



Gas Transportation Management System

Transportation Network Monthly Report

Parameters Entered	
Gas Month	February
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
01/02/2016	82,066,079	7,101,901.0	40,609,557	3,514,302.5	4,538,339	392,742.3	27,205,580.0
02/02/2016	74,048,810	6,383,804.9	55,905,456	4,819,651.8	4,635,062	399,592.5	60,545,788.0
03/02/2016	90,850,581	7,836,258.7	53,947,998	4,653,250.4	4,731,683	408,128.5	56,584,700.0
04/02/2016	65,583,589	5,646,876.3	51,447,107	4,429,697.4	4,473,719	385,195.6	58,803,493.0
05/02/2016	77,527,039	6,685,355.0	57,576,912	4,965,004.2	4,538,125	391,334.2	60,289,350.0
06/02/2016	84,252,689	7,237,880.6	46,731,597	4,014,563.3	4,420,997	379,793.3	31,406,213.0
07/02/2016	72,862,006	6,273,562.1	42,886,208	3,692,586.8	4,275,655	368,142.6	47,588,623.0
08/02/2016	77,755,335	6,701,653.7	46,285,530	3,989,303.1	4,558,292	392,875.0	48,175,309.0
09/02/2016	112,287,693	9,552,462.8	53,737,415	4,571,513.3	4,419,624	375,983.0	33,911,563.0
10/02/2016	111,408,935	9,411,985.8	59,286,217	5,008,584.3	4,658,170	393,528.8	55,495,410.0
11/02/2016	112,194,766	9,501,905.5	63,058,410	5,340,489.8	4,365,692	369,735.5	60,491,107.0
12/02/2016	106,539,570	9,118,033.7	60,347,881	5,164,785.8	4,681,542	400,663.3	56,382,433.0
13/02/2016	103,688,507	8,930,038.4	45,505,551	3,919,106.8	4,513,278	388,699.8	60,389,658.0
14/02/2016	94,297,033	8,208,244.8	49,730,880	4,328,908.8	4,411,675	384,021.5	60,506,695.0
15/02/2016	99,647,631	8,640,923.7	58,685,742	5,088,921.9	4,874,696	422,708.3	60,535,130.0
16/02/2016	78,589,372	6,792,415.8	54,723,952	4,729,746.4	5,013,595	433,321.4	60,451,592.0
17/02/2016	136,586,898	11,799,115.3	65,797,729	5,683,964.4	4,795,379	414,250.9	34,267,077.0
18/02/2016	106,021,783	9,149,468.4	62,276,914	5,374,373.1	4,788,742	413,258.8	60,384,829.0
19/02/2016	101,330,165	8,744,591.2	46,278,787	3,993,767.3	4,825,220	416,406.7	39,520,601.0
20/02/2016	103,585,011	8,959,577.9	42,034,958	3,635,810.4	4,558,064	394,249.0	26,185,412.0
21/02/2016	88,687,735	7,719,974.0	44,792,839	3,899,068.9	4,361,869	379,686.3	37,314,454.0
22/02/2016	93,528,901	8,155,949.6	53,181,493	4,637,556.3	4,645,536	405,101.8	60,356,088.0
23/02/2016	105,600,092	9,270,199.3	55,870,078	4,904,605.1	4,687,620	411,506.7	60,456,534.0
24/02/2016	119,644,110	10,497,662.5	65,041,033	5,706,748.5	4,811,881	422,198.4	60,137,988.0
25/02/2016	124,099,822	10,824,576.0	63,904,111	5,574,020.1	5,017,297	437,633.0	60,253,954.0
26/02/2016	110,251,242	9,589,665.6	59,381,501	5,165,009.4	4,801,245	417,613.0	59,288,860.0
27/02/2016	117,487,259	10,224,268.6	48,968,155	4,261,428.3	4,557,104	396,580.1	52,446,211.0
28/02/2016	104,031,774	9,051,003.3	46,061,396	4,007,446.8	4,369,112	380,123.1	52,934,965.0
29/02/2016	78,176,883	6,801,568.6	51,228,913	4,457,032.8	5,006,583	435,584.2	55,630,703.0
Totals	2,832,631,310	244,810,923.0	1,545,284,320	133,531,248.3	134,335,796	11,610,657.6	1,497,940,320.0

