



Gas Transportation Management System

Transportation Network Monthly Report

Parameters Entered	
Gas Month	April
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
01/04/2016	133,900,468	11,625,928.1	48,278,702	4,191,805.3	4,647,575	403,526.0	21,569,888.0
02/04/2016	129,530,344	11,292,477.2	47,389,180	4,131,396.7	4,317,579	376,407.6	0.0
03/04/2016	104,133,113	9,087,631.8	53,493,739	4,668,365.6	4,222,476	368,493.2	33,431,422.0
04/04/2016	94,750,980	8,205,882.4	58,168,917	5,037,703.1	4,480,908	388,067.8	71,737,222.0
05/04/2016	74,752,807	6,464,099.8	48,272,787	4,174,292.7	4,338,280	375,144.4	82,071,646.0
06/04/2016	56,518,702	4,886,103.2	49,518,564	4,280,933.7	4,560,716	394,279.3	79,697,084.0
07/04/2016	66,140,271	5,702,003.0	50,741,644	4,374,476.0	4,500,703	388,009.0	82,109,124.0
08/04/2016	66,920,412	5,783,876.5	50,422,638	4,357,987.8	4,320,519	373,418.8	82,614,525.0
09/04/2016	68,340,290	5,914,087.2	55,521,343	4,804,750.8	3,519,350	304,560.5	83,049,035.0
10/04/2016	50,497,488	4,355,628.2	39,067,733	3,369,762.3	4,098,270	353,493.7	82,923,890.0
11/04/2016	69,864,464	6,026,114.4	51,184,110	4,414,852.3	4,441,486	383,097.6	82,850,302.0
12/04/2016	76,741,658	6,634,399.7	60,413,983	5,222,854.7	4,655,286	402,454.2	83,069,609.0
13/04/2016	82,752,607	7,161,312.6	61,294,718	5,304,372.0	4,424,706	382,909.1	82,844,041.0
14/04/2016	87,211,882	7,562,560.6	46,617,457	4,042,422.7	4,207,187	364,825.1	82,935,085.0
15/04/2016	81,420,804	7,067,574.2	45,581,284	3,956,594.8	4,431,677	384,683.0	82,843,996.0
16/04/2016	83,961,326	7,316,023.5	45,950,479	4,003,923.7	4,269,551	372,029.7	71,368,102.0
17/04/2016	73,040,103	6,364,395.3	49,213,152	4,288,218.8	4,188,687	364,984.2	82,399,115.0
18/04/2016	87,016,531	7,580,304.4	49,883,673	4,345,535.4	4,378,437	381,420.4	82,788,484.0
19/04/2016	120,111,230	10,394,283.2	54,181,092	4,688,767.4	4,130,267	357,428.1	31,383,408.0
20/04/2016	69,735,363	6,024,117.8	50,334,208	4,348,141.3	3,659,625	316,138.3	82,813,527.0
21/04/2016	78,403,582	6,772,925.5	47,450,557	4,099,036.2	3,648,192	315,150.9	77,639,819.0
22/04/2016	71,495,920	6,176,204.7	48,059,306	4,151,623.2	4,173,325	360,514.4	82,557,558.0
23/04/2016	62,415,185	5,390,397.0	43,464,445	3,753,744.0	4,040,649	348,965.1	67,446,759.0
24/04/2016	64,122,349	5,547,664.5	44,646,429	3,862,668.7	3,889,077	336,471.0	82,692,346.0
25/04/2016	65,337,292	5,651,344.3	43,634,244	3,774,141.1	4,261,939	368,636.3	82,941,108.0
26/04/2016	73,784,436	6,383,598.4	42,968,006	3,717,457.5	3,693,999	319,593.3	82,288,574.0
27/04/2016	87,074,676	7,512,470.5	52,701,015	4,546,841.6	4,454,479	384,315.3	82,860,522.0
28/04/2016	73,184,360	6,314,066.3	50,817,445	4,384,334.8	4,617,329	398,365.4	82,316,867.0
29/04/2016	83,423,756	7,204,771.5	55,747,940	4,814,589.8	4,606,308	397,816.7	69,239,153.0
30/04/2016	70,260,384	6,080,249.8	49,155,381	4,253,848.4	2,887,740	249,902.0	82,282,325.0
Totals	2,406,842,783	208,482,495.6	1,494,174,171	129,365,442.3	126,066,322	10,915,100.2	2,176,764,536.0

	Moffat	
	kWh	M3
Month Min	50,497,488	4,355,628.2
Month Max	133,900,468	11,625,928.1
Month Average	80,228,093	6,949,416.5
YTD Min	42,157,679	3,614,351.1
YTD Max	167,675,316	14,386,340.0
YTD Average	102,679,969	8,846,352.0

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.

