





25th Jun 2013 President Obama identifies climate change as his legacy issue in a speech at Georgetown University



9th Jun 2015

Obama, Merkel & Hollande push for a strong goal in the Paris Agreement



Tiger Mums tamed

NOTEBOOK, PAGE 12



Why is Isis winning?

low coalition air surredeter the jihadis - BIG READ, PAGE 11 Wired workers

Using wearable gadgets to keep tabs on staff - PAGE 14

G7 in historic accord to phase out fossil fuel emissions this century

\$100bn pledge to poor countries reaffirmed • Huge challenge for energy companies

STEFAN WAGSTYL - KRON

The Group of Seven industrial powers has agreed that the world should phase out fossil fuel emissions this century, in a move hailed as a historic decision in the fight against climate change.

G7 leaders meeting in Bayaria, Germany, said that in line with scientific findings, "deep cuts in global greenhouse gas emissions are required with a decarbonisation of the global economy over the course of this century".

The leaders of the US, Germany, France, the UK, Japan, Canada and Italy said they supported cutting greenhouse gases by 40-70 per cent by 2050 from 2010 levels - the first time they have backed such a precise long-term target.

Angela Merkel, the German chancellor, said that the cuts would have to be at the upper end of this target because "40 per cent is clearly not enough".

The leaders also reaffirmed a pledge to mobilise \$100bn a year from public and private sources by 2020 to help poorer nations tackle climate change.

Climate campaigners said the deci-



Brief

- ► Camero -turn on 'Brexit' vote David Came has retracted a threat to ministers that they w have to guit if they wanted to eave the EU, scuppering an apparent discipline on Tory eurosceptics. -- PAGE 3: MENT, PAGE 12: GIDEON RACHMAN, PAGE 13
- Apple launches music streaming service Apple has made its biggest push into digital music since it began selling downloads on iTunes 12 years ago, launching a streaming service that will compete with the likes of Spotify. - PAGE 17
- Ex-Centrica chief to lead oil and gas push Former Centrica chief Sam Laidlaw is to take the helm of a private equity push into oil and gas that is backed by Carlyle and CVC Capital Partners and is to spend up to \$5bn .- PAGE 17: LOMBARD, PAGE 22; NORTH SEA DEALS, PAGE 23
- Relief as Tories shelve paid leave drive The prime minister's plans to revive his push to give bigger companies' employees three days of paid leave each year for voluntary work are being quietly axed, to the relief of some business leaders .- PAGE 2
- Bids invited for military fire service Companies including Serco, Babcock and Capita have been invited to bid to run the military fire and rescue services, the latest Ministry of Defence outsourcing deal in its search for savings .- PAGE
- Syngenta rejects fresh Monsanto move US agricultural seeds and chemicals company Monsanto's latest move in its pursuit of a "tax inversion" acquisition of Syngenta was rejected as "inadequate" by the Swiss group. - PAGE 17

....and up to 70% cuts by 2050, 34 years from now

12th Dec 2015

A clear signal in the Paris agreement: decarbonisation, as soon as humanly possible