	Moffat	
	kWh	M3
Month Min	65,583,589	5,646,876.3
Month Max	136,586,898	11,799,115.3
Month Average	97,676,942	8,441,756.0
YTD Min	42,157,679	3,614,351.1
YTD Max	167,675,316	14,386,340.0
YTD Average	110,866,049	9,531,505.7

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
01/02/2016	0	0.0	0	0.0
02/02/2016	0	0.0	0	0.0
03/02/2016	0	0.0	0	0.0
04/02/2016	0	0.0	0	0.0
05/02/2016	0	0.0	0	0.0
06/02/2016	0	0.0	0	0.0
07/02/2016	0	0.0	0	0.0
08/02/2016	0	0.0	0	0.0
09/02/2016	0	0.0	0	0.0
10/02/2016	0	0.0	0	0.0
11/02/2016	0	0.0	0	0.0
12/02/2016	0	0.0	0	0.0
13/02/2016	0	0.0	0	0.0
14/02/2016	0	0.0	0	0.0
15/02/2016	0	0.0	0	0.0
16/02/2016	0	0.0	0	0.0
17/02/2016	0	0.0	0	0.0
18/02/2016	0	0.0	0	0.0
19/02/2016	0	0.0	0	0.0
20/02/2016	0	0.0	0	0.0
21/02/2016	0	0.0	0	0.0
22/02/2016	0	0.0	2,500,000	218,042.8
23/02/2016	0	0.0	0	0.0
24/02/2016	0	0.0	2,000,000	175,495.5
25/02/2016	0	0.0	0	0.0
26/02/2016	0	0.0	0	0.0
27/02/2016	0	0.0	0	0.0
28/02/2016	0	0.0	0	0.0
29/02/2016	0	0.0	0	0.0
Totals	0	0.0	4,500,000	393,538.3

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	0.057805
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
01/02/2016	1.402628	1.278511	1.327377	1.327377	1.327377	1.460433	1.203203
02/02/2016	1.390193	1.262007	1.310873	1.310873	1.310873	1.447998	1.187524
03/02/2016	1.413646	1.275287	1.324153	1.324153	1.324153	1.471451	1.200140
04/02/2016	1.317579	1.203471	1.252337	1.252337	1.252337	1.375384	1.131915
05/02/2016	1.325105	1.217396	1.266262	1.266262	1.266262	1.387380	1.145144
06/02/2016	1.281978	1.178973	1.227839	1.227839	1.227839	1.347036	1.108642
07/02/2016	1.288322	1.185291	1.234157	1.234157	1.234157	1.353670	1.114644
08/02/2016	1.371699	1.268325	1.317191	1.317191	1.317191	1.440856	1.193526
09/02/2016	1.316313	1.225132	1.273998	1.273998	1.273998	1.395503	1.152493
10/02/2016	1.331859	1.230160	1.279026	1.279026	1.279026	1.400782	1.157270
11/02/2016	1.296673	1.218685	1.267551	1.267551	1.267551	1.388734	1.146368
12/02/2016	1.385476	1.290888	1.339754	1.339754	1.339754	1.464547	1.214961
13/02/2016	1.379016	1.274900	1.323766	1.323766	1.323766	1.447759	1.199773
14/02/2016	1.335752	1.231836	1.280702	1.280702	1.280702	1.402542	1.158862
15/02/2016	1.396891	1.292693	1.341559	1.341559	1.341559	1.466442	1.216676
16/02/2016	1.346868	1.249500	1.298366	1.298366	1.298366	1.421089	1.175643
17/02/2016	1.418128	1.311518	1.360384	1.360384	1.360384	1.486208	1.234560
18/02/2016	1.340368	1.235447	1.284313	1.284313	1.284313	1.406334	1.162292
19/02/2016	1.310687	1.215591	1.264457	1.264457	1.264457	1.385485	1.143429
20/02/2016	1.336861	1.250919	1.299785	1.299785	1.299785	1.422579	1.176991
21/02/2016	1.285099	1.198700	1.247566	1.247566	1.247566	1.367749	1.127383
22/02/2016	1.331238	1.245246	1.294112	1.294112	1.294112	1.416623	1.171601
23/02/2016	1.396679	1.306618	1.355484	1.355484	1.355484	1.481063	1.229905
24/02/2016	1.363907	1.290372	1.339238	1.339238	1.339238	1.464005	1.214471
25/02/2016	1.349341	1.275287	1.324153	1.324153	1.324153	1.448166	1.200140
26/02/2016	1.358690	1.281734	1.330600	1.330600	1.330600	1.454935	1.206265
27/02/2016	1.333290	1.253111	1.301977	1.301977	1.301977	1.424881	1.179073
28/02/2016	1.329982	1.249758	1.298624	1.298624	1.298624	1.421360	1.175888
29/02/2016	1.407482	1.328279	1.377145	1.377145	1.377145	1.503807	1.250483

