



Gas Transportation Management System

Transportation Network Monthly Report

Parameters Entered	
Gas Month	November
Gas Year	2017

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1. Moffat Energy/Volume of Gas

	Moffat ROI Fwd Flow Allocations		Moffat VRF Allocations		Did a Moffat VRF Interruption Occur at some point during the day?***	Net Moffat ROI Flows		PTL - Northern Ireland		Isle of Man		Shrinkage Total kWh
	Total kWh	Total KCM	Total kWh	Total KCM	Yes/No	Total kWh	Total KCM	Total kWh	Total KCM	Total kWh	Total KCM	
01/11/2017	66,532,712		1,658,525			64,874,187		48,312,216		4,073,551		1,600,000
02/11/2017	73,356,204		0		Yes	73,356,204		54,303,276		4,101,860		1,600,000
03/11/2017	61,248,154		0		Yes	61,248,154		49,901,060		4,495,437		1,600,000
04/11/2017	43,828,769		1,428,571		Yes	42,400,198		48,861,119		4,141,211		1,600,000
05/11/2017	46,751,576		0		Yes	46,751,576		50,589,790		4,164,355		1,600,000
06/11/2017	60,647,305		13,406,558		Yes	47,240,747		43,573,102		4,418,504		1,600,000
07/11/2017	83,864,733		9,266,832		Yes	74,597,901		61,269,196		4,382,803		1,600,000
08/11/2017	78,621,937		2,540,436		Yes	76,081,501		57,276,588		4,546,241		1,600,000
09/11/2017	58,227,520		16,019,196		Yes	42,208,324		50,030,503		4,218,737		1,600,000
10/11/2017	61,111,617		13,088,534			48,023,083		49,825,705		4,408,772		1,600,000
11/11/2017	55,788,993		10,157,656		Yes	45,631,337		51,464,428		4,392,231		1,600,000
12/11/2017	64,972,211		12,316,345		Yes	52,655,866		46,157,130		4,392,737		1,600,000
13/11/2017	135,543,973		0		Yes	135,543,973		53,890,854		4,654,781		1,600,000
14/11/2017	82,120,876		0		Yes	82,120,876		53,286,413		4,382,552		1,600,000
15/11/2017	78,397,727		8,321,717			70,076,010		58,135,849		4,289,690		1,600,000
16/11/2017	79,117,000		6,538,981		Yes	72,578,019		52,662,910		3,658,855		1,600,000
17/11/2017	88,679,899		6,539,894		Yes	82,140,005		52,697,905		4,563,679		1,600,000
18/11/2017	70,993,635		0			70,993,635		54,310,164		4,216,917		1,600,000
19/11/2017	48,941,963		8,686,061		Yes	40,255,902		54,004,720		4,089,646		1,600,000
20/11/2017	42,587,463		4,290,212			38,297,251		49,424,463		4,202,120		1,600,000
21/11/2017	52,173,581		8,832,260			43,341,321		42,927,522		4,163,222		1,600,000
22/11/2017	59,003,737		4,612,302			54,391,435		48,834,471		4,278,418		1,600,000
23/11/2017	100,880,031		0			100,880,031		51,879,241		4,567,369		1,600,000
24/11/2017	86,771,716		2,893,512			83,878,204		55,007,053		4,786,784		1,600,000
25/11/2017	64,352,641		8,691,509			55,661,132		52,967,819		4,359,656		1,600,000
26/11/2017	52,347,214		12,915,602			39,431,612		43,232,470		4,553,670		1,600,000
27/11/2017	62,935,388		12,121,491		Yes	50,813,897		45,979,911		4,760,334		1,600,000
28/11/2017	77,316,782		16,610,897		Yes	60,705,885		44,711,856		4,688,605		1,600,000
29/11/2017	80,680,057		7,323,434			73,356,623		55,465,347		4,799,726		1,600,000
30/11/2017	74,654,157		293,589			74,360,568		56,440,235		4,931,435		1,600,000
Totals	2,092,449,571		188,554,114			1,903,895,457		1,537,423,316		131,683,898		48,000,000

	Moffat	
	kWh	KCM
Month Min	42,587,463	3,891.2
Month Max	135,543,973	12,334.6
Month Average	69,748,319	6,329.2
YTD Min	15,552,955	1,413.9
YTD Max	161,882,975	14,836.5
YTD Average	71,607,516	6,530.0

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.

