



Gas Transportation Management System

Transportation Network Monthly Report

Parameters Entered	
Gas Month	February
Gas Year	2017

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Transportation Network Monthly Report
 Month: Feb-2017



1. Moffat Energy/Volume of Gas

	Moffat Ireland Fwd Flow Allocations		Moffat VRF Allocations		Did a Moffat VRF Interruption Occur at some point during the day?***	Net Moffat Flows		PTL - Northern Ireland		Isle of Man		Shrinkage Total kWh
	Total kWh	Total KCM				Total kWh	Total KCM	Total kWh	Total KCM	Total kWh	Total KCM	
01/02/2017	46,899,667	4,243.2	17,547,517.0			29,352,150		44,262,247	4,004.6	4,470,319	404.5	1,600,000
02/02/2017	41,345,172	3,746.4	30,061,004.0		Yes	11284168		41769307	3785	4525508	410	1600000
03/02/2017	71,949,508	6,517.8	10,351,126.0		Yes	61598382		53421837	4839	4652662	421	1600000
04/02/2017	44,486,571	4,044.2	0.0			44486571		53091258	4826	4520199	411	1600000
05/02/2017	41,489,073	3,784.2	306,574.0			41182499		55864416	5095	4422919	403	1600000
06/02/2017	53,472,381	4,871.0	7,287,182.0			46185199		48508971	4419	4878338	444	1600000
07/02/2017	78,160,855	7,127.1	1,787,733.0			76373122		57210236	5217	4756337	434	1600000
08/02/2017	65,193,989	5,944.7	0.0			65193989		48376785	4411	4806602	438	1600000
09/02/2017	59,179,131	5,401.7	2,080,804.0			57098327		54128892	4941	4850950	443	1600000
10/02/2017	93,556,654	8,531.0	0.0			93556654		68004605	6201	5108425	466	1600000
11/02/2017	50,261,902	4,564.7	0.0			50261902		50792531	4613	5037510	457	1600000
12/02/2017	35,443,273	3,221.3	6,219,335.0			29223938		50196063	4562	4896484	445	1600000
13/02/2017	31,817,639	2,896.2	7,582,535.0			24235104		44784002	4076	4842011	441	1600000
14/02/2017	57,168,298	5,195.8	2,838,943.0			54329355		49635901	4511	4920829	447	1600000
15/02/2017	49,072,173	4,430.9	10,288,384.0			38783789		40150378	3625	4661088	421	1600000
16/02/2017	61,350,310	5,556.3	3,624,116.0			57726194		45374460	4109	4634307	420	1600000
17/02/2017	51,420,666	4,701.9	2,109,988.0			49310678		44233770	4045	4549254	416	1600000
18/02/2017	44,093,811	4,044.3	8,157,906.0			35935905		33768442	3097	4279272	392	1600000
19/02/2017	29,364,381	2,675.6	6,308,903.0		Yes	23055478		35055005	3194	4038106	368	1600000
20/02/2017	32,459,298	2,965.8	17,776,802.0			14682496		39013108	3565	4281740	391	1600000
21/02/2017	27,114,798	2,480.0	15,236,400.0			11878398		41002626	3750	4485771	410	1600000
22/02/2017	39,512,734	3,614.9	17,615,519.0			21897215		46409882	4246	4509656	413	1600000
23/02/2017	40,774,138	3,739.8	5,124,801.0		Yes	35649337		47682990	4373	4767143	437	1600000
24/02/2017	42,807,796	3,919.3	2,490,005.0			40317791		51756690	4739	4685073	429	1600000
25/02/2017	26,955,653	2,474.3	4,985,979.0			21969674		37750730	3465	4391041	403	1600000
26/02/2017	25,700,777	2,354.9	7,309,286.0			18391491		35597197	3262	4401459	403	1600000
27/02/2017	72,001,804	6,592.2	93,391.0			71908413		56721060	5193	4618947	423	1600000
28/02/2017	52,690,834	4,823.0	5,514,053.0			47176781		56662863	5187	4810266	440	1600000
Totals	1,365,743,286	124,462.4	192,698,286.0			1173045000		1331226252	121352	129802216	11833	44800000

	kWh	KCM
Month Min	25,700,777	2,354.9
Month Max	93,556,654	8,531.0
Month Average	48,776,546	4,445.1
YTD Min	24,802,308	2,263.3
YTD Max	110,210,678	10,080.2
YTD Average	61,403,629	5,591.0

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.