3rd Sep 2016

US and China announce they have ratified the Paris Agreement at G20 Summit





Adopted by every independent nation on the planet



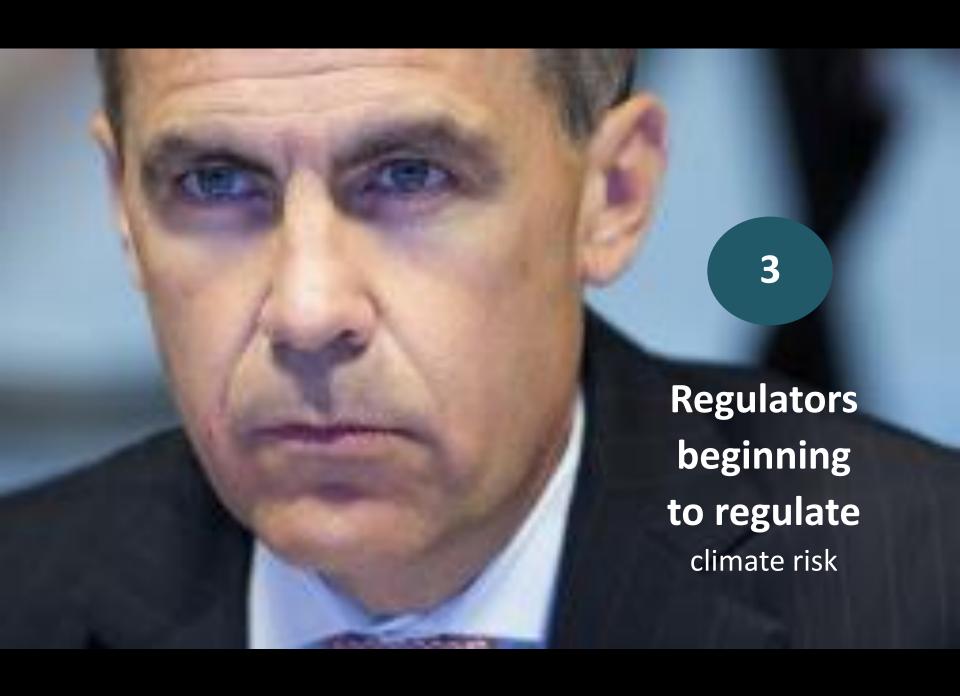








e.g. Investors worth £350 billion pledged to pressure FTSE companies to go 100% renewable

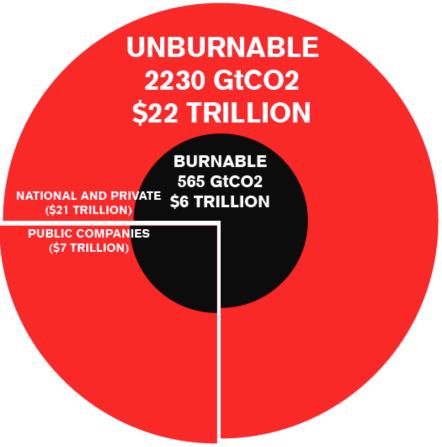


11th Jul 2011

The "carbon bubble" of "unburnable carbon" can lead to "stranded assets"



Proven fossil fuel reserves: 2,795 GtCO2 \$28 trillion





13th Sep 2015

Bank of England speaks out on climate risk to capital markets and stranded assets



4th Dec 2015

Launch of G20 Financial Stability Board's Taskforce on Climate-Related Financial Disclosures



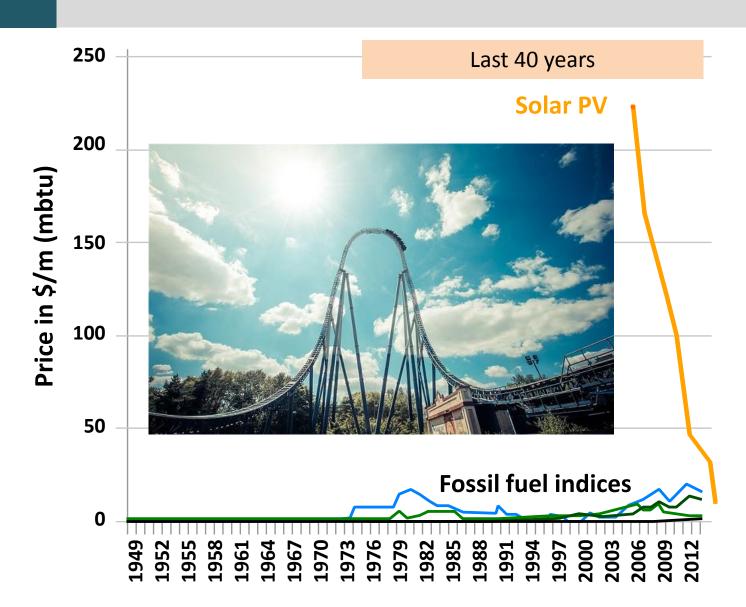
7th Sep 2016

Suncor Energy seeks permission to abandon some oil-sands assets THE WALL STREET JOURNAL.