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.

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1. Bellanaboy Energy/Volume of Gas

	Bellanaboy	
	Total kWh	Total KCM
01/11/2017	103,866,860	9,926.0
02/11/2017	95,594,040	9,136.0
03/11/2017	103,716,936	9,912.0
04/11/2017	95,137,971	9,092.0
05/11/2017	97,547,688	9,322.0
06/11/2017	93,927,548	8,976.0
07/11/2017	93,552,764	8,941.0
08/11/2017	93,319,344	8,918.0
09/11/2017	103,867,392	9,926.0
10/11/2017	103,867,536	9,926.0
11/11/2017	103,867,104	9,926.0
12/11/2017	100,249,620	9,581.0
13/11/2017	43,311,395	4,139.0
14/11/2017	101,879,951	9,736.0
15/11/2017	102,851,803	9,829.0
16/11/2017	103,352,088	9,877.0
17/11/2017	103,349,760	9,877.0
18/11/2017	103,600,440	9,901.0
19/11/2017	103,849,946	9,925.0
20/11/2017	103,850,544	9,925.0
21/11/2017	103,849,038	9,925.0
22/11/2017	103,849,776	9,925.0
23/11/2017	67,994,120	6,498.0
24/11/2017	103,637,207	9,904.0
25/11/2017	103,864,884	9,926.0
26/11/2017	103,865,777	9,926.0
27/11/2017	103,697,160	9,910.0
28/11/2017	100,112,730	9,567.0
29/11/2017	103,867,296	9,926.0
30/11/2017	103,867,800	9,926.0

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1. Inch Energy/Volume of Gas

	Inch
	Total kWh
01/11/2017	11,813,917
02/11/2017	14,850,778
03/11/2017	12,486,500
04/11/2017	13,228,417
05/11/2017	12,827,861
06/11/2017	14,560,417
07/11/2017	12,968,222
08/11/2017	11,587,222
09/11/2017	14,558,028
10/11/2017	15,825,306
11/11/2017	12,044,500
12/11/2017	8,307,944
13/11/2017	10,669,417
14/11/2017	15,821,917
15/11/2017	15,818,167
16/11/2017	15,801,278
17/11/2017	15,820,111
18/11/2017	15,878,694
19/11/2017	15,855,389
20/11/2017	15,812,583
21/11/2017	12,903,833
22/11/2017	13,824,389
23/11/2017	15,782,778
24/11/2017	15,168,056
25/11/2017	14,740,000
26/11/2017	15,839,972
27/11/2017	11,404,667
28/11/2017	14,994,694
29/11/2017	15,829,111
30/11/2017	15,842,611

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2. Balancing Actions

	Balancing Buy		Balancing Sell	
	kWh	KCM	kWh	KCM
01/11/2017	5,000,000	458.50	0	
02/11/2017	-	-	0	
03/11/2017	-	-	0	
04/11/2017	-	-	0	
05/11/2017	-	-	0	
06/11/2017	5,000,000	455.40	0	
07/11/2017	-	-	0	
08/11/2017	-	-	0	
09/11/2017	5,000,000	453.40	0	
10/11/2017	5,000,000	453.50	0	
11/11/2017	-	-	0	
12/11/2017	-	-	0	
13/11/2017	5,000,000	455.00	0	
14/11/2017	5,000,000	454.20	0	
15/11/2017	5,000,000	454.10	0	
16/11/2017	-	-	0	
17/11/2017	-	-	0	
18/11/2017	-	-	0	
19/11/2017	-	-	0	
20/11/2017	-	-	0	
21/11/2017	-	-	0	
22/11/2017	-	-	0	
23/11/2017	-	-	0	
24/11/2017	-	-	0	
25/11/2017	-	-	0	
26/11/2017	-	-	0	
27/11/2017	-	-	0	
28/11/2017	-	-	0	
29/11/2017	-	-	0	
30/11/2017	-	-	0	
Totals	35,000,000	3,184.10	-	

Balancing Buys and Sells are measured in Energy. Conversion to Volume has been carried out

