



Gas Transportation Management System

Transportation Network Monthly Report

Parameters Entered	
Gas Month	December
Gas Year	2017

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1. **Moffat Energy/Volume of Gas**

	Moffat		Moffat VRF Allocations		Did a Moffat VRF Interruption Occur?	Net Moffat Flows		PTL		Isle of Man	
	Total kWh	Total KCM	Total kWh	Total KCM		Total kWh	Total KCM	Total kWh	Total KCM	Total kWh	Total KCM
01/12/2017	99,483,131		1,488,062.0		Yes	97,995,069		62,235,313		4,934,567	
02/12/2017	74,314,310		14,500,096.0		Yes	59,814,214		48,088,867		4,548,318	
03/12/2017	58,014,651		3,534,226.0		Yes	54,480,425		44,550,988		4,304,286	
04/12/2017	79,475,790		0.0			79,475,790		47,155,633		4,559,883	
05/12/2017	38,095,084		0.0		Yes	38,095,084		42,925,898		4,606,171	
06/12/2017	25,683,991		10,415,546.0		Yes	15,268,445		34,865,138		4,505,701	
07/12/2017	36,558,649		8,086,912.0			28,471,737		42,392,933		4,671,698	
08/12/2017	71,208,117		258,277.0			70,949,840		52,208,670		5,085,018	
09/12/2017	67,638,323		13,801.0			67,624,522		49,731,961		4,722,902	
10/12/2017	100,531,034		0.0			100,531,034		52,548,695		4,699,444	
11/12/2017	82,428,634		103,364.0		Yes	82,325,270		57,561,427		5,073,411	
12/12/2017	73,782,563		492,730.0		Yes	73,289,833		55,971,025		5,068,391	
13/12/2017	41,493,078		1,157,016.0		Yes	40,336,062		53,858,363		4,867,773	
14/12/2017	45,035,119		3,785,901.0		Yes	41,249,218		53,607,033		4,946,528	
15/12/2017	63,511,033		165,441.0		Yes	63,345,592		48,222,024		5,005,881	
16/12/2017	52,186,331		34,973.0			52,151,358		53,313,163		5,043,708	
17/12/2017	53,467,194		613,957.0			52,853,237		40,134,261		4,543,534	
18/12/2017	69,119,678		119,683.0			68,999,995		52,552,849		4,697,024	
19/12/2017	35,937,502		545,275.0			35,392,227		42,928,770		4,618,052	
20/12/2017	101,095,682		0.0		Yes	101,095,682		51,038,964		4,372,632	
21/12/2017	50,408,952		0.0		Yes	50,408,952		48,430,496		4,454,684	
22/12/2017	26,112,957		150,786.0			25,962,171		40,250,445		4,414,610	
23/12/2017	13,113,337		11,517,851.0			1,595,486		31,535,982		4,279,521	
24/12/2017	11,880,133		5,362,374.0		Yes	6,517,759		29,529,130		4,200,108	
25/12/2017	22,110,106		0.0			22,110,106		41,218,177		4,382,334	
26/12/2017	30,196,267		0.0			30,196,267		39,236,615		4,524,850	
27/12/2017	62,400,510		0.0			62,400,510		52,835,483		4,847,428	
28/12/2017	66,137,755		156,914.0			65,980,841		59,317,730		4,808,563	
29/12/2017	33,621,032		0.0		Yes	33,621,032		54,516,997		4,950,466	
30/12/2017	21,039,518		218,572.0			20,820,946		48,376,380		4,614,857	
31/12/2017	24,159,493		4,458,858.0			19,700,635		42,884,486		4,496,600	
Totals	1,630,239,954		67,180,615.0			1,563,059,339		1,474,023,896		144,848,923	

Corrib Curtailment Notice Issued by the Operator

Corrib Curtailment Notice Issued by the Operator

Moffat	
kWh	KCM

Month Min	15,552,955	1,413.9
Month Max	161,882,975	14,836.5
Month Average	73,406,739	6,724.3
YTD Min	15,552,955	1,413.9
YTD Max	161,882,975	14,836.5
YTD Average	73,406,739	6,724.3

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.

*** While an interruption, or a number of interruptions to the VRF product may occur on a day during individual hourly matching cycles. Shippers can continue to re-nominate in subsequent hours as more Moffat Entry Nominations are received later in the day. The available VRF Quantity is published hourly to the Shipper Nominations Summary Screen in GTMS.

Moffat ROI Fwd. Flow Allocations highlighted in yellow indicate a day on which a 'Notice of Potential Supply Deficit' was issued by GNI Grid Control to Shippers.

