



Gas Transportation Management System

Transportation Network Monthly Report

Parameters Entered	
Gas Month	December
Gas Year	2015

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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
01/12/2015	112,471,592	9,630,549.8	44,471,549	3,807,942.9	4,399,370	376,702.3
02/12/2015	142,104,113	12,220,022.2	51,701,121	4,445,957.3	4,333,278	372,633.3
03/12/2015	140,650,519	12,022,289.3	53,106,590	4,539,355.6	4,486,553	383,493.7
04/12/2015	122,140,257	10,535,129.7	39,231,037	3,383,848.3	4,488,511	387,153.4
05/12/2015	109,085,602	9,401,977.3	37,418,243	3,225,040.0	4,266,020	367,684.0
06/12/2015	113,001,108	9,717,354.7	43,412,462	3,733,186.8	4,118,375	354,153.2
07/12/2015	108,379,212	9,322,251.9	38,242,500	3,289,433.3	4,361,279	375,135.9
08/12/2015	121,057,450	10,431,183.6	39,039,871	3,363,957.3	4,087,552	352,212.5
09/12/2015	120,658,982	10,409,995.3	41,051,931	3,541,803.8	4,498,601	388,121.8
10/12/2015	131,898,098	11,391,186.8	48,202,859	4,162,969.8	4,260,022	367,910.4
11/12/2015	140,837,494	12,166,305.6	55,250,197	4,772,811.0	4,614,793	398,650.6
12/12/2015	129,159,437	11,146,200.9	56,124,243	4,843,410.1	4,532,686	391,161.7
13/12/2015	102,140,687	8,779,003.2	54,767,023	4,707,231.4	4,515,489	388,106.6
14/12/2015	111,022,417	9,506,461.6	58,766,908	5,032,005.2	4,597,378	393,657.7
15/12/2015	105,400,879	9,095,885.4	52,201,575	4,504,891.3	4,546,935	392,391.7
16/12/2015	110,264,466	9,549,423.8	46,951,131	4,066,189.5	4,310,922	373,345.9
17/12/2015	93,516,159	8,094,831.3	37,894,217	3,280,152.5	4,122,862	356,878.5
18/12/2015	93,301,630	8,021,307.0	41,983,998	3,609,438.7	4,225,606	363,283.3
19/12/2015	99,083,654	8,518,397.1	32,766,146	2,816,963.7	3,971,173	341,408.9
20/12/2015	105,636,262	9,118,504.6	35,893,718	3,098,340.2	3,899,095	336,569.5
21/12/2015	111,879,659	9,657,434.1	45,856,151	3,958,295.8	4,382,881	378,329.3
22/12/2015	109,015,302	9,434,054.5	48,044,230	4,157,690.7	4,309,431	372,932.7
23/12/2015	110,577,941	9,552,321.6	43,796,137	3,783,347.0	4,411,052	381,050.8
24/12/2015	109,944,059	9,497,562.6	40,843,598	3,528,291.0	4,505,021	389,167.9
25/12/2015	108,518,324	9,372,027.4	40,117,046	3,464,650.2	3,176,601	274,342.5
26/12/2015	114,156,014	9,843,965.4	45,074,640	3,886,901.7	3,933,201	339,169.7
27/12/2015	103,794,243	8,957,235.4	37,660,439	3,250,020.7	4,059,578	350,333.4
28/12/2015	109,794,877	9,494,292.5	36,950,641	3,195,233.3	4,097,279	354,303.9
29/12/2015	106,754,331	9,224,352.5	36,398,524	3,145,097.7	4,275,171	369,405.8
30/12/2015	114,283,843	9,877,459.3	42,452,599	3,669,143.2	4,307,274	372,274.1
31/12/2015	104,091,228	8,982,865.2	38,491,893	3,321,773.9	4,523,241	390,346.8
Totals	3,514,619,839	302,971,831.7	1,364,163,217	117,585,373.8	132,617,230	11,432,311.7

	Moffat	
	kWh	M3
Month Min	93,301,630	8,021,307.0
Month Max	142,104,113	12,220,022.2
Month Average	113,374,834	9,773,284.9
YTD Min	93,148,328	7,967,965.7
YTD Max	167,675,316	14,386,340.0
YTD Average	125,258,952	10,757,056.7