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

Balancing Transportation Cost €/kWh	0.04984
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		Total First Tier Cost €		Total Second Tier Cost €	
	Buy	Sell		Buy	Sell	Buy	Sell	Buy	Sell	Buy	Sell
01/11/2017	1.889796	1.757983	1.808886	1.845064	1.772708	2.310948	1.306824	33,536.55	(14,495.29)	309.30	0.00
02/11/2017	1.883071	1.779042	1.829946	1.866545	1.793347	2.337273	1.322620	46,724.85	(15,871.85)	797.41	0.00
03/11/2017	1.897937	1.798863	1.849767	1.886762	1.812772	2.362049	1.337485	14.53	(53,323.49)	0.00	(467.20)
04/11/2017	1.867406	1.729265	1.807985	1.844145	1.771825	2.309821	1.306149	10,393.15	(25,599.66)	312.41	(14,665.65)
05/11/2017	1.893880	1.783434	1.834338	1.871025	1.797651	2.342763	1.325914	15,490.11	(28,075.91)	618.18	(29,826.15)
06/11/2017	2.001924	1.890986	1.941889	1.980727	1.903051	2.477201	1.406577	14,084.74	(37,828.34)	93.22	(47,308.80)
07/11/2017	2.025029	1.882427	1.933330	1.971997	1.894663	2.466503	1.400158	64,900.31	(5,063.13)	20,515.19	0.00
08/11/2017	2.076470	1.960809	2.011713	2.051947	1.971479	2.564481	1.458945	16,503.09	(52,088.59)	317.69	(374.69)
09/11/2017	2.107120	2.001465	2.052369	2.093416	2.011322	2.615301	1.489437	20,417.15	(16,039.37)	0.00	(322.09)
10/11/2017	2.069375	1.957656	2.008560	2.048731	1.968389	2.560540	1.456580	30,514.32	(15,720.44)	653.58	(37.27)
11/11/2017	2.097669	2.001127	2.052031	2.093072	2.010990	2.614879	1.489183	11,140.10	(22,765.99)	900.05	(1,483.76)
12/11/2017	2.099916	2.003379	2.054283	2.095369	2.013197	2.617694	1.490872	29,280.32	(14,619.49)	1,641.01	(2,520.87)
13/11/2017	2.184842	2.068473	2.119377	2.161765	2.076989	2.699061	1.539693	19,084.58	(20,577.47)	3,163.22	0.00
14/11/2017	2.044095	1.960472	2.011375	2.051603	1.971148	2.564059	1.458691	21,426.99	(18,086.94)	938.37	(1,272.37)
15/11/2017	2.026576	1.941664	1.992568	2.032419	1.952717	2.540550	1.444586	3,378.98	(65,110.89)	843.79	(522.16)
16/11/2017	2.019443	1.926461	1.977364	2.016911	1.937817	2.521545	1.433183	35,854.10	(9,689.03)	2,437.98	0.00
17/11/2017	2.059637	1.971508	2.022412	2.062860	1.981964	2.577855	1.466969	8,060.38	(37,789.26)	589.28	(181.45)
18/11/2017	2.016634	1.918127	1.969031	2.008412	1.929650	2.511129	1.426933	5,599.70	(46,198.94)	6,765.38	(313.98)
19/11/2017	2.070266	1.971846	2.022750	2.063205	1.982295	2.578278	1.467222	10,801.64	(78,148.93)	886.10	(1,412.60)
20/11/2017	2.125584	2.027255	2.078158	2.119721	2.036595	2.647538	1.508779	19,087.99	(23,336.10)	10,110.50	(790.88)
21/11/2017	2.056658	1.947971	1.998875	2.038853	1.958898	2.548434	1.449316	250.31	(74,694.70)	6.83	(5,398.31)
22/11/2017	2.105057	2.003605	2.054508	2.095598	2.013418	2.617975	1.491041	15,981.98	(18,139.31)	1,949.90	0.00
23/11/2017	2.165267	2.068586	2.119490	2.161880	2.077100	2.699202	1.539777	32,183.35	(13,617.95)	2,126.81	0.00
24/11/2017	2.190412	2.096628	2.147532	2.190483	2.104581	2.734255	1.560809	28,088.50	(12,129.65)	1,002.96	0.00
25/11/2017	2.161340	2.073654	2.124557	2.167048	2.082066	2.705536	1.543578	20,235.62	(10,318.35)	2,774.80	0.00
26/11/2017	2.172865	2.085253	2.136157	2.178880	2.093434	2.720036	1.552278	5,023.26	(64,625.99)	1,292.37	(643.12)
27/11/2017	2.204753	2.103160	2.154064	2.197145	2.110983	2.742420	1.565708	34,226.76	(30,993.26)	63,259.10	(43,177.75)
28/11/2017	2.229324	2.140099	2.191003	2.234823	2.147183	2.788594	1.593412	29,713.36	(65,141.82)	1,279.52	0.00
29/11/2017	2.240603	2.126134	2.177038	2.220579	2.133497	2.771138	1.582939	28,328.55	(14,195.52)	1,421.05	(978.87)
30/11/2017	2.365636	2.216567	2.267471	2.312820	2.222122	2.884179	1.650763	83,044.25	(291.85)	79,972.92	0.00

