



## Gas Transportation Management System

### Transportation Network Monthly Report

Parameters Entered	
Gas Month	November
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
01/11/2015	133,773,740	11,346,354.9	33,866,557	2,872,476.9	1,188,067	100,768.7
02/11/2015	136,932,062	11,551,052.6	38,116,764	3,215,381.2	1,294,144	109,169.2
03/11/2015	150,286,615	12,756,451.0	45,551,342	3,866,435.4	2,436,825	206,839.3
04/11/2015	146,296,369	12,567,856.8	47,512,728	4,081,667.6	4,018,262	345,196.5
05/11/2015	132,560,647	11,370,683.6	44,957,946	3,856,367.2	3,980,042	341,396.6
06/11/2015	106,962,807	9,156,552.7	34,874,142	2,985,401.5	3,956,489	338,695.0
07/11/2015	108,915,952	9,312,068.0	44,122,038	3,772,335.0	3,442,355	294,313.2
08/11/2015	93,148,328	7,967,965.7	33,400,177	2,857,071.8	3,992,804	341,547.3
09/11/2015	102,960,068	8,847,200.1	40,075,286	3,443,607.8	4,177,357	358,953.7
10/11/2015	109,999,056	9,437,786.1	36,564,268	3,137,170.0	3,899,521	334,573.9
11/11/2015	114,638,883	9,843,304.9	34,930,795	2,999,282.9	3,988,253	342,445.6
12/11/2015	107,600,138	9,257,574.4	38,357,915	3,300,193.3	4,125,851	354,974.8
13/11/2015	125,835,768	10,842,917.7	41,383,950	3,565,940.1	4,379,983	377,411.1
14/11/2015	108,813,924	9,376,193.1	43,446,923	3,743,700.4	4,173,347	359,605.7
15/11/2015	95,327,106	8,218,223.0	28,506,960	2,457,607.2	3,809,864	328,451.4
16/11/2015	138,485,770	11,902,868.0	44,593,313	3,832,800.4	4,269,739	366,984.6
17/11/2015	129,388,809	11,146,257.8	50,240,695	4,328,007.6	4,351,029	374,821.3
18/11/2015	112,380,996	9,681,111.8	38,481,466	3,315,003.3	4,300,974	370,509.7
19/11/2015	135,274,530	11,609,311.0	52,555,950	4,510,371.3	4,319,432	370,695.4
20/11/2015	124,195,112	10,669,207.5	42,284,732	3,632,546.9	4,460,990	383,229.3
21/11/2015	124,929,856	10,762,139.6	54,164,457	4,666,022.2	4,393,133	378,448.7
22/11/2015	127,713,973	11,015,887.0	58,341,001	5,032,165.4	4,267,710	368,108.5
23/11/2015	140,071,139	12,072,588.9	58,595,077	5,050,250.3	4,695,996	404,742.7
24/11/2015	131,384,221	11,341,064.4	47,059,755	4,062,190.6	4,462,034	385,162.4
25/11/2015	126,452,398	10,893,299.7	45,875,240	3,951,943.1	4,475,967	385,584.1
26/11/2015	128,819,768	10,980,774.6	44,383,879	3,783,343.2	4,313,272	367,668.8
27/11/2015	116,486,843	9,999,460.9	48,651,331	4,176,326.2	4,391,065	376,937.3
28/11/2015	116,154,117	10,018,799.5	38,771,610	3,344,220.6	4,383,994	378,138.8
29/11/2015	119,278,154	10,239,072.0	42,618,480	3,658,454.3	4,288,746	368,154.0
30/11/2015	136,774,379	11,740,982.9	60,737,841	5,213,856.3	4,643,652	398,620.3
<b>Totals</b>	<b>3,681,841,528</b>	<b>315,925,010.1</b>	<b>1,313,022,618</b>	<b>112,712,139.9</b>	<b>118,880,897</b>	<b>10,212,147.8</b>

	Moffat	
	kWh	M3
Month Min	93,148,328	7,967,965.7
Month Max	150,286,615	12,756,451.0
Month Average	122,728,051	10,530,833.7
YTD Min	93,148,328	7,967,965.7
YTD Max	167,675,316	14,386,340.0
YTD Average	131,298,421	11,257,005.7

