



Gas Transportation Management System

Transportation Network Monthly Report

Parameters Entered	
Gas Month	September
Gas Year	2016

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1. Moffat Energy/Volume of Gas

	Moffat	
	kWh	KCM
Month Min	39,430,255	3,554.9
Month Max	140,932,335	12,770.1
Month Average	77,733,112	7,032.9
YTD Min	19,148,009	1,787.2
YTD Max	167,675,316	15,181.9
YTD Average	85,767,354	7,807.9

	Moffat		PTL		Isle of Man	
	Total kWh	Total KCM	Total kWh	Total KCM	Total kWh	Total KCM
01/09/2016	105,687,243	9,586.1	31,250,347	2,834.5	3,657,379	331.7
02/09/2016	65,529,680	5,963.3	32,250,032	2,934.8	3,647,286	331.9
03/09/2016	85,237,168	7,766.5	32,640,563	2,974.1	2,316,361	211.1
04/09/2016	113,165,597	10,306.0	29,320,576	2,670.2	2,561,639	233.3
05/09/2016	59,630,636	5,426.4	29,257,961	2,662.5	3,633,763	330.7
06/09/2016	79,965,328	7,326.9	34,755,666	3,184.5	3,682,364	337.4
07/09/2016	88,819,890	8,076.6	28,324,628	2,575.6	3,638,227	330.8
08/09/2016	58,482,425	5,297.9	30,426,242	2,756.3	3,690,284	334.3
09/09/2016	58,851,435	5,332.6	30,535,209	2,766.8	3,747,535	339.6
10/09/2016	72,113,726	6,539.3	29,483,332	2,673.6	3,707,381	336.2
11/09/2016	46,405,935	4,199.6	29,075,113	2,631.2	3,615,676	327.2
12/09/2016	116,996,418	10,585.2	39,643,979	3,586.8	3,662,375	331.4
13/09/2016	107,880,492	9,750.7	39,749,431	3,592.7	3,599,399	325.3
14/09/2016	140,932,335	12,770.1	36,968,647	3,349.8	3,522,616	319.2
15/09/2016	92,936,962	8,419.0	39,985,290	3,622.2	3,533,427	320.1
16/09/2016	80,341,320	7,268.9	30,574,720	2,766.2	3,277,419	296.5
17/09/2016	77,507,739	6,947.9	35,053,071	3,142.2	2,208,659	198.0
18/09/2016	70,711,988	6,351.4	33,331,458	2,993.8	2,267,828	203.7
19/09/2016	80,254,219	7,224.7	48,734,510	4,387.2	2,406,125	216.6
20/09/2016	85,862,459	7,725.7	43,590,573	3,922.2	2,452,373	220.7
21/09/2016	84,292,182	7,590.1	45,696,847	4,114.8	2,506,802	225.7
22/09/2016	62,471,839	5,635.1	41,698,507	3,761.3	2,456,911	221.6
23/09/2016	39,430,255	3,554.9	31,601,965	2,849.2	2,522,974	227.5
24/09/2016	43,181,220	3,882.4	21,130,060	1,899.8	2,501,380	224.9
25/09/2016	55,116,388	4,961.7	26,119,102	2,351.3	2,454,587	221.0
26/09/2016	75,527,423	6,806.0	43,666,347	3,934.9	2,498,599	225.2
27/09/2016	55,893,098	5,049.3	31,654,883	2,859.7	2,544,624	229.9
28/09/2016	47,999,778	4,326.5	32,394,749	2,919.9	2,532,981	228.3
29/09/2016	102,474,270	9,236.5	34,206,619	3,083.2	2,495,917	225.0
30/09/2016	78,293,918	7,078.3	44,374,237	4,011.7	2,563,411	231.8
Totals	2,331,993,366	210,985.8	1,037,494,664	93,813.1	89,906,302	8,136.3

Moffat excludes the Isle of Man and Northern Ireland (PTL) flows.

PTL is the Moffat flow for Northern Ireland only.

Isle of Man is the Moffat flow for Isle of Man only.

Currently there are fewer than 3 shippers at Inch. In order to retain Shipper confidentiality, Inch throughput cannot be published.

