



E.ON MarketReport  
February 2013

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## Overview of January 2012 – January 2013

Welcome to the February edition of the E.ON MarketReport, where we look in detail at the energy markets from January 2012 to January 2013.

This report provides an historical 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 (January 2013)

January saw a cold weather front hit the UK and continental Europe which led to strong demand for both power and gas. This increase in demand pushed the influential Day-Ahead contract up by around 7-8% during the month.

Despite the uptick in demand the UK supply system coped extremely well, as gas flows from Belgium, Netherlands and Norway were all fairly robust and delivering good levels of gas to UK terminals. Gas from storage facilities increased its share of the supply mix which has led to a depletion in stocks to around 78% fullness (lower than levels for this time last year), however, with demand expected to drop this gives an opportunity to inject gas back into storage.

Revised weather forecasts showed milder temperatures at the back-end of January and going into February. This helped lower the price of the front-month Feb-13 contract during its last week of trading before expiry. This coupled with a supply system that coped well during peak demand, created bearishness towards the end of the month.

Longer dated seasonal prices were trading within a very tight range and took some upside from a strong Brent oil market which traded above its recent \$113 ceiling.

## Power and gas

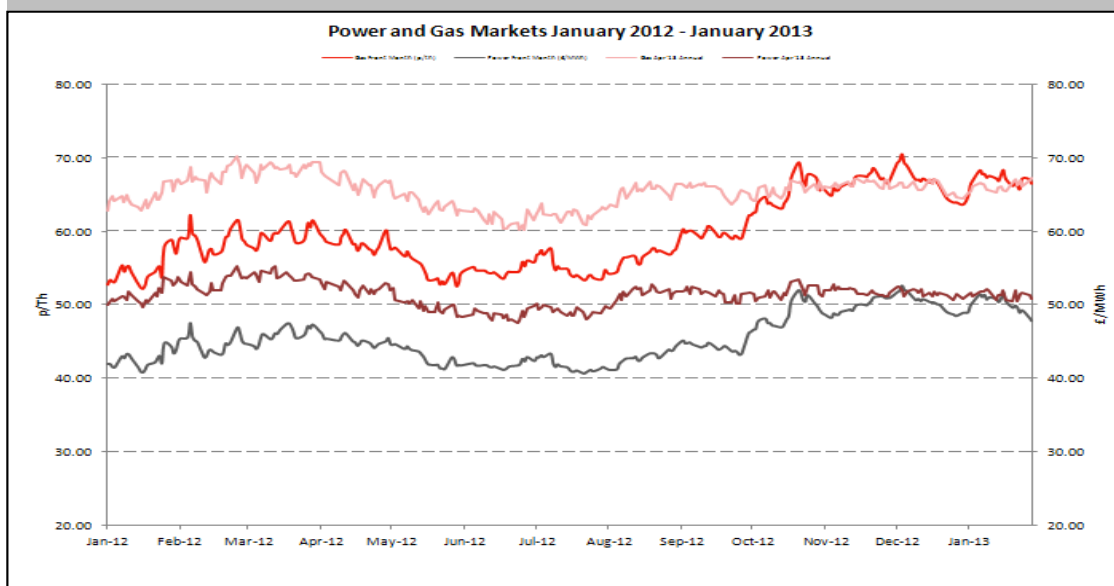
### Movements in the power and gas market

Front month power

Front month gas

Annualised power

Annualised gas



## Change in prices from January 2012 – January 2013

The average front month power contract price in January 2013 was approximately 18% higher than January 2011.

The average front month gas contract price in January 2013 was approximately 23% higher than January 2011.

The average Apr'13 Annualised power price in January 2013 was approximately 0% lower than January 2011.

The average Apr'13 Annualised gas price in January 2013 was approximately 3% higher than January 2011.

## Monthly movement

Front month power contract prices decreased by approximately 2% over the course of January 2013, trading between a range of £47.8 - £51.65 / MWh

Front month gas contract prices increased by approximately 3% over the course of January 2013, trading between a range of 64.68p - 68.3p / therm

Apr'13 annualised power prices decreased by approximately 1% over the course of January 2013, trading between a range of £50.56 - £52.09 / MWh

Apr'13 annualised gas prices increased by approximately 3% over the course of January 2013, trading between a range of 65.1p - 67.34p / therm