Disruption moving fast

Forty years in fossil-fuel prices the "Terrordome" since 2006





12th May 2016

Nissan announces residential battery product in Europe: September launch



6th June 2016

Nissan powers UK EV factory with solar and wind



20th July 2016

Master Plan, Part Deux: Elon Musk's latest on his vision



30 Mar 2016

Futurist Ray Kurzweil predicts solar industry dominance in 12 years



Solar doubles every 2 years

Seven doublings since 2000...

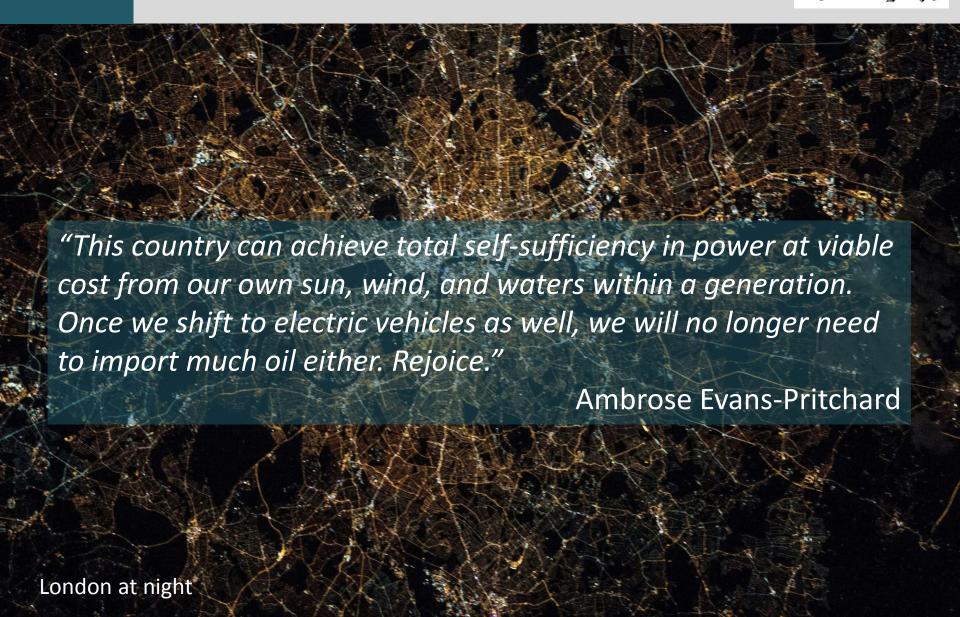
...to 2% of global electricity

...six more doublings

...to 100% of global energy

10th Aug 2016

Holy Grail of energy policy in sight as battery technology smashes the old order The Celegraph







Until 1st Dec 2014

First major utility business model U turn



23rd Sep 2015

"Coal is in terminal decline" Goldman Sachs

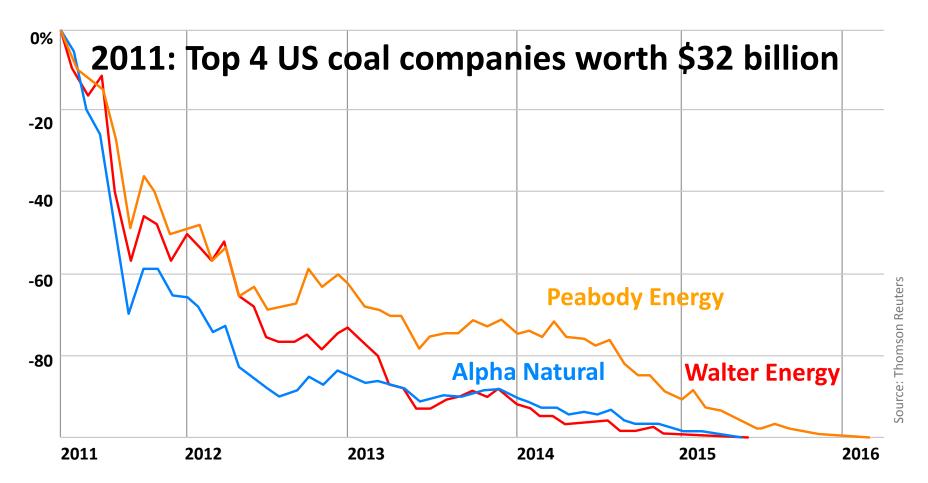








Peabody Energy, no. 1 US coal miner, goes bankrupt



2nd March: JPMorgan stops direct financing of new coal mines and new coal plants in rich nations



but....

