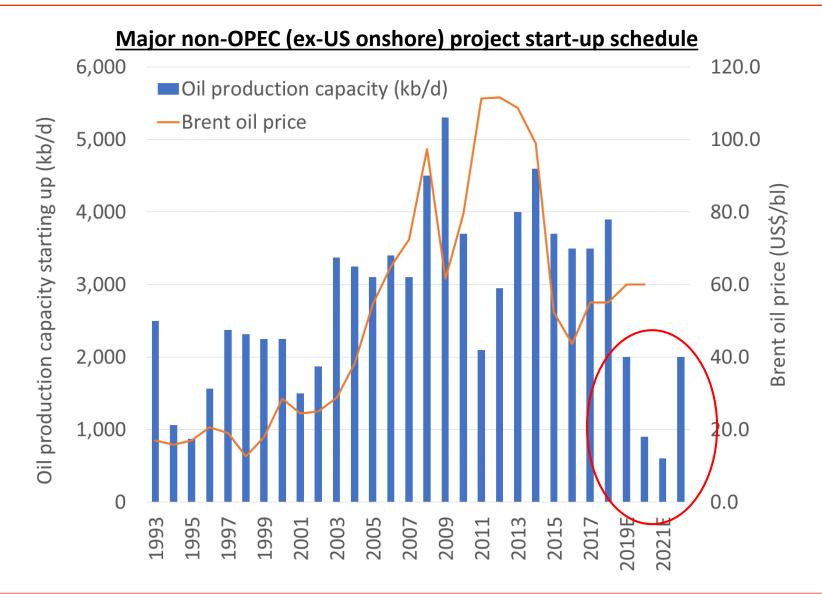
"At no other time in the past 50 years has our industry experienced cuts of this magnitude and this duration."