## Month by month review

January 2013	Temperatures dropped during January with snow and freezing weather conditions hitting most parts of the UK. Despite some outages in the Norwegian gas fields which impact gas flows into the UK, the system generally coped pretty well with demand, and as a result wholesale price increases were capped. The front month contract (Feb-13) moved down during its final week before expiry, however, annualised contracts were held firm by a strong Brent oil performance.
December 2012	A turn-around on temperature forecasts helped all near-term gas and power contracts trade lower. The revised forecasts coupled with good gas supplies from Norway and the via the Interconnector created bearishness within the gas market, which filtered through into UK power prices. As the holiday period got closer traded volumes became very thin and annualised contract drifted lower as a result. Bearish fundamentals outweighed bullish oil as the main driver over the Christmas period.
November 2012	November began on a bearish note, as super-storm Sandy shutdown the east coast of America and depressed demand in the region. The closure of the New York stock exchange also took a chunk of liquidity out of the global commodity markets. This fed through to oil prices, which supported losses on UK gas and power. Sentiment soon reversed and gains were recorded for the majority of November. Driving prices higher were lower LNG cargoes and downward revisions to temperature forecasts for the UK and mainland Europe. The fear of a cold-snap in Q4-12/Q1-13 keeps a premium in prices, despite UK storage being at around 95% fullness. Longer dated seasonal contracts were relatively flat trading within a very tight range.
October 2012	Towards the end of October the market's attention was firmly on the front end of the wholesale curve, as weather forecasts suggested colder temperatures were approaching and concerns over LNG availability and

Norwegian gas flows increased. As a result, front month gas price gained by around 10% and power 12%. Longer dated annualised contracts decoupled from a soft Brent Oil market and were held firm by the strong performance on the front month prices. Electricity prices were primarily driven by bullish Gas, although continued weakness in Coal markets would have limited the gains.

September 2012

Gas and electricity prices were generally bearish throughout September and traded down by around 3% over the course of the month. The main driver behind the losses was weak economic sentiment following disappointing Chinese manufacturing data and rising Oil stocks in the US, indicating a slowdown in global energy consumption. Expectations that Saudi Arabian Oil production will remain at record high levels helped lower prices. Going into the winter, coal is expected to remain the fuel of choice for power generation given its profit margin over gas. Continued downward pressure on coal prices is adding to the bearish trend for UK electricity prices.

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.

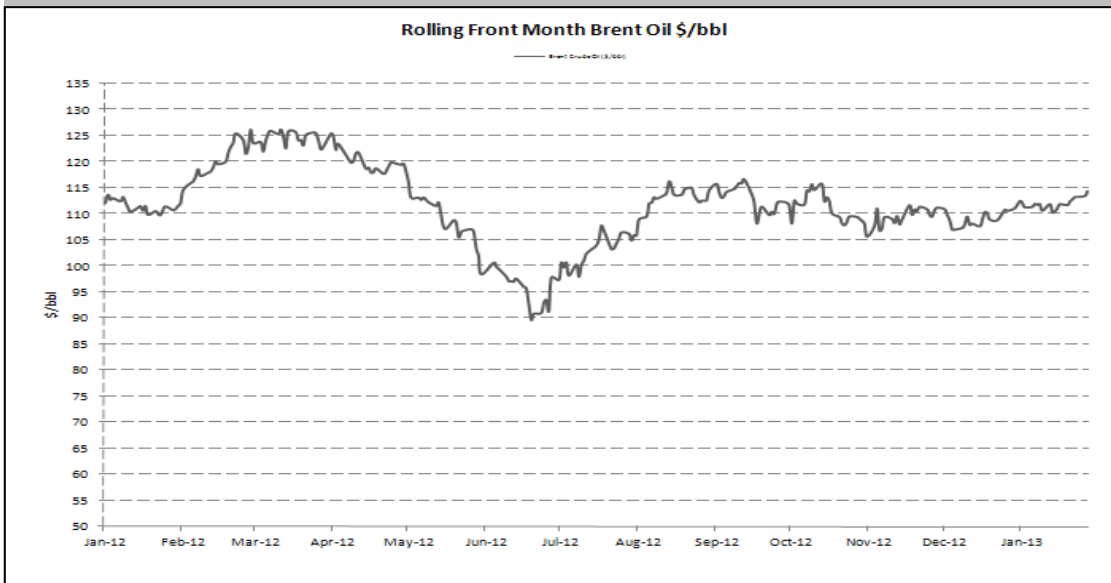
#### January 2012

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.

## Oil

### Movements in the oil market

Rolling front month Brent Crude oil



## Change in prices from January 2012 – January 2013

The average front month oil contract price in January 2013 was approximately 1% higher than in January 2012.

