



## Gas Transportation Management System

### Transportation Network Monthly Report

Parameters Entered	
Gas Month	January
Gas Year	2016

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## 1. Entry Point Energy/Volume of Gas

	Moffat		PTL		Isle of Man		Bellanaboy
	Total kWh	Total M3	Total kWh	Total M3	Total kWh	Total M3	Total kWh
01/01/2016	80,166,614	6,752,522.7	35,597,172	2,998,389.3	4,368,779	367,987.2	25,916,982
02/01/2016	99,940,215	8,568,284.5	44,497,619	3,814,963.7	4,311,127	369,610.4	30,942,918
03/01/2016	69,446,163	5,973,420.2	48,514,295	4,172,963.2	4,252,984	365,821.0	47,985,700
04/01/2016	112,228,166	9,704,707.1	52,904,999	4,574,854.6	4,523,653	391,174.0	42,840,689
05/01/2016	100,569,522	8,667,985.3	56,487,776	4,868,623.8	4,522,551	389,794.3	39,896,214
06/01/2016	72,971,842	6,260,895.5	56,114,893	4,814,589.8	4,460,907	382,740.4	58,764,541
07/01/2016	95,674,212	8,264,856.3	57,959,180	5,006,827.5	4,648,016	401,520.9	51,620,648
08/01/2016	113,149,118	9,725,179.9	61,986,992	5,327,789.1	4,672,734	401,622.3	54,924,026
09/01/2016	93,722,757	8,017,102.5	56,299,535	4,815,897.5	4,438,962	379,711.8	60,189,240
10/01/2016	81,921,140	7,050,012.3	46,748,533	4,023,109.7	4,347,149	374,109.6	60,133,802
11/01/2016	85,554,459	7,357,122.8	58,708,376	5,048,535.2	4,671,709	401,736.0	60,209,943
12/01/2016	96,187,434	8,269,404.8	57,229,327	4,920,106.9	4,740,887	407,582.7	52,394,285
13/01/2016	105,417,603	9,058,372.8	65,383,259	5,618,283.4	4,866,438	418,165.5	60,209,218
14/01/2016	123,540,328	10,620,981.3	70,536,973	6,064,188.9	4,933,346	424,128.7	30,210,933
15/01/2016	110,031,614	9,471,548.2	74,096,446	6,378,239.7	4,981,399	428,800.4	50,458,965
16/01/2016	89,927,920	7,752,755.3	59,396,018	5,120,576.4	4,819,730	415,512.2	59,035,615
17/01/2016	55,377,832	4,765,734.4	45,010,572	3,873,543.4	4,665,506	401,506.6	60,194,508
18/01/2016	103,104,341	8,877,486.4	62,216,950	5,357,001.7	4,814,745	414,558.9	60,223,206
19/01/2016	99,730,413	8,546,001.7	62,509,235	5,356,480.5	4,711,769	403,756.3	60,171,513
20/01/2016	77,562,977	6,649,792.5	51,588,024	4,422,852.9	4,667,424	400,157.3	60,221,836
21/01/2016	50,176,127	4,298,564.7	50,186,919	4,299,488.6	4,800,057	411,218.6	60,263,513
22/01/2016	46,178,248	3,943,194.8	39,816,064	3,399,923.4	4,454,449	380,368.5	60,550,458
23/01/2016	58,202,094	5,001,216.7	38,921,133	3,344,432.9	4,399,291	378,024.2	60,328,541
24/01/2016	42,157,679	3,614,351.1	33,994,534	2,914,490.7	4,201,859	360,242.5	60,241,493
25/01/2016	45,653,055	3,913,040.3	41,480,066	3,555,363.0	4,278,311	366,705.1	60,285,641
26/01/2016	50,178,205	4,296,584.2	46,911,971	4,016,908.6	4,396,581	376,463.5	59,713,353
27/01/2016	68,026,255	5,830,705.0	47,739,181	4,091,847.7	4,369,813	374,547.4	42,982,276
28/01/2016	63,453,764	5,437,418.8	45,884,631	3,931,901.3	4,708,002	403,433.1	42,040,198
29/01/2016	79,026,881	6,780,410.6	46,698,760	4,006,697.3	4,521,299	387,921.9	28,486,674
30/01/2016	81,750,971	7,040,696.4	54,779,009	4,717,771.6	4,584,608	394,843.1	36,098,304
31/01/2016	44,156,702	3,818,362.7	42,265,159	3,654,795.6	4,539,136	392,513.0	57,552,666
<b>Totals</b>	<b>2,495,184,651</b>	<b>214,328,711.9</b>	<b>1,612,463,601</b>	<b>138,511,437.8</b>	<b>141,673,221</b>	<b>12,166,277.1</b>	<b>1,595,087,899</b>