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
01/11/2015	0	0.0	0	0.0
02/11/2015	0	0.0	0	0.0
03/11/2015	0	0.0	0	0.0
04/11/2015	0	0.0	0	0.0
05/11/2015	0	0.0	0	0.0
06/11/2015	0	0.0	0	0.0
07/11/2015	0	0.0	0	0.0
08/11/2015	0	0.0	0	0.0
09/11/2015	0	0.0	0	0.0
10/11/2015	0	0.0	0	0.0
11/11/2015	0	0.0	0	0.0
12/11/2015	0	0.0	0	0.0
13/11/2015	0	0.0	0	0.0
14/11/2015	0	0.0	0	0.0
15/11/2015	0	0.0	0	0.0
16/11/2015	0	0.0	0	0.0
17/11/2015	0	0.0	0	0.0
18/11/2015	0	0.0	0	0.0
19/11/2015	0	0.0	0	0.0
20/11/2015	0	0.0	0	0.0
21/11/2015	0	0.0	0	0.0
22/11/2015	0	0.0	0	0.0
23/11/2015	0	0.0	0	0.0
24/11/2015	0	0.0	0	0.0
25/11/2015	0	0.0	0	0.0
26/11/2015	0	0.0	0	0.0
27/11/2015	0	0.0	0	0.0
28/11/2015	0	0.0	0	0.0
29/11/2015	0	0.0	0	0.0
30/11/2015	0	0.0	0	0.0
<b>Totals</b>	<b>0</b>	<b>0.0</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	0.062302
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
01/11/2015	1.845485	1.755508	1.809147	1.809147	1.809147	1.961906	1.656388
02/11/2015	1.809590	1.719277	1.772916	1.772916	1.772916	1.923864	1.621968
03/11/2015	1.865947	1.768529	1.822168	1.822168	1.822168	1.975578	1.668758
04/11/2015	1.859036	1.759188	1.812827	1.812827	1.812827	1.965770	1.659884
05/11/2015	1.735757	1.643277	1.696916	1.696916	1.696916	1.844064	1.549768
06/11/2015	1.703198	1.622614	1.676253	1.676253	1.676253	1.822368	1.530138
07/11/2015	1.801428	1.670875	1.724514	1.724514	1.724514	1.873042	1.575986
08/11/2015	1.713905	1.624878	1.678517	1.678517	1.678517	1.824745	1.532289
09/11/2015	1.700462	1.611292	1.664931	1.664931	1.664931	1.810480	1.519382
10/11/2015	1.679983	1.577042	1.630681	1.630681	1.630681	1.774517	1.486845
11/11/2015	1.618981	1.510383	1.564022	1.564022	1.564022	1.704525	1.423519
12/11/2015	1.698472	1.590770	1.644409	1.644409	1.644409	1.788931	1.499887
13/11/2015	1.737359	1.614405	1.668044	1.668044	1.668044	1.813748	1.522340
14/11/2015	1.933267	1.743195	1.796834	1.796834	1.796834	1.995569	1.644690
15/11/2015	1.610938	1.501891	1.555530	1.555530	1.555530	1.695609	1.415451
16/11/2015	1.837064	1.653467	1.707106	1.707106	1.707106	1.899366	1.559449
17/11/2015	1.896394	1.750696	1.804335	1.804335	1.804335	1.958696	1.651816
18/11/2015	1.874304	1.747017	1.800656	1.800656	1.800656	1.952991	1.648321
19/11/2015	1.854959	1.729892	1.783531	1.783531	1.783531	1.935010	1.632052
20/11/2015	1.844508	1.722674	1.776313	1.776313	1.776313	1.927431	1.625195
21/11/2015	1.797011	1.679367	1.733005	1.733005	1.733005	1.881957	1.584053
22/11/2015	1.870036	1.706398	1.760037	1.760037	1.760037	1.932338	1.609733
23/11/2015	1.858648	1.740648	1.794287	1.794287	1.794287	1.946303	1.642271
24/11/2015	1.827385	1.719136	1.772775	1.772775	1.772775	1.923716	1.621834
25/11/2015	1.869469	1.749423	1.803062	1.803062	1.803062	1.955517	1.650607
26/11/2015	1.918042	1.800514	1.854153	1.854153	1.854153	2.009163	1.699143
27/11/2015	1.848769	1.731873	1.785512	1.785512	1.785512	1.937090	1.633934
28/11/2015	1.903518	1.791456	1.845095	1.845095	1.845095	1.999652	1.690538
29/11/2015	1.890749	1.778719	1.832358	1.832358	1.832358	1.986278	1.678438
30/11/2015	1.972332	1.860097	1.913736	1.913736	1.913736	2.071725	1.755747