This situation will be kept under review

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1. Bellanaboy Energy/Volume of Gas

	Bellanaboy	
	Total kWh	Total KCM
01/09/2016	45,045,217	4,306.0
02/09/2016	103,700,756	9,913.0
03/09/2016	63,987,699	6,117.0
04/09/2016	36,652,818	3,504.0
05/09/2016	103,695,425	9,912.0
06/09/2016	102,696,024	9,817.0
07/09/2016	72,520,474	6,932.0
08/09/2016	101,260,041	9,680.0
09/09/2016	103,698,196	9,913.0
10/09/2016	100,695,768	9,623.0
11/09/2016	90,881,347	8,688.0
12/09/2016	64,864,956	6,201.0
13/09/2016	87,748,368	8,388.0
14/09/2016	46,132,442	4,410.0
15/09/2016	102,701,292	9,817.0
16/09/2016	103,868,400	9,929.0
17/09/2016	103,859,559	9,928.0
18/09/2016	103,860,384	9,928.0
19/09/2016	103,849,752	9,927.0
20/09/2016	88,609,280	8,470.0
21/09/2016	67,929,920	6,494.0
22/09/2016	103,696,584	9,913.0
23/09/2016	99,026,370	9,466.0
24/09/2016	95,525,654	9,132.0
25/09/2016	82,988,044	7,933.0
26/09/2016	103,196,208	9,865.0
27/09/2016	89,684,318	8,573.0
28/09/2016	103,696,440	9,913.0
29/09/2016	35,523,723	3,396.0
30/09/2016	99,706,320	9,531.0
Totals	2,611,301,779	249,619.0

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2. Balancing Actions

	Balancing Buy		Balancing Sell	
	kWh	KCM	kWh	KCM
01/09/2016	10,000,000	907.0	10,000,000	907.0
02/09/2016	0	0.0	0	0.0
03/09/2016	0	0.0	0	0.0
04/09/2016	10,000,000	910.7	0	0.0
05/09/2016	5,000,000	455.0	0	0.0
06/09/2016	10,000,000	916.3	0	0.0
07/09/2016	10,000,000	909.3	0	0.0
08/09/2016	10,000,000	905.9	10,000,000	905.9
09/09/2016	0	0.0	0	0.0
10/09/2016	0	0.0	0	0.0
11/09/2016	0	0.0	0	0.0
12/09/2016	10,000,000	904.7	10,000,000	904.7
13/09/2016	6,000,000	542.3	0	0.0
14/09/2016	10,000,000	906.1	10,000,000	906.1
15/09/2016	0	0.0	0	0.0
16/09/2016	0	0.0	0	0.0
17/09/2016	0	0.0	0	0.0
18/09/2016	0	0.0	0	0.0
19/09/2016	0	0.0	0	0.0
20/09/2016	0	0.0	0	0.0
21/09/2016	0	0.0	0	0.0
22/09/2016	0	0.0	0	0.0
23/09/2016	0	0.0	0	0.0
24/09/2016	0	0.0	0	0.0
25/09/2016	0	0.0	0	0.0
26/09/2016	0	0.0	0	0.0
27/09/2016	0	0.0	0	0.0
28/09/2016	0	0.0	0	0.0
29/09/2016	0	0.0	0	0.0
30/09/2016	0	0.0	0	0.0
Totals	81,000,000	7,357.3	40,000,000	3,623.7

Balancing and Buy and Sell is measured in Energy. Conversion to Volume has been carried out for indicative purposes only using the Average Daily CV at Beattock

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3. Imbalance Price (Excluding Northern Ireland's Flows)

Balancing Transportation Cost €/kWh	0.055188
Applicable Second Tier Positive Imbalance Multiplier for this Month	0.75
Applicable Second Tier Negative Imbalance Multiplier for this Month	1.25

