



# European Power & Utilities Report

KPMG Global Energy Institute  
Europe, Middle East & Africa

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Q4 2015



# Overview last quarter evolution in EUR P&U sector

## 1

### Prices and margins

- Prices in France and Germany have shown significant volatility in the period, ending at 19€ /MWh and 17€ /MWh baseload respectively.
- UK prices dropped to 26 €/MWh . In Spain prices have fallen below 41€/MWh
- Brent prices continued the downward trend started in June, closing below 38\$/bbl. Gas prices continued declining across regions while coal prices have resumed their downward trend. Carbon prices kept growing in the period, reaching 8,25€/T
- Gas margins remained negative in Germany, whereas in France positive values were registered during the period. In Italy and the UK margins finalized the period positive.
- Coal-fired margins (dark spreads) ended the quarter at -3 €/MWh in Germany, 2 €/MWh in the UK, 23€/MWh in Italy and 1€/MWh in France.

## 2

### Regulatory news

- European Commision's 2050 roadmap for the nuclear industry has been leaked.
- European Commission unveils the 195 key energy infrastructure projects (known as PCIs) to integrate Europe's energy markets.
- New regulation on the organized natural gas market and self-consumption has been published in Spain.
- UK government has set out the new direction for energy, with focus on cost and security of supply, new gas generation and interconnectors.
- French government has published a new Decree introducing an obligation for energy savings to benefit households in situation of energy poverty.
- Italy enacts new tariffs for Transmission, Distribution and Metering.
- Relevant commercial operations have been registered in Italy, both at the buy and sell sides.
- German Federal Government is aiming to increase acceptance for grid expansion.
- The U.S. Department of Energy has announced historic new energy efficiency standards for commercial air conditioners and furnaces.

## 3

### Capital markets

- Eurostoxx Utilities index has declined 1,25% QoQ.
- REE and National Grid have registered the best evolution on Q4 2015, while EDP and SSE have remained stable.
- Worst performers in the quarter included RWE and EDF.
- Valuation levels remain at 7,8 EV/EBITDA in Q4 2015.
- Net debt levels remained stable at 3 x EBITDA in Q4 2015.

## 4

### M&A

M&A activity in the Energy sector remained intense in Q4 2015, driven by Norwegian, Canadian and Chinese deals around oil and gas, with average deal value decreasing from the former period.

Largest deals have included:

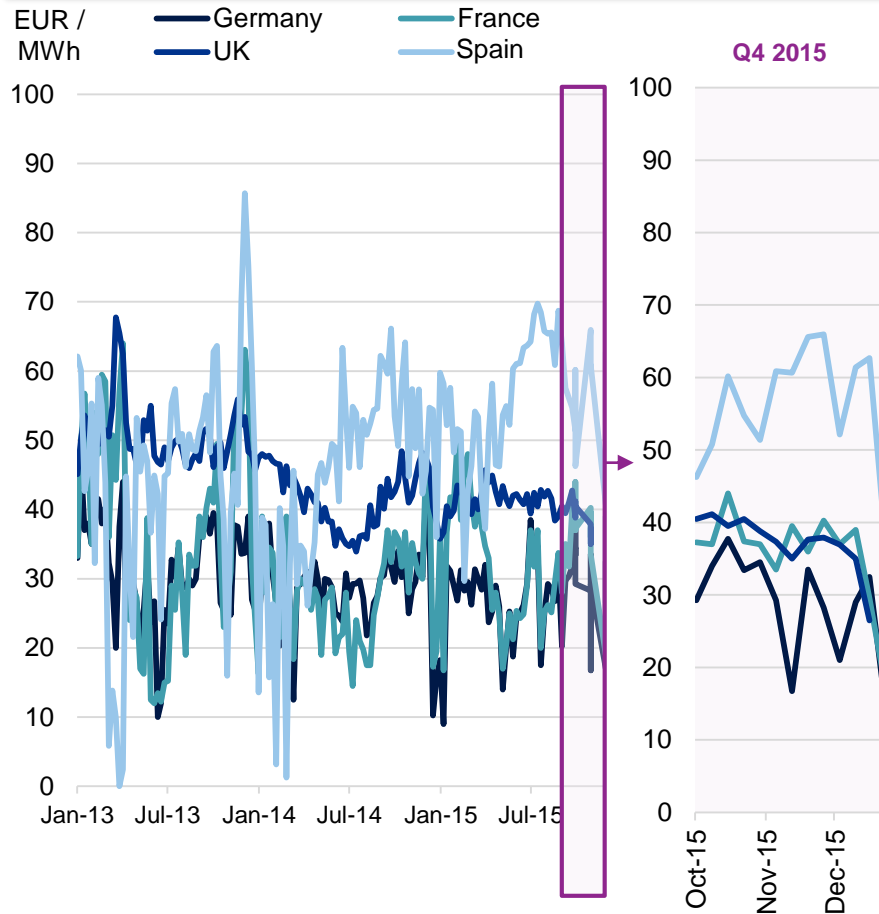
- The acquisition of E.ON E&P Norge AS by DEA Deutsche Erdoel AG (1,4€bn)
- The acquisition of Canadian Natural Resources by PrairieSky Royalty Ltd. (1,3 €bn)
- The purchase of 10% stake of SIBUR Holding OJSC by China Petrochemical Corporation (1,2€bn)
- The acquisition of Tall City Exploration, LLC and Plymouth Petroleum, LLC by Moss Creek Resources LLC (1€bn)