Transportation Network Monthly Report

Month: Feb-2017



1. Bellanaboy Energy/Volume of Gas

	Bellanaboy	
	Total kWh	Total KCM
01/02/2017	103,714,161	9,912.0
02/02/2017	103,713,672	9,912.0
03/02/2017	103,712,184	9,911.0
04/02/2017	103,718,856	9,912.0
05/02/2017	103,710,960	9,911.0
06/02/2017	103,705,248	9,911.0
07/02/2017	93,124,704	8,900.0
08/02/2017	89,901,718	8,592.0
09/02/2017	89,902,104	8,592.0
10/02/2017	89,822,333	8,584.0
11/02/2017	89,901,864	8,592.0
12/02/2017	95,817,792	9,157.0
13/02/2017	103,714,200	9,912.0
14/02/2017	94,724,304	9,052.0
15/02/2017	103,625,160	9,903.0
16/02/2017	103,626,411	9,903.0
17/02/2017	100,715,181	9,625.0
18/02/2017	103,479,963	9,889.0
19/02/2017	103,476,648	9,889.0
20/02/2017	103,478,568	9,889.0
21/02/2017	96,018,256	9,176.0
22/02/2017	103,656,003	9,906.0
23/02/2017	103,720,824	9,912.0
24/02/2017	103,710,168	9,911.0
25/02/2017	103,709,544	9,911.0
26/02/2017	103,707,816	9,911.0
27/02/2017	103,707,950	9,911.0
28/02/2017	103,704,802	9,911.0
Totals	2,809,521,394	268,497.0

Transportation Network Monthly

Month: Feb-17



1. Inch Energy/Volume of Gas

	Inch
	Total kWh
01/02/2017	7,243,111
02/02/2017	14,848,389
03/02/2017	16,852,167
04/02/2017	16,786,667
05/02/2017	16,823,278
06/02/2017	16,824,778
07/02/2017	16,803,833
08/02/2017	16,799,333
09/02/2017	16,799,250
10/02/2017	20,023,361
11/02/2017	16,794,278
12/02/2017	16,846,611
13/02/2017	16,788,389
14/02/2017	16,792,306
15/02/2017	16,870,722
16/02/2017	16,840,167
17/02/2017	16,912,222
18/02/2017	16,737,111
19/02/2017	14,486,167
20/02/2017	16,801,944
21/02/2017	16,796,000
22/02/2017	16,823,972
23/02/2017	16,824,278
24/02/2017	16,799,889
25/02/2017	16,813,472
26/02/2017	16,851,500
27/02/2017	16,851,194
28/02/2017	16,746,861
TOTAL	460,181,250

Transportation Network Monthly Report

Month: Feb-17



1. Gormanston Energy/Volume of Gas

	Gormanston CSEP - Exit	Gormanston CSEP - VRF Entry
	Total kWh	Total kWh
01/02/2017	0	0
02/02/2017	0	0
03/02/2017	0	0
04/02/2017	0	0
05/02/2017	0	0
06/02/2017	0	0
07/02/2017	0	0
08/02/2017	0	0
09/02/2017	0	0
10/02/2017	0	0
11/02/2017	0	0
12/02/2017	0	0
13/02/2017	0	0
14/02/2017	0	0
15/02/2017	0	0
16/02/2017	0	0
17/02/2017	0	0
18/02/2017	0	0
19/02/2017	0	0
20/02/2017	0	0
21/02/2017	0	0
22/02/2017	0	0
23/02/2017	0	0
24/02/2017	0	0
25/02/2017	0	0
26/02/2017	0	0
27/02/2017	0	0
28/02/2017	0	0
TOTAL	0	0