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
01/12/2015	0	0.0	0	0.0
02/12/2015	0	0.0	0	0.0
03/12/2015	5,000,000	427,367.6	0	0.0
04/12/2015	5,000,000	431,252.8	0	0.0
05/12/2015	0	0.0	0	0.0
06/12/2015	0	0.0	0	0.0
07/12/2015	0	0.0	0	0.0
08/12/2015	0	0.0	0	0.0
09/12/2015	0	0.0	0	0.0
10/12/2015	5,000,000	431,821.3	0	0.0
11/12/2015	5,000,000	431,916.1	0	0.0
12/12/2015	0	0.0	0	0.0
13/12/2015	0	0.0	0	0.0
14/12/2015	0	0.0	0	0.0
15/12/2015	0	0.0	0	0.0
16/12/2015	5,000,000	433,053.2	0	0.0
17/12/2015	0	0.0	0	0.0
18/12/2015	0	0.0	0	0.0
19/12/2015	0	0.0	0	0.0
20/12/2015	0	0.0	0	0.0
21/12/2015	0	0.0	0	0.0
22/12/2015	0	0.0	0	0.0
23/12/2015	0	0.0	0	0.0
24/12/2015	0	0.0	0	0.0
25/12/2015	0	0.0	0	0.0
26/12/2015	0	0.0	0	0.0
27/12/2015	0	0.0	0	0.0
28/12/2015	0	0.0	0	0.0
29/12/2015	0	0.0	0	0.0
30/12/2015	0	0.0	0	0.0
31/12/2015	0	0.0	0	0.0
Totals	25,000,000	2,155,411.0	0	0.0

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	0.060953
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
01/12/2015	1.928368	1.764584	1.816791	1.816791	1.816791	1.989321	1.664998
02/12/2015	1.911460	1.754253	1.806460	1.806460	1.806460	1.972413	1.655184
03/12/2015	1.879528	1.739513	1.791721	1.791721	1.791721	1.942260	1.641182
04/12/2015	1.893626	1.773951	1.826158	1.826158	1.826158	1.978419	1.673897
05/12/2015	1.880173	1.754390	1.806598	1.806598	1.806598	1.957881	1.655315
06/12/2015	1.861781	1.736207	1.788415	1.788415	1.788415	1.938789	1.638041
07/12/2015	1.784311	1.659618	1.711825	1.711825	1.711825	1.858369	1.565281
08/12/2015	1.774997	1.673393	1.725601	1.725601	1.725601	1.872834	1.578368
09/12/2015	1.766515	1.660031	1.712239	1.712239	1.712239	1.858804	1.565674
10/12/2015	1.794195	1.683724	1.735932	1.735932	1.735932	1.883682	1.588182
11/12/2015	1.799142	1.685928	1.738136	1.738136	1.738136	1.885996	1.590276
12/12/2015	1.715289	1.610992	1.663200	1.663200	1.663200	1.807313	1.519087
13/12/2015	1.717630	1.613334	1.665541	1.665541	1.665541	1.809771	1.521311
14/12/2015	1.735399	1.631104	1.683311	1.683311	1.683311	1.828430	1.538192
15/12/2015	1.657060	1.550933	1.603140	1.603140	1.603140	1.744250	1.462030
16/12/2015	1.644790	1.545698	1.597906	1.597906	1.597906	1.738754	1.457058
17/12/2015	1.552298	1.449273	1.501480	1.501480	1.501480	1.637507	1.365453
18/12/2015	1.569647	1.466767	1.518975	1.518975	1.518975	1.655877	1.382073
19/12/2015	1.512777	1.416488	1.468696	1.468696	1.468696	1.603084	1.334308
20/12/2015	1.522779	1.426544	1.478752	1.478752	1.478752	1.613643	1.343861
21/12/2015	1.587861	1.491976	1.544183	1.544183	1.544183	1.682345	1.406021
22/12/2015	1.525945	1.443074	1.495282	1.495282	1.495282	1.630999	1.359565
23/12/2015	1.476944	1.386872	1.439079	1.439079	1.439079	1.571986	1.306172
24/12/2015	1.484882	1.397341	1.449549	1.449549	1.449549	1.582979	1.316119
25/12/2015	1.530156	1.445554	1.497761	1.497761	1.497761	1.633602	1.361920
26/12/2015	1.473040	1.387699	1.439906	1.439906	1.439906	1.572854	1.306958
27/12/2015	1.492079	1.406984	1.459191	1.459191	1.459191	1.593104	1.325278
28/12/2015	1.479296	1.394035	1.446242	1.446242	1.446242	1.579507	1.312977
29/12/2015	1.545571	1.471175	1.523383	1.523383	1.523383	1.660505	1.386261
30/12/2015	1.602325	1.524485	1.576692	1.576692	1.576692	1.716480	1.436904
31/12/2015	1.518905	1.414835	1.483435	1.483435	1.483435	1.618560	1.348310

