



E.ON MarketReport  
September 2012

## Overview of August 2011 – August 2012

Welcome to the September edition of the E.ON MarketReport, where we look in detail at the energy markets from August 2011 to August 2012.

This report provides an historical 12 month overview of the power, gas, oil, coal and carbon markets. In addition the E.ON Market Report contains month to month commentary and price movements for each of these individual markets.

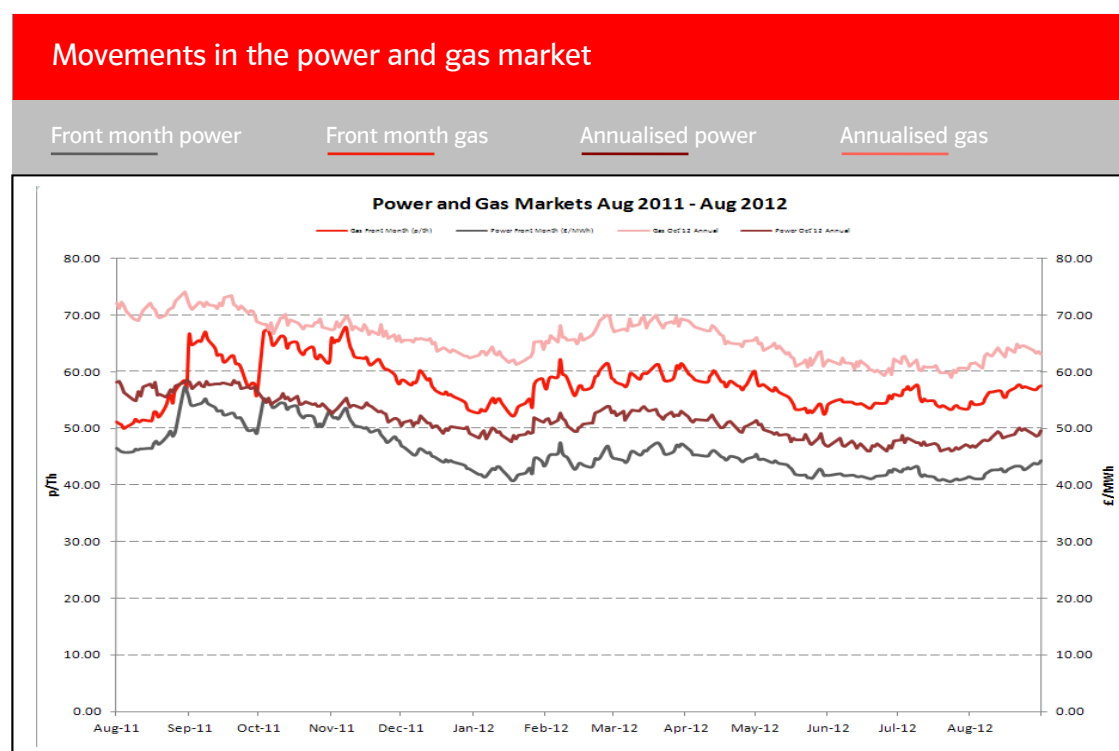
### Last Month in Brief (August 2012)

Both UK gas and electricity prices gained on average by around 5% throughout August driven by the continued strength of Brent Crude Oil, which has increased by around 18% since the start of July.

The main drivers behind Brent's strong performance were optimistic reports from the US Federal Reserve around the US economy, renewed geopolitical tension between Iran and the west and lower North Sea Oil production, which is curbing supply.

Overall annualised prices are still around 14% lower for power and 11% lower for gas compared to prices this time last year.

## Power and gas



### Change in prices from August 2011 – August 2012

The average front month power contract price in August 2012 was approximately 11% lower than August 2011.

The average front month gas contract price in August 2012 was approximately 7% higher than August 2011.

The average Oct'12 annualised power price in August 2012 was approximately 14% lower than August 2011.