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

	Total LDM Sector kWh	ROI LDM (less PTL(NI) and IOM) kWh	Power Gen (sub-sector of ROI LDM Sector) kWh	DM Sector kWh	NDM Sector kWh
01/11/2017	186,959,822	134,574,055	118,552,221	9,086,216	31,348,583
02/11/2017	199,522,398	141,117,262	124,945,833	8,893,583	33,987,869
03/11/2017	182,759,015	128,362,518	112,244,444	8,770,105	35,739,424
04/11/2017	154,127,522	101,125,192	85,642,222	7,813,231	38,233,455
05/11/2017	159,179,125	104,424,980	89,928,055	7,349,684	40,847,329
06/11/2017	140,541,945	92,550,339	76,653,056	9,163,938	42,796,680
07/11/2017	192,960,482	127,308,483	109,184,167	9,997,247	45,978,745
08/11/2017	180,507,441	118,684,612	101,006,665	9,675,313	49,094,862
09/11/2017	158,471,721	104,222,481	87,712,499	9,023,833	41,027,040
10/11/2017	164,368,848	110,134,371	93,196,249	9,197,657	42,499,716
11/11/2017	168,815,486	112,958,827	96,198,055	7,694,919	38,613,876
12/11/2017	158,808,079	108,258,212	91,736,112	7,785,482	44,184,351
13/11/2017	176,850,294	118,304,659	101,016,945	10,202,002	54,482,389
14/11/2017	199,378,247	141,709,282	124,434,165	9,206,195	42,405,375
15/11/2017	189,130,217	126,704,678	109,853,890	9,216,324	43,048,631
16/11/2017	191,305,653	134,983,888	117,433,889	10,155,430	46,345,186
17/11/2017	191,102,777	133,841,193	116,538,055	9,878,656	54,431,137
18/11/2017	192,481,012	133,953,931	117,548,054	7,643,229	45,505,840
19/11/2017	161,956,285	103,861,919	87,599,446	6,920,795	44,112,529
20/11/2017	161,351,530	107,724,947	91,764,722	8,490,254	40,285,391
21/11/2017	156,365,064	109,274,320	93,104,724	8,776,142	36,340,404
22/11/2017	171,328,919	118,216,030	102,611,110	9,763,111	42,340,972
23/11/2017	175,416,488	118,969,878	102,392,778	10,693,283	54,376,372
24/11/2017	186,890,877	127,097,040	110,575,834	11,090,791	63,661,772
25/11/2017	160,217,240	102,889,765	86,683,056	9,153,684	61,162,181
26/11/2017	139,696,781	91,910,641	76,189,166	7,603,501	55,198,627
27/11/2017	145,670,929	94,930,684	77,971,944	10,364,998	59,153,698
28/11/2017	147,668,169	98,267,708	80,946,111	11,325,722	62,982,975
29/11/2017	174,114,348	113,849,275	97,279,445	11,500,784	66,706,873
30/11/2017	180,945,606	119,573,936	104,333,334	11,627,049	67,357,822
Totals	5,148,892,320	3,479,785,106	2,985,276,246	278,063,158	1,424,250,104