Paal Kibsgaard, CEO, Schlumberger

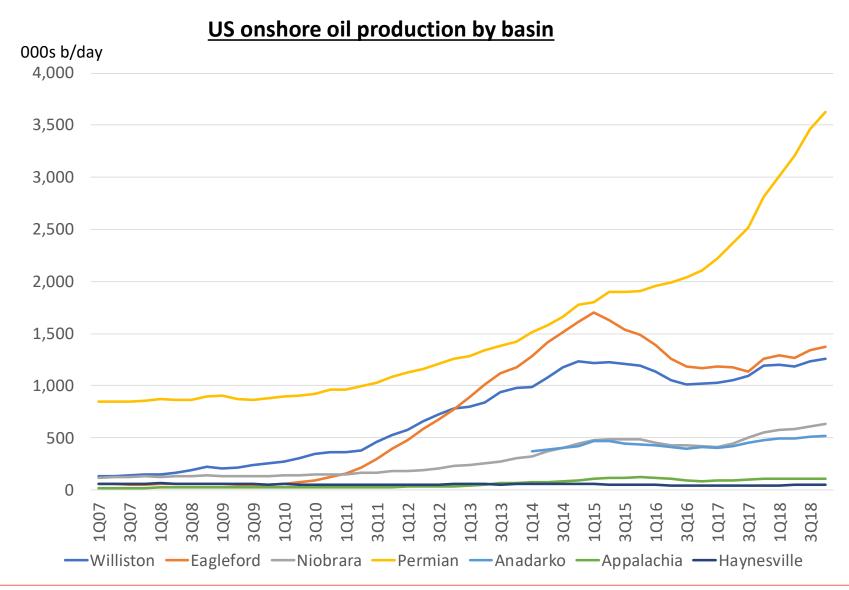




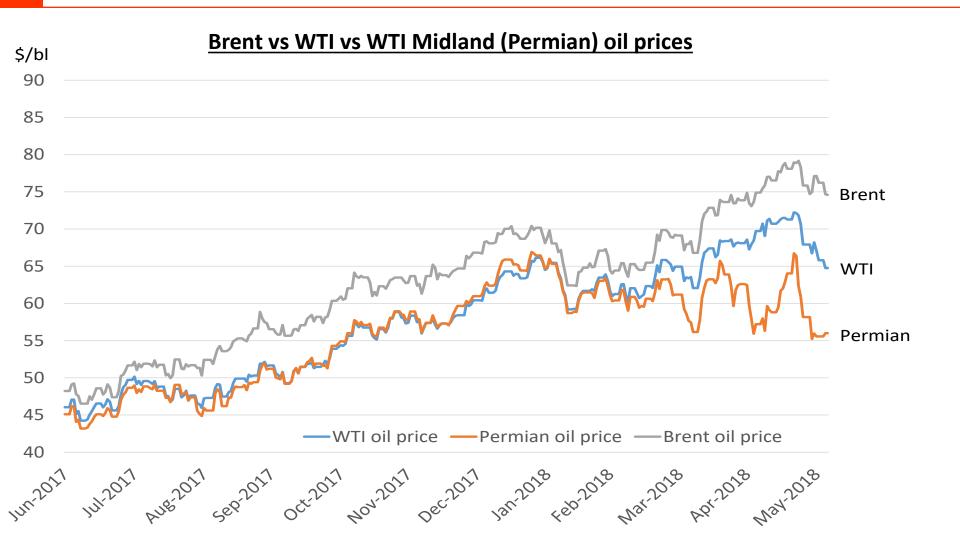
Non-OPEC oil supply (ex-US): production flat to declining



Non-OPEC oil supply: US production dominated by the Permian

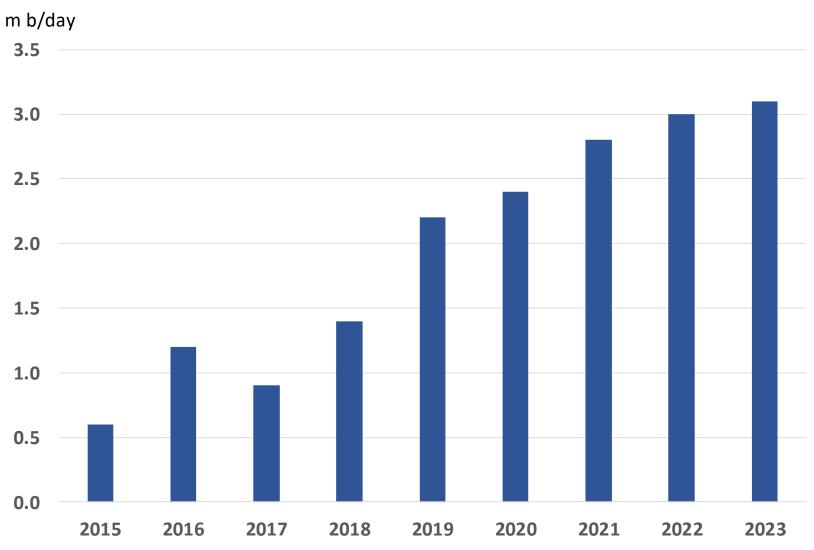


Non-OPEC supply: Permian differentials have widened significantly 16



Non-OPEC oil supply: US shale treadmill challenge grows

Estimated new production needed to keep overall US shale supply flat (m b/day)

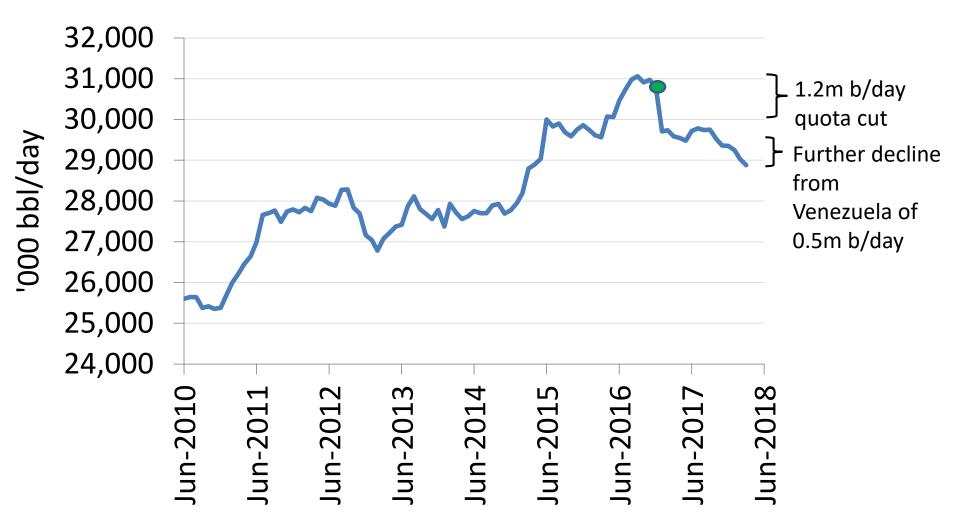


Potential trajectories for US onshore oil production

Oil price	Production change
\$30-40/bl	Declining 0.3-0.5m b/day
\$40-50/bl	Broadly flat
\$50-60/bl	Increasing around 0.6-1.2m b/day
\$60-70/bl	Increasing around 1.2-1.6m b/day

