

METER ERROR REPORT**FINAL**

Reconcile?	Y
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Safety Issue?	N
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Thesis Report No.	
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1. EXECUTIVE SUMMARY

SITE NAME	Maelor	
LDZ	WN (WWU)	
START DATE (actual)	15 th March 2021	
LAST GOOD DATE		
END DATE	27 th April 2023	
SIZE OF ERROR (No reconciliation required if under 0.1%)	0.128% over registration (8.31 GWh)	
ESTIMATE – Y/N?	N	
ROOT CAUSE	Incorrect K Factors used in the Omni flow computer	
ANALYSIS	Application of Meter Calibration Curve	
METER TYPE	USM	
AUTHOR	J Hill	
CHECKED BY	C Litster	
ACCEPTED BY NETWORK		
RECONCILIATION	Distribution	Transportation

2. BACKGROUND

Maelor Offtake has duty/standby ultrasonic meter streams, using a gas chromatograph for RD and CV determination and PTZ correction. Following the identification of the same issue during a metering audit at another site and subsequent checks of all WWU sites, it was identified that the k-factors had been entered in reverse order to the frequencies entered in the Omni. It has been found the error occurred during the reinstatement of meters 20041020 and 20041021 after their removal and re-calibration, and that the k-factors and associated frequencies from the calibration certificates were entered into the Omni flow computer in the reverse order. The error was corrected in the flow computer shortly after discovery of the issue on 27th April 2023.

3. ERROR QUANTIFICATION AND IMPACT

Using the meter calibration curve, the k-factors for the incorrect frequencies used were calculated. The applied and corrected k-factors were then used to determine the applied and corrected volume and hence percentage volume error for each incorrect frequency used.

The volumetric error was calculated as the difference between the recorded and corrected volumes.

The overall error is an over-registration of 0.128% (8.31 GWh)

It is recommended that the error be reconciled using the daily correction factors table in Appendix A.

4. CAUSES

Human error in reading and entering values from the calibration certificate to the Omni flow computer.

5. RECOMMENDATIONS AND LEARNING

Peer review of k-factor and frequency entries for existing and new USM/turbine installations.

REFERENCES

HPMIS Database

Meter 20041020 calibration certificate

Meter 20041021 calibration certificate

VERSION HISTORY

<i>Version</i>	<i>Changes</i>	<i>Author</i>	<i>Date</i>
<i>0</i>	<i>First Issue</i>	<i>J Hill</i>	<i>26/06/2023</i>
<i>1</i>	<i>Second Issue</i>	<i>J Hill</i>	<i>22/11/2023</i>

DISTRIBUTION

Wales & West Utilities

APPENDIX A – Daily Corrected Flows

APPENDIX A – Daily Corrected Flows

Gas Date	Daily Correction Factor
16/03/2021	0.993320
17/03/2021	0.986604
18/03/2021	0.999191
19/03/2021	0.975479
20/03/2021	0.978435
21/03/2021	0.977720
22/03/2021	0.974967
23/03/2021	0.985691
24/03/2021	0.976452
25/03/2021	0.975025
26/03/2021	0.988832
27/03/2021	0.986852
28/03/2021	0.974447
29/03/2021	0.960893
30/03/2021	0.950720
31/03/2021	0.954811

Gas Date	Daily Correction Factor
01/04/2021	0.993191
02/04/2021	0.981021
03/04/2021	0.985904
04/04/2021	0.970888
05/04/2021	0.999963
06/04/2021	1.005705
07/04/2021	1.004534
08/04/2021	0.986231
09/04/2021	1.007988
10/04/2021	1.002127
11/04/2021	0.991873
12/04/2021	0.989438
13/04/2021	0.984088
14/04/2021	0.982150
15/04/2021	0.973869
16/04/2021	0.971028
17/04/2021	0.965809
18/04/2021	0.970804
19/04/2021	0.960146
20/04/2021	0.967308
21/04/2021	0.979398
22/04/2021	0.967836
23/04/2021	0.960995
24/04/2021	0.964618
25/04/2021	0.971019
26/04/2021	0.960564
27/04/2021	0.986159
28/04/2021	0.996330
29/04/2021	0.989505
30/04/2021	0.989300