Transportation Network Monthly Report

Month: Feb-2017



2. Balancing Actions

	Balancing Buy		Balancing Sell	
	kWh	KCM	kWh	KCM
01/02/2017	0	0.0	0	0.0
02/02/2017	0	0.0	0	0.0
03/02/2017	0	0.0	0	0.0
04/02/2017	0	0.0	0	0.0
05/02/2017	0	0.0	0	0.0
06/02/2017	0	0.0	0	0.0
07/02/2017	0	0.0	2,500,000	228.0
08/02/2017	0	0.0	2,500,000	228.0
09/02/2017	0	0.0	2,500,000	228.2
10/02/2017	0	0.0	0	0.0
11/02/2017	0	0.0	0	0.0
12/02/2017	0	0.0	0	0.0
13/02/2017	0	0.0	0	0.0
14/02/2017	0	0.0	0	0.0
15/02/2017	0	0.0	0	0.0
16/02/2017	0	0.0	0	0.0
17/02/2017	0	0.0	0	0.0
18/02/2017	0	0.0	0	0.0
19/02/2017	0	0.0	0	0.0
20/02/2017	0	0.0	0	0.0
21/02/2017	0	0.0	0	0.0
22/02/2017	0	0.0	2,500,000	228.7
23/02/2017	0	0.0	1,600,000	146.8
24/02/2017	0	0.0	0	0.0
25/02/2017	0	0.0	0	0.0
26/02/2017	0	0.0	0	0.0
27/02/2017	0	0.0	0	0.0
28/02/2017	0	0.0	0	0.0
Totals	0	0.0	11,600,000	1,059.7

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

Transportation Network Monthly Report

Month: Feb-2017



3. Imbalance Price (Excluding Northern Ireland's Flows)

Balancing Transportation Cost €/kWh	0.052294
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
01/02/2017	2.305368	2.216176	2.262732	2.307987	2.217477	2.880709	1.644755
02/02/2017	2.253451	2.181347	2.227903	2.272461	2.183345	2.837173	1.618633
03/02/2017	2.431144	2.359129	2.405685	2.453799	2.357571	3.059400	1.751970
04/02/2017	2.369517	2.295216	2.341773	2.388608	2.294938	2.979510	1.704036
05/02/2017	2.434671	2.360888	2.407444	2.455593	2.359295	3.061599	1.753289
06/02/2017	2.464572	2.391026	2.437583	2.486335	2.388831	3.099273	1.775893
07/02/2017	2.295958	2.231304	2.277860	2.323417	2.232303	2.899619	1.656101
08/02/2017	2.214265	2.122242	2.168799	2.212175	2.125423	2.763293	1.574305
09/02/2017	2.279468	2.181464	2.228020	2.272580	2.183460	2.837319	1.618721
10/02/2017	2.123929	2.031241	2.077797	2.119353	2.036241	2.649540	1.506054
11/02/2017	2.166451	2.038394	2.084950	2.126649	2.043251	2.658481	1.511419
12/02/2017	2.121569	2.018927	2.065484	2.106794	2.024174	2.634149	1.496819
13/02/2017	2.035222	1.932968	1.979524	2.019114	1.939934	2.526699	1.432349
14/02/2017	2.012621	1.915377	1.961934	2.001173	1.922695	2.504712	1.419157
15/02/2017	2.019459	1.919834	1.966390	2.005718	1.927062	2.510282	1.422498
16/02/2017	2.057690	1.960644	2.007200	2.047344	1.967056	2.561294	1.453106
17/02/2017	1.957886	1.875036	1.921593	1.960025	1.883161	2.454285	1.388901
18/02/2017	1.900170	1.804205	1.850761	1.887776	1.813746	2.365745	1.335777
19/02/2017	1.892888	1.796934	1.843491	1.880361	1.806621	2.356658	1.330324
20/02/2017	1.851077	1.755186	1.801742	1.837777	1.765707	2.304472	1.299013
21/02/2017	1.878389	1.776177	1.822734	1.859189	1.786279	2.330712	1.314756
22/02/2017	1.877324	1.766092	1.812649	1.848902	1.776396	2.318105	1.307193
23/02/2017	1.952191	1.844312	1.890868	1.928685	1.853051	2.415879	1.365857
24/02/2017	1.907625	1.797286	1.843842	1.880719	1.806965	2.357097	1.330587
25/02/2017	1.909709	1.816753	1.863309	1.900575	1.826043	2.381430	1.345188
26/02/2017	1.842988	1.750026	1.796583	1.832515	1.760651	2.298023	1.295143
27/02/2017	1.811328	1.718363	1.764920	1.800218	1.729622	2.258444	1.271396
28/02/2017	1.832131	1.739706	1.786263	1.821988	1.750538	2.285123	1.287403

