



## Gas Transportation Management System

### Transportation Network Monthly Report

Parameters Entered	
Gas Month	May
Gas Year	2016

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# Transportation Network Monthly Report

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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
01/05/2016	46,855,653	4,055,861.6	29,525,606	2,555,759.6	2,924,152	253,117.2	82,326,593
02/05/2016	37,135,235	3,217,720.8	31,525,519	2,731,645.6	2,895,747	250,913.1	82,869,171
03/05/2016	64,886,591	5,628,057.9	41,194,341	3,573,067.0	2,916,626	252,978.9	82,762,363
04/05/2016	48,082,743	4,163,135.6	39,764,435	3,442,914.1	2,917,049	252,565.7	82,889,791
05/05/2016	61,983,471	5,369,424.7	44,961,635	3,894,878.6	2,912,743	252,321.2	82,903,576
06/05/2016	109,603,281	9,526,019.1	40,467,612	3,517,187.0	2,735,027	237,711.1	31,410,384
07/05/2016	68,928,405	5,987,766.9	36,115,790	3,137,355.8	2,759,230	239,692.6	70,744,010
08/05/2016	43,937,573	3,810,038.1	36,279,171	3,145,941.0	2,541,040	220,345.4	81,436,535
09/05/2016	61,936,256	5,359,890.0	40,829,169	3,533,307.6	2,366,892	204,828.5	82,776,382
10/05/2016	83,518,659	7,231,274.9	41,409,311	3,585,331.8	2,429,725	210,371.9	82,317,484
11/05/2016	74,293,343	6,440,695.1	41,446,741	3,593,132.4	2,450,819	212,468.0	82,916,655
12/05/2016	82,481,896	7,132,457.3	42,389,309	3,665,531.0	2,359,855	204,063.8	40,053,735
13/05/2016	95,702,320	8,281,965.2	43,967,022	3,804,853.7	2,440,572	211,203.9	50,550,359
14/05/2016	57,229,502	4,979,097.9	36,748,064	3,197,165.4	2,395,907	208,449.3	82,332,296
15/05/2016	61,350,378	5,328,111.3	39,198,129	3,404,250.2	2,383,261	206,979.5	83,260,255
16/05/2016	84,126,224	7,241,605.6	52,392,410	4,509,951.5	2,686,507	231,255.1	62,002,417
17/05/2016	65,332,463	5,609,679.2	46,203,144	3,967,167.2	2,727,155	234,163.3	82,892,808
18/05/2016	64,221,493	5,489,417.4	38,287,550	3,272,678.7	2,663,059	227,628.7	82,855,095
19/05/2016	54,614,809	4,698,885.0	38,827,162	3,340,565.8	2,766,007	237,978.4	82,876,505
20/05/2016	49,973,634	4,331,251.2	40,841,024	3,539,721.9	2,665,052	230,982.2	82,996,472
21/05/2016	51,577,946	4,481,684.6	46,684,617	4,056,496.5	2,573,381	223,605.2	82,887,390
22/05/2016	49,847,723	4,315,952.2	38,080,279	3,297,094.6	2,292,315	198,474.8	82,836,405
23/05/2016	104,236,790	9,041,170.1	42,265,318	3,665,960.2	2,509,593	217,674.1	44,311,636
24/05/2016	50,713,643	4,389,812.0	35,832,100	3,101,654.0	2,401,743	207,896.8	80,948,924
25/05/2016	65,974,150	5,720,935.1	38,502,196	3,338,710.4	2,618,916	227,099.0	75,711,900
26/05/2016	103,322,237	8,975,537.4	46,394,099	4,030,226.2	2,645,174	229,784.5	50,553,701
27/05/2016	73,914,290	6,433,994.6	48,173,013	4,193,301.5	2,442,317	212,596.0	80,534,048
28/05/2016	71,188,378	6,199,876.7	38,882,188	3,386,294.1	2,392,623	208,376.3	83,258,821
29/05/2016	65,725,283	5,660,504.7	31,639,819	2,724,938.5	2,168,124	186,726.5	82,981,383
30/05/2016	79,978,481	6,940,610.0	33,180,677	2,879,451.3	2,248,252	195,105.2	82,971,260
31/05/2016	69,041,334	5,992,998.6	33,222,824	2,883,842.5	2,389,826	207,443.9	82,919,636
<b>Totals</b>	<b>2,101,714,184</b>	<b>182,035,430.7</b>	<b>1,235,230,274</b>	<b>106,970,375.6</b>	<b>79,618,689</b>	<b>6,894,800.1</b>	<b>2,325,087,990</b>