	Moffat	
	kWh	M3
Month Min	42,157,679	3,614,351.1
Month Max	123,540,328	10,620,981.3
Month Average	80,489,827	6,913,829.4
YTD Min	42,157,679	3,614,351.1
YTD Max	167,675,316	14,386,340.0
YTD Average	113,975,676	9,788,437.9

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
01/01/2016	0	0.0	0	0.0
02/01/2016	0	0.0	0	0.0
03/01/2016	0	0.0	5,000,000	430,115.6
04/01/2016	0	0.0	5,000,000	432,389.9
05/01/2016	0	0.0	5,000,000	430,968.5
06/01/2016	0	0.0	5,000,000	428,978.5
07/01/2016	0	0.0	5,000,000	431,916.1
08/01/2016	0	0.0	0	0.0
09/01/2016	0	0.0	0	0.0
10/01/2016	0	0.0	0	0.0
11/01/2016	0	0.0	0	0.0
12/01/2016	0	0.0	0	0.0
13/01/2016	0	0.0	0	0.0
14/01/2016	0	0.0	0	0.0
15/01/2016	0	0.0	0	0.0
16/01/2016	0	0.0	0	0.0
17/01/2016	0	0.0	0	0.0
18/01/2016	0	0.0	0	0.0
19/01/2016	0	0.0	0	0.0
20/01/2016	0	0.0	0	0.0
21/01/2016	0	0.0	0	0.0
22/01/2016	0	0.0	0	0.0
23/01/2016	0	0.0	0	0.0
24/01/2016	0	0.0	0	0.0
25/01/2016	0	0.0	5,000,000	428,599.5
26/01/2016	0	0.0	5,000,000	428,125.7
27/01/2016	0	0.0	5,000,000	428,599.5
28/01/2016	0	0.0	5,000,000	428,410.0
29/01/2016	0	0.0	5,000,000	428,978.5
30/01/2016	0	0.0	5,000,000	430,589.4
31/01/2016	0	0.0	0	0.0
<b>Totals</b>	<b>0</b>	<b>0.0</b>	<b>55,000,000</b>	<b>4,727,671.2</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	0.059086
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
01/01/2016	1.465384	1.311308	1.383135	1.383135	1.383135	1.524470	1.252222
02/01/2016	1.445333	1.313296	1.363522	1.363522	1.363522	1.504419	1.236260
03/01/2016	1.466062	1.333572	1.383798	1.383798	1.383798	1.525148	1.255522
04/01/2016	1.572009	1.437204	1.487430	1.487430	1.487430	1.631095	1.353973
05/01/2016	1.588175	1.440915	1.491141	1.491141	1.491141	1.647261	1.357498
06/01/2016	1.615060	1.469540	1.521621	1.521621	1.521621	1.674146	1.386454
07/01/2016	1.649876	1.529440	1.579666	1.579666	1.579666	1.717735	1.441597
08/01/2016	1.608718	1.488225	1.538451	1.538451	1.538451	1.674460	1.402442
09/01/2016	1.565624	1.449529	1.499755	1.499755	1.499755	1.633829	1.365681
10/01/2016	1.572317	1.456155	1.506381	1.506381	1.506381	1.640786	1.371976
11/01/2016	1.596814	1.480407	1.530633	1.530633	1.530633	1.666251	1.395015
12/01/2016	1.493874	1.385918	1.436144	1.436144	1.436144	1.567037	1.305251
13/01/2016	1.660091	1.518838	1.569064	1.569064	1.569064	1.719177	1.431525
14/01/2016	1.504036	1.408447	1.458673	1.458673	1.458673	1.590693	1.326653
15/01/2016	1.545897	1.454962	1.505188	1.505188	1.505188	1.639533	1.370843
16/01/2016	1.543606	1.449926	1.500152	1.500152	1.500152	1.634246	1.366058
17/01/2016	1.517643	1.433361	1.483587	1.483587	1.483587	1.616852	1.350322
18/01/2016	1.447491	1.362462	1.412688	1.412688	1.412688	1.542408	1.282968
19/01/2016	1.450054	1.369088	1.419314	1.419314	1.419314	1.549366	1.289262
20/01/2016	1.447272	1.376377	1.426603	1.426603	1.426603	1.557019	1.296187
21/01/2016	1.370527	1.301369	1.351595	1.351595	1.351595	1.478261	1.224929
22/01/2016	1.480937	1.379690	1.429916	1.429916	1.429916	1.560498	1.299334
23/01/2016	1.528660	1.421169	1.471395	1.471395	1.471395	1.604051	1.338739
24/01/2016	1.418237	1.325886	1.376112	1.376112	1.376112	1.504004	1.248220
25/01/2016	1.354593	1.261877	1.312103	1.312103	1.312103	1.436794	1.187412
26/01/2016	1.371312	1.282418	1.332644	1.332644	1.332644	1.458362	1.206926
27/01/2016	1.425789	1.334897	1.385123	1.385123	1.385123	1.513465	1.256781
28/01/2016	1.495120	1.386978	1.437204	1.437204	1.437204	1.568150	1.306258
29/01/2016	1.450203	1.368028	1.418254	1.418254	1.418254	1.548253	1.288255
30/01/2016	1.449934	1.361799	1.412025	1.412025	1.412025	1.541712	1.282338
31/01/2016	1.452036	1.363920	1.414145	1.414145	1.414145	1.543938	1.284352