Moffat ROI Fwd. Flow Allocations highlighted in green indicate a day on which two 'Notices of Potential Supply Deficit' were issued by GNI Grid Control to Shippers.

Moffat ROI Fwd. Flow Allocations highlighted in green indicate a day on which three 'Notices of Potential Supply Deficit' were issued by GNI Grid Control to Shippers.

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1. Bellanaboy Energy/Volume of Gas

	Bellanaboy	
	Total kWh	Total KCM
01/12/2017	103,815,600	9921
02/12/2017	103,812,456	9921
03/12/2017	103,863,839	9926
04/12/2017	103,863,593	9926
05/12/2017	103,864,176	9926
06/12/2017	101,922,554	9740
07/12/2017	103,835,160	9923
08/12/2017	103,835,064	9923
09/12/2017	103,837,536	9923
10/12/2017	67,393,149	6441
11/12/2017	103,827,132	9,922.0
12/12/2017	103,637,133	9,904.0
13/12/2017	103,639,843	9,905.0
14/12/2017	103,639,848	9,905.0
15/12/2017	103,640,304	9,905.0
16/12/2017	103,641,024	9,905.0
17/12/2017	103,642,344	9,905.0
18/12/2017	103,643,472	9,905.0
19/12/2017	103,242,569	9,867.0
20/12/2017	54,057,293	5,166.0
21/12/2017	94,701,261	9,050.0
22/12/2017	103,815,456	9,921.0
23/12/2017	103,042,992	9,847.0
24/12/2017	102,915,072	9,835.0
25/12/2017	103,604,422	9,901.0
26/12/2017	103,557,504	9,897.0
27/12/2017	99,518,782	9,511.0
28/12/2017	102,345,288	9,781.0
29/12/2017	102,806,208	9,825.0
30/12/2017	102,763,968	9,821.0
31/12/2017	102,122,608	9,760.0
Totals	3,107,847,650	297,008.0

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2. Balancing Actions

	Balancing Buy		Balancing Sell	
	kWh	KCM	kWh	KCM
01/12/2017	5,000,000	0.0	0	0.0
02/12/2017	5,000,000	461.3	0	0.0
03/12/2017	0	0.0	0	0.0
04/12/2017	5,000,000	0.0	0	0.0
05/12/2017	0	0.0	0	0.0
06/12/2017	0	0.0	0	0.0
07/12/2017	0	0.0	0	0.0
08/12/2017	0	0.0	0	0.0
09/12/2017	0	0.0	0	0.0
10/12/2017	0	0.0	0	0.0
11/12/2017	0	458.6	0	0.0
12/12/2017	5,000,000	459.8	0	0.0
13/12/2017	0	457.3	0	0.0
14/12/2017	0	0.0	0	0.0
15/12/2017	0	0.0	0	0.0
16/12/2017	0	0.0	0	0.0
17/12/2017	0	0.0	0	0.0
18/12/2017	0	0.0	0	0.0
19/12/2017	0	0.0	0	0.0
20/12/2017	0	0.0	0	0.0
21/12/2017	0	0.0	0	0.0
22/12/2017	0	0.0	0	0.0
23/12/2017	0	0.0	0	0.0
24/12/2017	0	0.0	0	0.0
25/12/2017	0	0.0	0	0.0
26/12/2017	0	0.0	0	0.0
27/12/2017	0	0.0	0	0.0
28/12/2017	0	0.0	0	0.0
29/12/2017	0	0.0	0	0.0
30/12/2017	0	0.0	0	0.0
31/12/2017	0	0.0	0	0.0
Totals	20,000,000	1,837.0	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	0.04972
Applicable Second Tier Positive Imbalance Multiplier for this Month	0.75
Applicable Second Tier Negative Imbalance Multiplier for this Month	1.25