	Moffat	
	kWh	M3
Month Min	37,135,235	3,217,720.8
Month Max	109,603,281	9,526,019.1
Month Average	67,797,232	5,872,110.7
YTD Min	37,135,235	3,217,720.8
YTD Max	167,675,316	14,386,340.0
YTD Average	98,248,146	8,468,477.6

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
01/05/2016	0	0.0	0	0.0
02/05/2016	0	0.0	0	0.0
03/05/2016	0	0.0	0	0.0
04/05/2016	0	0.0	5,000,000	432,958.4
05/05/2016	0	0.0	5,000,000	433,148.0
06/05/2016	0	0.0	0	0.0
07/05/2016	0	0.0	0	0.0
08/05/2016	0	0.0	0	0.0
09/05/2016	0	0.0	0	0.0
10/05/2016	0	0.0	0	0.0
11/05/2016	0	0.0	0	0.0
12/05/2016	0	0.0	2,500,000	216,147.6
13/05/2016	0	0.0	0	0.0
14/05/2016	0	0.0	5,000,000	435,043.2
15/05/2016	0	0.0	0	0.0
16/05/2016	0	0.0	0	0.0
17/05/2016	0	0.0	0	0.0
18/05/2016	0	0.0	0	0.0
19/05/2016	0	0.0	0	0.0
20/05/2016	0	0.0	2,000,000	173,316.0
21/05/2016	0	0.0	5,000,000	434,474.6
22/05/2016	0	0.0	0	0.0
23/05/2016	0	0.0	0	0.0
24/05/2016	0	0.0	0	0.0
25/05/2016	0	0.0	2,500,000	216,810.9
26/05/2016	0	0.0	5,000,000	434,379.8
27/05/2016	0	0.0	2,500,000	217,663.7
28/05/2016	0	0.0	2,500,000	217,758.5
29/05/2016	0	0.0	0	0.0
30/05/2016	0	0.0	0	0.0
31/05/2016	0	0.0	0	0.0
<b>Totals</b>	<b>0</b>	<b>0.0</b>	<b>37,000,000</b>	<b>3,211,700.7</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	0.059346
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
01/05/2016	1.379077	1.289937	1.338665	1.365438	1.311892	1.464944	1.212386
02/05/2016	1.331791	1.242366	1.291094	1.316916	1.265272	1.414995	1.167193
03/05/2016	1.261520	1.185538	1.234266	1.258951	1.209581	1.355325	1.113207
04/05/2016	1.226477	1.152753	1.201481	1.225511	1.177451	1.320901	1.082061
05/05/2016	1.317778	1.184510	1.287365	1.313112	1.261618	1.411079	1.125164
06/05/2016	1.326062	1.228352	1.295594	1.321506	1.269682	1.419720	1.169006
07/05/2016	1.295349	1.218195	1.266923	1.292261	1.241585	1.389615	1.144231
08/05/2016	1.292691	1.215495	1.264223	1.289507	1.238939	1.386780	1.141666
09/05/2016	1.369908	1.293922	1.342650	1.369503	1.315797	1.469128	1.216172
10/05/2016	1.358939	1.278623	1.327350	1.353897	1.300803	1.453064	1.201637
11/05/2016	1.401378	1.325165	1.373893	1.401371	1.346415	1.501934	1.245852
12/05/2016	1.324790	1.246223	1.294951	1.320850	1.269052	1.419045	1.170857
13/05/2016	1.352751	1.272323	1.321051	1.347472	1.294630	1.446450	1.195652
14/05/2016	1.310914	1.228352	1.279394	1.304982	1.253806	1.402710	1.156078
15/05/2016	1.294544	1.214081	1.262809	1.288065	1.237553	1.385295	1.140323
16/05/2016	1.355711	1.276051	1.324779	1.351275	1.298283	1.450364	1.199194
17/05/2016	1.404735	1.313979	1.362707	1.389961	1.335453	1.490188	1.235226
18/05/2016	1.423888	1.321051	1.369778	1.397174	1.342382	1.497613	1.241943
19/05/2016	1.396357	1.277466	1.326193	1.352717	1.299669	1.455703	1.200537
20/05/2016	1.349210	1.238380	1.287108	1.312850	1.261366	1.410809	1.163407
21/05/2016	1.301086	1.198010	1.246737	1.271672	1.221802	1.368420	1.125054
22/05/2016	1.332076	1.228866	1.277594	1.303146	1.252042	1.400820	1.154368
23/05/2016	1.385406	1.281965	1.330693	1.357307	1.304079	1.456574	1.204812
24/05/2016	1.404990	1.284665	1.333393	1.360061	1.306725	1.464336	1.207377
25/05/2016	1.390451	1.259852	1.308579	1.334751	1.282407	1.449797	1.183804
26/05/2016	1.618665	1.483562	1.532290	1.562936	1.501644	1.678011	1.396330
27/05/2016	1.445865	1.319893	1.368621	1.395993	1.341249	1.505211	1.240844
28/05/2016	1.500164	1.370807	1.419535	1.447926	1.391144	1.559510	1.289212
29/05/2016	1.431330	1.303437	1.352164	1.379207	1.325121	1.490676	1.225210
30/05/2016	1.436453	1.308451	1.357179	1.384323	1.330035	1.495799	1.229974
31/05/2016	1.590076	1.460034	1.508762	1.538937	1.478587	1.649422	1.373978