	Total First Tier Cost €		Total Second Tier Cost €	
	Buy	Sell	Buy	Sell
01/12/2015	13.86	(44,846.24)	0.00	(4,669.39)
02/12/2015	14,803.05	(11,037.35)	0.00	0.00
03/12/2015	25,579.13	(5,103.62)	2,610.92	0.00
04/12/2015	12,591.76	(34,146.37)	0.00	(83.43)
05/12/2015	6,967.21	(39,406.28)	0.00	(10,028.30)
06/12/2015	10,720.19	(35,668.50)	81,223.04	(3,464.26)
07/12/2015	3,281.00	(39,159.71)	0.00	(2,145.22)
08/12/2015	32,105.94	(6,389.69)	6,658.02	0.00
09/12/2015	28,895.92	(1,029.20)	2,679.89	0.00
10/12/2015	15,941.04	(13,097.04)	0.00	0.00
11/12/2015	10,864.35	(16,289.19)	1,578.41	0.00
12/12/2015	4,674.22	(37,048.39)	0.00	0.00
13/12/2015	706.95	(27,999.45)	0.00	(13,026.82)
14/12/2015	7,944.57	(44,158.88)	0.00	(16,798.53)
15/12/2015	7,785.60	(11,731.57)	0.00	(49,278.60)
16/12/2015	9,047.38	(23,055.36)	0.00	(1,819.47)
17/12/2015	9,713.80	(9,674.48)	415.35	0.00
18/12/2015	721.77	(24,061.05)	14.24	0.00
19/12/2015	1,350.20	(58,064.78)	0.00	(22,178.07)
20/12/2015	4,295.43	(33,305.66)	0.00	(9,884.62)
21/12/2015	10,862.54	(9,024.05)	0.00	0.00
22/12/2015	10,693.39	(6,778.37)	927.92	0.00
23/12/2015	4,824.63	(20,421.28)	0.00	(2,970.59)
24/12/2015	29,611.71	(22,008.65)	12,368.50	(7,631.01)
25/12/2015	4,712.46	(23,482.75)	0.00	(35,663.61)
26/12/2015	243.88	(23,608.10)	0.00	(34,359.98)
27/12/2015	66.96	(39,917.04)	0.00	(19,475.73)
28/12/2015	2,276.52	(34,520.87)	0.00	(14,071.00)
29/12/2015	9,357.05	(29,424.23)	4,709.59	(1,081.78)
30/12/2015	1,245.94	(34,672.73)	0.00	(1,213.39)
31/12/2015	68,611.73	(11,569.82)	10,951.47	(390.78)

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
01/12/2015	119,479,900	9,074,019	40,523,374
02/12/2015	161,969,581	9,528,894	40,429,513
03/12/2015	151,786,995	10,253,128	51,228,049
04/12/2015	120,973,398	9,242,613	48,102,531
05/12/2015	115,163,475	7,340,818	41,364,249
06/12/2015	133,489,227	7,197,129	39,832,374
07/12/2015	112,084,479	8,841,542	40,256,099
08/12/2015	124,497,811	9,926,375	46,518,321
09/12/2015	127,113,774	9,590,219	46,491,515
10/12/2015	140,663,089	10,233,280	49,564,611
11/12/2015	156,565,783	9,734,325	53,687,292
12/12/2015	153,353,267	8,222,136	50,586,082
13/12/2015	130,591,501	7,172,116	45,348,503
14/12/2015	140,385,667	9,253,455	45,893,065
15/12/2015	128,372,758	9,017,328	42,575,746
16/12/2015	131,890,879	9,066,562	35,763,648
17/12/2015	113,456,340	8,924,564	34,609,324
18/12/2015	112,667,251	8,373,209	35,425,176
19/12/2015	101,422,046	6,490,681	29,573,482
20/12/2015	102,096,091	6,738,276	36,277,286
21/12/2015	120,971,832	8,881,342	44,142,120
22/12/2015	125,309,681	8,833,605	42,998,997
23/12/2015	116,164,952	7,888,832	46,083,766
24/12/2015	116,379,924	6,545,867	48,743,775
25/12/2015	114,192,369	5,270,693	42,351,485
26/12/2015	130,793,244	5,535,759	37,763,587
27/12/2015	109,263,790	5,562,652	41,783,684
28/12/2015	114,811,043	6,121,675	38,834,559
29/12/2015	107,279,524	7,055,228	42,963,476
30/12/2015	134,582,730	7,331,732	42,571,070
31/12/2015	117,390,975	7,394,964	52,345,610
Totals	3,885,163,376	250,643,018	1,334,632,369