	System Marginal Price €/kWh		System Average Price €/kWh	First Tier Price €/kWh		Second Tier Price €/kWh	
	Buy	Sell		Buy	Sell	Buy	Sell
01/12/2017	2.308459	2.202119	2.253328	2.298395	2.208261	2.866730	1.639926
02/12/2017	2.256719	2.140486	2.191696	2.235530	2.147862	2.789690	1.593702
03/12/2017	2.187184	2.071376	2.122586	2.165038	2.080134	2.703303	1.541870
04/12/2017	2.350194	2.233388	2.284598	2.330290	2.238906	2.905817	1.663378
05/12/2017	2.238422	2.133915	2.185125	2.228828	2.141423	2.781476	1.588774
06/12/2017	2.234667	2.134028	2.185238	2.228943	2.141533	2.781618	1.588859
07/12/2017	2.375786	2.268057	2.319266	2.365651	2.272881	2.949152	1.689379
08/12/2017	2.354640	2.201666	2.252875	2.297933	2.207818	2.866164	1.639586
09/12/2017	2.337668	2.234861	2.286071	2.331792	2.240350	2.907659	1.664483
10/12/2017	2.388319	2.285504	2.336714	2.383448	2.289980	2.970963	1.702466
11/12/2017	2.706505	2.558092	2.609302	2.661488	2.557116	3.311697	1.906907
12/12/2017	2.758900	2.396760	2.701524	2.755554	2.647494	3.426975	1.976073
13/12/2017	3.066488	2.360052	2.411262	2.459487	2.363037	3.116558	1.758376
14/12/2017	2.379337	2.274175	2.325384	2.371892	2.278876	2.956800	1.693968
15/12/2017	2.373752	2.271002	2.322212	2.368656	2.275768	2.952835	1.691589
16/12/2017	2.535702	2.412281	2.463491	2.512761	2.414221	3.129434	1.797548
17/12/2017	2.445008	2.341019	2.392228	2.440073	2.344383	3.040355	1.744101
18/12/2017	2.495003	2.390982	2.442191	2.491035	2.393347	3.102809	1.781573
19/12/2017	2.312535	2.216281	2.267490	2.312840	2.222140	2.884433	1.650547
20/12/2017	2.323264	2.219000	2.273495	2.318965	2.228025	2.891939	1.655051
21/12/2017	2.295898	2.206424	2.257633	2.302786	2.212480	2.872111	1.643155
22/12/2017	2.170543	2.068204	2.126777	2.169313	2.084241	2.708541	1.545013
23/12/2017	2.172299	2.072056	2.129157	2.171740	2.086574	2.711516	1.546798
24/12/2017	2.109540	2.014955	2.066165	2.107488	2.024842	2.632776	1.499554
25/12/2017	2.102654	2.008044	2.059254	2.100439	2.018069	2.624138	1.494371
26/12/2017	2.243411	2.149323	2.200533	2.244544	2.156522	2.800736	1.600330
27/12/2017	2.189907	2.095621	2.146831	2.189768	2.103894	2.733609	1.560053
28/12/2017	2.226136	2.136408	2.187617	2.231369	2.143865	2.784591	1.590643
29/12/2017	2.077133	1.985498	2.036708	2.077442	1.995974	2.595955	1.477461
30/12/2017	2.092680	2.006571	2.057781	2.098937	2.016625	2.622296	1.493266
31/12/2017	1.997910	1.911063	1.962273	2.001518	1.923028	2.502911	1.421635

	Total First Tier Cost €		Total Second Tier Cost €	
	Buy	Sell	Buy	Sell
01/12/2017	5,054.91	(25,035.44)	443.80	(236.61)
02/12/2017	977.46	(40,349.07)	299.19	(506.16)
03/12/2017	12,322.87	(45,823.55)	230.84	(4,258.64)
04/12/2017	18,741.65	(88,550.86)	211.23	(1,419.61)
05/12/2017	11,467.86	(29,476.86)	244.57	(2,686.86)
06/12/2017	23,650.19	(54,304.28)	137.80	(1,193.39)
07/12/2017	55,618.09	(3,091.80)	4,034.82	(386.46)
08/12/2017	49,645.42	(2,881.10)	539.52	(107.28)
09/12/2017	13,721.58	(25,833.22)	2,182.80	0.00
10/12/2017	39,971.40	(5,268.44)	318.46	(7.27)
11/12/2017	38,141.34	(11,225.09)	741.06	(1.91)
12/12/2017	9,041.47	(98,586.77)	863.46	(1,747.52)
13/12/2017	20,548.49	(31,132.39)	1,437.26	(126.90)
14/12/2017	15,373.44	(16,312.99)	811.58	(44.99)
15/12/2017	931.15	(29,350.16)	767.11	(107.86)
16/12/2017	28,761.44	(72,820.22)	199,611.80	(352.95)
17/12/2017	7,806.86	(114,406.76)	576.48	(58,148.21)
18/12/2017	17,147.99	(63,442.96)	811.48	(789.31)
19/12/2017	13,416.90	(47,644.52)	2,006.47	(1,406.81)
20/12/2017	37,342.33	(51,437.16)	29,263.87	(1,019.08)
21/12/2017	16,678.57	(19,292.01)	4,816.30	(612.17)
22/12/2017	10,381.31	(37,356.96)	0.00	(2,506.36)
23/12/2017	9,496.13	(52,930.26)	0.00	(17,434.44)
24/12/2017	2,358.64	(44,306.29)	7.06	(37,349.86)
25/12/2017	51,305.93	(6,944.88)	107.35	(33,051.96)
26/12/2017	13,124.83	(24,156.78)	5,731.60	(26,050.96)
27/12/2017	17,868.22	(41,763.15)	0.00	(5,722.87)
28/12/2017	8,674.89	(52,809.60)	0.00	(280.90)
29/12/2017	29,454.57	(34,590.03)	0.00	(264.02)
30/12/2017	974.54	(88,033.97)	0.13	(20,776.10)
31/12/2017	68,199.30	(21,795.37)	15,953.63	(21,279.67)