# Prices and Margins: Overview

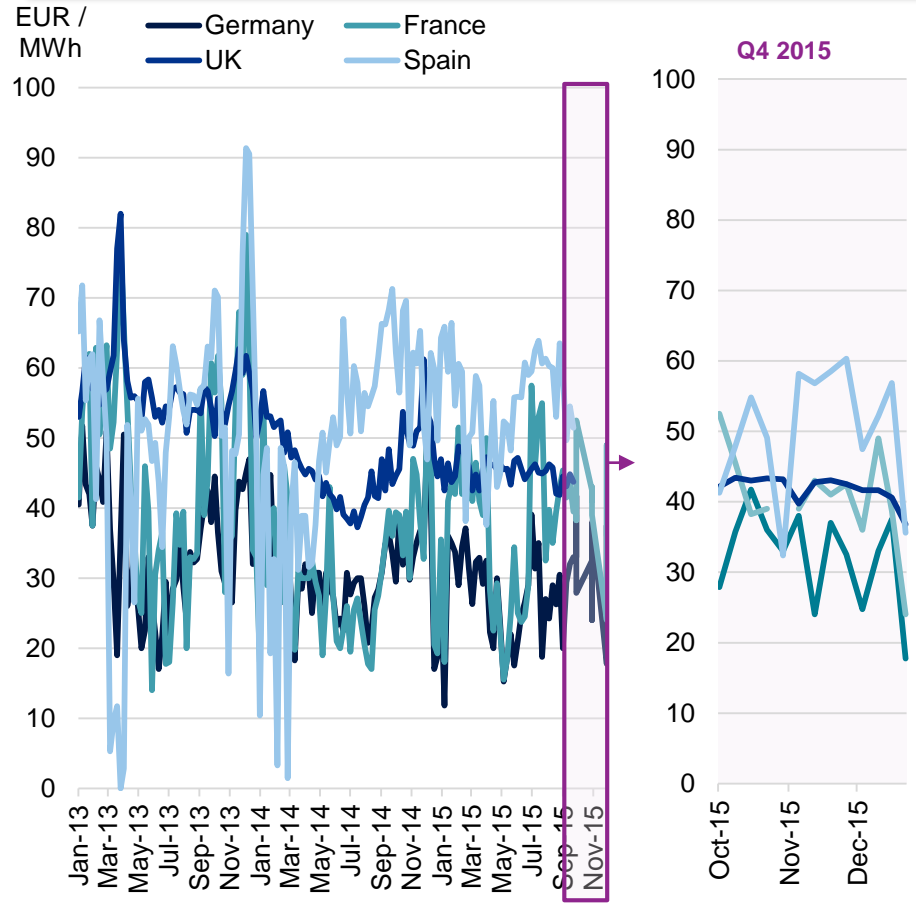
- Starting Q4 2015 at 29€ /MWh and 37€ /MWh, baseload power prices in Germany and France, have shown significant drop in the period, ending at 17€ /MWh and 19€ /MWh, respectively.
- UK prices continued stable, at an average baseload of 37€/MWh during Q4 2015, falling below 30 €/MWh at the end of the period.
- In Spain prices have grown during Q4 2015, reaching levels of 65€/MWh, though they have fallen to 40€/MWh at the end of the period.
- Baseload/peakload differentials have widened with reference to the former period (Q3).
- Brent prices continued during Q4 2015 the downward trend started in June, reaching as low as 38 USD/bbl in December on average.
- Gas prices continued declining, with levels below 7 USD/MMBTU in Europe, 3 USD/MMBTU in the US and 33 GBP/MWh at NBP.
- Continuing the downward trend registered in Q3 2015, Coal prices have dropped again during Q4 2015, reaching 45 USD/T (compared to 60 USD/T in Q2).
- Carbon prices ended Q3 2015 at 8€/T and kept growing during Q3, reaching 8,25€/T.
- Gas margins (spark spreads) remained negative in Germany, whereas in France positive values were registered along most of the period. Italy reached the higher value in December at 26 EUR/MWh but regained thin levels at the end of the quarter. In the UK margins remained slightly positive.
- Coal-fired margins (dark spreads) ended the quarter at -3 €/MWh in Germany, 2 €/MWh in the UK, 23€/MWh in Italy and 1€/MWh in France.

# Electricity price evolution

Base load



Peak load

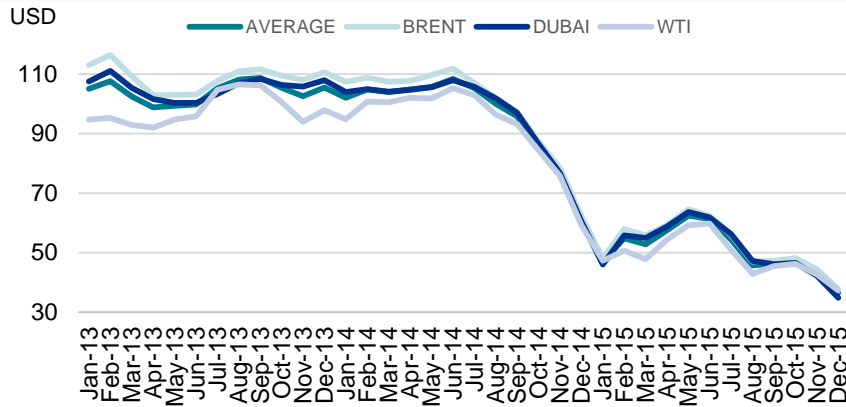


Source: Bloomberg; 2015.