The average Oct'12 annualised gas price in August 2012 was approximately 11% lower than August 2011.

## Monthly movement

Front month power contract prices increased by approximately 7% over the course of August, between a range of £41.1 - £44.3/MWh

Front month gas contract prices increased by approximately 5% over the course of August 2012, between a range of 54.15p - 57.65p/therm

Oct'12 annualised power prices increased by approximately 6% over the course of August 2012, between a range of £46.68 - £50.12/MWh

Oct'12 annualised gas prices increased by approximately 3% over the course of August 2012, between a range of 60.66p - 64.94p/therm

## Month by month review

August 2012	Oct-12 annualised power contracts gained by around 6% over the course of the month, driven mostly by strong Brent Oil and rising European Carbon. Brent Crude continued to play a key role in driving prices and during August supported most European energy markets. Off-setting the gains were expectations of higher LNG availability within Europe and the UK during September. This is due to lower demand from Asian where prices have crashed.
July 2012	UK gas prices started to show disconnect from Brent Crude Oil, which is usually a key driver for longer dated gas contracts. A decrease in demand within the Asian market for LNG has lowered the price and offered downward support to UK gas prices. The resolution of Norway's off-shore gas and oil production strike allowed prices to move down from some initial gains that were factored in when the strike first escalated.
June 2012	Against a backdrop of comfortable fundamentals in regard to supply and demand, and continued macroeconomic concerns within the Euro zone, UK power and gas prices continued to be traded down throughout the month. Weakness in crude oil, which hit an 18-month low in June has continued to be the main driver for gas and power. Some resistance was met for near-term front month contracts, as volatile gas flows from Norway and wet weather lifted the price.
May 2012	Discussions over Greece and Spain have caused macroeconomic sentiment to sink across Europe and the UK gas and power curves were no exception as front-month and annualised contracts saw month-on-month losses. On the near curve prices fell in line with lower gas demand due to warmer temperatures and high gas flows from Norway, while further out risks to the UK as a result of the Euro zone crisis were highlighted by the Bank of England as it cut its growth forecast for the UK this year from 1.2% to 0.8%.
April 2012	UK gas and power prices traded down throughout April driven primarily by lower oil, carbon and coal prices. News that the UK has officially entered a double dip recession added to the weak macroeconomic outlook that had already been formed and was applying further downward pressure to most fuel markets. Additionally, energy markets reacted to optimistic news that Japan could restart nuclear generation, which would help ease global demand for LNG.
March 2012	Movements within the Brent Crude Oil market were once again the key driver behind UK gas and power prices. The benchmark oil contract has gained around 17% during 2012 and held firm throughout most of March within a tight \$4.24 range. There were some bearish factors, including reports that Japan may look to re-start some of their nuclear generation,

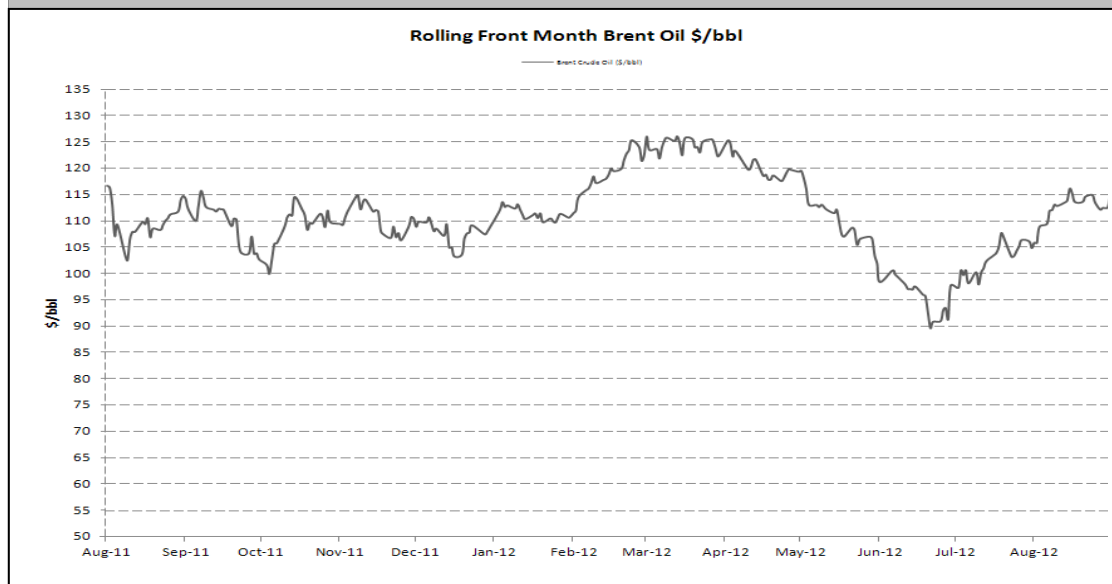
which would ease global demand for LNG. Overall prices were generally trading sideways resulting in relatively flat movements over the course of the month.