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	ROI LDM (less PTL(NI) and IOM)	Power Gen (sub-sector of ROI LDM Sector)	DM Sector kWh	NDM Sector kWh
01/12/2017	197,722,725	130,552,845	113,672,777	11,373,778	68,357,418
02/12/2017	158,711,990	106,074,805	90,832,777	8,381,235	56,508,827
03/12/2017	162,758,852	113,903,578	99,467,779	7,584,302	49,137,523
04/12/2017	175,509,346	123,793,830	107,892,221	10,262,491	55,282,105
05/12/2017	138,076,441	90,544,372	73,806,944	9,944,785	54,513,265
06/12/2017	110,641,184	71,270,345	55,427,500	9,337,114	48,528,335
07/12/2017	125,827,467	78,762,836	61,847,963	11,244,504	58,778,073
08/12/2017	166,429,349	109,135,661	92,081,667	11,599,505	70,410,208
09/12/2017	164,053,166	109,598,303	93,346,389	9,280,459	66,263,691
10/12/2017	166,123,130	108,874,991	93,783,334	9,221,562	65,538,564
11/12/2017	177,276,447	114,641,609	98,323,333	12,033,664	74,682,004
12/12/2017	160,645,099	99,605,683	84,261,944	11,606,771	71,166,701
13/12/2017	136,960,021	78,233,885	62,527,223	11,303,554	68,223,647
14/12/2017	135,502,115	76,948,554	61,054,722	11,342,374	70,780,408
15/12/2017	154,800,494	101,572,609	85,464,166	10,803,253	67,649,271
16/12/2017	162,006,790	103,649,919	89,415,556	8,456,218	62,436,786
17/12/2017	148,993,246	104,315,451	91,052,222	7,602,616	51,047,073
18/12/2017	171,570,710	114,320,837	99,672,223	10,495,477	60,144,125
19/12/2017	137,949,257	90,402,435	76,174,167	9,309,687	51,555,088
20/12/2017	170,840,315	115,428,719	101,785,556	8,909,038	45,359,055
21/12/2017	160,430,916	107,545,736	93,799,445	8,479,255	43,284,477
22/12/2017	137,229,541	92,564,486	79,151,112	7,783,995	42,255,484
23/12/2017	105,953,937	70,138,434	57,778,610	6,263,796	39,175,992
24/12/2017	104,316,675	70,587,437	61,521,389	5,166,782	36,713,660
25/12/2017	131,454,534	85,854,023	78,620,000	5,902,692	41,950,152
26/12/2017	121,160,756	77,399,291	69,334,722	6,723,076	53,075,991
27/12/2017	149,023,301	91,340,390	80,600,834	8,079,947	62,736,442
28/12/2017	163,428,140	99,301,847	86,812,500	8,373,638	66,572,430
29/12/2017	130,255,709	70,788,246	58,741,112	7,819,694	60,902,551
30/12/2017	116,396,069	63,404,832	52,336,110	6,041,715	51,459,692
31/12/2017	120,533,526	73,152,440	63,427,500	6,454,650	51,722,188
Totals	4,562,581,248	2,943,708,429	2,514,013,797	277,181,627	1,766,211,226

Cleansed Totals	4,730,609,642			238,842,745	842,724,754
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The Total LDM value includes the off take at Twynholm (PTL) and Glen Mooar (Isle of Man)

Physical Daily Totals Analysis

	LDM Sector kWh	DM Sector kWh	NDM Sector kWh
Month Min	104,316,675	5,166,782	36,713,660
Month Max	197,722,725	12,033,664	74,682,004
Month Average	147,180,040	8,941,343	56,974,556
YTD Min	104,316,675	5,166,782	17,120,020
YTD Max	200,151,868	12,033,664	74,682,004
YTD Average	156,984,349	8,633,036	43,841,432
YTD Rolling Total	14,442,560,118	794,239,326	4,033,411,714