	Total First Tier Cost €		Total Second Tier Cost €	
	Buy	Sell	Buy	Sell
01/11/2015	2,526.18	(26,935.28)	1,508.54	(5,366.68)
02/11/2015	9,149.44	(15,838.29)	0.00	0.00
03/11/2015	25,946.20	(8,034.39)	20.86	0.00
04/11/2015	18,452.50	(6,191.58)	476.70	0.00
05/11/2015	4,812.93	(43,395.83)	0.00	(1,446.13)
06/11/2015	26,369.92	(13,366.68)	0.00	(607.08)
07/11/2015	9,227.54	(23,014.48)	1,887.09	(10,497.34)
08/11/2015	6,575.53	(14,776.64)	4,053.84	(10,033.12)
09/11/2015	6,512.02	(20,311.15)	335.79	0.00
10/11/2015	8,225.50	(12,507.48)	0.00	(1,204.37)
11/11/2015	8,335.68	(13,886.97)	933.93	(0.01)
12/11/2015	19,469.81	0.00	1,981.01	0.00
13/11/2015	25,737.99	(9,558.79)	1,241.26	0.00
14/11/2015	25,350.85	(19,336.79)	1,555.93	(1,741.52)
15/11/2015	18,852.51	(21,644.23)	0.00	(22,002.61)
16/11/2015	39,594.00	(11,414.86)	100,588.01	(72,401.79)
17/11/2015	4,550.15	(62,373.94)	1,793.56	(0.02)
18/11/2015	25,137.04	(573.83)	31,588.74	0.00
19/11/2015	23,991.37	(7,431.39)	1,316.58	0.00
20/11/2015	44,021.07	0.00	6,046.70	(0.02)
21/11/2015	23,495.22	(15,588.51)	1,158.38	0.00
22/11/2015	6,517.97	(23,199.33)	0.00	(1,773.10)
23/11/2015	7,361.31	(43,843.01)	0.00	(3,681.84)
24/11/2015	19,281.41	(18,490.60)	152.03	(982.38)
25/11/2015	8,890.86	(24,861.35)	0.00	(1,247.76)
26/11/2015	9,754.33	(47,238.85)	0.00	(1,494.82)
27/11/2015	75,017.67	(983.03)	12,963.57	0.00
28/11/2015	6,400.28	(42,898.20)	4,871.07	0.00
29/11/2015	11,800.97	(32,424.04)	778.82	(3,960.78)
30/11/2015	3,045.59	(50,514.42)	0.00	(2,625.60)

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
01/11/2015	142,970,420	6,353,975	24,638,379
02/11/2015	152,320,397	8,444,507	27,052,244
03/11/2015	182,816,717	8,782,395	29,339,517
04/11/2015	179,976,522	8,571,660	31,353,707
05/11/2015	162,279,535	8,233,409	29,845,891
06/11/2015	132,344,039	7,778,134	27,638,514
07/11/2015	142,370,439	6,326,037	27,791,421
08/11/2015	114,092,997	6,189,896	30,445,775
09/11/2015	118,204,274	8,136,415	32,376,361
10/11/2015	127,376,473	7,864,432	25,190,357
11/11/2015	126,778,609	8,074,486	28,305,562
12/11/2015	118,816,441	8,321,214	34,681,239
13/11/2015	126,720,422	9,203,306	47,206,825
14/11/2015	123,829,086	6,729,548	38,709,478
15/11/2015	97,971,394	6,128,706	27,883,330
16/11/2015	150,533,015	9,327,013	40,705,993
17/11/2015	143,664,087	9,061,899	40,297,344
18/11/2015	119,788,492	9,219,211	39,809,096
19/11/2015	153,469,364	9,462,035	43,440,208
20/11/2015	126,461,708	10,023,944	51,921,762
21/11/2015	141,811,770	8,346,824	51,671,745
22/11/2015	152,056,489	7,648,575	47,215,519
23/11/2015	156,432,588	10,103,247	54,082,811
24/11/2015	139,083,584	9,623,465	48,294,812
25/11/2015	134,894,289	9,183,247	44,119,297
26/11/2015	142,779,802	8,970,974	38,650,470
27/11/2015	129,180,108	9,754,370	46,829,290
28/11/2015	115,326,353	7,752,654	49,453,233
29/11/2015	123,234,314	7,205,279	44,973,293
30/11/2015	153,585,229	9,439,096	48,754,791
<b>Totals</b>	<b>4,131,168,957</b>	<b>250,259,953</b>	<b>1,152,678,264</b>