- February 2012** Gas and electricity prices were buoyed throughout February by increased demand due to colder than average seasonal temperatures, additional risk premium due to low gas storage and LNG levels and sustained gains within the Brent Crude Oil market.
- January 2012** Mid-January prices were lifted on expectations of colder weather; however the gains were short-lived as bearish fundamental sentiment returned to the market. Comfortable supply availability for both power and gas filled the market with confidence and even during the cold snap, demand was not troubling the system or causing a shortage. Further out on the curve, bearish signals from the Crude oil market helped prices soften despite tensions between Iran and the US creating some within month volatility.
- December 2011** UK gas and electricity prices levelled out during December, following 3-months of steady decline. Reasons for the hold up in prices include increased day-ahead demand and increased buying interest from financial speculative traders. Despite this bullish activity prices were reluctant to move much higher, as fundamentals still remain overly bearish with comfortable supply levels and relatively low seasonal demand.
- November 2011** Seasonally mild temperatures throughout most of November kept demand levels lower than usual for the time of year. The subdued demand allowed gas storage facilities remain full and this boosted confidence in the market for the near-term supply outlook.
- October 2011** As we enter the first month of winter'11 the UK supply system coped well with temperature related demand and as a result, trader confidence was given a boost. Prices moved down amid this healthy supply/demand balance. Further downward support was given by ongoing debt concerns within the Euro zone potentially impacting energy demand over future years.
- September 2011** Throughout September prices moved down, as the UK was well supplied with gas and demand from both UK and Europe was subdued due to higher than average seasonal temperatures. Lower gas prices reduced the generation costs for producing electricity, as such UK power prices moved down in line with gas.
- August 2011** August was generally bullish with most power and gas contracts increasing in price. Traders commented that there was a move away from an oil price link, instead supply and demand fundamentals on near-term delivery was having the most impact on prices. At the back-end of August prices climbed to a 9-week high.

# Oil

## Movements in the oil market

Rolling front month Brent Crude oil



### Change in prices from August 2011 – August 2012

The average front month oil contract price in August 2012 was approximately 2% higher than in August 2011.

### Monthly movement

Front month oil prices increased by approximately 8% over the course of August 2012, between a range of \$105.9 - \$116.25/bbl

### Month by month review

#### August 2012

Brent Oil traded over \$116/bbl during the middle of August recording the highest closing price since May this year. North Sea Oil field maintenance reduced output and tightened supply and further support came from the renewed geopolitical tensions in the Middle East as Israel is preparing military action against Iran. The conflict in Syria also has escalated as Saudi Arabia has given advice to their people to leave Lebanon.

#### July 2012

Brent Crude Oil has recorded strong gains during July trading back above \$100/bbl after falling to an 18-month low the previous month. The gains are a result of escalating tensions between the US and Iran and the threat of possible supply disruption through the key shipping lane in the Middle East. Positive economic news helped lift prices as the European Central Bank slashed borrowing costs and the Bank of England announced another £50bn to support the UK economy. These measures would encourage demand for fuel across Europe and China's economies.