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
01/04/2016	0	0.0	10,000,000	868,285.9
02/04/2016	0	0.0	10,000,000	871,792.0
03/04/2016	0	0.0	10,000,000	872,739.6
04/04/2016	0	0.0	0	0.0
05/04/2016	0	0.0	0	0.0
06/04/2016	0	0.0	0	0.0
07/04/2016	0	0.0	10,000,000	862,126.5
08/04/2016	0	0.0	10,000,000	864,306.0
09/04/2016	0	0.0	5,000,000	432,674.2
10/04/2016	0	0.0	0	0.0
11/04/2016	0	0.0	7,500,000	646,926.5
12/04/2016	0	0.0	10,000,000	864,495.5
13/04/2016	0	0.0	0	0.0
14/04/2016	0	0.0	0	0.0
15/04/2016	0	0.0	0	0.0
16/04/2016	0	0.0	0	0.0
17/04/2016	0	0.0	0	0.0
18/04/2016	0	0.0	0	0.0
19/04/2016	0	0.0	0	0.0
20/04/2016	0	0.0	0	0.0
21/04/2016	0	0.0	0	0.0
22/04/2016	0	0.0	0	0.0
23/04/2016	0	0.0	0	0.0
24/04/2016	0	0.0	0	0.0
25/04/2016	0	0.0	0	0.0
26/04/2016	0	0.0	0	0.0
27/04/2016	0	0.0	0	0.0
28/04/2016	0	0.0	0	0.0
29/04/2016	0	0.0	5,000,000	431,821.3
30/04/2016	0	0.0	5,000,000	432,674.2
Totals	0	0.0	82,500,000	7,147,841.7

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

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

Balancing Transportation Cost €/kWh	0.058475
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
01/04/2016	1.305169	1.220371	1.268206	1.293570	1.242842	1.390091	1.146321
02/04/2016	1.274925	1.187429	1.235264	1.259969	1.210559	1.355502	1.115026
03/04/2016	1.229401	1.141613	1.189448	1.213237	1.165659	1.307395	1.071501
04/04/2016	1.221876	1.134040	1.181875	1.205513	1.158238	1.299444	1.064306
05/04/2016	1.200100	1.118516	1.166351	1.189678	1.143024	1.283144	1.049558
06/04/2016	1.179091	1.106904	1.154739	1.177834	1.131644	1.270951	1.038527
07/04/2016	1.209370	1.136564	1.184400	1.208088	1.160712	1.302095	1.066705
08/04/2016	1.222966	1.150448	1.198283	1.222249	1.174317	1.316672	1.079894
09/04/2016	1.188109	1.104884	1.152720	1.175774	1.129666	1.268831	1.036609
10/04/2016	1.164876	1.081408	1.129244	1.151829	1.106659	1.244181	1.014307
11/04/2016	1.221209	1.138331	1.186167	1.209890	1.162444	1.303950	1.068384
12/04/2016	1.233843	1.147671	1.195507	1.219417	1.171597	1.313757	1.077257
13/04/2016	1.296291	1.203206	1.251041	1.276062	1.226020	1.372068	1.130014
14/04/2016	1.272247	1.181875	1.229711	1.254305	1.205117	1.349672	1.109750
15/04/2016	1.300283	1.210274	1.258109	1.283271	1.232947	1.379489	1.136729
16/04/2016	1.298070	1.211410	1.259245	1.284430	1.234060	1.380682	1.137808
17/04/2016	1.226122	1.138962	1.186798	1.210534	1.163062	1.304613	1.068983
18/04/2016	1.315117	1.228575	1.276410	1.301938	1.250882	1.398706	1.154115
19/04/2016	1.265970	1.166225	1.214060	1.238341	1.189779	1.333238	1.094882
20/04/2016	1.260430	1.162691	1.210526	1.234737	1.186315	1.329527	1.091525
21/04/2016	1.378013	1.273002	1.320838	1.347255	1.294421	1.445355	1.196321
22/04/2016	1.469331	1.357062	1.404897	1.432995	1.376799	1.533617	1.276177
23/04/2016	1.400696	1.276915	1.324751	1.351246	1.298256	1.459171	1.200038
24/04/2016	1.403014	1.279187	1.327022	1.353562	1.300482	1.461489	1.202196
25/04/2016	1.442942	1.318314	1.366149	1.393472	1.338826	1.501417	1.239367
26/04/2016	1.709279	1.575918	1.623753	1.656228	1.591278	1.767754	1.484090
27/04/2016	1.525524	1.396062	1.443897	1.472775	1.415019	1.583999	1.313227
28/04/2016	1.482438	1.360722	1.408557	1.436728	1.380386	1.540913	1.279654
29/04/2016	1.417878	1.300644	1.348479	1.375449	1.321509	1.476353	1.222580
30/04/2016	1.473392	1.359460	1.407295	1.435441	1.379149	1.536135	1.278455