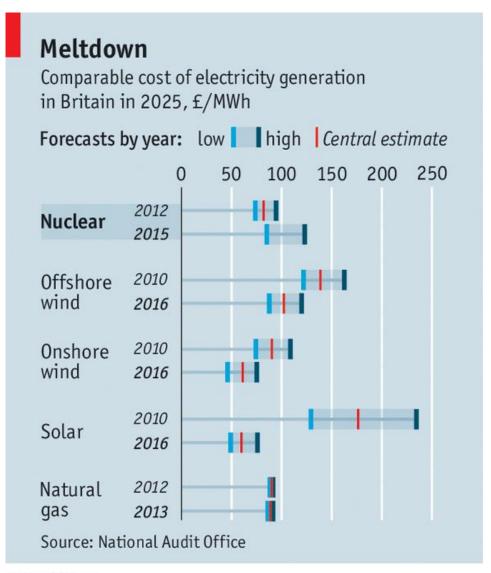
EDF board votes to go ahead with Hinkley Point C



Hinkley Pointless

Britain should cancel its nuclear white elephant and spend the billions on making renewables work





19th Aug 2016

Huge reversal in opinion on nuclear versus renewables among UK business leaders



Mass protest against Sino-French nuclear waste plant threatens Chinese national nuclear plans



Chinese public overwhelmingly backs renewables push: 92% willing to pay more for green power





27th May 2016

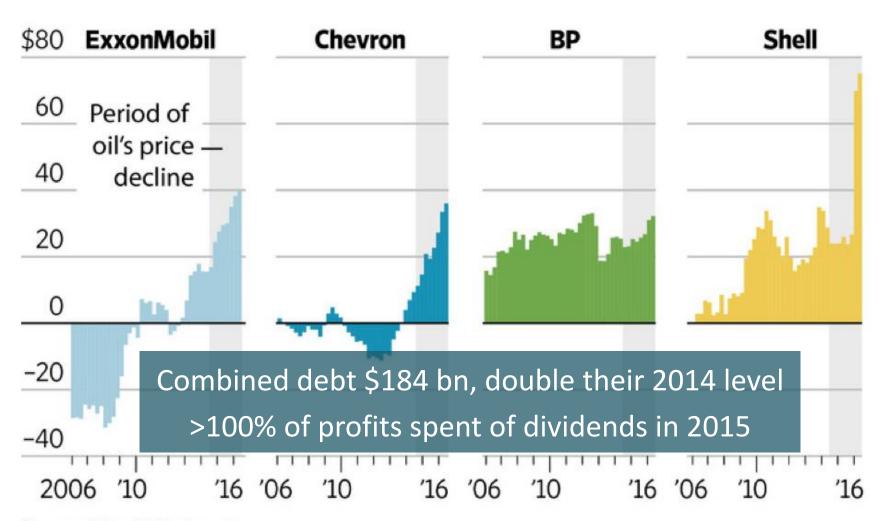
The long twilight of the big oil companies

FINANCIAL TIMES



Big oil companies binge on debt

THE WALL STREET JOURNAL.