	Total First Tier Cost €		Total Second Tier Cost €	
	Buy	Sell	Buy	Sell
01/05/2016	531.19	(38,764.16)	0.00	(11,163.83)
02/05/2016	12,542.09	(16,451.43)	0.00	(12,596.16)
03/05/2016	2,867.67	(57,842.56)	5.12	(6,881.73)
04/05/2016	6,212.25	(24,912.69)	5,265.98	(4,524.15)
05/05/2016	11,158.90	(12,447.95)	44,386.84	(1,652.12)
06/05/2016	923.14	(22,908.32)	0.00	(2,307.65)
07/05/2016	15,468.59	(13,906.11)	2,445.47	(910.26)
08/05/2016	30.34	(33,906.93)	899.59	(5,491.45)
09/05/2016	18,916.01	(6,650.94)	223.53	(1,156.99)
10/05/2016	19,538.32	(10,253.30)	1,008.48	0.00
11/05/2016	5,500.40	(21,779.03)	0.00	(1,616.27)
12/05/2016	56,528.65	(9,581.07)	4,625.69	(2,647.19)
13/05/2016	11,667.52	(14,667.05)	2,920.41	(4,664.05)
14/05/2016	314.41	(25,558.82)	0.00	(5,997.79)
15/05/2016	12,113.73	(10,643.90)	0.00	(15,519.31)
16/05/2016	7,410.19	(16,632.82)	543.10	(1,974.83)
17/05/2016	1,446.52	(14,582.74)	3.99	(59.27)
18/05/2016	9,468.22	(21,475.74)	3,372.30	(1,695.31)
19/05/2016	1,299.22	(20,115.66)	3.90	(454.32)
20/05/2016	10,695.91	(40,110.95)	3,510.26	(17,673.86)
21/05/2016	2,611.04	(17,902.21)	2,783.93	(923.43)
22/05/2016	8,761.80	(5,657.32)	2,394.97	(654.23)
23/05/2016	12,733.02	(11,178.79)	0.00	(148.54)
24/05/2016	5,137.47	(13,657.15)	0.00	0.00
25/05/2016	46,653.77	(3,329.54)	7,022.92	0.00
26/05/2016	21,659.47	(9,011.41)	1,620.58	0.00
27/05/2016	7,984.15	(14,910.80)	0.00	0.00
28/05/2016	2,637.85	(15,349.67)	0.00	(1,272.38)
29/05/2016	38,256.34	(15,120.80)	0.00	(2,953.05)
30/05/2016	13,797.51	(24,207.86)	0.00	(2,849.83)
31/05/2016	6,279.41	(19,983.81)	42.23	(784.50)