<b>Cleansed Totals</b>	<b>4,130,295,059</b>	<b>251,275,127</b>	<b>1,152,955,283</b>
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### Physical Daily Totals Analysis

	LDM Sector kWh	DM Sector kWh	NDM Sector kWh
Month Min	97,971,394	6,128,706	24,638,379
Month Max	182,816,717	10,103,247	54,082,811
Month Average	137,705,632	8,341,998	38,422,609
YTD Min	97,971,394	5,432,472	19,515,192
YTD Max	193,292,280	10,103,247	54,082,811
YTD Average	146,581,475	7,908,566	32,375,162
YTD Rolling Total	8,941,469,956	482,422,497	1,974,884,853

### Cleansed monthly Totals Analysis

	LDM Sector kWh	DM Sector kWh	NDM Sector kWh
YTD Min	4,130,295,059	232,317,765	812,486,644
YTD Max	4,809,524,380	251,275,127	1,152,955,283
YTD Average	4,469,909,720	241,796,446	982,720,964
YTD Rolling Total	8,939,819,439	483,592,892	1,965,441,927

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)
01/11/2015	11.63	11.64	11.57	11.59	11.56	11.60	11.56	11.58	11.60
02/11/2015	11.49	11.61	11.50	11.58	11.59	11.61	11.55	11.60	11.58
03/11/2015	11.65	11.59	11.52	11.56	11.65	11.84	11.68	11.55	11.60
04/11/2015	11.55	11.59	11.54	11.60	11.79	11.85	11.84	11.66	11.65
05/11/2015	11.61	11.58	11.55	11.67	11.81	11.67	11.86	11.64	11.80
06/11/2015	11.64	11.60	11.51	11.60	11.68	11.67	11.71	11.65	11.85
07/11/2015	11.73	11.74	11.52	11.80	11.64	11.65	11.55	11.62	11.79
08/11/2015	11.85	11.85	11.46	11.63	11.65	11.67	11.73	11.65	11.74
09/11/2015	11.84	11.85	11.45	11.71	11.67	11.68	11.63	11.67	11.66
10/11/2015	11.87	11.84	11.56	11.66	11.67	11.68	11.66	11.62	11.67
11/11/2015	11.86	11.63	11.50	11.66	11.67	11.63	11.74	11.58	11.68
12/11/2015	11.54	11.59	11.49	11.62	11.63	11.65	11.60	11.67	11.69
13/11/2015	11.65	11.66	11.50	11.67	11.66	11.63	11.65	11.62	11.68
14/11/2015	11.77	11.67	11.49	11.65	11.62	11.60	11.67	11.67	11.65
15/11/2015	11.68	11.70	11.42	11.63	11.60	11.59	11.68	11.59	11.63
16/11/2015	11.66	11.67	11.49	11.70	11.60	11.57	11.60	11.67	11.63
17/11/2015	11.58	11.64	11.45	11.63	11.57	11.60	11.60	11.60	11.60
18/11/2015	11.65	11.65	11.45	11.59	11.60	11.62	11.58	11.51	11.57
19/11/2015	11.65	11.63	11.47	11.59	11.60	11.60	11.61	11.60	11.60
20/11/2015	11.60	11.60	11.43	11.59	11.60	11.60	11.58	11.62	11.62
21/11/2015	11.53	11.58	11.44	11.60	11.63	11.65	11.60	11.60	11.60
22/11/2015	11.61	11.58	11.46	11.58	11.64	11.61	11.68	11.64	11.60
23/11/2015	11.61	11.60	11.47	11.62	11.60	11.59	11.60	11.65	11.64
24/11/2015	11.62	11.62	11.50	11.60	11.59	11.60	11.63	11.58	11.63
25/11/2015	11.65	11.59	11.47	11.61	11.58	11.60	11.54	11.64	11.60
26/11/2015	11.60	11.63	11.52	11.60	11.57	11.58	11.61	11.59	11.61
27/11/2015	11.59	11.63	11.49	11.58	11.59	11.62	11.58	11.59	11.59
28/11/2015	11.55	11.59	11.45	11.58	11.66	11.74	11.59	11.58	11.59
29/11/2015	11.64	11.60	11.42	11.58	11.70	11.64	11.67	11.60	11.61
30/11/2015	11.57	11.64	11.44	11.57	11.61	11.61	11.67	11.69	11.60

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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: Nov-2015



## 7. Monthly Shrinkage Total for Transportation

Total Transportation Shrinkage : **74,830,000 kWh**

Transmission Shrinkage % of Entry Throughput was 1.43% for the 12 month period Dec-14 to Nov-15