



## Gas Transportation Management System

### Transportation Network Monthly Report

Parameters Entered	
Gas Month	September
Gas Year	2015

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# Transportation Network Monthly Report

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## 1. Entry Point Energy/Volume of Gas

	Moffat		PTL		Isle of Man	
	Total kWh	Total M3	Total kWh	Total M3	Total kWh	Total M3
01/09/2015	124,875,270	10,541,809.3	31,745,217	2,679,890.5	3,468,489	292,805.6
02/09/2015	132,785,993	11,140,699.1	37,892,602	3,179,176.2	3,499,465	293,603.4
03/09/2015	133,913,570	11,243,598.1	32,973,891	2,768,540.4	3,511,845	294,860.0
04/09/2015	131,667,892	11,093,271.8	29,524,179	2,487,469.0	3,552,938	299,342.1
05/09/2015	121,209,810	10,174,465.5	33,262,523	2,792,087.3	2,349,499	197,219.3
06/09/2015	129,039,600	10,807,771.3	49,872,050	4,177,056.8	2,411,050	201,938.3
07/09/2015	149,888,227	12,563,211.6	48,226,346	4,042,197.2	3,529,307	295,817.0
08/09/2015	124,950,421	10,472,994.6	39,564,347	3,316,172.6	3,540,788	296,778.8
09/09/2015	120,149,543	10,082,985.2	48,642,856	4,082,122.5	3,607,775	302,765.8
10/09/2015	108,194,693	9,057,448.9	39,487,217	3,305,646.7	3,496,475	292,705.1
11/09/2015	114,370,577	9,635,939.7	32,039,713	2,699,407.3	3,411,759	287,446.9
12/09/2015	123,198,951	10,387,443.4	25,298,942	2,133,064.7	2,446,117	206,243.2
13/09/2015	132,357,906	11,151,407.0	29,714,545	2,503,507.1	2,272,167	191,434.2
14/09/2015	148,770,923	12,481,828.9	40,559,943	3,402,965.2	3,487,890	292,633.1
15/09/2015	155,719,196	13,061,574.4	39,593,917	3,321,099.2	3,409,107	285,952.5
16/09/2015	159,315,886	13,343,575.4	50,210,412	4,205,396.7	3,584,817	300,248.0
17/09/2015	163,799,597	13,732,597.4	40,261,478	3,375,433.6	3,561,165	298,560.3
18/09/2015	165,572,107	13,843,776.5	35,459,043	2,964,793.1	3,491,013	291,890.2
19/09/2015	140,985,114	11,788,014.2	31,873,047	2,664,962.0	2,319,655	193,950.0
20/09/2015	122,439,660	10,247,442.1	32,861,060	2,750,267.8	2,410,394	201,735.5
21/09/2015	146,728,244	12,292,309.8	40,360,341	3,381,229.2	3,560,192	298,259.0
22/09/2015	135,932,575	11,385,095.6	40,504,796	3,392,498.0	3,595,859	301,172.9
23/09/2015	125,995,611	10,552,820.4	35,841,987	3,001,961.7	3,684,727	308,616.3
24/09/2015	119,564,899	10,016,673.1	38,806,581	3,251,061.1	3,660,187	306,635.8
25/09/2015	139,940,830	11,735,214.9	42,814,585	3,590,362.6	3,700,206	310,293.5
26/09/2015	117,276,555	9,834,624.9	33,534,064	2,812,112.9	2,400,373	201,291.1
27/09/2015	108,719,341	9,119,272.2	27,528,155	2,309,034.9	2,352,493	197,324.4
28/09/2015	112,766,198	9,507,812.8	31,432,415	2,650,205.0	3,601,409	303,650.8
29/09/2015	143,054,222	12,130,486.3	39,850,806	3,379,206.0	3,606,202	305,793.4
30/09/2015	139,095,010	11,698,795.7	41,732,218	3,509,951.1	3,561,607	299,554.4
<b>Totals</b>	<b>3,992,278,421</b>	<b>335,124,960.0</b>	<b>1,121,469,276</b>	<b>94,128,878.5</b>	<b>97,084,970</b>	<b>8,150,520.8</b>