	Total First Tier Cost €		Total Second Tier Cost €	
	Buy	Sell	Buy	Sell
01/01/2016	16,194.50	(20,679.71)	1,314.86	(26,625.21)
02/01/2016	450.93	(36,077.90)	206.17	(15,789.86)
03/01/2016	4,657.17	(16,097.78)	587.15	(14,469.35)
04/01/2016	745.72	(40,363.64)	0.00	(2,118.84)
05/01/2016	10,266.45	(23,703.46)	0.00	0.00
06/01/2016	12,510.43	(34,160.93)	0.00	(2,367.34)
07/01/2016	22,223.71	(3,214.24)	356.16	0.00
08/01/2016	6,924.19	(30,279.82)	0.00	0.00
09/01/2016	29,373.65	(9,846.10)	0.00	(5,542.09)
10/01/2016	399.35	(31,699.72)	0.00	(7,583.08)
11/01/2016	19,334.42	(19,781.81)	1,505.78	0.00
12/01/2016	24,768.05	(10,195.71)	498.58	0.00
13/01/2016	23,604.32	(9,823.40)	2,694.88	0.00
14/01/2016	18,799.53	(197.27)	0.00	0.00
15/01/2016	29,866.71	(8,715.63)	13,767.24	(67.01)
16/01/2016	798.42	(31,619.62)	0.00	(862.13)
17/01/2016	25.46	(55,638.92)	0.00	(17,211.55)
18/01/2016	7,430.53	(39,749.54)	0.00	(1,655.17)
19/01/2016	8,569.93	(33,972.05)	0.00	(407.88)
20/01/2016	7,768.28	(33,294.07)	0.00	(35,936.46)
21/01/2016	7,709.75	(50,441.54)	0.00	(22,874.58)
22/01/2016	2,817.10	(29,004.80)	0.00	(4,187.40)
23/01/2016	0.00	(58,033.57)	0.00	(35,202.68)
24/01/2016	107.89	(54,706.05)	0.00	(54,146.34)
25/01/2016	594.07	(39,869.41)	0.00	(26,232.14)
26/01/2016	14,165.32	(15,335.69)	0.00	(6,351.01)
27/01/2016	36,982.74	(4,641.94)	1,128.76	0.00
28/01/2016	79,275.25	(20,729.18)	44,687.70	(1,306.99)
29/01/2016	2,400.09	(20,485.87)	0.00	(4,207.60)
30/01/2016	10,987.61	(14,562.40)	0.00	(2,873.22)
31/01/2016	3,436.29	(29,001.33)	66.20	(54,134.07)