OPEC oil supply: OPEC stayed disciplined with cuts

OPEC oil production (ex Nigeria/Libya)



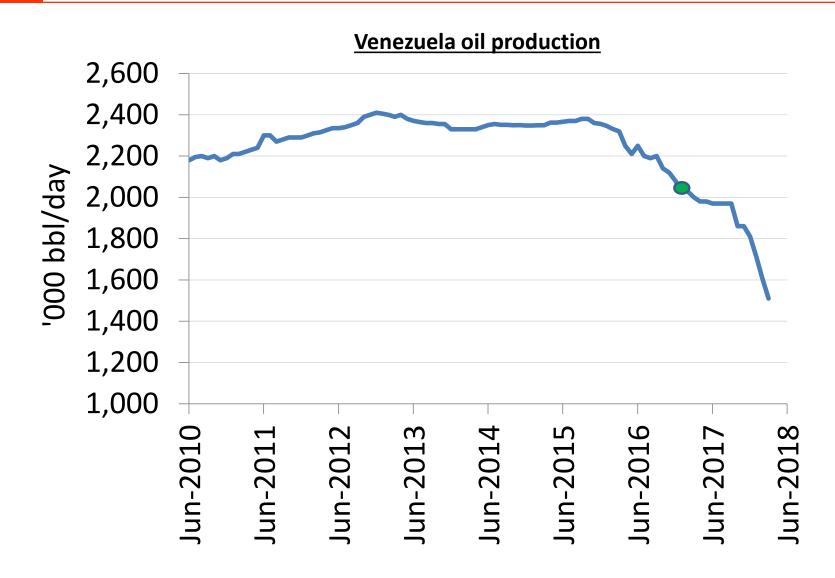
OPEC oil supply: summary of current positions

Oct 2016 Ja		Jan 2017 quota		May 2018		GAM Estima	Extra oil	
(m b/day)	mn b/d	mn b/d	mn b/d	vs quota	Compliance	mn b/d	Change	mn b/d
Saudi	10.54	10.05	10.01	-0.04	108%	10.33	0.28	0.28
Iran	3.70	3.79	3.81	0.02	122%	3.74	-0.05	0.00
Iraq	4.56	4.35	4.48	0.13	38%	4.47	0.12	0.10
UAE	3.01	2.87	2.87	0.00	100%	2.95	0.08	0.08
Kuwait	2.84	2.71	2.71	0.00	100%	2.78	0.07	0.07
Venezuela	2.07	1.97	1.44	-0.53	630%	2.03	0.06	0.00
Angola	1.75	1.66	1.53	-0.13	244%	1.71	0.05	0.00
Algeria	1.09	1.04	1.02	-0.02	140%	1.07	0.03	0.00
Qatar	0.65	0.62	0.60	-0.02	167%	0.64	0.02	0.04
Gabon	0.20	0.19	0.20	0.01	0%	0.20	0.01	0.00
Ecuador	0.55	0.52	0.52	0.00	100%	0.54	0.02	0.02
OPEC-12	31.0	29.8	29.2	-0.58	149%	30.4	0.68	0.59
Nigeria	1.60		1.62	n/a				0.00
Libya	0.42		0.99	n/a				0.00
OPEC-14	33.0	29.8	29.2	n/a		30.4	0.68	0.59
Russia	11.23	10.93	10.97	0.04	87%	11.10	0.17	0.20
Mexico	2.14	2.04	1.90	-0.14	235%	2.09	0.06	0.00
Azerbaijan	0.76	0.72	0.69	-0.04	200%	0.74	0.02	0.00
Khazakhstan	1.65	1.63	1.84	0.21	-940%	1.64	0.01	0.00
Oman	1.01	0.97	1.01	0.03	18%	0.99	0.02	0.00
Others *	1.00	0.95	0.98	0.03	45%	0.98	0.03	0.00
Non-OPEC	17.8	17.2	17.4	0.14	75%	17.6	0.31	0.20
Total OPEC, non-OPEC	50.8						0.99	0.79