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
01/05/2016	113,282,482	6,155,969	28,276,218
02/05/2016	105,537,856	7,287,652	29,530,049
03/05/2016	142,098,282	9,152,112	30,909,684
04/05/2016	130,838,948	8,934,355	29,743,847
05/05/2016	167,202,918	8,547,257	24,692,550
06/05/2016	154,600,746	8,133,731	23,570,091
07/05/2016	146,153,955	7,004,189	26,777,858
08/05/2016	133,796,364	6,245,600	17,618,685
09/05/2016	155,015,927	8,200,751	19,232,552
10/05/2016	164,815,147	8,478,925	21,362,738
11/05/2016	157,759,721	8,437,142	21,571,336
12/05/2016	152,482,898	7,872,580	16,914,314
13/05/2016	165,751,124	7,570,711	16,227,027
14/05/2016	157,835,132	6,219,019	15,212,659
15/05/2016	163,712,786	5,832,553	14,094,704
16/05/2016	177,900,986	8,261,553	16,582,205
17/05/2016	170,013,127	8,033,396	16,778,670
18/05/2016	159,509,733	8,190,243	17,991,609
19/05/2016	145,584,290	8,022,009	18,186,281
20/05/2016	145,702,367	7,788,452	20,774,095
21/05/2016	153,158,269	6,174,928	16,747,228
22/05/2016	143,383,848	6,275,310	16,369,922
23/05/2016	168,251,499	8,360,686	18,588,183
24/05/2016	147,872,450	7,864,468	16,718,912
25/05/2016	160,717,488	8,041,994	20,068,446
26/05/2016	178,407,567	8,363,713	22,713,381
27/05/2016	179,895,441	7,718,585	18,873,460
28/05/2016	158,411,453	5,854,087	14,156,745
29/05/2016	146,854,746	5,511,636	10,834,400
30/05/2016	161,886,501	7,285,199	11,508,088
31/05/2016	151,774,013	7,051,366	10,929,662
<b>Totals</b>	<b>4,760,208,064</b>	<b>232,870,171</b>	<b>603,555,599</b>

<b>Cleansed Totals</b>	<b>4,760,149,040</b>	<b>232,831,026</b>	<b>601,924,748</b>
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### Physical Daily Totals Analysis

	LDM Sector kWh	DM Sector kWh	NDM Sector kWh
Month Min	105,537,856	5,511,636	10,834,400
Month Max	179,895,441	9,152,112	30,909,684
Month Average	153,555,099	7,511,941	19,469,535
YTD Min	95,646,619	5,270,693	10,834,400
YTD Max	200,629,057	11,405,851	71,453,307
YTD Average	148,333,685	8,556,790	40,193,093
YTD Rolling Total	36,193,419,144	2,087,856,707	9,807,114,634

### Cleansed monthly Totals Analysis

	LDM Sector kWh	DM Sector kWh	NDM Sector kWh
YTD Min	3,885,125,083	232,317,765	601,924,748
YTD Max	4,826,378,072	288,055,274	1,724,663,102
YTD Average	4,524,035,193	261,528,588	1,235,112,737
YTD Rolling Total	36,192,281,547	2,092,228,705	9,880,901,897