#### June 2012

The benchmark front month Brent Crude Oil contract continued its downward trajectory driven by high Crude stocks in the US, ongoing concerns on Euro zone economic activity and OPEC (Organization of the Petroleum Exporting Countries) keeping production quotas at record high causing a glut in supply across the global market. Brent hit a low of

\$89.67/bbl towards the end of June, which was its lowest closing price assessment for 18-months.

May 2012	During May Brent hit its lowest closing price for 2012 driven mainly by political action within the Euro zone and reduced anxiety of supply disruption. The Socialist victory in the French presidential election and Greece's fragmented result refreshed worries about the Euro zone debt crisis and pushed Brent prices lower. Additionally, eased fears of supply disruption when the talks between Iran and the West restarted supported the losses.
April 2012	Brent prices fell significantly during the last month as pessimistic reports from China and the US raised concerns about a potential slowdown in the global economy. Additionally, the Energy Information Administration cut its forecast for world oil demand growth for 2012 and 2013 in their monthly report. Prices started the month at around \$125 and had soon eroded around \$6 by the last week of April where prices stabilised at around \$118/bbl.
March 2012	The dispute between Iran and the West over Tehran's nuclear program has lifted Brent prices by about 17% in 2012. Recently, improving German economic sentiment and rising U.S. retail sales have strengthened the bullish sentiment. Additionally, when the U.S. central bank reiterated its plans to keep interest rates low, oil market optimism improved on economic growth prospects.
February 2012	Brent Crude Oil hit a 9-month high during February driven by ongoing tensions between Iran and the west and the possibility of supply disruptions from other nations in the Middle East. Further support was added when news of a second bail-out package to support the Greek debt crisis hit the markets.
January 2012	Continued political tension between Iran and the west added volatility to a Crude oil market that struggled to find any clear direction during January. The potential of supply disruption as tensions grow in Arab regions added risk premium to prices, however, the over-riding negative economic outlook within the euro-zone continued to plague the value of the Euro, consequently lowering the price of Brent Crude.
December 2011	Oil prices were pulled in opposite directions through Dec 11 leaving the market flat when comparing the start of the month to the end. An 11-month low point for the Euro vs. Dollar exchange rate and further debt concern within Europe pushed prices lower. Upside was driven by political tension between the US and Iran and potential supply disruption following tension in Kazakhstan and Iraq.
November 2011	Crude oil prices were driven higher by renewed hopes that Greece and Italy would resolve their debt issues. Concerns over Iranian nuclear activity added further upward pressure, as well as unrest in Egypt and Syria.
October 2011	October proved to be a volatile month for Crude oil, with prices swinging over \$14 within month. The market appeared to lack clear direction, however, prices were given a sharp boost with reports surrounding the Euro-zone debt crisis and a potential recovery plan being the main driver.
September 2011	Crude oil hit a 6-week low on depressing economic news, including the euro-zone debt crisis and doubts whether Greece would get more aid to bolster its troubled economy. Further downward support was given by news that Libya was planning on restarting further oil production boosting their output.