	Moffat	
	kWh	M3
Month Min	108,194,693	9,057,448.9
Month Max	165,572,107	13,843,776.5
Month Average	133,075,947	11,170,832.0
YTD Min	77,163,477	6,716,825.7
YTD Max	175,477,373	15,105,134.4
YTD Average	126,455,680	10,863,507.2

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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## 2. Balancing Actions

	Balancing Buy		Balancing Sell	
	kWh	M3	kWh	M3
01/09/2015	0	0.0	0	0.0
02/09/2015	0	0.0	0	0.0
03/09/2015	4,997,150	419,597.3	0	0.0
04/09/2015	4,999,498	421,208.2	0	0.0
05/09/2015	0	0.0	0	0.0
06/09/2015	0	0.0	0	0.0
07/09/2015	0	0.0	0	0.0
08/09/2015	0	0.0	0	0.0
09/09/2015	0	0.0	0	0.0
10/09/2015	0	0.0	0	0.0
11/09/2015	0	0.0	0	0.0
12/09/2015	0	0.0	0	0.0
13/09/2015	0	0.0	0	0.0
14/09/2015	0	0.0	0	0.0
15/09/2015	0	0.0	0	0.0
16/09/2015	0	0.0	0	0.0
17/09/2015	0	0.0	0	0.0
18/09/2015	5,003,605	418,365.4	0	0.0
19/09/2015	5,001,321	418,175.9	0	0.0
20/09/2015	0	0.0	0	0.0
21/09/2015	0	0.0	0	0.0
22/09/2015	0	0.0	0	0.0
23/09/2015	0	0.0	0	0.0
24/09/2015	0	0.0	0	0.0
25/09/2015	0	0.0	0	0.0
26/09/2015	0	0.0	0	0.0
27/09/2015	0	0.0	0	0.0
28/09/2015	0	0.0	0	0.0
29/09/2015	0	0.0	0	0.0
30/09/2015	0	0.0	0	0.0
<b>Totals</b>	<b>20,001,574</b>	<b>1,677,346.8</b>	<b>0</b>	<b>0.0</b>

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	0.067047
Applicable Second Tier Positive Imbalance Multiplier for this Month	0.95
Applicable Second Tier Negative Imbalance Multiplier for this Month	1.05

