

LONDON ENERGY BROKERS' ASSOCIATION OTC ENERGY VOLUME REPORT – SEPTEMBER 2018

London Energy Brokers' Association ("LEBA") is the industry association representing the FCA regulated wholesale market brokers in the OTC and exchange traded European energy markets.

	September 2018			2018 Year to Date				
Market	Total OTC Bilaterally Settled Volume	Total OTC Cleared Volume	Grand Total OTC Volume	Total OTC Bilaterally Settled Volume	Total OTC Cleared Volume	Grand Total OTC Volume		
Natural Gas (MWh)								
UK NBP	495,891,002	90,773,029	586,664,031	4,704,429,962	892,045,639	5,596,475,601		
European Hubs								
Netherlands TTF	1,898,383,733	158,444,495	2,056,828,228	14,375,951,765	1,229,855,478	15,605,807,243		
Germany NCG	112,380,731	91,080	112,471,811	1,116,926,465	505,728	1,117,432,193		
Germany Gas Pool	67,113,580	87,600	67,201,180	681,399,016	1,266,030	682,665,046		
France PEG	38,268,324	549,670	38,817,994	408,146,966	3,712,010	411,858,976		
France TRS	915,680	0	915,680	24,309,418	341,600	24,651,018		
Austria VTP	29,888,953	0	29,888,953	382,330,956	300,360	382,631,316		
Italy PSV	81,794,190	346,200	82,140,390	720,562,767	6,061,560	726,624,327		
Zeebrugge Hub	24,110,222	0	24,110,222	376,267,339	454,846	376,722,185		
Other Gas	25,810,966	609,000	26,419,966	281,916,031	83,546,353	365,462,384		
Total European Gas	2,278,666,379	160,128,045	2,438,794,424	18,367,810,721	1,326,043,965	19,693,854,687		
Power (MWh)								
UK Power	96,578,506	277,680	96,856,186	655,647,307	1,088,073	656,735,380		
European Power								
German Power	509,194,457	98,452,493	607,646,950	3,377,550,229	659,997,934	4,037,548,163		
French Power	47,959,280	17,111,132	65,070,412	400,422,833	111,223,548	511,646,381		
Nordic Power	0	31,146,400	31,146,400	0	219,111,922	219,111,922		
Italian Power	11,904,075	41,845,158	53,749,233	79,814,443	266,406,830	346,221,273		
Spanish Power	3,404,074	10,000,072	13,404,146	31,334,200	56,378,660	87,712,860		
Netherlands Power	15,464,449	3,612,966	19,077,415	135,845,732	36,672,795	172,518,527		
Belgian Power	7,843,497	863,558	8,707,055	53,255,238	7,076,527	60,331,765		
Central & Eastern Europe	24,027,788	7,669,633	31,697,421	214,776,963	44,706,173	259,483,136		
Other Power	16,777,212	1,429,807	18,207,019	123,088,115	4,668,721	127,756,836		
Total European Power	636,574,832	212,131,219	848,706,051	4,416,087,753	1,406,243,110	5,822,330,863		
European Financial Coal Swaps (MT)								
API 2 Rotterdam	0	53,596,500	53,596,500	3,000	464,093,500	464,096,500		
API 4 Richards Bay	0	3,110,500	3,110,500	20,000	58,971,500	58,991,500		
globalCOAL NEWC®	546,000	8,718,000	9,264,000	1,620,000	100,785,000	102,405,000		
Total European Financial Coal	546,000	65,425,000	65,971,000	1,643,000	623,850,000	625,493,000		
European Carbon Emission Allowances	(MT)							
EUA	13,565,116	375,541,257	389,106,373	326,794,348	2,574,935,396	2,901,729,744		
CER	0	2,466,581	2,466,581	0	7,007,279	7,007,279		
Other Emissions	0	0	0	0	132,000	132,000		
Total European Carbon Emissions	13,565,116	378,007,838	391,572,954	326,794,348		2,908,869,023		



2017 and 2018 "Month" and "Year to Date" comparisons.