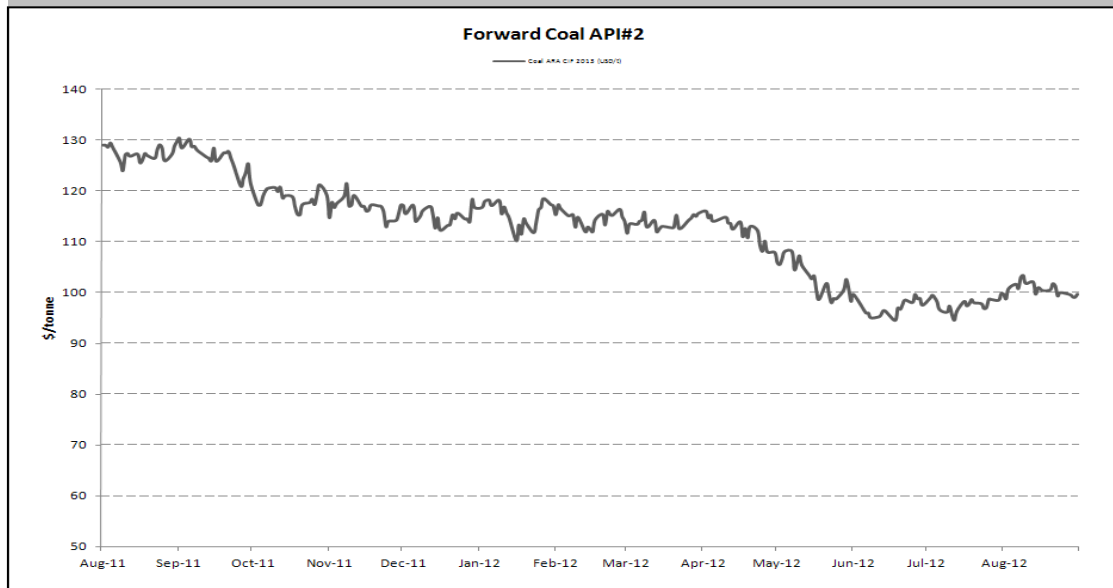
August 2011

News that the US could have its AAA credit rating downgraded sent global equities and Brent Crude markets into decline. The possible downgrade revived worries of a global 'double-dip' recession. Prices then staged an upward recovery driven mostly by stronger financial markets.

## Coal

### Movements in the coal market

Forward coal 1 year



### Change in prices from August 2011 – August 2012

The average forward coal 1 year contract price in August 2012 was approximately 21% lower than in August 2011.

### Monthly movement

Forward coal 1 year contract prices decreased by approximately 0% over the course of August 2012, between a range of \$98.75 - \$103.37/tonne

### Month by month review

August 2012

International coal prices continued their recent bearish trend after news that the strike by workers at Colombian rail operator Fenoco is ending.

July 2012

Coal prices edged higher moving up with gains in oil and carbon.

June 2012

International coal prices came under pressure because of persistent economic concerns. Especially the significant decline in oil prices coupled with weak economic data in the EU and the US had influence on the energy complex.

May 2012

Persistent coal oversupplies and revived bearish macro sentiment led to further losses in coal prices.

April 2012

In addition to persistent oversupplied coal markets, a bearish sentiment was concluded at Coaltrans Conference in Beijing as the number of deals done was lower than anticipated. With coal demand seasonally weak and fundamentals still pointing to a rather weak scenario, coal prices at the front end of the curve saw another month of decline.