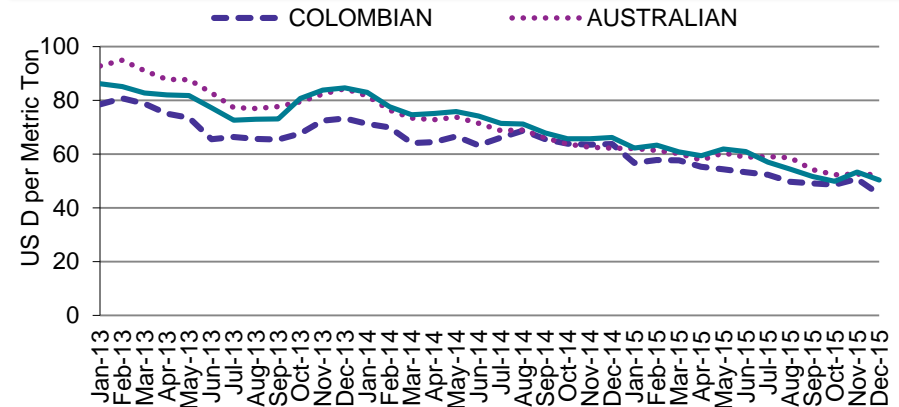
## 1. Prices and Margins

# Fuel price evolution

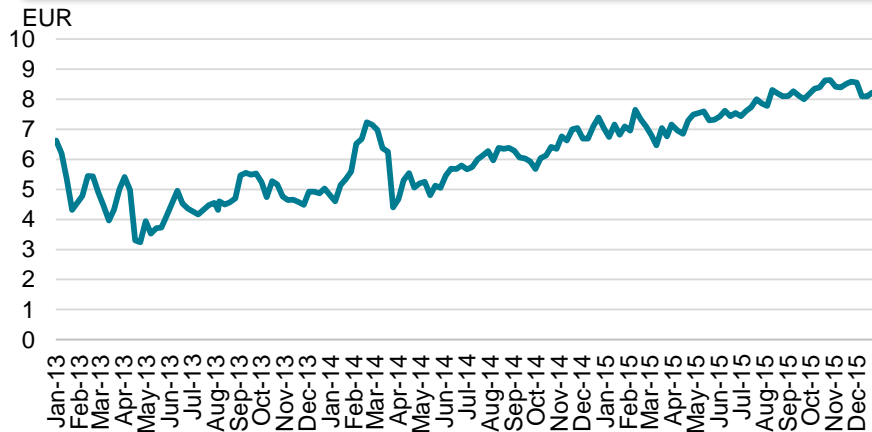
### Crude oil



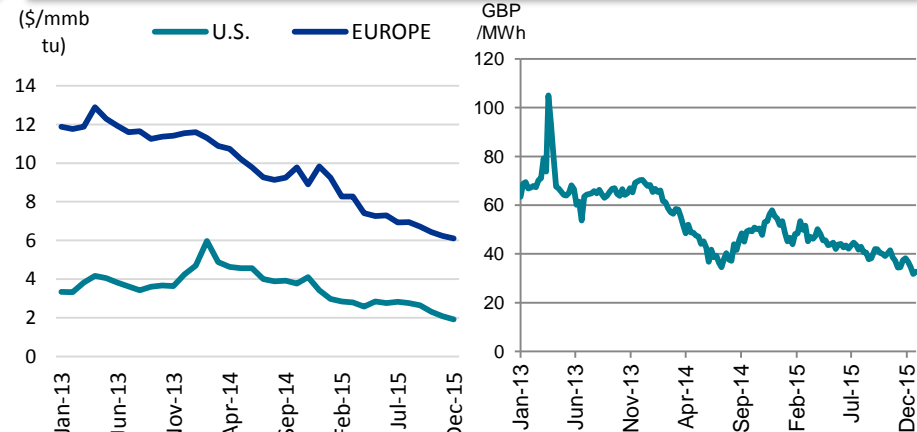
### Coal



### Carbon price – EU ETS



### Gas prices: US (H.Hub), EU (border prices) and NBP

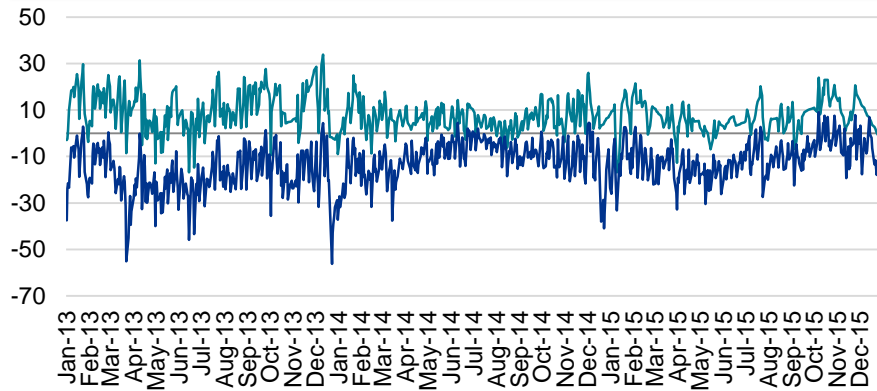


Source: World Bank / Bloomberg; 2015.