Source: Wood Mackenzie

Oil industry faces huge worker shortage





15th July 2016 \$46

Major LNG projects on the rocks as competition escalates





25th July 2016 \$43

Dismal delivery puts big oil and gas energy projects at risk FINANCIAL TIMES



29th July 2016 \$41

Oil giants find there's nowhere to hide from doomsday market Bloomberg



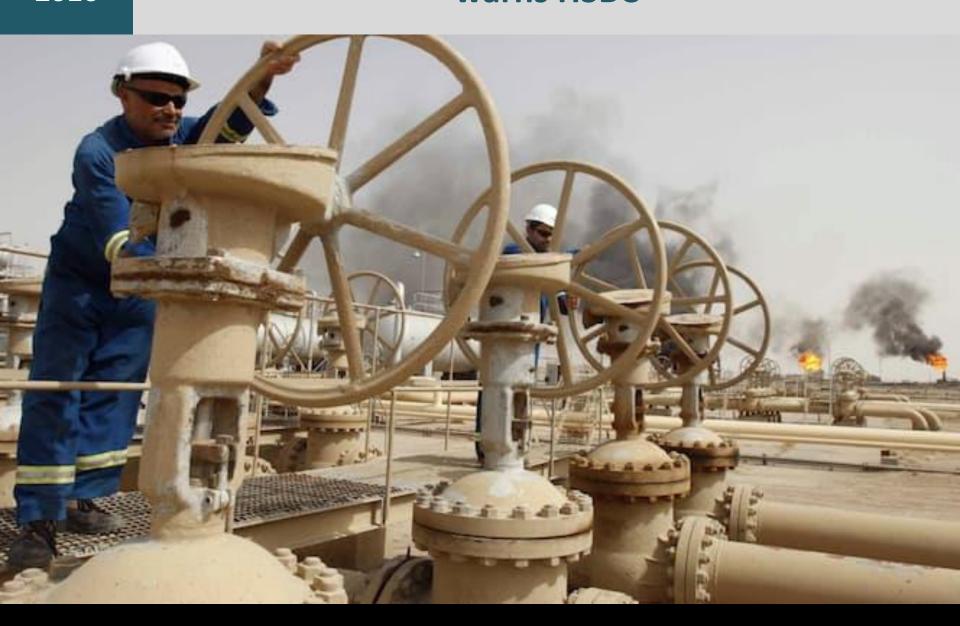
Oil Discoveries at 70-Year Low Signal Supply Shortfall Ahead

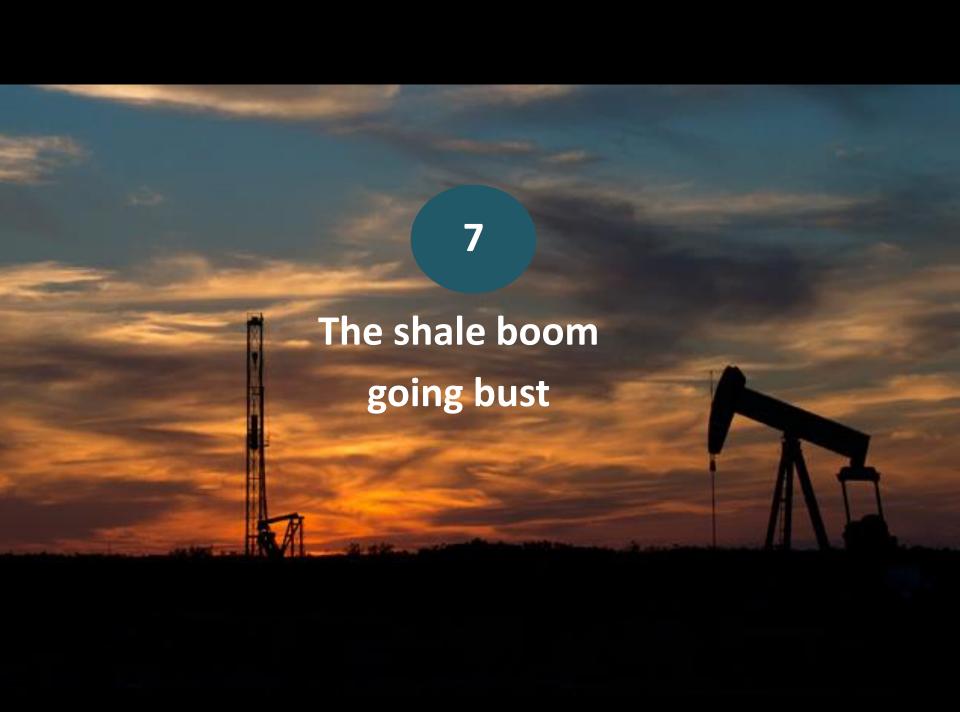
Bloomberg



7th Sep 2016

Oil market faces supply crunch within a year, warns HSBC





11th Apr 2011 \$126



17th Jun The coming shale bust? 2015 IOU now well over \$200 bn Bloomberg \$60 The Shale Industry Could Be Swallowed By Its Own Debt