Gas Date	Daily Correction Factor
01/05/2021	0.984748
02/05/2021	0.992331
03/05/2021	1.004572
04/05/2021	1.000210
05/05/2021	0.998979
06/05/2021	0.988880
07/05/2021	0.987424
08/05/2021	0.982108
09/05/2021	0.968721
10/05/2021	0.974271
11/05/2021	0.982711
12/05/2021	0.969972
13/05/2021	0.981806
14/05/2021	0.973214
15/05/2021	0.987506
16/05/2021	0.976913
17/05/2021	0.969643
18/05/2021	0.977741
19/05/2021	0.969592
20/05/2021	0.989808
21/05/2021	0.975454
22/05/2021	0.964550
23/05/2021	0.980555
24/05/2021	0.969099
25/05/2021	0.944848
26/05/2021	0.912230
27/05/2021	0.940735
28/05/2021	0.941951
29/05/2021	0.951793
30/05/2021	0.941394
31/05/2021	0.951024

Gas Date	Daily Correction Factor
01/06/2021	0.934774
02/06/2021	0.938789
03/06/2021	0.949945
04/06/2021	0.947377
05/06/2021	0.945607
06/06/2021	0.941932
07/06/2021	0.945476
08/06/2021	0.938422
09/06/2021	0.945205
10/06/2021	0.943348
11/06/2021	0.948387
12/06/2021	0.944266
13/06/2021	0.927396
14/06/2021	0.960664
15/06/2021	0.944501
16/06/2021	0.946857
17/06/2021	0.955169
18/06/2021	0.965642
19/06/2021	0.961660
20/06/2021	0.974711
21/06/2021	0.969229
22/06/2021	0.961452
23/06/2021	0.975098
24/06/2021	0.959136
25/06/2021	0.986423
26/06/2021	0.959788
27/06/2021	0.957729
28/06/2021	0.970133
29/06/2021	0.947405
30/06/2021	0.951907

Gas Date	Daily Correction Factor
01/07/2021	0.968507
02/07/2021	0.957372
03/07/2021	0.973889
04/07/2021	0.971216
05/07/2021	0.972642
06/07/2021	0.983182
07/07/2021	0.978387
08/07/2021	0.971602
09/07/2021	0.965743
10/07/2021	0.962744
11/07/2021	0.969114
12/07/2021	0.976205
13/07/2021	0.962137
14/07/2021	0.959489
15/07/2021	0.964958
16/07/2021	0.950102
17/07/2021	0.936693
18/07/2021	0.934000
19/07/2021	0.933825
20/07/2021	0.936272
21/07/2021	0.922543
22/07/2021	0.924323
23/07/2021	0.951188
24/07/2021	0.957837
25/07/2021	0.955370
26/07/2021	0.961475
27/07/2021	0.980228
28/07/2021	0.992108
29/07/2021	0.975268
30/07/2021	0.998621
31/07/2021	0.990936

Gas Date	Daily Correction Factor
01/08/2021	0.978044
02/08/2021	0.986034
03/08/2021	0.971822
04/08/2021	0.966657
05/08/2021	0.991491
06/08/2021	0.987093
07/08/2021	0.997659
08/08/2021	0.987714
09/08/2021	0.979287
10/08/2021	0.976186
11/08/2021	0.988034
12/08/2021	0.979234
13/08/2021	0.978882
14/08/2021	0.984388
15/08/2021	0.986212
16/08/2021	0.991117
17/08/2021	0.989312
18/08/2021	0.987454
19/08/2021	0.986551
20/08/2021	0.975369
21/08/2021	0.987295
22/08/2021	0.975774
23/08/2021	0.970790
24/08/2021	0.982060
25/08/2021	0.977883
26/08/2021	0.967663
27/08/2021	0.986530
28/08/2021	0.975417
29/08/2021	0.975883
30/08/2021	0.988530
31/08/2021	0.994239

Gas Date	Daily Correction Factor
01/09/2021	0.996688
02/09/2021	0.985045
03/09/2021	0.990787
04/09/2021	0.983671
05/09/2021	0.964633
06/09/2021	0.957206
07/09/2021	0.952881
08/09/2021	0.953503
09/09/2021	0.977289
10/09/2021	0.980353
11/09/2021	0.980747
12/09/2021	1.003904
13/09/2021	0.999399
14/09/2021	0.999495
15/09/2021	0.982617
16/09/2021	0.985727
17/09/2021	0.982606
18/09/2021	0.972461
19/09/2021	0.998432
20/09/2021	0.989255
21/09/2021	0.989260
22/09/2021	0.992883
23/09/2021	0.985123
24/09/2021	0.976237
25/09/2021	0.975635
26/09/2021	0.982311
27/09/2021	1.001843
28/09/2021	1.021538
29/09/2021	1.014283
30/09/2021	1.008317