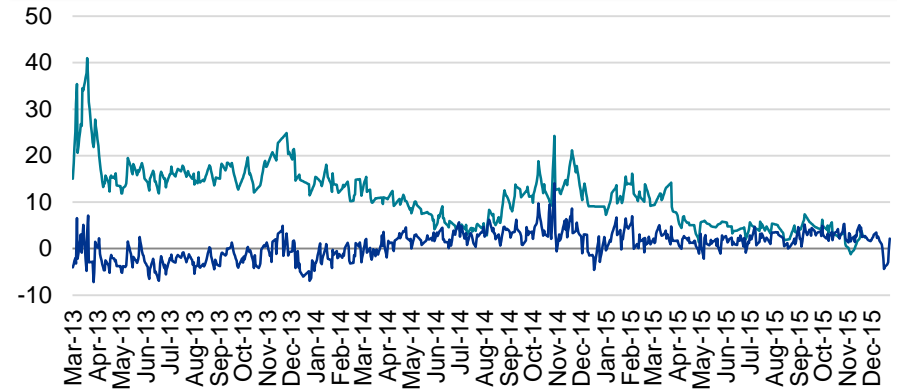
# Clean dark and spark spreads

— Clean dark spread — Clean spark spread

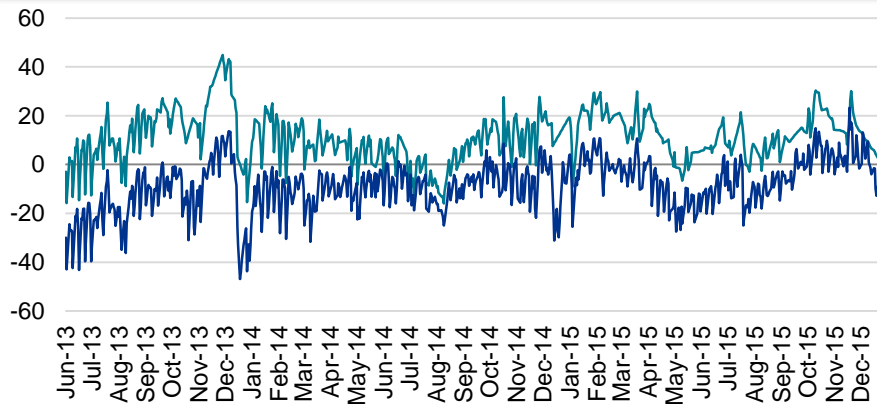
## Germany



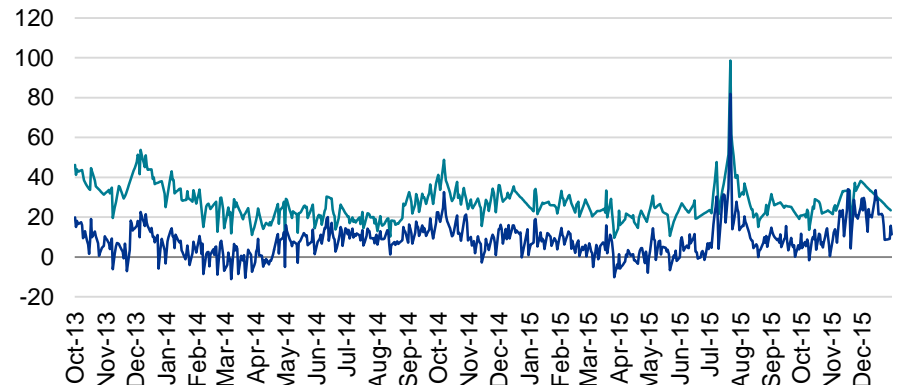
## United Kingdom



## France



## Italy



Source: Bloomberg; 2015.



# Regulatory News Overview

- European Commission's 2050 roadmap for the nuclear industry has been leaked.
- European Commission unveils the 195 key energy infrastructure projects (known as PCIs) to integrate Europe's energy markets.
- New regulation on the organized natural gas market and self-consumption has been published in Spain.
- UK government has set out the new direction for energy, with focus on cost and security of supply, new gas generation and interconnectors.
- French government has published a new Decree introducing an obligation for energy savings to benefit households in situation of energy poverty.
- New tariffs for Transmission, Distribution and Metering have been enacted in Italy, as long as new criteria on regulated return on invested capital for power and gas distribution grids.
- Relevant commercial operations have been registered in Italy, both at the buy and sell sides.
- German Federal government is aiming to increase acceptance for grid expansion.
- The U.S. Department of Energy has announced historic new energy efficiency standards for commercial air conditioners and furnaces.

# Regulatory news per region

## EU

- European Commission's 2050 roadmap for the nuclear industry has been leaked. €450-550 billion would have to be spent on new plants, lifetime extensions, costs of decommissioning and waste management. Nuclear's share in the energy mix could decline from 27% today to 17-21%.
- European Commission unveils the 195 key energy infrastructure projects (known as PCIs) to integrate Europe's energy markets.
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- The EIB has signed a loan agreement worth €160 million with Redexis Gas to construct new gas pipelines in Spain. The EIB has also backed Galloper offshore wind farm with GBP 225 million, the first UK project being backed by the Bank.
- European Commission has signed a grant agreement of € 5,4 million for studies necessary to launch construction works of the Balticconnector gas pipeline, which will be the first gas pipeline to connect Estonia and Finland.
- Two new electricity interconnections connecting Lithuania to Poland and Sweden have been officially inaugurated, creating the "Baltic Ring". Furthermore, the first gas interconnector between Poland and Lithuania ends the energy isolation of the Baltic States.

## Spain

- Modification of eligibility criteria for installations to participate in secondary regulation services.
- Royal Decree 984/2015 sets the regulation of the creation of the organized natural gas market. Furthermore, it has been published a resolution approving the market rules, the membership contract and the resolution procedures.
- Royal Decree 900/2015 establishes the administrative, technical and economic conditions of electricity supply and generation with self-consumption.
- Development Plan of Electricity Transmission Networks for 2015-2020 has been published.

## UK



- 'Reset' speech setting out the new direction for energy.
- The government announced their intention to release a consultation of reforms to the capacity market to encourage capacity provision.
- The government announced further revisions to renewable subsidies.

## France



- From November 30<sup>th</sup> to December 11<sup>th</sup> 2015, Paris has held the eleventh session of the Conference of the Parties serving as the Meeting of the Parties of the Kyoto Protocol.
- New Decree introducing an obligation for energy savings to benefit households in situation of energy poverty in the context of the French system of certificates for energy savings.

## Italy



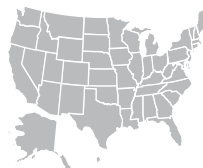
- New tariffs for Transmission, Distribution and Metering.
- New criteria on regulated return on invested capital for power and gas distribution grids.
- New criteria on HP gas grid capacity allocation at Italian border.

## Germany



- Federal Government aiming to increase acceptance for grid expansion.
- Approved Act on Continued Liability for Nuclear Decommissioning and Disposal Costs and Commission for Review of Financing of Nuclear Phase out.
- Published strategic document for the transformation of energy in the building sector.


## US




- The U.S. Department of Energy announced historic new efficiency standards for commercial air conditioners and furnaces. These standards will save more energy than any other standard issued by the Department to date.
- FERC established a new index level to calculate annual changes for interstate oil pipeline rate ceilings for 2016 through 2021.



# Links to new key regulation

Spain	News	Link
	<p>The State Secretariat of Energy has approved under Resolution of December 18<sup>th</sup> 2015 the modification of eligibility criteria for installations to participate in secondary regulation services thus enabling renewable, cogeneration and waste to offer these services.</p>	<a href="#">Link I</a>
	<p>The Ministry of Industry, Energy and Tourism has approved Royal Decree 984/2015 which sets the regulation of the creation of the organized natural gas market. (a)</p> <p>Furthermore, the State Secretariat of Energy published on December 4<sup>th</sup> 2015 the Resolution approving the market rules, the membership contract and the resolution procedures of the organized natural gas market. (b)</p>	<a href="#">Link II (a)</a> <a href="#">Link II (b)</a>
	<p>Spanish electricity consumers have finished paying the nuclear moratorium on October 26<sup>th</sup> 2015, which was approved in the 1980's and annually allocated since 1996 within the electricity bill. The total amount paid has accounted for €5,7 billion.</p>	<a href="#">Link III</a>
	<p>The Ministry of Industry, Energy and Tourism published on October 9<sup>th</sup> 2015 Royal Decree 900/2015 establishing the administrative, technical and economic conditions of electricity supply and generation with self-consumption.</p>	<a href="#">Link IV</a>
	<p>The Ministry of Industry, Energy and Tourism published on October 26<sup>th</sup> 2015 the Development Plan of Electricity Transmission Networks for 2015-2020.</p>	<a href="#">Link V</a>