	System Marginal Price €/kWh		System Average Price €/kWh	First Tier Price €/kWh		Second Tier Price €/kWh	
	Buy	Sell		Buy	Sell	Buy	Sell
01/09/2015	1.913210	1.825268	1.871214	1.871214	1.871214	2.031822	1.710606
02/09/2015	1.936355	1.859318	1.905264	1.905264	1.905264	2.067574	1.742954
03/09/2015	2.014976	1.931929	1.977875	1.977875	1.977875	2.143816	1.811934
04/09/2015	1.987833	1.896512	1.942458	1.942458	1.942458	2.106628	1.778288
05/09/2015	2.009174	1.914699	1.960646	1.960646	1.960646	2.125725	1.795567
06/09/2015	2.032862	1.938356	1.984302	1.984302	1.984302	2.150564	1.818040
07/09/2015	2.016294	1.921810	1.967756	1.967756	1.967756	2.133191	1.802321
08/09/2015	2.049006	1.923588	1.969534	1.969534	1.969534	2.135058	1.804010
09/09/2015	2.023445	1.914426	1.960372	1.960372	1.960372	2.125438	1.795306
10/09/2015	2.007433	1.902529	1.948475	1.948475	1.948475	2.112946	1.784004
11/09/2015	2.001506	1.907725	1.953672	1.953672	1.953672	2.118403	1.788941
12/09/2015	1.988000	1.901845	1.947792	1.947792	1.947792	2.112229	1.783355
13/09/2015	2.001090	1.914973	1.960919	1.960919	1.960919	2.126012	1.795826
14/09/2015	2.043495	1.957500	2.003447	2.003447	2.003447	2.170666	1.836228
15/09/2015	2.008712	1.925912	1.971859	1.971859	1.971859	2.137499	1.806219
16/09/2015	2.010871	1.906221	1.952167	1.952167	1.952167	2.116822	1.787512
17/09/2015	2.003980	1.904854	1.950800	1.950800	1.950800	2.115387	1.786213
18/09/2015	1.976705	1.880787	1.926733	1.926733	1.926733	2.090117	1.763349
19/09/2015	1.997376	1.850156	1.896102	1.896102	1.896102	2.064423	1.734250
20/09/2015	1.945740	1.835251	1.881197	1.881197	1.881197	2.042304	1.720090
21/09/2015	1.926963	1.816653	1.862600	1.862600	1.862600	2.022777	1.702423
22/09/2015	1.949743	1.833883	1.879829	1.879829	1.879829	2.040867	1.718791
23/09/2015	1.987940	1.891726	1.937672	1.937672	1.937672	2.101603	1.773741
24/09/2015	1.921078	1.848652	1.894598	1.894598	1.894598	2.056375	1.732821
25/09/2015	1.940796	1.858087	1.904033	1.904033	1.904033	2.066282	1.741784
26/09/2015	1.966132	1.884752	1.930698	1.930698	1.930698	2.094280	1.767116
27/09/2015	1.935664	1.854121	1.900068	1.900068	1.900068	2.062118	1.738018
28/09/2015	1.864527	1.782604	1.828550	1.828550	1.828550	1.987025	1.670075
29/09/2015	1.874713	1.802842	1.848788	1.848788	1.848788	2.008274	1.689302
30/09/2015	1.851185	1.777544	1.823491	1.823491	1.823491	1.981713	1.665269

	Total First Tier Cost €		Total Second Tier Cost €	
	Buy	Sell	Buy	Sell
01/09/2015	19,843.21	(9,580.18)	2,437.98	0.00
02/09/2015	9,360.31	(15,260.19)	1,479.74	0.00
03/09/2015	12,401.48	(23,505.70)	1,167.97	0.00
04/09/2015	8,881.33	(13,108.37)	895.80	0.00
05/09/2015	49,074.32	(5,060.34)	0.00	(969.48)
06/09/2015	9,656.57	(44,756.35)	0.00	(3,428.70)
07/09/2015	12,533.41	(25,059.22)	501.41	0.00
08/09/2015	12,924.42	(15,966.16)	0.00	0.00
09/09/2015	9,428.47	(15,313.18)	0.00	(1,077.96)
10/09/2015	4,454.62	(16,421.34)	0.00	0.00
11/09/2015	11,185.97	(14,073.75)	1,995.26	0.00
12/09/2015	6,223.29	(17,533.40)	711.00	0.00
13/09/2015	10,421.18	(8,557.08)	2,303.77	0.00
14/09/2015	14,420.78	(17,329.82)	1,617.62	0.00
15/09/2015	16,245.80	(32,119.84)	0.00	(1,328.13)
16/09/2015	34,811.32	(652.24)	0.00	0.00
17/09/2015	12,936.52	(37,872.40)	0.00	(967.07)
18/09/2015	11,040.14	(20,653.00)	613.41	0.00
19/09/2015	6,340.30	(12,631.25)	0.00	(135.86)
20/09/2015	20,839.86	(4,241.97)	528.30	0.00
21/09/2015	6,269.34	(17,253.70)	0.00	(61.88)
22/09/2015	15,666.34	(22,311.21)	2,601.84	0.00
23/09/2015	2,582.65	(14,626.80)	0.00	0.00
24/09/2015	23,579.90	(12,257.47)	0.00	0.00
25/09/2015	10,923.79	(25,498.26)	0.00	0.00
26/09/2015	6,908.99	(15,689.98)	0.00	(409.02)
27/09/2015	8,008.88	(38,725.14)	0.00	(1,078.67)
28/09/2015	10,873.87	(27,890.68)	0.00	(1,488.19)
29/09/2015	15,997.46	(16,322.81)	0.00	0.00
30/09/2015	56,546.48	(20,026.03)	12,740.18	0.00