	System Marginal Price €/kWh		System Average Price €/kWh	First Tier Price €/kWh		Second Tier Price €/kWh	
	Buy	Sell		Buy	Sell	Buy	Sell
01/09/2016	0.912909	0.811353	0.855822	0.872938	0.838706	1.124966	0.586679
02/09/2016	1.173748	1.071479	1.115948	1.138267	1.093629	1.450123	0.781773
03/09/2016	1.143311	1.033111	1.077580	1.099132	1.056028	1.402163	0.752997
04/09/2016	1.305429	1.057633	1.102102	1.124144	1.080060	1.432816	0.771388
05/09/2016	1.284985	1.181067	1.171094	1.194516	1.147672	1.519056	0.823133
06/09/2016	1.167654	1.055521	1.099990	1.121990	1.077990	1.430176	0.769805
07/09/2016	1.023723	0.919651	0.964120	0.983402	0.944838	1.260338	0.667902
08/09/2016	1.030629	0.933613	0.978082	0.997644	0.958520	1.277791	0.678374
09/09/2016	0.983940	0.887267	0.931736	0.950371	0.913101	1.219858	0.643614
10/09/2016	1.018526	0.920589	0.965058	0.984359	0.945757	1.261511	0.668606
11/09/2016	0.985617	0.887971	0.932440	0.951089	0.913791	1.220738	0.644142
12/09/2016	0.928914	0.831769	0.876238	0.893763	0.858713	1.150486	0.601991
13/09/2016	0.938263	0.844206	0.888675	0.906449	0.870902	1.166032	0.611318
14/09/2016	0.888714	0.798212	0.842681	0.859535	0.825827	1.108539	0.576823
15/09/2016	1.158125	1.068780	1.113249	1.135514	1.090984	1.446749	0.779749
16/09/2016	1.239511	1.139062	1.183531	1.207202	1.159860	1.534602	0.832460
17/09/2016	1.200936	1.115830	1.160299	1.183505	1.137093	1.505562	0.815036
18/09/2016	1.197193	1.103745	1.148214	1.171178	1.125250	1.490456	0.805973
19/09/2016	1.396726	1.284554	1.329023	1.355603	1.302443	1.716467	0.941579
20/09/2016	1.345621	1.200309	1.244778	1.269674	1.219882	1.611161	0.878395
21/09/2016	1.433489	1.337236	1.385812	1.413528	1.358096	1.787453	0.984171
22/09/2016	1.421589	1.344276	1.388745	1.416520	1.360970	1.791119	0.986371
23/09/2016	1.347950	1.278101	1.322570	1.349021	1.296119	1.708401	0.936740
24/09/2016	1.306809	1.246421	1.290890	1.316708	1.265072	1.668801	0.912980
25/09/2016	1.239866	1.178016	1.222485	1.246935	1.198035	1.583294	0.861676
26/09/2016	1.390745	1.332191	1.376660	1.404193	1.349127	1.776013	0.977307
27/09/2016	1.329545	1.259093	1.303562	1.329633	1.277491	1.684641	0.922484
28/09/2016	1.339667	1.266133	1.310602	1.336814	1.284390	1.693441	0.927764
29/09/2016	1.508045	1.435209	1.479678	1.509272	1.450084	1.904786	1.054571
30/09/2016	1.381601	1.306847	1.351316	1.378342	1.324290	1.744333	0.958299

First tier Buy/Sell Price = System Average price

Second Tier Sell Price = LOWER OF (System Marginal Sell Price - Balancing Transportation Cost) AND (Applicable Second Tier Positive Imbalance for this Month of the First Tier Sell price - Balancing Transportation Cost)

Second Tier Buy Price = HIGHER OF (System Marginal Buy Price - Balancing Transportation Cost) AND (Applicable Second Tier Negative Imbalance for this Month of the First Tier Buy price - Balancing Transportation Cost)

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3. Imbalance Price (Excluding Northern Ireland's Flows)

	Total First Tier Cost €		Total Second Tier Cost €	
	Buy	Sell	Buy	Sell
01/09/2016	27,012.72	(9,170.09)	661.56	0.00
02/09/2016	1,082.75	(15,428.17)	26.86	(2,408.35)
03/09/2016	52,551.64	(6,635.05)	114,275.56	(2,021.05)
04/09/2016	43,705.47	(8,099.80)	54,687.65	(3,085.60)
05/09/2016	4,224.96	(16,559.39)	0.00	(494.70)
06/09/2016	2,946.63	(17,295.64)	0.00	(366.10)
07/09/2016	3,211.53	(17,965.17)	0.08	(23.35)
08/09/2016	3,209.16	(20,927.03)	609.09	(0.01)
09/09/2016	6,345.16	(23,538.60)	3,432.93	(92.64)
10/09/2016	1,392.73	(14,711.77)	0.49	(3,801.63)
11/09/2016	2,975.61	(16,611.48)	2,149.26	(3,161.08)
12/09/2016	4,827.67	(9,723.47)	4,441.69	(49.07)
13/09/2016	5,731.03	(7,800.61)	752.57	(2,296.15)
14/09/2016	5,251.87	(4,872.52)	0.00	(42.86)
15/09/2016	1,342.43	(10,099.10)	174.77	(0.06)
16/09/2016	404.70	(20,488.64)	0.00	0.00
17/09/2016	944.46	(37,827.29)	1.16	(168.51)
18/09/2016	514.65	(13,341.31)	1,453.66	(5,182.79)
19/09/2016	9,863.03	(8,251.49)	846.67	0.00
20/09/2016	5,725.30	(14,852.33)	36.33	(27,779.64)
21/09/2016	10,029.44	(25,574.69)	1,054.73	0.00
22/09/2016	3,802.15	(24,965.96)	0.00	(466.80)
23/09/2016	6,678.00	(16,256.36)	1,112.56	0.00
24/09/2016	5,013.75	(13,802.02)	1,574.13	(1,061.88)
25/09/2016	6,242.76	(7,645.24)	2,699.00	(848.75)
26/09/2016	7,244.30	(22,946.40)	0.00	(1,073.06)
27/09/2016	19,964.73	(6,086.97)	0.00	(229.08)
28/09/2016	6,103.85	(17,060.39)	31.77	(453.35)
29/09/2016	70,560.90	(9,836.31)	119,879.84	(627.13)
30/09/2016	10,120.92	(11,961.27)	12,735.02	0.00