	Grand T	otal OTC Volume		Grand Total OTC Volume			
	September	September	%	Year to Date	Year to Date	%	
	2017	2018	Change	2017	2018	Change	
Natural Gas (MWh)							
UK NBP	667,852,297	586,664,031	-12.16%	6,268,572,561	5,596,475,601	-10.72%	
<u>European Hubs</u>							
Netherlands TTF	1,366,480,644	2,056,828,228	50.52%	11,322,189,573	15,605,807,243	37.83%	
Germany NCG	132,913,402	112,471,811	-15.38%	1,109,397,905	1,117,432,193	0.72%	
Germany Gas Pool	114,998,048	67,201,180	-41.56%	678,301,920	682,665,046	0.64%	
France PEG	44,568,459	38,817,994	-12.90%	331,028,942	411,858,976	24.42%	
France TRS	2,103,273	915,680	-56.46%	43,870,954	24,651,018	-43.81%	
Austria VTP	38,808,956	29,888,953	-22.98%	327,659,448	382,631,316	16.78%	
Italy PSV	85,404,072	82,140,390	-3.82%	676,742,477	726,624,327	7.37%	
Zeebrugge Hub	46,475,350	24,110,222	-48.12%	404,805,831	376,722,185	-6.94%	
Other Gas	41,692,598	26,419,966	-36.63%	339,273,457	365,462,384	7.72%	
Total European Gas	1,873,444,801	2,438,794,424	30.18%	15,233,270,507	19,693,854,687	29.28%	
Power (MWh)							
UK Power	97,393,093	96,856,186	-0.55%	749,548,338	656,735,380	-12.38%	
<u>European Power</u>							
German Power	568,859,928	607,646,950	6.82%	3,870,301,368	4,037,548,163	4.32%	
French Power	104,785,828	65,070,412	-37.90%	532,584,948	511,646,381	-3.93%	
Nordic Power	32,876,572	31,146,400	-5.26%	201,548,323	219,111,922	8.71%	
Italian Power	36,150,860	53,749,233	48.68%	266,382,280	346,221,273	29.97%	
Spanish Power	10,627,608	13,404,146	26.13%	91,252,795	87,712,860	-3.88%	
Netherlands Power	26,024,145	19,077,415	-26.69%	173,899,834	172,518,527	-0.79%	
Belgian Power	5,552,135	8,707,055	56.82%	34,992,562	60,331,765	72.41%	
Central & Eastern Europe	50,939,529	31,697,421	-37.77%	342,536,063	259,483,136	-24.25%	
Other Power	15,139,320	18,207,019	20.26%	149,191,438	127,756,836	-14.37%	
Total European Power	850,955,925	848,706,051	-0.26%	5,662,689,611	5,822,330,863	2.82%	
European Financial Coal Swaps (M	<u>Γ)</u>						
API 2 Rotterdam	76,822,000	53,596,500	-30.23%	671,123,000	464,096,500	-30.85%	
API 4 Richards Bay	8,086,000	3,110,500	-61.53%	78,140,000	58,991,500	-24.51%	
globalCOAL NEWC®	10,334,000	9,264,000	-10.35%	154,669,000	102,405,000	-33.79%	
Total European Financial Coal	95,242,000	65,971,000	-30.73%	903,932,000	625,493,000	-30.80%	
European Carbon Emission Allowar	ices (MT)						
EUA	326,392,000	389,106,373	19.21%	1,619,199,030	2,901,729,744	79.21%	
CER	3,306,631	2,466,581	-25.41%	42,358,477	7,007,279	-83.46%	
Other Emissions	0	0	0.00%	0	132,000	100.00%	
Total European Carbon Emissions	329,698,631	391,572,954	18.77%	1,661,557,507	2,908,869,023	75.07%	



	YTD Total OTC	Proportion	Proportion			Price	Historical
	Market Volume	Cleared OTC	Cleared OTC	Average Price	Price Change	Change	Volatility
	Change 1 year	September 2018	September 2017	September 2018	1 Month	1 Year	1 Month
	onange = year						
Natural Gas (MWh)							
UK NBP	- 11 %	15.47%	15.77%				
Netherlands TTF	+ 38 %	7.70%	6.44%	Price Benchmark	1		
Germany NCG	+ 1 %	0.08%	0.07%	LEBA TTF Day			
Germany Gas Pool	+ 1 %	0.13%	0.10%	Ahead			
France PEG	+ 24 %	1.42%	1.54%	27.99 €/MWh			
France TRS	- 44 %	0.00%	0.00%		1		
Austria VTP	+ 17 %	0.00%	0.00%				
Italy PSV	+ 7 %	0.42%	0.55%				
Zeebrugge Hub	- 7 %	0.00%	0.00%				
Other Gas	+8%	2.31%	0.90%				
Total European Gas	+ 29 %	6.57%	4.79%		+ 4 %	+ 63 %	37%
Total Laropean Coo	1 20 70	0.0770			170		G 17,0
Power (MWh)							
UK Power	- 12 %	0.29%	0.28%		- 1 %	+ 64 %	57%
		0.2070	5.257	Price Benchmark	- 70		51,15
German Power	+ 4 %	16.20%	12.31%	LEBA UK Day			
French Power	- 4 %	26.30%	16.47%	Ahead			
Nordic Power	+ 9 %	100.00%	100.00%	67.49 £/MWh			
Italian Power	+ 30 %	77.85%	69.17%		†		
Spanish Power	- 4 %	74.60%	57.25%				
Netherlands Power	- 1 %	18.94%	19.82%				
Belgian Power	+ 72 %	9.92%	1.11%				
Central & Eastern Europe	- 24 %	24.20%	5.97%				
Other Power	- 14 %	7.85%	2.23%				
Total European Power	+ 3 %	24.99%	18.78%				
			2011 071				
European Financial Coal Swaps (F	MT)			Price Benchmark			
API 2 Rotterdam	- 31 %	100.00%	100.00%	LEBA API 2 Front			
API 4 Richards Bay	- 25 %	100.00%	100.00%	Month			
globalCOAL NEWC®	- 34 %	94.11%	100.00%	100.18 US\$/MT			
Total Coal	- 31 %	99.17%	100.00%	20122 227,1311	+1%	+ 10 %	13%
		22.270			2,70		
European Carbon Emission Allow	ances (MT)			Price Benchmark			
EUA	+ 79 %	96.51%	91.67%	LEBA EUA Spot			
CER	- 83 %	100.00%	0.00%	Average			
Other Emissions	0.00%	N/A	N/A	21.48 €/MT			
Total Emissions	+ 75 %	96.54%	90.75%		+ 5 %	+ 201 %	86%

Notes:

- 1. Price Change 1 Month: calculated using the percentage change from the previous month
- 2. Price Change 1 year: calculated using the percentage change from the previous year
- 3. Historical Volatility 1 month: calculated by taking the annualised standard deviation of daily logarithmic returns over the last month.
- 4. N/A no comparable data



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NOTES TO EDITORS:

LEBA, the London Energy Brokers' Association, is the industry association representing the FCA regulated wholesale market brokers in the over the counter (OTC) and the exchange traded liberalised European energy markets. These brokers intermediate and facilitate bilateral contracts to be concluded between banks, trading houses, commercial enterprises, public utilities and integrated energy businesses, providing liquidity and price discovery to these markets as well as contributing significant liquidity to European exchange traded markets.

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