	Total First Tier Cost €		Total Second Tier Cost €	
	Buy	Sell	Buy	Sell
01/04/2016	13,468.57	(14,836.34)	7,597.47	(54.03)
02/04/2016	9,515.97	(5,657.92)	1,241.72	(596.98)
03/04/2016	7,390.15	(9,117.65)	230.85	(1,161.70)
04/04/2016	10,770.70	(67,075.11)	412.17	(24,889.71)
05/04/2016	11,315.30	(22,299.90)	1,882.39	(52,904.61)
06/04/2016	16,500.63	(17,809.30)	6,464.95	(13,063.53)
07/04/2016	24,607.45	(22,904.38)	8,993.17	(705.73)
08/04/2016	31,761.48	(3,928.10)	4,678.36	0.00
09/04/2016	11,329.47	(22,867.56)	1,296.90	(541.71)
10/04/2016	5,902.24	(19,996.65)	848.84	(55,272.14)
11/04/2016	17,895.88	(19,778.60)	5,624.74	(2,199.16)
12/04/2016	11,174.72	(32,873.93)	0.00	(36,833.25)
13/04/2016	13,051.68	(6,933.19)	990.03	(553.01)
14/04/2016	18,783.62	(19,797.46)	0.00	(14,604.00)
15/04/2016	12,106.95	(14,196.12)	1,531.61	0.00
16/04/2016	12,880.15	(18,300.78)	9,896.71	(481.43)
17/04/2016	0.00	(25,162.59)	0.00	(1,104.50)
18/04/2016	4,227.73	(31,427.21)	0.00	(4,255.61)
19/04/2016	75,400.96	(9,231.47)	19,286.65	(196.93)
20/04/2016	4,258.97	(16,611.83)	0.00	(13,211.78)
21/04/2016	10,999.96	(20,365.91)	0.00	(1,812.88)
22/04/2016	7,970.79	(3,136.40)	1,826.86	(41,799.77)
23/04/2016	35,565.29	(10,806.34)	3,590.06	(29,400.51)
24/04/2016	2,881.49	(31,593.02)	3,054.13	(2,348.60)
25/04/2016	22,741.79	(3,371.37)	856.47	0.00
26/04/2016	28,820.75	(2,790.61)	6,330.20	0.00
27/04/2016	27,529.16	(15,718.15)	4,253.96	0.00
28/04/2016	25,575.11	(9,033.10)	6,068.85	0.00
29/04/2016	20,566.30	(18,140.94)	3,962.24	0.00
30/04/2016	817.63	(56,467.37)	0.00	(7,232.32)

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
01/04/2016	148,615,450	9,364,396	46,835,901
02/04/2016	151,310,696	7,512,159	42,087,923
03/04/2016	160,371,506	6,952,651	40,547,394
04/04/2016	176,004,341	9,465,911	41,385,658
05/04/2016	152,835,236	9,541,814	39,611,389
06/04/2016	135,452,410	10,147,735	46,580,244
07/04/2016	151,094,618	10,032,005	44,224,958
08/04/2016	163,447,721	9,722,350	47,519,343
09/04/2016	165,943,447	8,180,957	43,708,718
10/04/2016	120,102,066	7,684,172	45,561,377
11/04/2016	159,634,750	9,969,284	49,672,978
12/04/2016	186,529,763	9,519,195	37,346,711
13/04/2016	187,197,414	9,330,898	38,060,700
14/04/2016	179,052,286	9,179,237	37,888,603
15/04/2016	163,481,471	9,376,054	43,420,707
16/04/2016	158,531,588	7,847,721	41,698,622
17/04/2016	157,555,891	6,985,459	38,519,321
18/04/2016	169,041,023	9,041,266	40,336,394
19/04/2016	179,583,310	9,143,972	34,241,346
20/04/2016	165,481,801	8,869,978	30,768,381
21/04/2016	171,951,850	8,748,658	31,280,981
22/04/2016	172,534,783	8,647,149	31,878,513
23/04/2016	154,488,198	7,273,278	30,025,058
24/04/2016	149,348,244	7,050,505	31,688,212
25/04/2016	141,811,479	9,808,549	37,432,522
26/04/2016	148,654,303	10,618,285	42,587,259
27/04/2016	172,889,691	10,261,858	43,468,034
28/04/2016	153,287,726	10,196,182	48,299,170
29/04/2016	165,137,115	9,584,129	45,224,559
30/04/2016	153,021,419	7,275,934	35,644,781
Totals	4,814,391,596	267,331,741	1,207,545,757