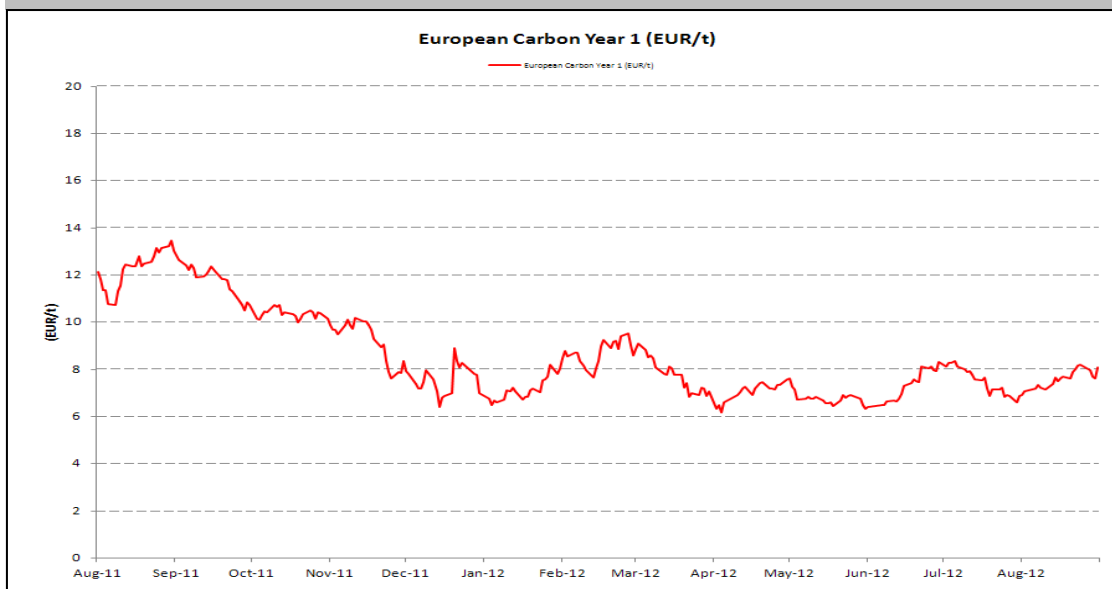
March 2012	Prices at the front end of the curve came again under pressure due to ample coal flooding the market. Only minor movements were noticed in international coal prices throughout the month.
February 2012	The European coal market continues to be driven by a lack of buying interest resulting in an oversupply of coal around the world. According to reports this could see export prices out of South Africa's Richards Bay (Africa's largest Coal terminal) fall to record lows.
January 2012	Coal prices fell amid soft demand and ample supply, particularly within the Atlantic region.
December 2011	Coal prices were fairly stable during December staying tightly linked to developments in other energy markets.
November 2011	The combination of fresh economic concerns about Italian sovereign debt and the healthy supply situation in the market were the main drivers behind coal prices.
October 2011	Coal prices were being driven mostly by wider macroeconomic sentiment, which was impacting financial and commodity markets throughout October. Although there was some within month price movement, the end result was that prices ended the month range-bound compared with the start.
September 2011	Stoked by renewed concerns over debt crisis within the Euro zone and a significant drop in crude oil price due to large stock build up, coal markets moved down in what was a generally bearish month for energy related markets.
August 2011	The state of the global economy had a downward affect on the price of coal pushing it down 'significantly' according to one source. This downside was soon recovered as oil began to recoup some of its losses. Prices ended the month range-bound despite the within month movements.



# Carbon

## Movements in the carbon market

European Carbon year 1



### Carbon overview

Carbon permits have become an increasingly important driver for the price of UK power as more than 70% of UK power stations use coal or gas.

Burning coal and gas releases harmful emissions into the environment. Higher generation means more carbon emissions are produced. Therefore the cost of 'clean' power also takes into account the cost of carbon permits traded under the EU scheme.

Cost of producing 'clean' power = price of generation fuel + price of carbon

Burning coal generates more than twice as much carbon as burning gas, hence if the price of carbon increases, the effects are felt more strongly in coal generation. Carbon price therefore directly affects the demand for both gas and coal as a generation fuel.

### Change in prices from August 2011 – August 2012

The average European Carbon front year contract price in August 2012 was approximately 39% lower than in August 2011.

### Monthly movement

European Carbon front year contract prices increased by approximately 17% over the course of August 2012, between a range of €6.92 - €8.19 / tonne

### Month by month review

August 2012

The carbon market has been supported in recent weeks by optimism that the EU will move next month to withdraw allowances from the market and growing optimism in energy markets about an upcoming effort by large EU nations to tackle the Euro zone debt crisis.

July 2012

Carbon prices dropped sharply, as reports circulated that the plan to remove excess carbon allowances from the market was proving to be more complicated than originally presumed. This led to market back into a

position where CO2 permits are grossly over-supplied and the price subsequently dropped.