# Links to new key regulation

Spain	News	Link
	The State Secretariat for Energy published last November 30 <sup>th</sup> 2015 the Resolution announcing the auction for the allocation of the specific remuneration regime for new installations producing electricity from biomass located on the mainland electricity system and wind technology installations, as well as the procedures and rules of the auction. From the total 700 MW auctioned, 200 MW will be allocated to biomass and 500 MW to wind.	<a href="#">Link VI</a>
	The Spanish NRA has published its report regarding the Ministerial Order Proposal concerning the capacity mechanism for environmental improvements in certain electricity generation plants.	<a href="#">Link VII</a>
	The Spanish NRA has published its report on unitary values of reference for the calculation of the remuneration for electricity distribution and transmission companies.	<a href="#">Link VIII</a>

# Links to new key regulation

### UK



### News

### Link

Amber Rudd, Secretary of State for Energy and Climate Change delivered the 'Reset' speech setting out the new direction for energy

- An overall focus on **cost** and **security of supply**, backed by **market led** solutions
- A proposal to close all unabated **coal fired plants** by 2025, with usage restrictions from 2023
- A focus on **new gas generation**, with a consultation on the Capacity Market to see how construction can be incentivized
- A more important role for **interconnectors**, mentioning how the new capacity being built can contribute to energy market innovation; alongside storage and demand response

[Link I](#)

The government announced their intention to release a consultation of reforms to the capacity market to encourage capacity provision

[Link II](#)

The government announced further revisions to renewable subsidies. For FiTs:

- Domestic solar FiT was cut less than first proposed, to 4.39p / kwh
- Deployment caps will be set to limit new spending on the scheme to £100m up to the end of 2018/19
- The reintroduction of pre-accreditation for solar PV, wind generators over 50kW and all hydro and anaerobic digestion generators

[Link III](#)

# Links to new key regulation

### UK



### News

### Link

(cont'd.):

- Measures to pause new applications to the FIT scheme from 15 January to 8 February, to allow time for the implementation of cost control measures

For the Renewable Obligation (RO):

- Closure of the RO across Great Britain to new solar PV capacity at 5MW and below from 1 April 2016
- Remove 'grandfathering' for solar projects in England and Wales with an exception for those which meet the significant financial commitment criteria

[Link III](#)

The second Capacity Market auction for 2019/20 secured 46.3 GW at a price of £18/kW

[Link IV](#)

UK joins Mission Initiative, an international initiative between 20 countries to undertake to double their state-directed spending on clean energy research and development over the next five years and work together to increase collaboration on transformational projects

[Link V](#)

- In 2020/21 investment is expected to exceed £400m
- Around £100m of total 2020 spend will go to developing country focused projects

UK committed to the Paris COP21 agreement on global climate change, confirming the ambition to limit global temperatures 'well below' 2°C, 'aspire' to 1.5°C and report and assess progress towards this every 5 years from 2018

[Link VI](#)

# Links to new key regulation

### Germany



### News

### Link

The Federal Government decided that by constructing the so-called new electricity highways (high-voltage direct current transmission lines) underground cables shall have priority to overhead lines. The aim is to increase acceptance for grid expansion. Only with the necessary local acceptance the network expansion will succeed (Act to amend provisions of the law of the power line construction [Gesetzes zur Änderung von Bestimmungen des Rechts des Energieleitungsbaus])

[Link I](#)


The Federal Cabinet approves Act on Continued Liability for Nuclear Decommissioning and Disposal Costs and Commission for Review of Financing of Nuclear Phase out. The aim of this act is to ensure continuing and in particular create new liability for the costs of Germany's staggered nuclear power exit until 2022 and the follow-up costs.

[Link II](#)

The energy efficiency strategy for private and public buildings (ESG) is the strategic document for the transformation of energy in the building sector, which includes technical and energy aspects as well as economic perspective and socio-political interests. Likewise this strategic document examines issues such as the interaction of power-to-heat.

[Link III](#)

# Links to new key regulation

Country	News	Link
	New regulation for service quality of the water sector is approved	<a href="#">Link I</a>
	New tariffs for the period 2016 – 2023 for Transmission, Distribution and Metering are enacted	<a href="#">Link II</a>
	New criteria for regulated return on invested capital for power and gas distribution grids is enacted	<a href="#">Link III</a>
	New criteria for HP gas grid capacity allocation at Italian border is enacted	<a href="#">Link IV</a>
	New switching rules for power retail customers are approved	<a href="#">Link V</a>