	Total First Tier Cost €		Total Second Tier Cost €	
	Buy	Sell	Buy	Sell
01/02/2016	21,986.73	(2,454.44)	1,332.46	0.00
02/02/2016	21,520.14	(3,725.53)	151.97	0.00
03/02/2016	9,161.02	(20,424.24)	1,596.07	(2,059.32)
04/02/2016	441.88	(18,490.52)	0.00	(1,290.20)
05/02/2016	8,943.56	(15,837.48)	1,154.81	0.00
06/02/2016	7,569.33	(16,478.94)	1,380.71	(3,024.89)
07/02/2016	21,618.06	(9,652.85)	3,345.35	(2,607.63)
08/02/2016	18,557.49	(2,289.91)	2,540.03	0.00
09/02/2016	16,705.95	(13,772.77)	10,429.90	0.00
10/02/2016	19,785.31	(17,173.86)	6,632.14	(1,266.32)
11/02/2016	10,695.65	(28,006.35)	248.22	0.00
12/02/2016	6,193.40	(36,154.50)	0.00	(575.58)
13/02/2016	4,138.14	(16,535.76)	0.00	(2,115.64)
14/02/2016	20,324.93	(11,478.12)	0.00	(1,289.77)
15/02/2016	15,229.27	(4,635.90)	5,208.19	(207.14)
16/02/2016	17,602.15	(6,362.27)	4,122.25	0.00
17/02/2016	21,671.31	(2,631.27)	0.00	(4,573.34)
18/02/2016	6,542.12	(14,374.87)	0.00	0.00
19/02/2016	245.91	(34,795.76)	0.00	(8,493.21)
20/02/2016	0.00	(28,822.15)	0.00	(7,775.90)
21/02/2016	6,580.33	(26,451.47)	0.00	(15,072.51)
22/02/2016	16,315.56	(10,668.06)	0.00	(254.93)
23/02/2016	16,783.70	(1,033.32)	0.00	0.00
24/02/2016	19,736.29	(2,933.43)	607.36	0.00
25/02/2016	4,380.13	(15,920.06)	0.00	0.00
26/02/2016	219.99	(40,671.99)	0.00	0.00
27/02/2016	16,022.95	(11,490.62)	0.00	(1,435.61)
28/02/2016	0.00	(33,604.98)	0.00	(8,004.58)
29/02/2016	441.40	(33,962.16)	0.00	(1,106.69)

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
01/02/2016	116,937,104	9,979,464	49,531,805
02/02/2016	143,281,069	11,405,851	57,354,547
03/02/2016	159,337,515	10,618,624	57,277,365
04/02/2016	140,519,674	9,648,446	48,364,512
05/02/2016	153,120,852	9,906,994	51,584,366
06/02/2016	120,105,510	8,003,532	49,956,856
07/02/2016	115,960,564	7,860,019	53,097,449
08/02/2016	126,090,308	10,779,407	60,156,060
09/02/2016	147,250,198	11,210,349	65,220,752
10/02/2016	180,645,011	10,886,597	58,646,235
11/02/2016	182,335,723	10,695,482	59,936,430
12/02/2016	177,668,913	10,073,529	59,889,707
13/02/2016	159,938,528	8,196,217	53,019,329
14/02/2016	157,834,561	8,605,387	53,955,754
15/02/2016	169,676,572	11,125,779	60,665,547
16/02/2016	148,469,404	10,422,891	58,989,828
17/02/2016	191,360,500	11,190,630	58,714,348
18/02/2016	180,695,420	10,953,716	59,193,132
19/02/2016	131,906,825	9,665,439	54,510,299
20/02/2016	116,636,580	7,609,229	47,927,822
21/02/2016	127,825,088	7,293,492	41,400,725
22/02/2016	167,902,078	10,679,036	51,153,143
23/02/2016	179,305,067	11,153,423	53,609,295
24/02/2016	200,629,057	11,374,183	57,279,208
25/02/2016	197,443,238	10,839,961	60,400,301
26/02/2016	179,894,551	10,070,717	56,982,240
27/02/2016	171,720,340	8,232,079	53,696,375
28/02/2016	156,491,092	7,898,479	48,858,622
29/02/2016	134,899,646	9,898,828	58,592,780
Totals	4,535,880,988	286,277,780	1,599,964,832