Gas Date	Daily Correction Factor
01/10/2021	1.006239
02/10/2021	1.025853
03/10/2021	1.013931
04/10/2021	1.015463
05/10/2021	1.015718
06/10/2021	0.998256
07/10/2021	0.986255
08/10/2021	0.985147
09/10/2021	1.000012
10/10/2021	0.997768
11/10/2021	1.000338
12/10/2021	1.002971
13/10/2021	1.007867
14/10/2021	1.011199
15/10/2021	0.999080
16/10/2021	1.008477
17/10/2021	0.998342
18/10/2021	1.003313
19/10/2021	0.991511
20/10/2021	1.018049
21/10/2021	1.016871
22/10/2021	1.011292
23/10/2021	1.016420
24/10/2021	1.012129
25/10/2021	1.013404
26/10/2021	1.000206
27/10/2021	0.988801
28/10/2021	1.003318
29/10/2021	1.009127
30/10/2021	1.017982
31/10/2021	1.023160

Gas Date	Daily Correction Factor
01/11/2021	1.026719
02/11/2021	1.023108
03/11/2021	1.019875
04/11/2021	1.027235
05/11/2021	1.016850
06/11/2021	1.010282
07/11/2021	1.021695
08/11/2021	1.010807
09/11/2021	0.995402
10/11/2021	1.010663
11/11/2021	1.014052
12/11/2021	1.004252
13/11/2021	1.010890
14/11/2021	1.011652
15/11/2021	1.013119
16/11/2021	1.014820
17/11/2021	1.011261
18/11/2021	0.998915
19/11/2021	0.995417
20/11/2021	1.009235
21/11/2021	1.029651
22/11/2021	1.027227
23/11/2021	1.022987
24/11/2021	1.024988
25/11/2021	1.029132
26/11/2021	1.032673
27/11/2021	1.041074
28/11/2021	1.044607
29/11/2021	1.031187
30/11/2021	1.004969

Gas Date	Daily Correction Factor
01/12/2021	1.035439
02/12/2021	1.035649
03/12/2021	1.024542
04/12/2021	1.028729
05/12/2021	1.034046
06/12/2021	1.034339
07/12/2021	1.030958
08/12/2021	1.028630
09/12/2021	1.022873
10/12/2021	1.026613
11/12/2021	1.014073
12/12/2021	0.995726
13/12/2021	1.017458
14/12/2021	1.010858
15/12/2021	1.005215
16/12/2021	1.015027
17/12/2021	1.017309
18/12/2021	1.026296
19/12/2021	1.033551
20/12/2021	1.026344
21/12/2021	1.033121
22/12/2021	1.034760
23/12/2021	1.021475
24/12/2021	1.022327
25/12/2021	1.029330
26/12/2021	1.023218
27/12/2021	1.015126
28/12/2021	1.014078
29/12/2021	0.995719
30/12/2021	0.982496
31/12/2021	0.980731

Gas Date	Daily Correction Factor
01/01/2022	0.988663
02/01/2022	1.005143
03/01/2022	1.012484
04/01/2022	1.041044
05/01/2022	1.031177
06/01/2022	1.032899
07/01/2022	1.037047
08/01/2022	1.026136
09/01/2022	1.019102
10/01/2022	1.010701
11/01/2022	1.022019
12/01/2022	1.024705
13/01/2022	1.026246
14/01/2022	1.033228
15/01/2022	1.032027
16/01/2022	1.026140
17/01/2022	1.019428
18/01/2022	1.023640
19/01/2022	1.016561
20/01/2022	1.036467
21/01/2022	1.017627
22/01/2022	1.009845
23/01/2022	1.025907
24/01/2022	1.036839
25/01/2022	1.025057
26/01/2022	1.002371
27/01/2022	0.995934
28/01/2022	1.001783
29/01/2022	0.996294
30/01/2022	1.007646
31/01/2022	1.011016

Gas Date	Daily Correction Factor
01/02/2022	0.979904
02/02/2022	0.987842
03/02/2022	0.991890
04/02/2022	1.015186
05/02/2022	1.007372
06/02/2022	1.013391
07/02/2022	0.995442
08/02/2022	0.986764
09/02/2022	0.999700
10/02/2022	1.012234
11/02/2022	1.017641
12/02/2022	1.008958
13/02/2022	1.006028
14/02/2022	1.021169
15/02/2022	1.006028
16/02/2022	0.987842
17/02/2022	1.009138
18/02/2022	1.021792
19/02/2022	1.018773
20/02/2022	1.007616
21/02/2022	0.998462
22/02/2022	0.996441
23/02/2022	1.001275
24/02/2022	1.014483
25/02/2022	0.998866
26/02/2022	1.008754
27/02/2022	1.003508
28/02/2022	1.009342