^{*}Bahrain, Brunei, Malaysia, Sudan and South Sudan



OPEC oil supply: sharp deterioration from Venezuela



OPEC oil supply: anticipated drop in Iranian supply





OPEC oil supply: decision taken in June 2018 to raise production

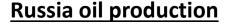
- OPEC have signalled the return of around 0.6m b/day of oil supply in 2H 2018
- Non-OPEC (essentially Russia) looking to add an additional 0.2m b/day of supply

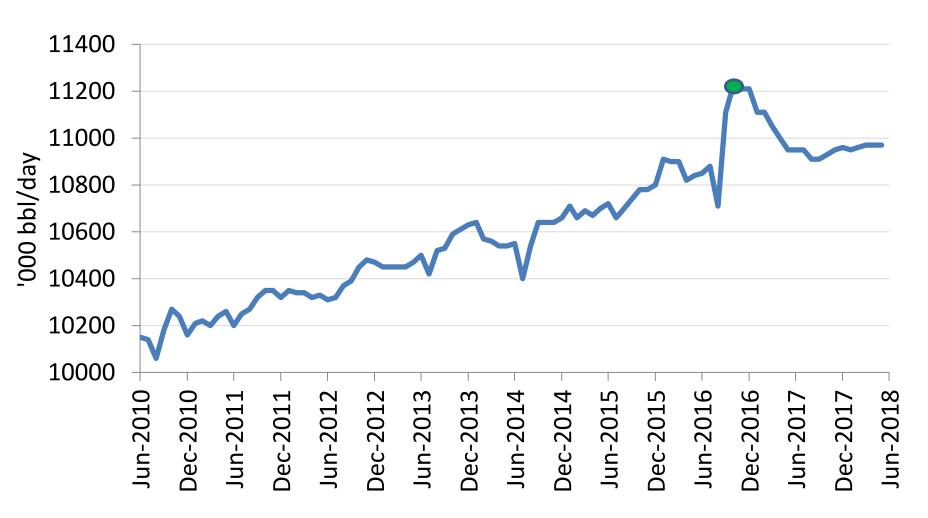
"We need to continue to tread carefully; none of us want to see the return of the kind of volatility that allows pessimism to return to the markets"

"So far in 2018, the pace of investment has gradually picked up, but we are still not seeing enough robust investment in long-cycle projects.... Every effort should be made to avoid a potential supply gap that could present a future serious challenge."