Cleansed monthly Totals Analysis

	LDM Sector kWh	DM Sector kWh	NDM Sector kWh
YTD Min	4,562,215,070	238,842,745	842,724,754
YTD Max	5,149,164,859	278,222,297	1,766,305,179
YTD Average	4,813,996,524	264,417,750	1,343,925,690
YTD Rolling Total	14,441,989,571	793,253,251	4,031,777,071

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5. Gas Quality

	Ballygarraun AGI - Supply to Galway (MJ/m3)	Ballyveelish AGI - Supply to Clonmel (MJ/m3)	Barnakyle AGI - Supply to Adare (MJ/m3)	Caherlag AGI - Supply to Cork & Ballincollig (MJ/m3)	Curraleigh West (MJ/m3)	Brownsbarn & Abbotstown CV (MJ/m3)	Gormanston - Node (MJ/m3)	Ories AGI - Supply to Athlone (MJ/m3)	Springhill AGI - Supply to Carlow (MJ/m3)
01/12/2017	37.67	38.91	37.68	37.71	37.66	39.28	40.04	37.61	39.01
02/12/2017	37.66	39.31	37.67	37.79	37.68	39.06	40.06	37.67	39.01
03/12/2017	37.67	37.89	37.77	37.73	37.68	38.81	40.04	37.85	37.94
04/12/2017	37.67	39.07	37.70	37.62	37.68	38.99	39.69	37.58	37.76
05/12/2017	37.67	37.79	37.55	37.83	37.69	38.76	39.65	37.66	38.07
06/12/2017	37.67	37.63	37.81	37.80	37.68	38.05	39.70	37.61	38.66
07/12/2017	37.66	37.63	37.61	37.44	37.68	38.11	39.72	37.65	38.48
08/12/2017	37.67	37.64	37.65	37.82	37.69	38.83	39.68	37.73	38.11
09/12/2017	37.67	37.64	37.71	37.75	37.69	38.89	39.60	37.78	38.06
10/12/2017	37.67	37.65	37.64	37.55	37.69	38.91	39.48	37.62	38.95
11/12/2017	37.67	38.20	37.59	37.76	37.69	39.15	39.65	37.55	38.70
12/12/2017	37.67	38.86	37.77	37.80	37.69	39.00	39.69	37.81	39.06
13/12/2017	37.66	37.63	37.61	37.77	37.69	38.66	39.74	37.57	39.01
14/12/2017	37.67	37.63	37.72	37.71	37.69	38.55	39.67	37.62	39.06
15/12/2017	37.66	37.63	37.64	37.74	37.69	38.49	39.38	37.80	38.61
16/12/2017	37.68	37.65	37.71	37.80	37.69	38.47	39.10	37.69	38.34
17/12/2017	37.67	37.61	37.73	37.85	37.68	38.32	39.46	37.56	38.36
18/12/2017	37.66	37.81	37.54	37.55	37.69	38.81	39.41	37.68	37.83
19/12/2017	37.67	37.63	37.69	38.00	37.68	38.50	39.38	37.58	38.07
20/12/2017	37.68	37.60	37.65	37.63	37.69	38.34	39.13	37.75	38.00
21/12/2017	37.67	37.95	37.74	37.81	37.69	39.07	39.11	37.56	37.77
22/12/2017	37.65	37.61	37.57	37.63	37.69	38.48	39.24	37.77	38.60
23/12/2017	37.68	37.63	37.68	37.90	37.69	38.00		37.85	37.66
24/12/2017	37.66	37.61	37.74	37.92	37.69	37.69		37.64	37.65
25/12/2017	37.68	37.64	37.58	37.59	37.69	37.67		37.74	37.68
26/12/2017	37.66	37.63	37.75	37.63	37.69	38.24	39.22	37.61	37.64
27/12/2017	37.66	37.65	37.66	37.50	37.69	38.26	39.27	37.47	37.77
28/12/2017	37.67	37.63	37.60	37.71	37.69	38.63	39.23	37.71	37.73
29/12/2017	37.67	37.63	37.70	37.78	37.69	38.33	39.31	37.70	38.44
30/12/2017	37.66	37.60	37.66	37.77	37.68	38.15	39.32	37.84	37.73
31/12/2017	37.66	37.65	37.64	37.61	37.68	38.06	39.30	37.50	37.88

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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