# Capital Markets Overview

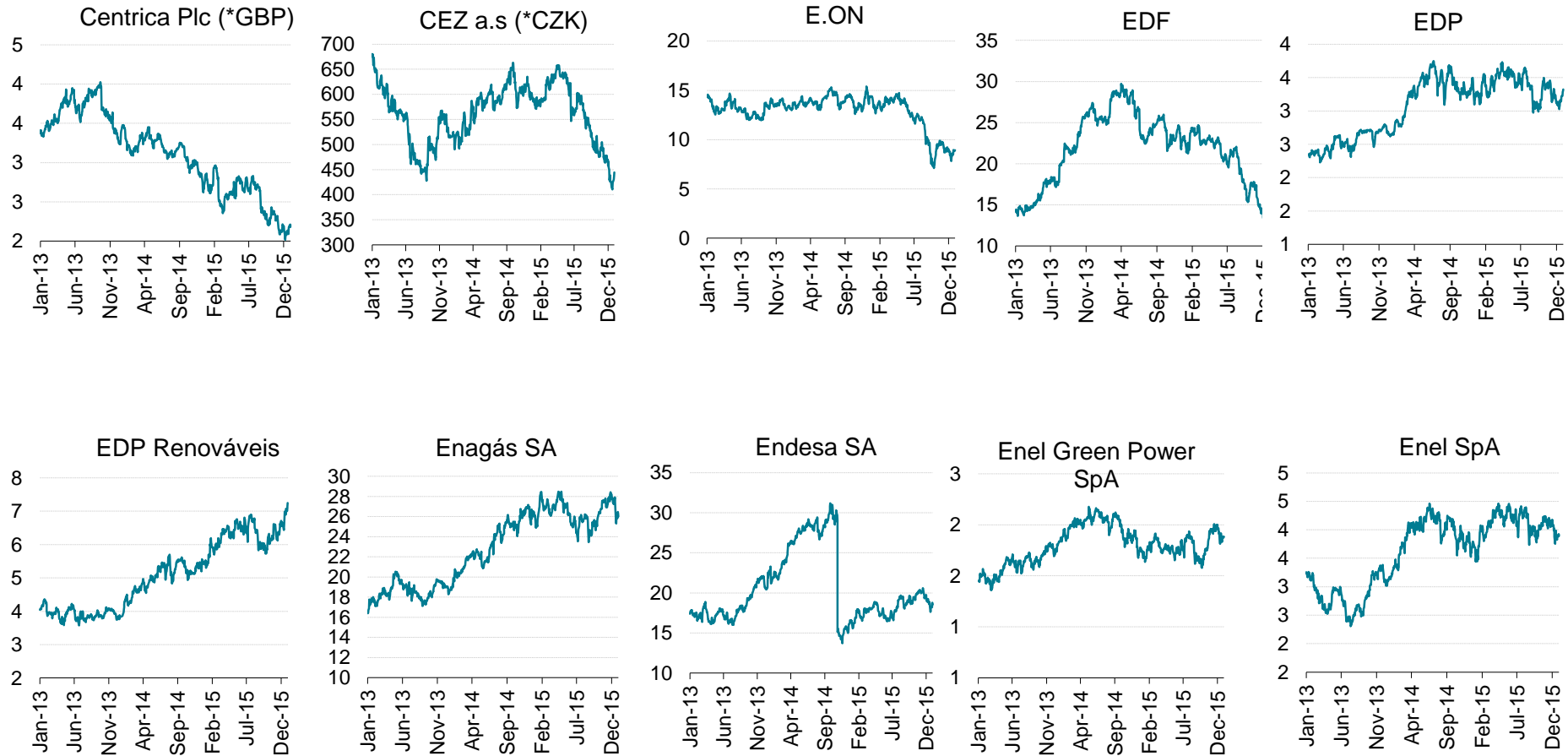
- Eurostoxx Utilities index average in the period decreased -1,9% in QoQ.
- REE and National Grid have registered the best evolution on Q4 2015 in terms of share price.
- Worst performers in the quarter included RWE and EDF.
- Valuation levels remain at 7,8 EV/EBITDA in Q4 2015, same value as in previous quarter.
- Wide differences persist in EBITDA multiples, with highest values among players focused on grid and renewables
- Net debt levels remained stable at 3 x EBITDA in Q4 2015, same figure registered in Q3 2015.
- Credit ratings have been upgraded for Enagás and Red Eléctrica Corporación; and downgraded for RWE AG and Fortum Oyj.

# Share price evolution: overview

Company	Q1 2013	Q2 2013	Q3 2013	Q4 2013	Q1 2014	Q2 2014	Q3 2014	Q4 2014	Q1 2015	Q2 2015	Q3 2015	Q4 2015	Last Quarter Q4 2015/ Q3 2015 ▼	Last Year Q4 2015/ Q4 2014
REE	41,14	40,35	41,31	45,78	54,66	61,55	63,83	69,69	74,06	75,75	72,12	78,82	9,29%	13,10%
National Grid plc (*GBP)	7,12	7,89	7,53	7,68	8,08	8,45	8,75	9,09	8,99	8,84	8,54	9,23	8,08%	1,54%
Enagás SA	17,86	19,3	18,1	19,06	20,77	22,05	24,7	25,94	26,78	26,66	25,16	27,1	7,71%	4,47%
Enel Green Power SpA	1,47	1,6	1,64	1,75	1,96	2,07	2,05	1,85	1,78	1,76	1,76	1,88	6,82%	1,62%
Snam SpA	3,61	3,65	3,57	3,82	4,09	4,32	4,38	4,12	4,32	4,56	4,45	4,71	5,84%	14,32%
Iberdrola SA	3,92	4,07	4,12	4,56	4,72	5,2	5,51	5,59	5,91	6,14	6,13	6,43	4,89%	15,03%
Endesa SA	17,41	17,03	17,75	21,17	23,29	27,61	28,51	19,76	17,29	17,56	18,57	19,45	4,74%	-1,57%
EDP Renováveis	4,04	3,89	3,85	3,93	4,47	5,02	5,35	5,26	5,95	6,48	6,3	6,46	2,54%	22,81%
Gas Natural SDG SA	14,72	15,61	15,07	17,58	18,87	21,18	22,92	22,06	20,7	21,84	19,11	19,46	1,83%	-11,79%
SSE Plc (*GBP)	14,4	15,46	15,7	13,91	13,88	15,34	15,06	15,79	15,5	16	15,08	14,98	-0,66%	-5,13%
EDP	2,36	2,5	2,62	2,67	2,99	3,48	3,46	3,29	3,39	3,54	3,3	3,27	-0,91%	-0,61%
Enel SpA	2,94	2,77	2,59	3,18	3,62	4,15	4,12	3,8	3,96	4,28	4,12	4,06	-1,46%	6,84%
ENGIE SA (GDF SUEZ S.A.)	15	15,86	16,69	17,85	17,8	19,93	19,37	18,95	18,9	18,25	16,36	15,85	-3,12%	-16,36%
Fortum Oyj	14,59	14,67	15,27	16,57	16,68	17,46	19,27	18,57	19,4	17,61	15,24	13,79	-9,51%	-25,74%
Centrica plc (*GBP)	3,48	3,75	3,85	3,49	3,23	3,29	3,15	2,9	2,65	2,69	2,54	2,21	-12,99%	-23,79%
E.ON SE	13,36	13,3	12,57	13,6	13,62	14	14,25	13,77	13,61	13,58	10,6	9	-15,09%	-34,64%
CEZ as* (*CZK)	618,45	549,76	469,76	526,93	528,02	585,88	607,16	606,78	600,33	624,53	557,01	467,82	-16,01%	-22,90%
EDF	14,51	17,19	21,08	25,7	26,96	27,28	24,23	22,06	23,12	22,11	19,52	15,19	-22,18%	-31,14%
RWE AG	28,76	27,21	22,7	26,91	27,87	28,8	30,53	27,62	23,97	22,1	15,78	11,81	-25,16%	-57,24%
Eurostoxx Utilities	222,87	226,15	224,04	249,48	262,29	284,87	288,6	280,3	292,9	291,9	269,10	264,0	-1,90%	-5,19%