Cleansed Totals	5,149,164,859			278,222,297	1,422,747,138
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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	139,696,781	6,920,795	31,348,583
Month Max	199,522,398	11,627,049	67,357,822
Month Average	171,629,744	9,268,772	47,475,003
YTD Min	105,694,035	5,585,114	17,120,020
YTD Max	200,151,868	11,627,049	67,357,822
YTD Average	161,966,867	8,476,356	37,167,221
YTD Rolling Total	9,879,978,870	517,057,699	2,267,200,488

Cleansed monthly Totals Analysis

	LDM Sector kWh	DM Sector kWh	NDM Sector kWh
YTD Min	4,730,609,642	238,842,745	842,724,754
YTD Max	5,149,164,859	278,222,297	1,422,747,138
YTD Average	4,939,887,251	258,532,521	1,132,735,946
YTD Rolling Total	9,879,774,501	517,065,042	2,265,471,892

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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)
01/11/2017	37.68	38.49	37.42	37.72	37.20	38.78	39.61	37.81	37.97
02/11/2017	37.66	38.63	37.66	37.70	37.20	38.95	39.39	37.76	38.30
03/11/2017	37.67	38.99	37.75	37.74	37.20	38.88	39.18	37.52	38.44
04/11/2017	37.66	38.07	37.73	37.82	37.20	38.41		37.73	38.37
05/11/2017	37.68	37.65	37.61	37.73	37.20	38.53	39.42	37.59	37.88
06/11/2017	37.66	38.34	37.64	37.77	37.20	38.50	39.67	37.63	38.24
07/11/2017	37.68	38.45	37.82	37.83	37.20	38.80	39.60	37.78	37.87
08/11/2017	37.67	38.72	37.45	37.65	37.20	39.15	39.42	37.69	38.28
09/11/2017	37.65	38.29	37.72	37.93	37.20	38.86	39.49	37.64	38.82
10/11/2017	37.68	37.65	37.69	37.58	37.20	38.50	39.65	37.66	38.26
11/11/2017	37.66	37.65	37.56	37.65	37.20	38.57	39.72	37.77	37.77
12/11/2017	37.67	37.64	37.75	37.84	37.20	38.67	39.67	37.55	38.18
13/11/2017	37.67	37.78	37.67	37.80	37.20	39.23	39.60	37.69	38.12
14/11/2017	37.66	38.89	37.80	37.98	37.20	39.49	39.60	37.68	39.06
15/11/2017	37.66	39.50	37.69	37.40		39.28	39.47	37.52	39.53
16/11/2017	37.67	39.55	37.55	37.64	37.20	38.67	39.60	37.79	38.64
17/11/2017	37.67	38.80	37.59	37.97	37.20	39.00	39.62	37.60	38.28
18/11/2017	37.66	38.85	37.73	37.88	37.20	38.85	39.61	37.69	38.88
19/11/2017	37.68	38.93	37.76	37.75	37.20	38.79	39.71	37.81	38.63
20/11/2017	37.66	37.71	37.50	37.97	36.68	38.50	39.82	37.74	38.41
21/11/2017	37.66	37.65	37.70	37.73	36.54	38.67	39.55	37.62	37.67
22/11/2017	37.68	37.63	37.63	37.73	36.54	38.67	39.50	37.58	37.73
23/11/2017	37.67	37.65	37.72	37.71	36.54	38.72	39.39	37.79	38.04
24/11/2017	37.67	38.74	37.59	37.70	36.54	39.18	39.43	37.58	38.26
25/11/2017	37.67	37.76	37.69	37.75	36.54	38.77	39.66	37.60	38.77
26/11/2017	37.67	37.64	37.74	37.82	36.54	38.63	39.81	37.68	38.48
27/11/2017	37.67	37.66	37.59	37.79	36.54	38.49	39.83	37.66	38.08
28/11/2017	37.66	38.37	37.70	37.47	36.54	38.98	39.90	37.75	38.06
29/11/2017	37.68	39.29	37.71	37.68	36.54	39.01	40.01	37.68	38.25
30/11/2017	37.66	38.08	37.54	37.86		39.17	40.01	37.71	38.84

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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Transportation Network Monthly Report

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7. Monthly Shrinkage Total for Transportation

Total Transportation Shrinkage : **48,000,000 kWh**

Transmission Shrinkage % of Entry Throughput was 1.53% for the 12 month period Dec-16 to Nov-17