Bottom feeding private equity begins to move in on distressed oil assets as bankruptcies reach 90



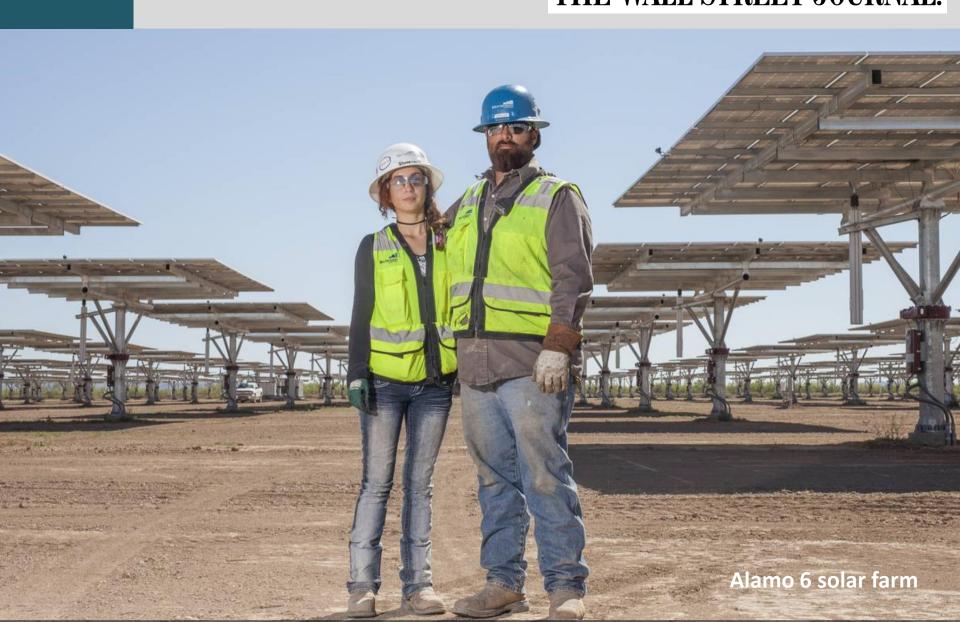
10th Feb 2016 \$30

It will take more than an oil rally to restart the US shale boom



21st Apr 2016

As Oil Jobs Dry Up, Workers Turn to Solar Sector THE WALL STREET JOURNAL.



2nd June 2016

Scottish parliament bans fracking



24th June 2016

Germany bans fracking after years of dispute



Victoria becomes first Australian state to permanently ban fracking and coal seam gas



23rd Aug 2016

California may cap power suppliers' gas use after massive leak

Bloomberg



23rd May 2016

Fracking gets go-ahead in UK for first time since 2011



UK shale: "All households near fracking sites set to get money paid straight into banks"