Cleansed Totals	3,885,125,083	250,758,964	1,334,750,761
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Physical Daily Totals Analysis

	LDM Sector kWh	DM Sector kWh	NDM Sector kWh
Month Min	101,422,046	5,270,693	29,573,482
Month Max	161,969,581	10,253,128	53,687,292
Month Average	125,327,851	8,085,259	43,052,657
YTD Min	97,971,394	5,270,693	19,515,192
YTD Max	193,292,280	10,253,128	54,082,811
YTD Average	139,419,928	7,968,103	35,973,013
YTD Rolling Total	12,826,633,332	733,065,515	3,309,517,222

Cleansed monthly Totals Analysis

	LDM Sector kWh	DM Sector kWh	NDM Sector kWh
YTD Min	3,885,125,083	232,317,765	812,486,644
YTD Max	4,809,524,380	251,275,127	1,334,750,761
YTD Average	4,274,981,507	244,783,952	1,100,064,229
YTD Rolling Total	12,824,944,522	734,351,856	3,300,192,688

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)
01/12/2015	11.55	11.68	11.38	11.59	11.62	11.64	11.60	11.62	11.58
02/12/2015	11.67	11.68	11.37	11.65	11.63	11.66	11.65	11.57	11.59
03/12/2015	11.64	11.69	11.54	11.60	11.68	11.65	11.65	11.65	11.64
04/12/2015	11.54	11.68	11.47	11.59	11.64	11.69	11.67	11.63	11.63
05/12/2015	11.65	11.67	11.46	11.61	11.69	11.68	11.57	11.68	11.68
06/12/2015	11.66	11.61	11.47	11.63	11.66	11.60	11.76	11.60	11.64
07/12/2015	11.65	11.68	11.48	11.61	11.58	11.60	11.63	11.62	11.66
08/12/2015	11.65	11.62	11.48	11.66	11.61	11.62	11.57	11.57	11.68
09/12/2015	11.59	11.67	11.48	11.66	11.63	11.62	11.63	11.65	11.60
10/12/2015	11.71	11.76	11.46	11.65	11.62	11.61	11.62	11.62	11.62
11/12/2015	11.79	11.62	11.48	11.41	11.60	11.58	11.61	11.60	11.63
12/12/2015	11.59	11.62	11.44	11.46	11.59	11.57	11.62	11.57	11.60
13/12/2015	11.62	11.63	11.47	11.44	11.57	11.58	11.59	11.56	11.65
14/12/2015	11.55	11.61	11.45	11.43	11.57	11.59	11.55	11.59	11.59
15/12/2015	11.64	11.61	11.43	11.45	11.57	11.62	11.56	11.59	11.58
16/12/2015	11.57	11.59	11.44	11.43	11.61	11.66	11.58	11.51	11.59
17/12/2015	11.63	11.59	11.42	11.45	11.66	11.63	11.60	11.56	11.57
18/12/2015	11.55	11.58	11.40	11.52	11.61	11.57	11.63	11.54	11.55
19/12/2015	11.55	11.58	11.41	11.57	11.59	11.55	11.66	11.56	12.22
20/12/2015	11.56	11.57	11.42	11.65	11.56	11.61	11.55	11.53	11.65
21/12/2015	11.65	11.57	11.40	11.57	11.63	11.65	11.61	11.55	11.56
22/12/2015	11.60	11.61	11.43	11.58	11.63	11.59	11.60	11.56	11.57
23/12/2015	11.71	11.67	11.43	11.65	11.59	11.59	11.65	11.63	11.61
24/12/2015	11.54	11.56	11.44	11.62	11.57	11.59	11.59	11.63	11.62
25/12/2015	11.57	11.55	11.38	11.59	11.58	11.57	11.59	11.54	11.59
26/12/2015	11.57	11.60	11.41	11.57	11.57	11.58	11.61	11.60	11.59
27/12/2015	11.56	11.62	11.43	11.58	11.57	11.58	11.59	11.57	11.60
28/12/2015	11.65	11.64	11.40	11.56	11.57	11.59	11.56	11.54	11.58
29/12/2015	11.58	11.60	11.43	11.61	11.59	11.59	11.54	11.55	11.58
30/12/2015	11.60	11.59	11.46	11.59	11.57	11.59	11.65	11.58	11.58
31/12/2015	11.60	11.59	11.43	11.58	11.56	11.57	11.63	11.62	11.59

Transportation Network Monthly Report

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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

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7. Monthly Shrinkage Total for Transportation

Total Transportation Shrinkage : **79,911,000 kWh**

Transmission Shrinkage % of Entry Throughput was 1.43% for the 12 month period Jan-15 to Dec-15