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
01/01/2016	102,910,718	6,519,978	49,168,775
02/01/2016	129,888,298	6,413,291	41,497,526
03/01/2016	133,265,212	6,674,728	40,119,623
04/01/2016	161,382,514	9,341,859	46,861,179
05/01/2016	160,064,887	9,666,558	50,663,981
06/01/2016	143,152,628	9,963,952	52,039,322
07/01/2016	159,089,594	10,284,306	55,582,727
08/01/2016	175,639,575	9,981,567	55,501,989
09/01/2016	161,675,454	7,967,299	52,875,340
10/01/2016	138,877,713	7,780,344	52,527,797
11/01/2016	149,721,041	10,619,192	63,011,201
12/01/2016	155,439,866	11,048,731	65,749,318
13/01/2016	174,513,396	11,026,620	66,826,240
14/01/2016	172,084,548	11,192,370	68,558,140
15/01/2016	184,679,891	10,893,293	71,453,307
16/01/2016	166,288,126	8,218,374	62,095,557
17/01/2016	124,181,778	7,309,069	53,250,150
18/01/2016	186,527,825	9,816,471	55,615,339
19/01/2016	183,572,936	10,348,345	55,528,331
20/01/2016	140,639,918	10,592,892	58,740,425
21/01/2016	123,151,715	9,321,810	50,748,058
22/01/2016	117,505,570	9,248,681	45,247,057
23/01/2016	109,431,673	7,164,722	43,030,787
24/01/2016	95,646,619	6,585,414	34,522,028
25/01/2016	115,618,473	9,241,558	40,210,586
26/01/2016	132,691,120	9,446,659	44,422,216
27/01/2016	131,071,040	10,154,946	49,388,041
28/01/2016	123,210,327	9,838,495	54,610,500
29/01/2016	124,284,037	9,480,065	50,906,552
30/01/2016	139,222,643	8,186,208	54,874,750
31/01/2016	113,914,813	6,909,740	45,505,387
<b>Totals</b>	<b>4,429,343,948</b>	<b>281,237,537</b>	<b>1,631,132,229</b>

<b>Cleansed Totals</b>	<b>4,429,489,087</b>	<b>281,916,625</b>	<b>1,632,254,760</b>
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### Physical Daily Totals Analysis

	LDM Sector kWh	DM Sector kWh	NDM Sector kWh
Month Min	95,646,619	6,413,291	34,522,028
Month Max	186,527,825	11,192,370	71,453,307
Month Average	142,882,063	9,072,179	52,617,169
YTD Min	95,646,619	5,270,693	19,515,192
YTD Max	193,292,280	11,192,370	71,453,307
YTD Average	140,292,498	8,246,366	40,167,882
YTD Rolling Total	17,255,977,280	1,014,303,052	4,940,649,451