June 2012	Emissions prices have been taking direction from Euro zone developments over the past month, in particular the Euro/Dollar exchange rate, with the Dec-12 contract dropping as low as 6.17 EUR/t as the Euro fell against the dollar. Gains were recorded at the end of June due to a move to set-aside excess carbon permits to help support the market.
May 2012	Carbon prices were driven lower by plummeting oil prices last week. Uncertainty about the future of the Euro zone following the Greek and French election results added to bearish sentiment.
April 2012	Dec-12 EUAs fell back below 7 EUR/t at the start of the month, as rising Spanish bond yields revived concerns about the Euro zone, triggering falls in equity markets and the Euro.
March 2012	Carbon prices dropped below €8 after Poland blocked a proposal to reduce emissions. The move is the latest stage in the failure of EU carbon policy that has seen the European carbon trading price collapse.
February 2012	Colder weather and demand for Carbon allowances added support to prices during the start of the month. Prices were then given a further significant boost as EU parliamentary leaders agreed to support a motion in the Industry Committee vote at the end of the month.
January 2012	The price of European Emissions continued to hover around record low levels for most of January.
December 2011	European carbon prices continue to plummet driven mostly by ongoing economic concerns within the Euro-zone.
November 2011	The carbon market was cautious over demand levels due to ongoing economic concerns within the Euro-zone.
October 2011	Trade volumes were moderate during October within the European Carbon market, missing strong market drivers and impulses. Traders appeared to be waiting for clear messages surrounding the Euro-zone bailout plans before fixing out positions.
September 2011	With Greece planning to auction off nearly 4million carbon permits, the outlook for the emissions market is that there is an oversupply. This allowed for prices to move down, if only marginally.
August 2011	Stronger German power prices helped the carbon market recover some of its devastating losses that were recorded the last few months. Increased buying activity from utility companies supported the gains.

## Key dates

September 11/12 2012

Energy Event 2012, NEC

## Useful web links

**For more information about E.ON, the following links may be useful:**

Business Energy	<a href="http://eonenergy.com/business">eonenergy.com/business</a>
Business Energy Connections	<a href="http://eonenergy.com/bec">eonenergy.com/bec</a>
Sustainable Energy	<a href="http://eonenergy.com/sustainable">eonenergy.com/sustainable</a>
Carbon Reduction Commitment	<a href="http://eonenergy.com/crc">eonenergy.com/crc</a>

**The following links provide further information on the energy industry:**

Defra	<a href="http://defra.gov.uk">defra.gov.uk</a>
The Department for Business, Enterprise and Regulatory Reform (BERR) formally DTI	<a href="http://berr.gov.uk">berr.gov.uk</a>
The Department of Energy and Climate Change (DECC)	<a href="http://decc.gov.uk">decc.gov.uk</a>
Health and Safety Executive	<a href="http://hse.gov.uk">hse.gov.uk</a>
National Grid	<a href="http://nationalgrid.com">nationalgrid.com</a>
Met Office	<a href="http://metoffice.gov.uk">metoffice.gov.uk</a>
Ofgem	<a href="http://ofgem.gov.uk">ofgem.gov.uk</a>
Environment Agency	<a href="http://environment-agency.gov.uk">environment—agency.gov.uk</a>
Consumer Focus formally Energywatch	<a href="http://consumerfocus.org.uk">consumerfocus.org.uk</a>
The Carbon Trust	<a href="http://thecarbontrust.co.uk">thecarbontrust.co.uk</a>
The Energy Institute	<a href="http://energyinst.org.uk">energyinst.org.uk</a>
The Energy Saving Trust	<a href="http://est.org.uk">est.org.uk</a>
The National Energy Foundation	<a href="http://nef.org.uk">nef.org.uk</a>
Petroleum Economist	<a href="http://petroleum-economist.com">petroleum-economist.com</a>
Live oil prices	<a href="http://thisismoney.co.uk/oil-price">thisismoney.co.uk/oil-price</a>

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