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4. Gas Consumption by Market Sector

	LDM Sector kWh	DM Sector kWh	NDM Sector kWh
01/09/2016	148,728,720	7,363,154	12,620,736
02/09/2016	163,237,722	7,009,599	11,342,014
03/09/2016	153,422,794	5,218,347	12,004,506
04/09/2016	143,122,147	5,050,142	10,499,393
05/09/2016	151,196,095	6,677,294	9,761,684
06/09/2016	177,292,606	6,625,250	8,991,271
07/09/2016	146,856,767	6,740,270	9,906,170
08/09/2016	141,948,476	6,919,960	11,225,857
09/09/2016	133,788,440	6,703,833	13,128,790
10/09/2016	138,490,895	5,327,546	12,015,528
11/09/2016	111,283,581	5,127,529	11,735,818
12/09/2016	175,130,741	6,848,594	11,917,513
13/09/2016	179,213,318	7,169,955	12,782,626
14/09/2016	187,701,118	7,055,888	11,961,981
15/09/2016	191,097,813	6,978,414	11,356,218
16/09/2016	168,887,137	6,781,082	12,529,771
17/09/2016	169,048,106	5,515,178	11,446,772
18/09/2016	150,840,198	4,862,510	12,554,484
19/09/2016	197,413,152	7,277,551	16,210,994
20/09/2016	179,079,399	7,513,530	15,979,283
21/09/2016	171,372,666	7,518,119	19,115,223
22/09/2016	170,211,456	7,631,043	18,960,708
23/09/2016	124,118,225	7,128,442	19,704,130
24/09/2016	112,380,872	5,529,415	16,670,226
25/09/2016	127,000,203	5,839,198	16,995,786
26/09/2016	175,386,781	7,426,424	18,063,283
27/09/2016	134,651,625	7,283,123	16,175,686
28/09/2016	127,592,378	7,154,068	14,435,386
29/09/2016	142,721,371	7,605,624	16,633,025
30/09/2016	180,236,546	7,656,782	20,850,912
Totals	4,673,451,348	199,537,864	417,575,774

Cleansed Totals	4,672,819,844	206,854,293	406,446,508
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Physical Daily Totals Analysis

	LDM Sector kWh	DM Sector kWh	NDM Sector kWh
Month Min	111,283,581	4,862,510	8,991,271
Month Max	197,413,152	7,656,782	20,850,912
Month Average	155,781,712	6,651,262	13,919,192
YTD Min	86,812,168	4,256,200	7,040,132
YTD Max	200,629,057	11,405,851	71,453,307
YTD Average	148,734,080	7,828,956	30,559,328
YTD Rolling Total	54,436,673,334	2,865,397,798	11,184,714,084

Cleansed monthly Totals Analysis

	LDM Sector kWh	DM Sector kWh	NDM Sector kWh
YTD Min	3,885,125,083	185,855,295	305,064,827
YTD Max	4,826,378,072	288,055,274	1,724,663,102
YTD Average	4,536,262,416	240,124,684	937,697,277
YTD Rolling Total	54,435,148,988	2,881,496,204	11,252,367,321

The LDM value includes the off take at Twynholm (PTL) and Glen Mooar (Isle of Man)