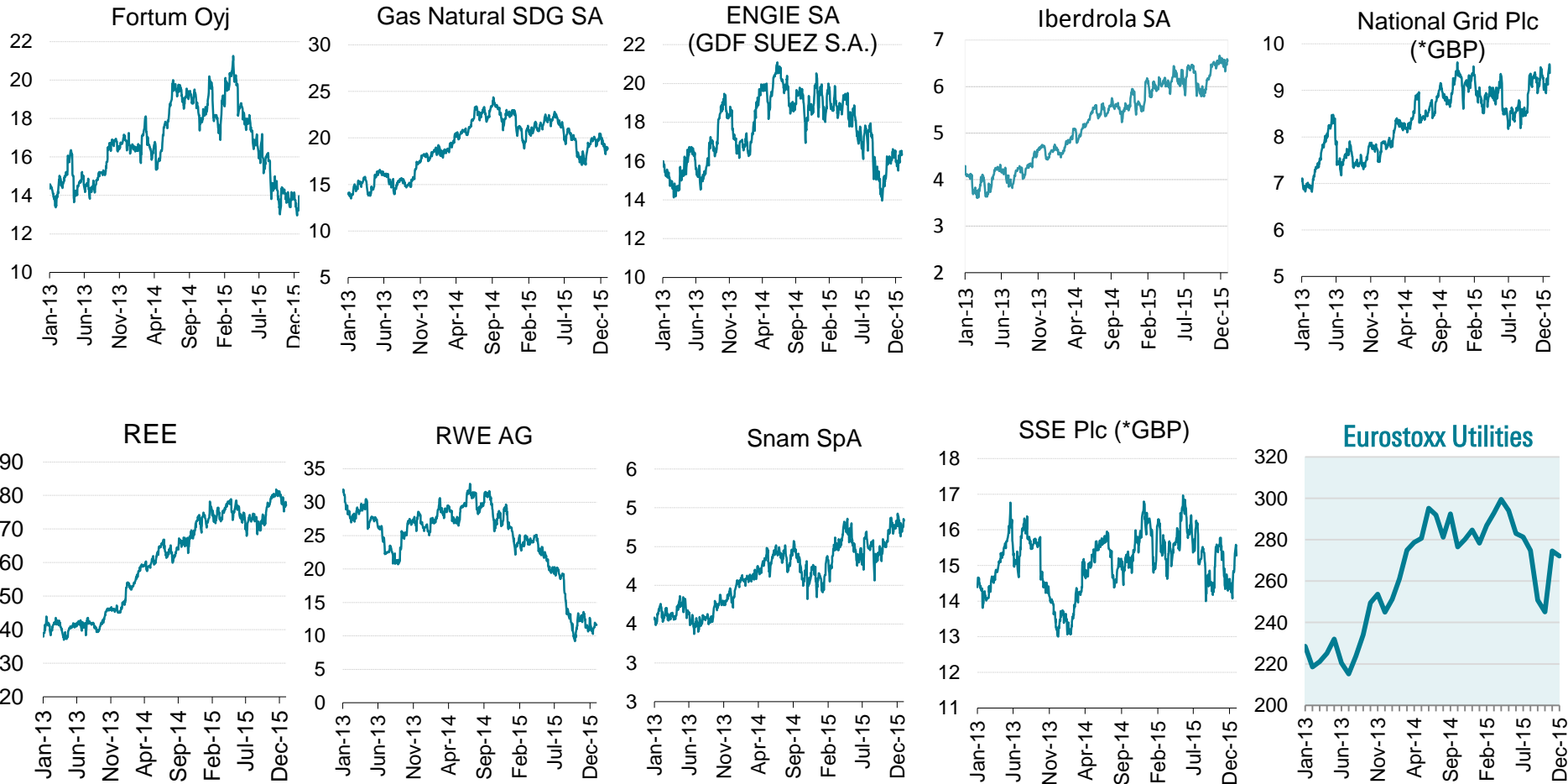
Source: Bloomberg; 2015.

# Share price evolution: individual stocks (1)



Source: Bloomberg; 2015.

# Share price evolution: individual stocks (2)



Source: Bloomberg; 2015.

# Relative valuation per company

	TEV (as of December 31) / EBITDA (LTM) ▼	TEV (EUR mill.) (as of December 31)	Market Capitalization (EUR mill.) (as of December 31)
Enagás, S.A.	12,1	10.273	6.207
EDP Renováveis	11,7	10.952	6.324
National Grid plc	11,2	80.362	46.064
Snam S.p.A.	11,1	30.613	16.903
EDP-Energias de Portugal, S.A.	10,8	33.938	12.069
Enel Green Power S.p.A.	10,7	18.384	9.415
Red Eléctrica Corporación S A.	10,7	15.576	10.400
Iberdrola, S.A.	9,4	66.634	41.062
SSE plc	8,9	26.586	20.041
Gas Natural SDG SA	8,8	38.356	18.828
Endesa SA	7,6	24.000	19.613
ENGIE SA (GDF SUEZ S.A.)	6,5	73.773	39.024
Centrica plc	6,2	22.335	14.511
Fortum Oyj	6,1	10.516	12.366
Enel SpA	6	90.975	36.598
CEZ, a.s.	5,7	13.221	8.781
Electricite de France SA	4	71.894	25.227
RWE AG	3,8	18.752	7.095
E.ON SE	3,5	30.762	17.419
<b>Weighted average: 7,8</b>		<b>687.902</b>	<b>367.947</b>

Source: Capital IQ; 2015.