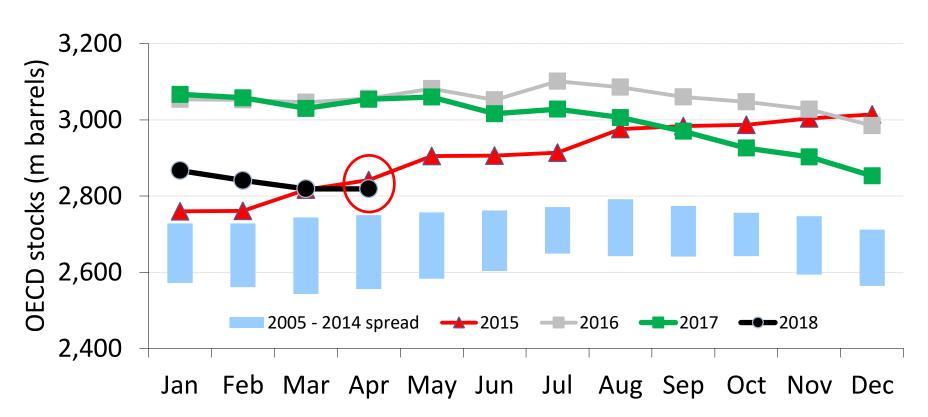
OPEC, June 22 2018

OPEC oil supply: Russian production never really fell





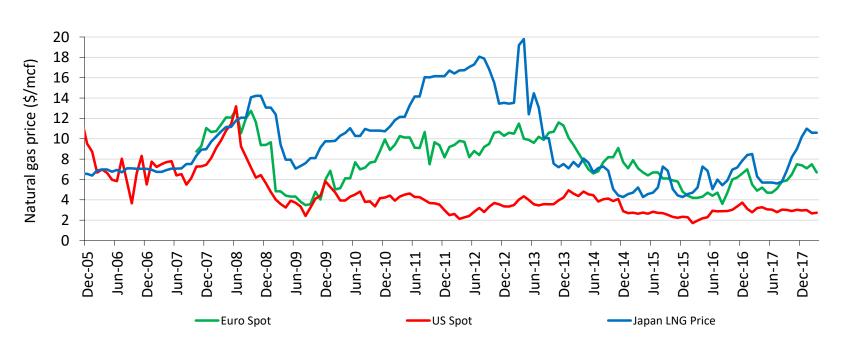
OECD oil inventories (million bbls)



Natural gas: summary views

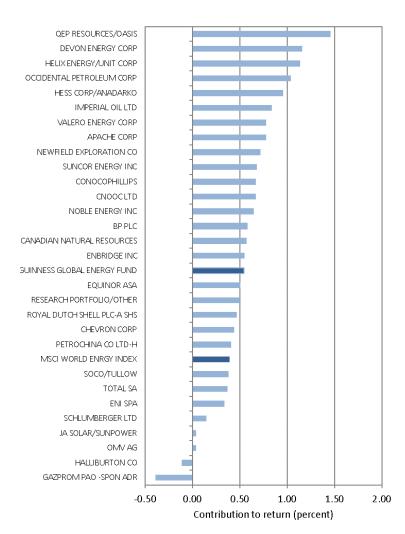
- The gap between US and international gas prices widened in 2017
- US continues to see high levels of new supply, economic at \$3/mcf, from the Marcellus
- New US LNG export facilities starting up over next three years, with major wave in 2019

Global natural gas prices (US\$/mcf)



Indicative fund contribution, per position, Q2 2018

Q2 2018 indicative contribution



Q2 2018 Fund performance (USD) +15.92%
 vs MSCI World Energy Index (USD) +12.96%

• Stronger performers in Q2 2018:

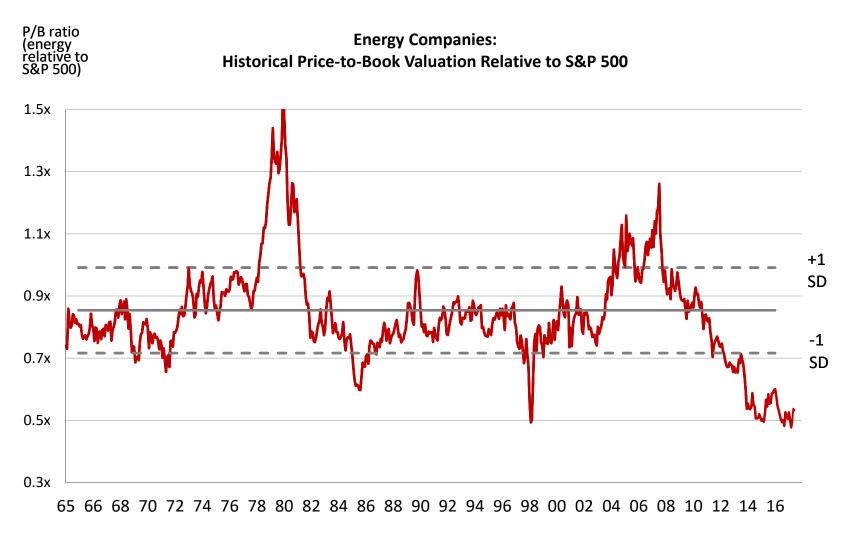
- US E&Ps
- US refining
- Canadian integrateds

• Weaker performers in Q2 2018:

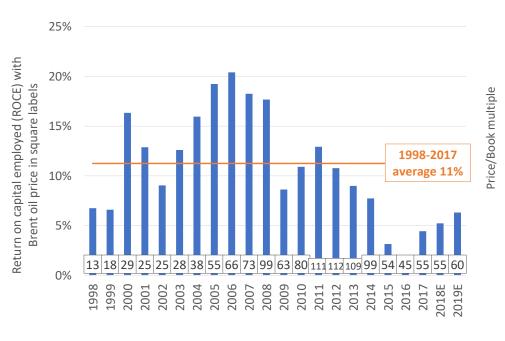
- Russian exposed companies
- Large diversified service companies