	Total First Tier Cost €		Total Second Tier Cost €	
	Buy	Sell	Buy	Sell
01/02/2017	88.79	(73,224.26)	0.00	(18,997.43)
02/02/2017	15,914.97	(12,540.96)	0.00	(46.08)
03/02/2017	31,973.09	(28,706.65)	151.47	(274.71)
04/02/2017	11,179.68	(29,614.93)	49.08	(61.31)
05/02/2017	1,088.69	(93,646.19)	1,560.41	(999.25)
06/02/2017	24,816.58	(56,588.46)	92.95	(59.42)
07/02/2017	39,563.55	(2,640.36)	40.74	0.00
08/02/2017	17,083.34	(34,273.38)	0.00	(10.63)
09/02/2017	42,975.13	(15,234.02)	208.34	0.00
10/02/2017	42,411.11	(5,421.02)	0.00	0.00
11/02/2017	17,710.72	(16,088.38)	80.50	0.00
12/02/2017	11,061.98	(12,190.79)	7.06	0.00
13/02/2017	406.79	(49,568.90)	6.77	(359.27)
14/02/2017	9,267.57	(49,574.36)	0.00	(0.03)
15/02/2017	21,908.48	(24,679.77)	0.00	(194.03)
16/02/2017	29,658.87	(61,042.66)	0.00	(734.34)
17/02/2017	2,629.41	(24,989.05)	0.00	(68.96)
18/02/2017	0.00	(43,883.83)	0.00	(6,599.50)
19/02/2017	0.00	(113,835.99)	0.00	(11,407.46)
20/02/2017	14,556.33	(38,582.22)	1,231.03	(361.54)
21/02/2017	33,228.70	(10,076.32)	6.25	0.00
22/02/2017	9,184.47	(24,298.44)	0.00	0.00
23/02/2017	28,833.07	(7,409.13)	325.37	(2,638.54)
24/02/2017	9,071.01	(28,219.20)	6.32	0.00
25/02/2017	6,575.93	(44,609.62)	0.00	(6,399.55)
26/02/2017	71,701.41	(22,430.53)	2,477.20	(524.95)
27/02/2017	29,989.94	(9,236.51)	666.17	0.00
28/02/2017	20,138.79	(39,452.67)	0.00	(119.38)

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)

Transportation Network Monthly Report

Month: Feb-2017



4. Gas Consumption by Market Sector

	LDM Sector kWh	LDM less PTL(NI) and IOM kWh	DM Sector kWh	NDM Sector kWh
01/02/2017	123,197,881	74,465,315	9,711,042	50,217,491
02/02/2017	116,547,577	70,252,762	9,394,243	48,972,463
03/02/2017	173,347,482	115,272,983	9,849,534	55,506,905
04/02/2017	158,133,139	100,521,682	8,236,244	53,843,555
05/02/2017	153,954,523	93,667,188	7,892,968	54,664,008
06/02/2017	145,140,348	91,753,039	10,255,943	61,792,834
07/02/2017	181,310,931	119,344,358	10,875,126	58,485,659
08/02/2017	154,783,462	101,600,075	10,589,190	59,960,235
09/02/2017	149,938,799	90,958,957	10,878,750	64,089,308
10/02/2017	197,405,080	124,292,050	10,904,147	68,311,454
11/02/2017	136,636,617	80,806,576	8,787,056	65,689,761
12/02/2017	123,365,324	68,272,777	8,539,360	63,453,211
13/02/2017	119,472,306	69,846,293	10,554,067	60,140,700
14/02/2017	148,667,275	94,110,545	10,374,619	57,640,182
15/02/2017	142,866,050	98,054,584	9,953,898	49,485,445
16/02/2017	162,460,304	112,451,537	9,871,297	52,648,676
17/02/2017	156,889,484	108,106,460	9,178,798	47,012,933
18/02/2017	143,003,213	104,955,499	7,332,918	39,446,438
19/02/2017	126,911,176	87,818,065	6,951,433	37,501,917
20/02/2017	125,498,913	82,204,065	9,266,262	40,534,357
21/02/2017	119,093,108	73,604,711	9,282,939	41,575,818
22/02/2017	141,630,539	90,711,001	9,303,618	42,478,814
23/02/2017	146,277,949	93,827,816	10,513,531	52,757,740
24/02/2017	150,355,832	93,914,069	9,714,852	54,510,353
25/02/2017	131,579,522	89,437,751	7,368,691	43,557,256
26/02/2017	128,546,877	88,548,221	7,457,573	44,039,933
27/02/2017	186,777,067	125,437,060	10,659,061	55,931,204
28/02/2017	156,887,124	95,413,995	10,727,522	58,855,253
Totals	4,100,677,902	2,639,649,434	264,424,682	1,483,103,903