Cleansed Totals	4,536,552,767	288,055,274	1,724,663,102
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Physical Daily Totals Analysis

	LDM Sector kWh	DM Sector kWh	NDM Sector kWh
Month Min	115,960,564	7,293,492	41,400,725
Month Max	200,629,057	11,405,851	65,220,752
Month Average	156,409,689	9,871,648	55,171,201
YTD Min	95,646,619	5,270,693	19,515,192
YTD Max	200,629,057	11,405,851	71,453,307
YTD Average	143,367,489	8,556,453	43,030,357
YTD Rolling Total	21,791,858,268	1,300,580,832	6,540,614,283

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	288,055,274	1,724,663,102
YTD Average	4,358,197,275	260,864,751	1,331,422,110
YTD Rolling Total	21,790,986,376	1,304,323,755	6,657,110,550

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)
01/02/2016	11.04	11.04	11.37	11.04	11.44	11.65	10.93	11.41	11.03
02/02/2016	11.04	11.04	11.31	11.04	11.55	11.61	10.99	11.43	11.12
03/02/2016	11.01	11.04	11.23	11.04	11.48	11.57	10.98	11.17	11.07
04/02/2016	11.05	11.04	11.26	11.04	11.55	11.55	10.92	11.13	11.21
05/02/2016	11.03	11.04	11.24	11.04	11.51	11.58	10.99	11.22	11.33
06/02/2016	11.07	11.04	11.22	11.04	11.48	11.59	10.91	11.31	11.48
07/02/2016	10.99	11.03	11.13	11.04	11.57	11.60	11.02	11.07	11.49
08/02/2016	11.09	11.04	11.20	11.04	11.55	11.58	10.93	11.20	11.53
09/02/2016	10.97	11.03	11.28	11.04	11.50	11.62	10.97	11.45	11.35
10/02/2016	11.07	11.03	11.24	11.04	11.59	11.60	10.98	11.16	11.02
11/02/2016	11.04	11.04	11.21	11.04	11.65	11.79	10.95	11.48	11.03
12/02/2016	11.03	11.04	11.28	11.04	11.81	11.87	10.97	11.66	11.02
13/02/2016	11.04	11.03	11.17	11.04	11.85	11.82	10.97	11.82	11.03
14/02/2016	11.02	11.04	11.19	11.04	11.77	11.70	10.99	11.84	11.03
15/02/2016	10.99	11.03	11.17	11.04	11.64	11.64	10.95	11.75	11.03
16/02/2016	11.08	11.04	11.27	11.04	11.63	11.55	10.93	11.64	11.03
17/02/2016	10.98	11.03	11.21	11.04	11.51	11.50	10.97	12.02	11.03
18/02/2016	11.08	11.03	11.21	11.04	11.55	11.57	10.99	11.46	11.03
19/02/2016	11.01	11.04	11.24	11.04	11.56	11.58	11.03	11.59	11.07
20/02/2016	11.08	11.04	11.03	11.04	11.58	11.58	11.27	11.53	11.58
21/02/2016	11.01	11.03	11.18	11.04	11.58	11.60	11.43	11.58	11.59
22/02/2016	10.99	11.03	11.28	11.04	11.58	11.57	11.48	11.53	11.16
23/02/2016	11.05	11.04	11.21	11.04	11.52	11.49	11.47	11.57	11.02
24/02/2016	11.02	11.03	11.17	11.04	11.48	11.46	11.45	11.52	11.03
25/02/2016	11.05	11.04	11.14	11.04	11.41	11.37	11.55	11.46	11.11
26/02/2016	11.06	11.03	11.19	11.04	11.35	11.41	11.58	11.33	11.03
27/02/2016	11.02	11.04	11.17	11.04	11.43	11.46	11.55	11.37	11.03
28/02/2016	11.05	11.03	11.11	11.04	11.46	11.49	11.43	11.50	11.03
29/02/2016	11.04	11.03	11.16	11.04	11.48	11.49	11.52	11.48	11.03

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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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7. Monthly Shrinkage Total for Transportation

Total Transportation Shrinkage : **84,990,000 kWh**

Transmission Shrinkage % of Entry Throughput was 1.52% for the 12 month period Mar-15 to Feb-16