### Monthly movement

Front month oil prices increased by approximately 2% over the course of January 2013, trading between a range of \$110.3 - \$114.36 / bbl

### Month by month review

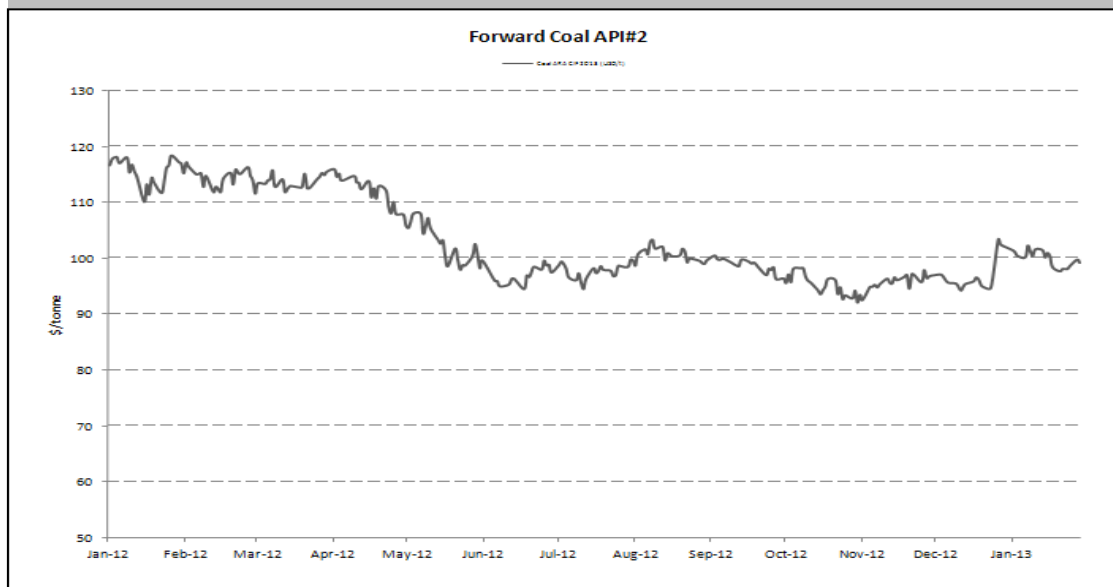
January 2013	January was a strong month for the European benchmark oil contract. Brent Crude oil gained by around 2% over the course of the month driven by positive economic data from Germany, China and the US. Iran's activity around launching a rocket into space was seen as a test for long-range missile capability and risk around middle-east tension would have held prices firm.
December 2012	Over December the direction of Brent Oil has been dominated by talks around the US 'fiscal cliff' and whether the US Federal Reserve will provide monetary stimulus to the world's largest oil consumer. The outcome of talks between President Obama and the US law makers will be pivotal on Brent's near-term direction. On the supply side, continued mid-east tensions, primarily around the Iranian nuclear programme and renewed Israeli threats of air strikes supported prices, as supply risk is factored in.
November 2012	Global Oil and commodity markets were steady ahead of the US presidential election, as investors held positions before the official election result. This coupled with the shut-down of the US east coast in the wake of devastation caused by Hurricane Sandy allowed Brent prices to drift lower. For the rest of the month Brent oil continued to be pulled in opposite directions by strong bullish and bearish factors. Strong upward support was found from military conflict in the middle-east between Israel and Palestine adding supply risk into Oil prices, while Bearishness came from weak Euro zone data, including the downgrading of the French AAA credit rating and announcements surrounding the EU officially being back in recession. This caused Brent to trade within a narrow range throughout the month.
October 2012	Brent Oil prices jumped on escalating tensions between Turkey and Syria, as shelling along the border intensified. Later in the month prices eventually eased a little following a release of data showing a higher than forecast build-up in US Crude stockpiles. The data suggested that US stocks were 46.6m bbl above seasonal norm.
September 2012	Over the course of the month (01 - 24 Sept) front month Brent lost almost \$6/bbl or 5% in value after industry data showed China's manufacturing sector continued to contract and a rise in US Crude stocks pressured prices downward. The global market also responded to Saudi Arabia's pledge to keep Oil production at record highs to force the price of the Benchmark grades down. Despite all this over-riding bearishness there is still volatility within the market, as Middle East tensions threaten supplies and North Sea production continues to cause anxiety.
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.

# Coal

## Movements in the coal market

Forward coal 1 year



### Change in prices from January 2012 – January 2013

The average Forward coal 1 year contract price in January 2013 was approximately 13% lower than in January 2012.