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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### 4. Gas Consumption by Market Sector

	LDM Sector kWh	DM Sector kWh	NDM Sector kWh
01/09/2015	135,721,135	7,612,718	15,063,910
02/09/2015	146,425,676	7,618,934	17,479,790
03/09/2015	135,173,464	7,756,243	19,646,233
04/09/2015	131,903,250	7,226,165	18,042,284
05/09/2015	135,942,491	5,823,858	14,845,610
06/09/2015	154,586,210	5,354,885	16,482,989
07/09/2015	173,493,181	7,635,484	17,585,533
08/09/2015	143,260,430	7,262,797	14,891,742
09/09/2015	147,129,143	7,513,944	15,101,678
10/09/2015	127,104,257	7,180,527	13,877,896
11/09/2015	123,883,881	7,061,866	16,238,626
12/09/2015	118,704,508	5,787,104	14,295,258
13/09/2015	124,276,031	5,440,824	15,927,885
14/09/2015	145,005,582	7,798,542	20,122,297
15/09/2015	153,959,186	7,558,997	17,392,917
16/09/2015	169,924,933	8,033,607	17,910,627
17/09/2015	161,113,758	7,736,195	17,144,145
18/09/2015	154,920,987	7,080,321	17,701,820
19/09/2015	129,198,259	5,620,814	15,802,337
20/09/2015	116,792,801	5,321,273	17,253,495
21/09/2015	145,018,475	7,554,876	18,365,537
22/09/2015	149,572,508	7,653,987	20,045,065
23/09/2015	139,955,611	7,552,389	19,651,542
24/09/2015	136,128,604	7,808,996	21,096,614
25/09/2015	159,955,967	7,176,133	20,958,834
26/09/2015	132,356,539	5,871,991	16,569,488
27/09/2015	117,267,521	5,396,016	16,128,772
28/09/2015	123,470,603	7,550,708	18,064,032
29/09/2015	163,074,360	7,591,952	17,910,105
30/09/2015	162,678,174	7,487,017	18,809,701
<b>Totals</b>	<b>4,257,997,525</b>	<b>210,069,163</b>	<b>520,406,762</b>

<b>Cleansed Totals</b>	<b>4,257,997,525</b>	<b>209,998,718</b>	<b>521,788,370</b>
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### Physical Daily Totals Analysis

	LDM Sector kWh	DM Sector kWh	NDM Sector kWh
Month Min	116,792,801	5,321,273	13,877,896
Month Max	173,493,181	8,033,607	21,096,614
Month Average	141,933,251	7,002,305	17,346,892
YTD Min	86,389,091	4,397,714	7,566,962
YTD Max	196,142,377	11,185,778	73,463,279
YTD Average	135,890,151	7,615,860	32,189,588
YTD Rolling Total	49,599,904,949	2,779,788,814	11,749,199,732

### Cleansed monthly Totals Analysis

	LDM Sector kWh	DM Sector kWh	NDM Sector kWh
YTD Min	3,772,668,105	186,726,829	332,978,659
YTD Max	4,345,335,144	289,318,749	1,817,881,859
YTD Average	4,134,828,442	232,394,756	978,694,628
YTD Rolling Total	49,617,941,307	2,788,737,074	11,744,335,540