### 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	281,916,625	1,632,254,760
YTD Average	4,313,608,402	254,067,120	1,233,111,862
YTD Rolling Total	17,254,433,609	1,016,268,481	4,932,447,448

The LDM value includes the off take at Twynholm (PTL) and Glen Mooar (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)
01/01/2016	11.55	11.61	11.45	11.58	11.56	11.55	11.52	11.55	11.60
02/01/2016	11.61	11.67	11.44	11.58	11.54	11.57	11.60	11.57	11.59
03/01/2016	11.56	11.50	11.50	11.67	11.55	11.59	11.55	11.56	11.58
04/01/2016	11.34	11.04	11.51	11.04	11.56	11.60	11.60	11.52	11.57
05/01/2016	11.03	11.04	11.34	11.04	11.61	11.67	11.60	11.61	11.58
06/01/2016	11.07	11.04	11.19	11.04	11.63	11.61	11.53	11.61	11.59
07/01/2016	11.08	11.04	11.15	11.04	11.58	11.56	11.36	11.60	11.64
08/01/2016	11.04	11.04	11.27	11.04	11.57	11.64	11.58	11.56	11.59
09/01/2016	11.06	11.04	11.18	11.04	11.61	11.59	11.53	11.64	11.53
10/01/2016	11.02	11.04	11.12	11.04	11.56	11.61	11.20	11.57	11.02
11/01/2016	11.04	11.03	11.08	11.04	11.61	11.64	10.97	11.61	11.03
12/01/2016	11.04	11.04	11.36	11.04	11.65	11.68	10.97	11.62	11.03
13/01/2016	11.04	11.04	11.25	11.04	11.58	11.61	10.97	11.64	11.02
14/01/2016	11.00	11.03	11.20	11.04	11.56	11.63	10.98	11.54	11.03
15/01/2016	11.06	11.04	11.40	11.04	11.66	11.63	10.94	11.58	11.02
16/01/2016	11.03	11.03	11.27	11.04	11.61	11.62	10.95	11.62	11.03
17/01/2016	11.02	11.04	11.37	11.04	11.44	11.64	10.97	11.58	11.02
18/01/2016	11.07	11.04	11.42	11.04	11.45	11.61	10.99	11.26	11.03
19/01/2016	11.04	11.03	11.36	11.04	11.59	11.61	10.93	11.04	11.02
20/01/2016	11.01	11.04	11.39	11.04	11.50	11.58	10.97	11.42	11.03
21/01/2016	11.02	11.04	11.38	11.04	11.37	11.61	10.97	11.55	11.02
22/01/2016	11.03	11.04	11.41	11.04	11.31	11.64	10.94	11.15	11.02
23/01/2016	11.04	11.04	11.35	11.04	11.38	11.70	11.03	11.07	11.03
24/01/2016	11.03	11.04	11.16	11.04	11.41	11.65	10.90	10.98	11.04
25/01/2016	11.08	11.04	11.16	11.04	11.34	11.67	10.97	11.03	11.04
26/01/2016	11.00	11.04	11.25	11.04	11.41	11.68	10.95	11.13	11.03
27/01/2016	11.08	11.04	11.38	11.04	11.56	11.67	11.00	11.17	11.03
28/01/2016	11.01	11.04	11.32	11.04	11.55	11.66	10.93	11.16	11.02
29/01/2016	11.03	11.04	11.38	11.04	11.61	11.67	10.98	11.21	11.03
30/01/2016	11.01	11.04	11.33	11.04	11.67	11.67	10.99	11.23	11.29
31/01/2016	11.04	11.03	11.32	11.04	11.63	11.67	10.97	11.35	11.09

# Transportation Network Monthly Report

Month: Jan-2016



## 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: Jan-2016



## 7. Monthly Shrinkage Total for Transportation

Total Transportation Shrinkage : **85,784,000 kWh**

Transmission Shrinkage % of Entry Throughput was 1.49% for the 12 month period Feb-15 to Jan-16