Energy equities: relative price to book still close to extreme low

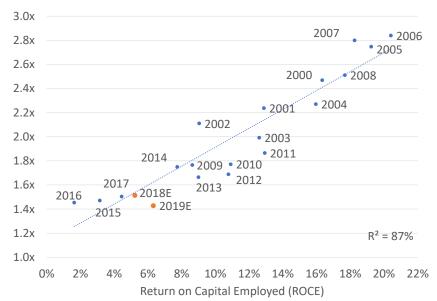
Energy companies: historic price to book valuation relative to S&P 500



ROCE of current Guinness Atkinson Energy portfolio



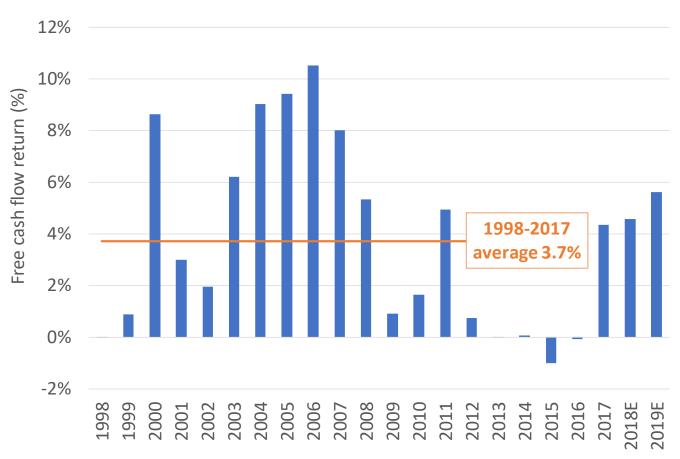
ROCE vs P/B multiple for Guinness Atkinson Energy portfolio



Forecasts are inherently limited and cannot be relied upon



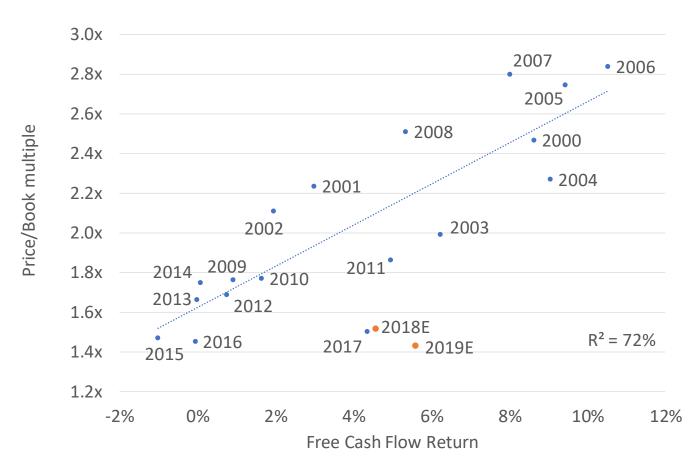
FCF return of current Guinness Atkinson Energy portfolio



Forecasts are inherently limited and cannot be relied upon



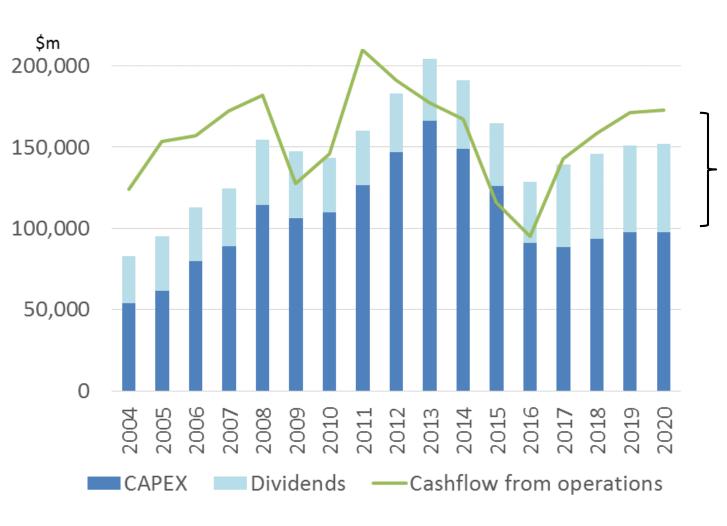
FCF return of current Guinness Atkinson Energy portfolio