### Monthly movement

Forward coal 1 year contract prices decreased by approximately 2% over the course of January 2013, trading between a range of \$97.71 - \$102.31 / tonne

### Month by month review

January 2013	Healthy stocks and scheduled supply together with falling German power prices weighed down on the European benchmark coal price.
December 2012	The picture in the coal market remains unchanged with low demand from China and rising stocks in China's main ports and low demand from India. The European benchmark coal price shed value with weaker power prices across Germany and other European markets.
November 2012	Global coal markets are still fundamentally oversupplied since the US began commercial extraction of shale gas and flooded the European market with cheap coal. Prices have been trading at what is known as a "floor price" for a number of months, and the increases recorded during November were not expected to have much of an impact of UK power prices. Prices started the month very low and despite gaining by 5% are still at record lows.
October 2012	European Coal prices continued to decline throughout October with healthy supply and weak demand. Traders noted that worldwide exchanged volumes were poor.
September 2012	The long-term oversupply of Coal to major consumers continues to weigh on prices. The benchmark European Coal price fell by around 3% over September (01 – 24 Sept) continuing its recent decline. Coal is currently



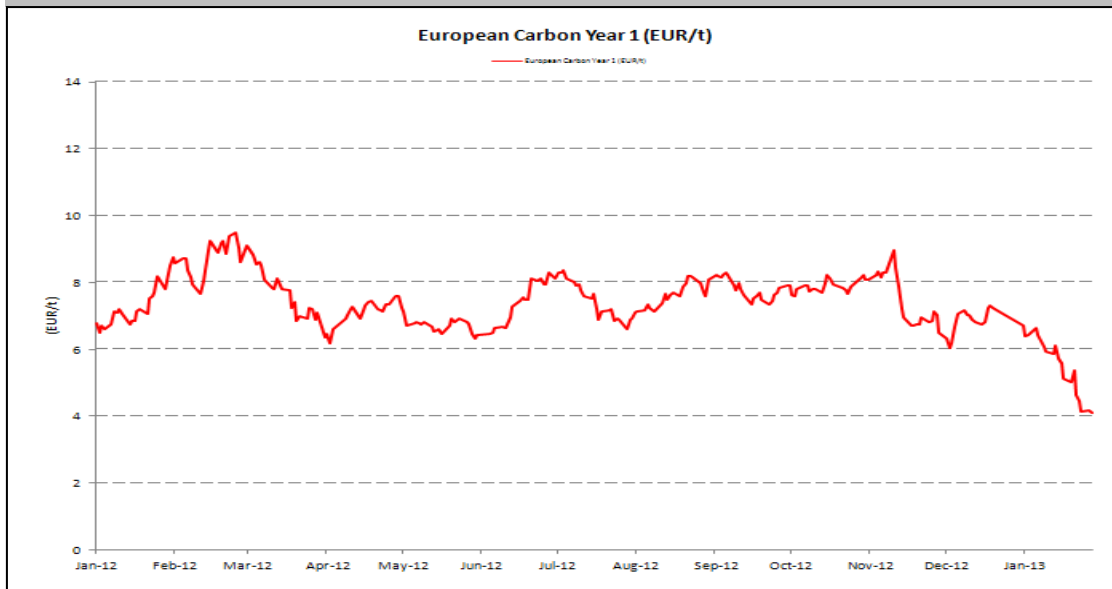
trading around \$30/tonne (22%) less than in Sept-2011 and adding to the over-supply are the US who are exporting more coal to the global market since the discovery of Shale Gas, which has started to dominate in terms of the fuel used for their domestic power generation. Shale Gas produces less CO2 therefore is helping to meet emissions targets.

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.

# 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 January 2012 – January 2013

The average European Carbon front year contract price in January 2013 was approximately 22% lower than in January 2012.

## Monthly movement

European Carbon front year contract prices decreased by approximately 39% over the course of January 2013, trading between a range of €4.09 - €6.7 / tonne

## Month by month review

- |               |   |
|---------------|---|
| January 2013  | Carbon prices marked new record lows, driven by new auctions and low German power prices. The market plummeted and traded at levels around €4/tonne.        |
| December 2012 | Carbon prices posted a slight fight back after a devastating November, however, no bullish news meant that the fundamental situation was largely unchanged. |

November 2012	Fundamentals are unchanged in the European carbon market with an over-supply of permits still in play. A scheme to "set-aside" some 900m permits to buoy the situation failed to inspire trades and had little impact on power prices. Carbon traded down by 15% over the course of the month.
October 2012	European Carbon prices hit a 5-week high towards the end of October, breaking out of its recent sideways trend. The reason for the gains was attributed to a temporary supply issue, as auctions of new emissions allowances have been delayed.
September 2012	Carbon continued to trade within a tight range of less than €1 hardly testing any upside. Analysts suggest that high levels of Coal burn has increased emissions across the EU, however a glut of allowances due to slow industrial consumption has made burning cheap coal a commercial option.
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.

## Useful web links

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

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

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

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

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