Cleansed Totals	4,814,768,059	267,699,903	1,193,845,747
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Physical Daily Totals Analysis

	LDM Sector kWh	DM Sector kWh	NDM Sector kWh
Month Min	120,102,066	6,952,651	30,025,058
Month Max	187,197,414	10,618,285	49,672,978
Month Average	160,479,720	8,911,058	40,251,525
YTD Min	95,646,619	5,270,693	19,515,192
YTD Max	200,629,057	11,405,851	71,453,307
YTD Average	147,573,761	8,708,857	43,209,197
YTD Rolling Total	31,433,211,080	1,854,986,536	9,203,559,035

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	4,826,378,072	288,055,274	1,724,663,102
YTD Average	4,490,304,644	265,628,240	1,325,568,164
YTD Rolling Total	31,432,132,507	1,859,397,679	9,278,977,149

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)
01/04/2016	11.03	11.03	11.00	11.14	11.04	11.47	11.54	11.00	11.43
02/04/2016	11.03	11.27	11.05	11.06	11.04	11.54	11.54	11.39	11.21
03/04/2016	11.04	11.53	11.04	11.09	11.35	11.50	11.49	11.58	11.34
04/04/2016	11.03	11.27	11.36	11.10	11.04	11.47	11.47	11.52	11.27
05/04/2016	11.03	11.19	11.05	11.34	11.04	11.46	11.45	11.22	11.43
06/04/2016	11.03	11.03	10.98	11.11	11.04	11.45	11.52	11.00	11.35
07/04/2016	11.04	11.03	11.08	11.09	11.04	11.21	11.43	11.04	11.35
08/04/2016	11.03	11.03	11.03	11.05	11.04	11.33	11.54	10.98	11.02
09/04/2016	11.04	11.02	11.04	11.09	11.04	11.36	11.55	11.01	11.13
10/04/2016	11.03	11.13	10.99	11.09	11.04	11.31	11.57	11.01	11.20
11/04/2016	11.04	11.35	11.04	11.08	11.04	11.34	11.58	10.95	11.16
12/04/2016	11.03	11.58	11.04	11.14	11.04	11.42	11.57	11.03	11.07
13/04/2016	11.04	11.43	11.03	11.18	11.04	11.49	11.60	11.00	11.14
14/04/2016	11.04	11.50	11.09	11.19	11.04	11.46	11.57	11.03	11.18
15/04/2016	11.03	11.48	11.02	11.20	11.04	11.44	11.55	10.95	11.15
16/04/2016	11.03	11.04	11.01	11.18	11.04	11.42	11.54	10.99	11.33
17/04/2016	11.04	11.02	11.00	11.05	11.04	11.37	11.53	11.05	11.22
18/04/2016	11.03	11.03	11.08	11.06	11.04	11.35	11.48	10.97	11.33
19/04/2016	11.03	11.14	11.05	11.05	11.04	11.42	11.47	11.00	11.28
20/04/2016	11.04	11.04	10.98	11.13	11.04	11.46	11.50	11.02	11.26
21/04/2016	11.03	11.03	11.09	11.09	11.04	11.50	11.54	11.04	11.31
22/04/2016	11.04	11.03	10.98	11.09	11.04	11.46	11.57	10.99	11.41
23/04/2016	11.03	11.03	11.07	11.12	11.04	11.35	11.57	10.95	11.34
24/04/2016	11.03	11.03	10.98	11.17	11.04	11.40	11.58	10.98	11.30
25/04/2016	11.03	11.02	11.11	11.06	11.04	11.35	11.57	11.02	11.23
26/04/2016	11.04	11.03	11.01	11.07	11.04	11.37	11.57	11.02	11.24
27/04/2016	11.03	11.02	11.02	11.19	11.04	11.37	11.55	10.98	11.24
28/04/2016	11.04	11.02	11.02	11.21	11.04	11.34	11.56	11.03	11.27
29/04/2016	11.03	11.02	11.05	11.22	11.04	11.35	11.57	10.97	11.25
30/04/2016	11.03	11.03	11.05	11.18	11.04	11.41	11.59	11.08	11.23

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 : **86,873,000 kWh**

Transmission Shrinkage % of Entry Throughput was 1.64% for the 12 month period May-15 to Apr-16