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

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## 5. Gas Quality

	Barnakyle - Adare (kWh/Nm3)	Ballygarraun Co Galway (kWh/Nm3)	Caherlag Exit Point (kWh/Nm3)	Curraleigh West (kWh/Nm3)	Dublin City (kWh/Nm3)	Gormanston - Node (kWh/Nm3)	Ories (kWh/Nm3)	Springhill - Carlow By Diff. (kWh/Nm3)	Ballyveelish (Clonmel) (kWh/Nm3)
01/09/2015	11.81	11.87	11.89	11.81	11.79	11.83	11.82	11.70	11.82
02/09/2015	11.85	11.87	11.87	11.77	11.81	11.82	11.77	11.68	11.81
03/09/2015	11.84	11.86	11.81	11.73	11.82	11.89	11.89	11.92	11.82
04/09/2015	11.78	11.81	11.82	11.80	11.87	11.91	11.82	11.70	11.84
05/09/2015	11.83	11.80	11.79	11.76	11.90	11.90	11.97	11.87	11.86
06/09/2015	11.89	11.83	11.83	11.90	11.88	11.87	11.92	11.91	11.91
07/09/2015	11.89	11.83	11.88	11.90	11.87	11.92	11.85	11.71	11.89
08/09/2015	11.89	11.83	11.90	11.89	11.90	11.94	11.88	11.82	11.90
09/09/2015	11.82	11.91	11.89	11.87	11.90	11.92	11.93	11.93	11.93
10/09/2015	11.93	11.91	11.91	11.89	11.91	11.93	11.90	11.70	11.93
11/09/2015	11.88	11.87	11.91	11.91	11.90	11.92	11.93	11.84	11.93
12/09/2015	11.94	11.89	11.88	11.91	11.90	11.93	11.93	11.90	11.93
13/09/2015	11.94	11.93	11.93	11.92	11.90	11.86	11.85	11.98	11.94
14/09/2015	11.91	11.94	11.93	11.93	11.89	11.85	11.92	11.82	11.86
15/09/2015	11.89	11.92	11.90	11.85	11.88	11.91	11.86	11.96	11.86
16/09/2015	11.94	11.93	11.86	11.83	11.86	11.92	11.89	11.80	11.91
17/09/2015	11.81	11.92	11.88	11.91	11.87	11.93	11.94	11.79	11.92
18/09/2015	11.87	11.90	11.89	11.91	11.90	11.93	11.86	11.98	11.94
19/09/2015	12.00	11.89	11.93	11.92	11.89	11.93	12.00	11.92	11.93
20/09/2015	11.90	11.93	11.95	11.91	11.92	11.96	11.85	11.85	11.93
21/09/2015	11.98	11.93	11.93	11.91	11.91	11.95	11.98	11.84	11.96
22/09/2015	11.84	11.93	11.91	11.95	11.93	11.94	11.95	11.94	11.96
23/09/2015	11.95	11.93	11.94	11.93	11.92	11.93	11.89	11.87	11.95
24/09/2015	12.06	11.93	11.82	11.93	11.92	11.93	11.97	11.92	11.95
25/09/2015	11.89	11.95	11.77	11.92	11.92	11.93	11.87	11.95	11.95
26/09/2015	11.96	11.95	11.89	11.92	11.92	11.93	11.91	12.04	11.95
27/09/2015	11.93	11.95	11.80	11.90	11.90	11.91	11.89	11.94	11.93
28/09/2015	11.90	11.94	11.67	11.93	11.90	11.91	11.99	11.78	11.95
29/09/2015	11.90	11.93	11.77	11.91	11.89	11.91	11.84	11.94	11.92
30/09/2015	11.99	11.93	11.83	11.91	11.87	11.76	11.92	11.84	11.91

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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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# Transportation Network Monthly Report

Month: Sep-2015



## 7. Monthly Shrinkage Total for Transportation

Total Transportation Shrinkage : **70,661,684 kWh**

Transmission Shrinkage % of Entry Throughput was 1.41% for the 12 month period Oct-14 to Sep-15