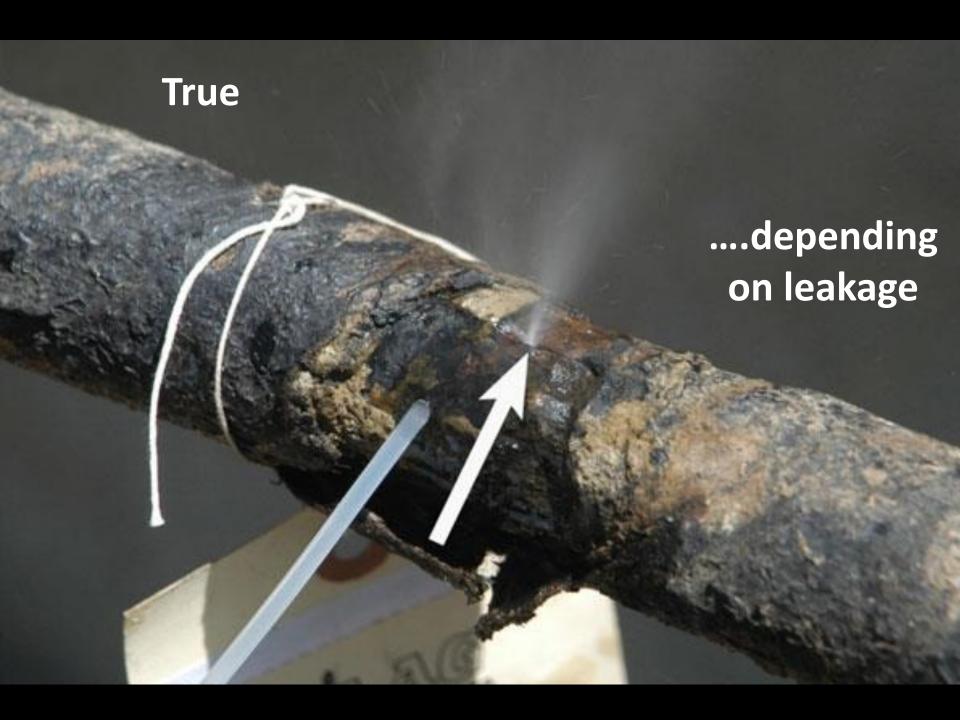




The core oil and gas climate argument....



....that burning gas is less bad for global warming than burning coal



29th Feb 2016 EPA Chief: Methane emissions from oil and gas "substantially higher than we thought"

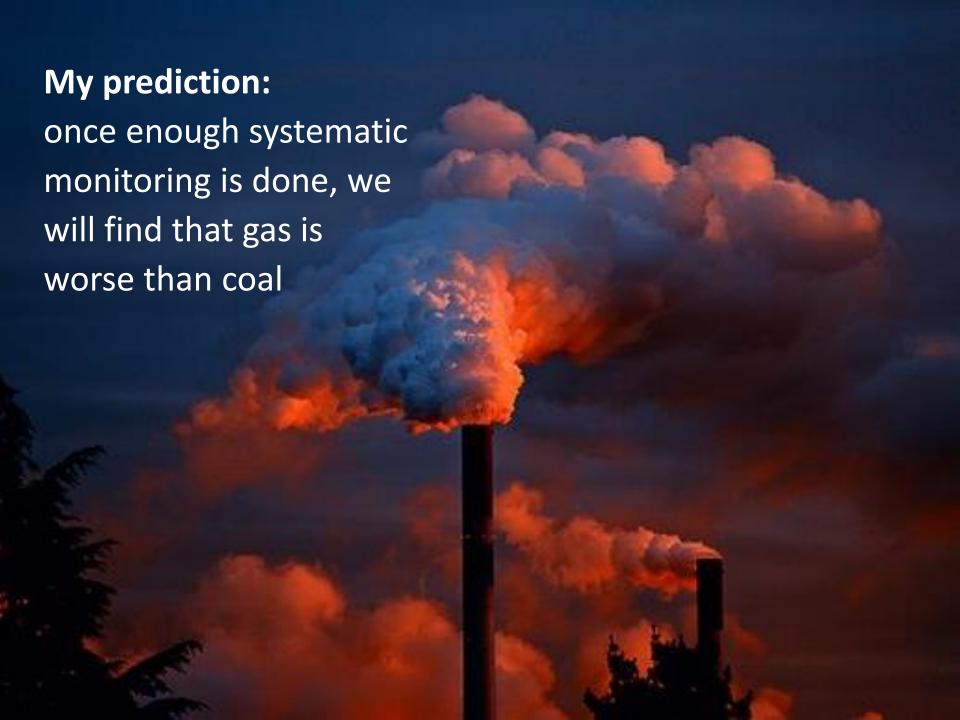


28th Apr 2016 The U.S. oil and gas boom is having global atmospheric consequences, NOAA reports



In U.S. methane hot spot, researchers pinpoint sources of 250 leaks using airborne sensors