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5. Gas Quality

	Ballygarraun AGI - Supply to Galway (MJ/m3)	Ballyveelish AGI - Supply to Clonmel (MJ/m3)	Barnakyle AGI - Supply to Adare (MJ/m3)	Caherlag AGI - Supply to Cork & Ballincollig (MJ/m3)	Curraleigh West (MJ/m3)	Dublin City (MJ/m3)
01/09/2016	37.68	38.56	37.25	37.84	37.69	39.00
02/09/2016	37.65	39.13	38.06	37.94	37.69	39.41
03/09/2016	37.67	39.44	37.74	37.93	37.87	39.23
04/09/2016	37.69	39.23	37.34	38.58	37.69	39.50
05/09/2016	37.67	39.70	37.93	38.24	37.69	39.48
06/09/2016	37.66	39.56	37.84	38.12	37.69	39.56
07/09/2016	37.67	39.51	37.59	38.32	37.69	39.33
08/09/2016	37.68	39.42	37.24	38.20	37.69	39.17
09/09/2016	37.67	39.26	38.27	38.08	37.69	38.40
10/09/2016	37.67	38.32	37.14	38.01	37.69	38.33
11/09/2016	37.67	38.45	37.78	37.93	37.69	38.35
12/09/2016	37.68	38.44	37.84	38.01	38.01	38.69
13/09/2016	37.66	39.26	37.50	37.87	38.16	39.69
14/09/2016	37.66	39.73	37.79	37.97	38.21	39.69
15/09/2016	37.66	39.82	37.36	38.29	38.19	39.77
16/09/2016	37.68	39.83	38.02	38.24	38.07	39.72
17/09/2016	37.67	39.73	37.88	38.17	37.99	39.65
18/09/2016	37.68	39.71	37.37	38.23	38.11	38.69
19/09/2016	37.67	38.53	37.57	38.09	37.70	39.18
20/09/2016	37.67	39.00	37.84	37.80	37.69	39.14
21/09/2016	37.67	38.94	37.67	37.87	37.69	39.90
22/09/2016	37.67	39.03	37.50	37.72	37.69	39.49
23/09/2016	37.67	38.86	37.60	37.65	37.69	39.02
24/09/2016	37.68	39.10	37.90	37.60	37.69	37.84
25/09/2016	37.65	38.14	37.80	37.67	37.69	39.16
26/09/2016	37.67	38.87	37.43	37.73	37.69	38.62
27/09/2016	37.67	38.02	37.57	37.69	37.69	38.95
28/09/2016	37.66	37.65	37.82	37.66	37.69	38.63
29/09/2016	37.68	38.40	37.70	37.66	37.69	38.42
30/09/2016	37.67	39.24	37.71	37.92	37.69	39.96

	Gormanston - Node (MJ/m3)	Ories AGI - Supply to Athlone (MJ/m3)	Springhill AGI - Supply to Carlow (MJ/m3)
01/09/2016	39.41	37.59	38.47
02/09/2016	39.65	37.54	38.90
03/09/2016	39.66	37.52	39.18
04/09/2016	39.61	39.42	38.87
05/09/2016	39.52	38.37	39.41
06/09/2016	39.60	37.86	39.53
07/09/2016	39.52	37.64	39.17
08/09/2016	39.30	37.57	39.19
09/09/2016	39.29	37.63	38.30
10/09/2016	39.47	37.98	38.18
11/09/2016	39.58	37.36	38.01
12/09/2016	39.66	37.65	37.79
13/09/2016	39.74	38.14	38.33
14/09/2016	39.80	38.42	39.52
15/09/2016	39.81	39.74	39.72
16/09/2016	39.73	37.76	39.77
17/09/2016	39.75	37.79	39.71

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	Gormanston - Node (MJ/m3)	Ories AGI - Supply to Athlone (MJ/m3)	Springhill AGI - Supply to Carlow (MJ/m3)
18/09/2016	39.73	37.52	39.37
19/09/2016	39.78	37.74	37.74
20/09/2016	40.11	37.72	38.06
21/09/2016	40.04	37.67	38.41
22/09/2016	40.01	37.70	39.54
23/09/2016	39.74	37.44	38.10
24/09/2016	40.00	37.68	37.71
25/09/2016	40.06	37.88	37.67
26/09/2016	40.00	37.46	37.82
27/09/2016	39.89	37.68	38.25
28/09/2016		37.90	37.73
29/09/2016	39.98	37.36	38.20
30/09/2016	39.96	37.73	38.07

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6. Scheduling Charges

Category	Tolerance	Notes
Entry	3%	+ MDQ versus EODQ.
LDM Exit	10%	
DM Exit	20%	
NDM Exit	20%	no charges if nominated as instructed.

Charged Levelled at	5% of the balancing gas price
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7. Monthly Shrinkage Total for Transportation

Total Transportation Shrinkage : **48,000,000 kWh**

Transmission Shrinkage % of Entry Throughput was 1.9% for the 12 month period Oct-15 to Sep-16