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

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## 5. Gas Quality

	Ballygarraun AGI - Supply to Galway (kWh/Nm3)	Ballyveelish AGI - Supply to Clonmel (kWh/Nm3)	Barnakyle AGI - Supply to Adare (kWh/Nm3)	Caherlag AGI - Supply to Cork & Ballincollig (kWh/Nm3)	Curraleigh West (kWh/Nm3)	Dublin City (kWh/Nm3)	Gormanston - Node (kWh/Nm3)	Ories AGI - Supply to Athlone (kWh/Nm3)	Springhill AGI - Supply to Carlow (kWh/Nm3)
01/05/2016	11.04	11.02	11.05	11.14	11.04	11.30	11.59	10.91	11.33
02/05/2016	11.03	11.03	11.01	11.11	11.04	11.20	11.58	11.02	11.02
03/05/2016	11.04	11.02	11.01	11.03	11.04	11.29	11.58	11.02	11.10
04/05/2016	11.03	11.03	10.98	11.00	11.04	11.31	11.56	11.03	11.05
05/05/2016	11.04	11.02	11.11	11.02	11.04	11.36	11.53	10.94	11.04
06/05/2016	11.03	11.03	10.96	11.04	11.04	11.47	11.52	11.06	11.14
07/05/2016	11.03	11.03	11.05	11.02	11.04	11.52	11.51	11.00	11.10
08/05/2016	11.03	11.03	11.08	11.04	11.04	11.47	11.45	10.97	11.15
09/05/2016	11.03	11.03	11.04	11.04	11.04	11.26	11.50	10.95	11.40
10/05/2016	11.03	11.20	11.00	11.02	11.04	11.35	11.51	11.02	11.10
11/05/2016	11.03	11.37	10.94	11.04	11.04	11.35	11.49	11.02	11.27
12/05/2016	11.03	11.36	11.18	11.03	11.04	11.34	11.50	10.99	11.12
13/05/2016	11.04	11.40	10.92	11.06	11.04	11.52	11.54	11.04	11.14
14/05/2016	11.03	11.54	10.90	11.07	11.04	11.52	11.55	10.95	11.12
15/05/2016	11.03	11.52	11.23	11.09	11.04	11.34	11.53	10.96	11.38
16/05/2016	11.03	11.33	10.98	11.08	11.04	11.33	11.50	11.02	11.29
17/05/2016	11.04	11.39	11.06	11.08	11.04	11.47	11.50	10.96	11.18
18/05/2016	11.05	11.44	10.95	11.07	11.04	11.39	11.52	11.06	11.15
19/05/2016	11.04	11.30	11.07	11.07	11.04	11.33	11.59	11.00	11.21
20/05/2016	11.03	11.40	11.00	11.05	11.04	11.28	11.61	10.95	11.14
21/05/2016	11.03	11.28	11.02	11.03	11.04	11.27	11.63	10.99	11.23
22/05/2016	11.04	11.24	11.05	11.14	11.04	11.28	11.67	11.05	11.11
23/05/2016	11.03	11.30	11.06	11.10	11.04	11.40	11.63	10.83	11.10
24/05/2016	11.03	11.52	11.00	11.12	11.04	11.63	11.62	10.85	11.06
25/05/2016	11.03	11.65	11.07	11.18	11.04	11.56	11.51	10.76	11.45
26/05/2016	11.04	11.52	11.06	11.24	11.04	11.48	11.52	10.82	11.36
27/05/2016	11.03	11.52	10.94	11.21	11.04	11.52	11.52	10.78	11.54
28/05/2016	11.04	11.55	11.04	11.20	11.04	11.50	11.50	10.80	11.52
29/05/2016	11.03	11.53	11.17	11.19	11.04	11.25	11.49	10.71	11.24
30/05/2016	11.03	11.52	10.71	11.15	11.04	11.25	11.47	10.83	11.21
31/05/2016	11.03	11.50	11.08	11.06	11.04	11.33	11.55	10.82	11.25

# Transportation Network Monthly Report

Month: May-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: May-2016



## 7. Monthly Shrinkage Total for Transportation

Total Transportation Shrinkage : **83,688,000 kWh**

Transmission Shrinkage % of Entry Throughput was 1.72% for the 12 month period Jun-15 to May-16