July 2012

The origin of the divestment movement





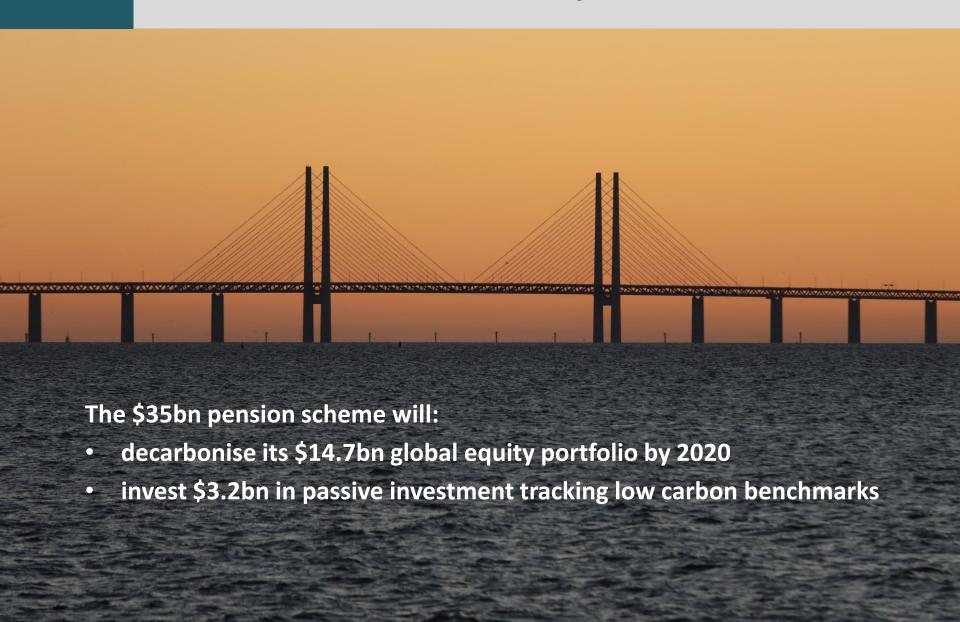






18th July 2016

Swedish pension fund AP4 makes biggest divestment move of any institution to date



£500m fund drops all oil investments seeing gloomy outlook for sector



"Even the Saudis appear to know the fossil fuels game is up"

Stephen Bailey co-manager, Liontrust Macro Equity Income fund

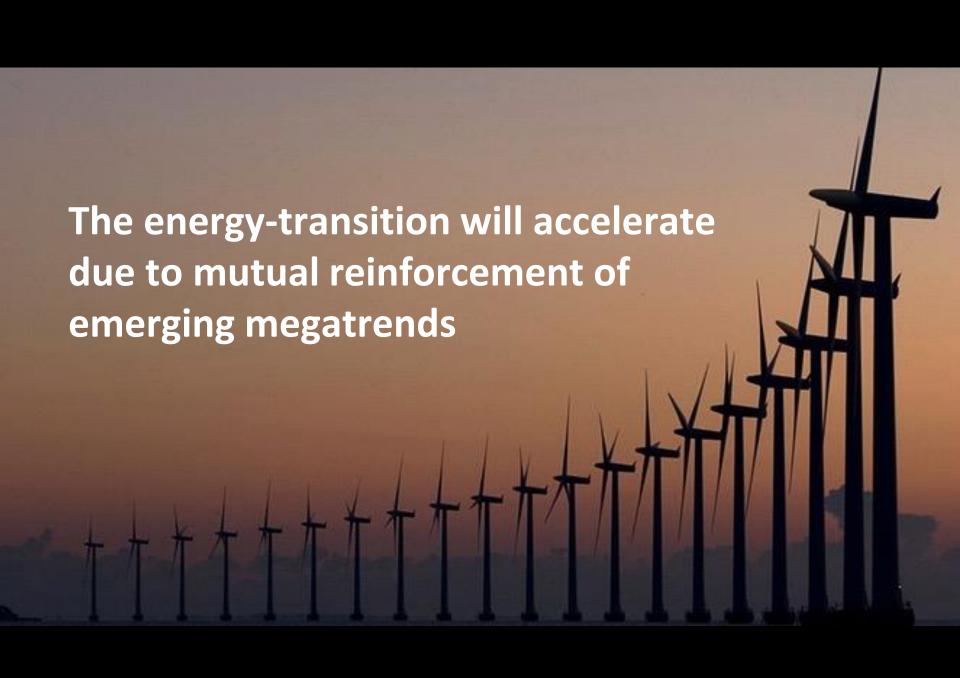


16th June 2016 Volkswagen seeks redemption from fraud with EVs, robo-taxis, and a ride sharing network



Conclusions









Those with vision who can move fast are best placed to profit / save the world

Thank you

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