# Leverage and credit ratings

	LTM Net Debt/ EBITDA	Rating S&P	S&P Financial Update	Rating Moody's	Date	Rating Fitch	Date
EDP-Energias de Portugal, S.A.	5,79	BB+	Nov 24-15	Baa3	Feb 13-15	BBB-	Nov 05-14
Snam S.p.A.*	4,96	BBB	Oct 30-15	Baa1	Feb 18-14	BBB+	Jul 23-15
Enagás, S.A.	4,89	A-	Oct 21-15	Baa2	Feb 28-14	A-	Dec 23-15
EDP Renováveis S.A.	4,89	-	Aug 02-15	-	-	-	-
National Grid plc.	4,82	A-	Nov 11-15	Baa1	Dec 13-14	BBB	Jun 17-15
Enel Green Power S.p.A.	4,17	-	Nov 15-15	A3	Oct 06-11	-	-
Iberdrola, S.A.	3,61	BBB	Oct 24-15	Baa1	Apr 08-15	BBB+	Jul 10-15
Red Eléctrica Corporación S A.	3,56	A-	Oct 29-15	-	-	A-	Apr 01-15
Gas Natural SDG SA	3,33	BBB	Nov 05-15	Baa2	Oct 17-14	BBB+	Aug 07-15
ENGIE SA (GDF SUEZ S.A.)	2,59	A	Jul 30-15	A1	Jun 11-15	-	-
SSE plc.	2,37	A-	Nov 12-15	A3	Apr 29-14	BBB+	Jul 31-15
Electricite de France SA	2,33	A+	Aug 04-15	A1	Apr 16-15	A	Sep 21-15
Enel SpA	2,31	BBB	Nov 26-15	Baa2	Mar 27-15	BBB+	May 26-2015
Centrica plc.	2,19	BBB+	Jul 31-15	Baa1	Jul 30-15	A-	Dec 16-15
RWE AG	2,09	BBB	Nov 13-15	Baa2	Oct 23-15	BBB+	Dec 03-15
CEZ, a.s.	1,75	A-	Nov 11-15	A3	Jun 23-15	A-	Jul 03-15
Endesa SA	1,4	BBB	Nov 12-15	Baa2	Oct 14-14	BBB+	May 26-15
E.ON SE	1,28	BBB+	Nov 13-15	(P) Baa1	Sep 11-15	BBB+	Sep 02-15
Fortum Oyj	-1,14	BBB+	Oct 23-15	Baa1	May 28-15	BBB+	Nov 18-15
Average: <b>3,01</b> Mode: BBB Baa1 BBB+							
Quarterly rating variation: Upgrade Unchanged Downgrade							

Source: Capital IQ / S&amp;P / Moody's / Fitch; 2015.



# M&A Overview

- M&A activity in the Energy sector remained intense in Q4 2015, driven by Norwegian, Canadian and Chinese deals around oil and gas, with average deal value decreasing from the former period.
- Largest deals have included:
  - The acquisition of E.ON E&P Norge AS by DEA Deutsche Erdoel AG (1,4€bn)
  - The acquisition of Canadian Natural Resources by PrairieSky Royalty Ltd. (1,3 €bn)
  - The purchase of 10% stake of SIBUR Holding OJSC by China Petrochemical Corporation (1,2€bn)
  - The acquisition of Tall City Exploration, LLC and Plymouth Petroleum, LLC by Moss Creek Resources LLC (1€bn)

## 4. M&A

# Top-10 M&A operations in Q4 2015 by deal value <sup>(1)</sup>

Announced Date	Target Company	Target Description	Target Country	Bidder Company	Bidder Country	Seller Company	Deal Value EUR(m)
10/14/2015	E.ON E&P Norge AS	Norway-based company engaged in exploration and production of oil and gas	Norway	DEA Deutsche Erdoel AG	Germany	E.ON SE	1407
11/09/2015	Canadian Natural Resources	Canada-based royalty assets of Canadian Natural Resources	Canada	PrairieSky Royalty Ltd.	Canada	Canadian Natural Resources Limited	1259
11/11/2015	SIBUR Holding OJSC (10% Stake)	Russia-based vertically integrated company engaged in gas processing and production of petrochemicals for energy, automotive, construction, FMCG, chemical and other industries	Russia	China Petrochemical Corporation	China		1219
11/30/2015	Tall City Exploration, LLC (exploration and production assets); Plymouth Petroleum, LLC (oil and gas exploration assets)	US-based exploration and production assets of Tall City Exploration, LLC, comprising of the oil and gas rights to leases on approximately 71,000 acres in Howard and Borden Counties, Texas and interest in 34 horizontal and six vertical wells which produce approximately 3,750 BOE per day ; US-based oil and gas exploration assets of Plymouth Petroleum, LLC	USA	Moss Creek Resources LLC	USA	Tall City Exploration, LLC; Plymouth Petroleum, LLC	1024
11/03/2015	Range Resources Corporation (Nora assets)	US-based oil fields of Range Resources in Nora	USA	EnerVest, Ltd.	USA	Range Resources Corporation	795

Source: Mergermarket; 2015.

# Top-10 M&A operations in Q4 2015 by deal value <sup>(2)</sup>

Announced Date	Target Company	Target Description	Target Country	Bidder Company	Bidder Country	Seller Company	Deal Value EUR(m)
12/18/2015	Fenix Power Peru SA	Peru-based company engaged in providing natural gas fired power generation services	Peru	Abu Dhabi Investment Authority; Colbun SA; SIGMA - Sociedad Administradora de Fondos de Inversiones	United Arab Emirates;Chile;Peru	AEI Services LLC	724
12/10/2015	SunEdison, Inc. (Bingham and Oakfield wind farm assets)	US-based 333 megawatts of wind power assets of SunEdison, Inc.	USA	Terra Nova Renewable Partners	USA	SunEdison, Inc.	720
10/11/2015	DEA Deutsche Erdoel AG (12 North Sea gas fields)	UK-based 12 gas fields including the Breagh, Clipper South, Cavendish, Windermere and Topaz gas fields	United Kingdom	INEOS Group AG	Switzerland	DEA Deutsche Erdoel AG	666
10/27/2015	Exterran Corporation	US-based company engaged in oil and natural gas business, providing compression and processing equipment for oil and gas production, maintenance, overhaul, and reconfiguration services, and manufactures, installs, and markets compression equipment and packages	USA	Exterran Holdings, Inc. (Shareholders)	USA	Exterran Holdings, Inc.	599
10/15/2015	Occidental Petroleum Corporation (North Dakota shale oil acreage and assets)	US-based shale oil acreage and assets in North Dakota of Occidental Petroleum Corporation	USA	Lime Rock Resources	USA	Occidental Petroleum Corporation	526

Source: Mergermarket; 2015.

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