Forecasts are inherently limited and cannot be relied upon

Energy equities: super-major FCF generation improving

Super-majors operating cash flow versus capex and dividends

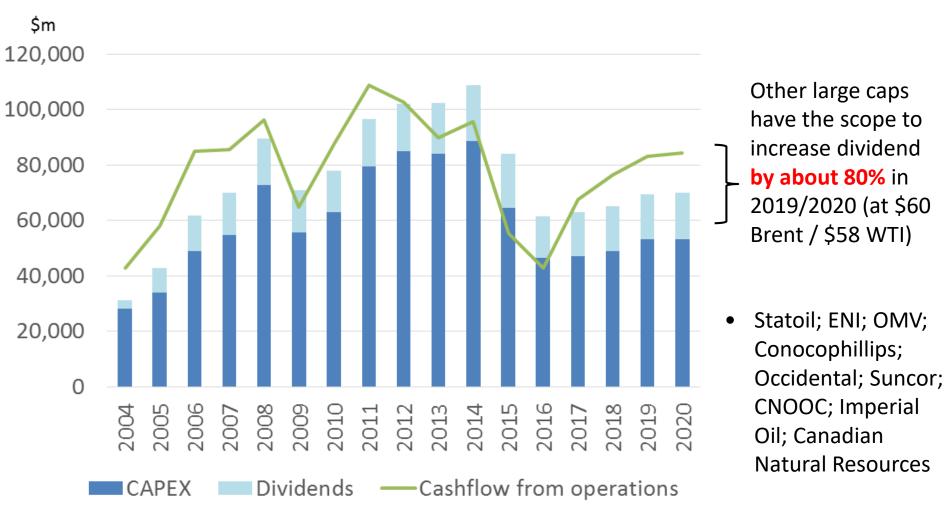


Super-majors have the scope to increase dividend by about 40% in 2019/2020 (at \$60 Brent / \$58 WTI)

Exxon; Chevron;
 BP; Royal Dutch
 Shell; Total

Energy equities: other large-cap FCF generation improving more

Other large caps operating cash flow versus capex and dividends



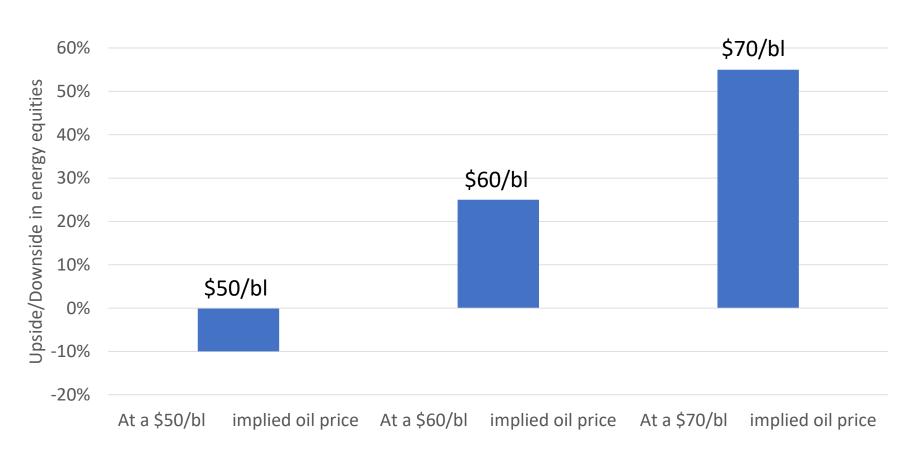
Fund positioning: key themes in the fund for 2018

Theme	Example holdings	Weighting (%)
Expanding free cashflow yields from large-cap oil & gas	SUNCOR Canadian Natural	29.8%
North American shale oil & gas growth	PETROLEUM NEWFIELD	25.8%
Growing return on capital from oil & gas majors	Chevron bp:	18.2%
Emerging market natural gas demand growth	Petro China	11.2%
Strong refining margins resulting from global GDP growth	VALERO OMV	7.0%
Deleveraging balance sheets	TULLOW EnQuest	2.5%
Growth in global solar market	JA SOLAR	1.5%
Other (incl cash)		3.9%