Cleansed Totals	4,101,160,688		267,986,171	1,482,871,393
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The 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	116,547,577	6,951,433	37,501,917
Month Max	197,405,080	10,904,147	68,311,454
Month Average	146,452,782	9,443,739	52,967,997
YTD Min	102,066,926	5,070,253	17,352,496
YTD Max	217,718,741	11,453,903	71,043,858
YTD Average	159,777,302	8,764,602	46,559,037
YTD Rolling Total	24,126,372,600	1,323,454,867	7,030,414,555

Cleansed monthly Totals Analysis

	LDM Sector kWh	DM Sector kWh	NDM Sector kWh
YTD Min	4,101,160,688	233,516,577	842,188,576
YTD Max	5,274,654,419	284,546,073	1,681,088,972
YTD Average	4,825,318,370	266,042,000	1,412,247,647
YTD Rolling Total	24,126,591,849	1,330,210,000	7,061,238,234

Transportation Network Monthly Report

Month: Feb-2017



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)
01/02/2017	37.67	37.28	37.53	37.83	37.69	38.26	39.79	37.54	37.78
02/02/2017	37.67	37.48	37.60	37.75	37.69	38.07		37.82	37.67
03/02/2017	37.67	37.66	37.81	37.87	37.69	38.38	39.69	37.65	37.78
04/02/2017	37.67	37.66	37.60	37.89	37.69	38.53	39.64	37.47	38.12
05/02/2017	37.66	37.66	37.70	37.87	37.69	38.59	39.75	37.68	38.02
06/02/2017	37.67	37.66	37.69	37.92	37.68	38.55	39.74	37.70	38.09
07/02/2017	37.67	37.67	37.62	37.83	37.69	38.90	39.68	37.72	37.78
08/02/2017	37.67	38.05	37.69	37.82	37.70	39.03	39.50	37.52	38.64
09/02/2017	37.67	37.67	37.50	37.94	37.69	38.83	39.52	37.77	38.35
10/02/2017	37.67	37.75	37.70	37.82	37.69	38.94	39.50	37.67	37.94
11/02/2017	37.67	39.09	37.71	37.82	37.69	38.90	39.45	37.59	38.81
12/02/2017	37.66	37.84	37.72	37.97	37.69	38.35	39.43	37.60	39.22
13/02/2017	37.67	37.66	37.65	37.94	37.69	38.21	39.40	37.72	39.19
14/02/2017	37.66	37.71	37.73	37.85	37.69	38.28	39.52	37.75	38.85
15/02/2017	37.68	37.79	37.63	37.83	37.69	38.67	39.65	37.61	37.70
16/02/2017	37.67	37.66	37.60	37.82	37.70	38.58	39.61	37.69	37.75
17/02/2017	37.67	37.66	37.53	37.78	37.69	38.66	39.55	37.63	37.70
18/02/2017	37.65	37.67	37.89	37.84	37.69	38.55	39.82	37.44	37.73
19/02/2017	37.69	37.67	37.54	37.85	37.69	38.34	39.84	37.79	37.74
20/02/2017	37.66	37.65	37.84	37.95	37.69	37.99	39.96	37.60	38.44
21/02/2017	37.67	37.66	37.59	37.90	37.69	38.23	39.79	37.62	37.64
22/02/2017	37.67	37.67	37.72	37.94	37.69	38.09	39.76	37.73	37.69
23/02/2017	37.67	37.66	37.62	37.99	37.69	38.41	39.45	37.68	37.67
24/02/2017	37.68	37.66	37.62	37.84	37.69	38.57	39.39	37.67	37.71
25/02/2017	37.66	37.67	37.80	37.94	37.69	38.17	39.33	37.64	37.82
26/02/2017	37.67	37.65	37.76	37.90	37.69	37.97	39.36	37.70	37.67
27/02/2017	37.67	37.70	37.53	37.86	37.69	38.62	39.41	37.63	37.74
28/02/2017	37.66	37.70	37.56	37.79	37.69	38.38	39.29	37.78	38.31

Transportation Network Monthly Report

Month: Feb-2017



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: Feb-2017



7. Monthly Shrinkage Total for Transportation

Total Transportation Shrinkage : **44,800,000 kWh**

Transmission Shrinkage % of Entry Throughput was 1.84% for the 12 month period Mar-16 to Feb-17