Top 10 holdings as of 06/30/2018: 1. Enbridge Inc 3.96% 2. Canadian Natural Resources 3.87% 3. Apache Corp 3.77% 4. Devon Energy Corp 3.66% Anadarko Petroleum Corp 3.65% 6. Noble Energy Inc 3.65% 7. Newfield Exploration Co 3.62% 8. ENI SpA 3.62% 9. Royal Dutch Shell PLC 3.59% 10. Suncor Energy Inc 3.58%



Estimated upside/downside for Guinness Atkinson energy portfolio (2 year view)



Fund and index performance, as of June 30, 2018

	Q2 2018	1 Year	5 Years*	Since Inception (June 30, 2004)*
Global Energy Fund	15.92%	29.83%	-0.05%	7.39%
MSCI World Energy Index	12.96%	25.03%	2.93%	7.03%
S&P 500	3.43%	14.36%	13.40%	8.63%

Expense ratio: 1.62% (gross); 1.45% (net) *Periods over 1 year are annualized returns

Performance data quoted represents past performance; past performance 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. Performance data current to the most recent month end may be obtained by calling 800-915-6566 and/or visiting www.gafunds.com

GUINNESS ATKINSON

Single sector	Companies engaged in the production and distribution of energy (oil, natural gas, coal, alternative energy, nuclear and utilities)
High conviction	Equally weighted, concentrated portfolio (30 positions)
Unconstrained	No reference to index
Global	Diversified globally
Investment type	Listed equities (long-only)
Investment objective	Long-term capital appreciation

Fund manager biographies







Timothy Guinness

- Executive Chairman and Chief Investment Officer of Guinness Atkinson Asset Management
- Portfolio manager of the Investec Global Energy Fund from November 1998 to February 2008
- Co-founder of Guinness Flight Global Asset Management and, after its acquisition by Investec, chairman of Investec Asset Management until March 2003
- Graduated from Cambridge University in 1968 with a degree in Engineering. After obtaining an MBA at MIT, worked for 10 years as a corporate financier

Will Riley CA

- Joined Guinness Atkinson Asset Management in 2007
- Company valuation expert for PricewaterhouseCoopers 2000-2007
- Qualified as a Chartered Accountant in 2003
- Graduated from Cambridge University with a Masters degree in Geography in 1999

Jonathan Waghorn

- Joined Guinness Atkinson Asset Management in 2013
- Co-portfolio manager of the Investec Global Energy Fund from February 2008 to May 2012
- Co-head of energy equity research at Goldman Sachs from 2000-2008
- Drilling engineer in Dutch North Sea for Shell



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Jonathan Waghorn jonathan.waghorn@gafunds.com +44 (0) 20 7222 3457

14 Queen Anne's Gate

London SW1H 9AA

For your protection, calls to these numbers may be recorded

Guinness Atkinson Asset Management

- Guinness Atkinson Asset Management: founded in 2003, along with UK sister firm Guinness Asset Management
- Four core areas of expertise: Global Equities, Energy, Asia & Financials
- Guinness Atkinson Group AUM (at June 30, 2018): \$1.7bn
- Group staff of 30, including 14 investment professionals
- Company is 100% owned by employees

Disclosure

Opinions expressed are subject to change, are not guarantee and should not be considered investment advice.

The Fund's holdings, industry sector weightings and geographic weightings may change at any time due to on-going 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. References to other mutual funds should not be interpreted as an offer of these securities.

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 effect on the funds holdings.

While the fund is no-load, management and other expenses still apply. Please refer to the prospectus for further details.

The Fund's investment objectives, risks, charges and expenses must be considered carefully before investing. The statutory and summary prospectus contains this and other important information about the investment company, and it may be obtained by calling 800-915-6566 or visiting gafunds.com. Please read it carefully before investing.

You cannot invest directly in an index.

Fund holdings & sector allocations are subject to change and are not recommendations to buy or sell any security.

Diversification does not assure a profit nor protect against a loss in a declining market.

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