Gas Date	Daily Correction Factor
01/03/2022	0.998742
02/03/2022	1.011555
03/03/2022	1.012762
04/03/2022	1.002981
05/03/2022	1.002003
06/03/2022	1.004660
07/03/2022	1.013758
08/03/2022	1.005893
09/03/2022	0.989207
10/03/2022	0.987937
11/03/2022	0.998342
12/03/2022	0.990556
13/03/2022	1.001821
14/03/2022	1.001341
15/03/2022	0.991481
16/03/2022	1.013650
17/03/2022	0.992017
18/03/2022	0.980432
19/03/2022	0.984099
20/03/2022	0.995898
21/03/2022	1.008477
22/03/2022	0.974690
23/03/2022	0.976240
24/03/2022	0.972632
25/03/2022	0.938532
26/03/2022	0.900355
27/03/2022	0.913191
28/03/2022	0.916985
29/03/2022	0.988451
30/03/2022	1.023689
31/03/2022	1.018962

Gas Date	Daily Correction Factor
01/04/2022	1.006165
02/04/2022	1.002701
03/04/2022	1.001205
04/04/2022	0.968264
05/04/2022	0.972080
06/04/2022	0.989164
07/04/2022	1.012476
08/04/2022	0.996969
09/04/2022	1.005684
10/04/2022	0.991519
11/04/2022	0.963361
12/04/2022	0.989971
13/04/2022	0.980495
14/04/2022	0.972538
15/04/2022	0.973984
16/04/2022	0.964472
17/04/2022	0.968033
18/04/2022	0.981945
19/04/2022	0.977955
20/04/2022	0.963895
21/04/2022	0.969285
22/04/2022	0.968241
23/04/2022	0.987242
24/04/2022	0.974489
25/04/2022	0.971974
26/04/2022	0.972518
27/04/2022	0.981904
28/04/2022	0.996345
29/04/2022	0.972479
30/04/2022	0.977282

Gas Date	Daily Correction Factor
01/05/2022	0.994818
02/05/2022	0.944256
03/05/2022	0.949419
04/05/2022	0.978821
05/05/2022	0.949469
06/05/2022	0.971419
07/05/2022	0.950863
08/05/2022	0.971676
09/05/2022	0.972927
10/05/2022	0.964740
11/05/2022	0.981690
12/05/2022	0.976495
13/05/2022	0.970057
14/05/2022	0.951274
15/05/2022	0.962081
16/05/2022	0.963176
17/05/2022	0.964565
18/05/2022	0.964530
19/05/2022	0.956986
20/05/2022	0.979403
21/05/2022	0.968127
22/05/2022	0.965197
23/05/2022	0.986388
24/05/2022	0.975548
25/05/2022	0.971801
26/05/2022	0.978648
27/05/2022	0.973789
28/05/2022	0.971593
29/05/2022	0.987627
30/05/2022	0.986535
31/05/2022	0.980288

Gas Date	Daily Correction Factor
01/06/2022	0.974497
02/06/2022	0.961604
03/06/2022	0.966366
04/06/2022	0.970951
05/06/2022	1.003756
06/06/2022	0.981650
07/06/2022	0.951340
08/06/2022	0.963827
09/06/2022	0.975906
10/06/2022	0.962532
11/06/2022	0.966913
12/06/2022	0.969268
13/06/2022	0.971032
14/06/2022	0.960235
15/06/2022	0.960889
16/06/2022	0.942445
17/06/2022	0.936217
18/06/2022	0.990158
19/06/2022	0.983854
20/06/2022	0.952787
21/06/2022	0.950236
22/06/2022	0.940268
23/06/2022	0.949270
24/06/2022	0.969701
25/06/2022	0.980251
26/06/2022	0.975150
27/06/2022	0.973556
28/06/2022	0.986790
29/06/2022	0.972134
30/06/2022	0.973407

Gas Date	Daily Correction Factor
01/07/2022	0.980694
02/07/2022	0.971458
03/07/2022	0.982721
04/07/2022	0.969586
05/07/2022	0.963489
06/07/2022	0.967720
07/07/2022	0.969463
08/07/2022	0.949344
09/07/2022	0.953408
10/07/2022	0.940818
11/07/2022	0.930370
12/07/2022	0.958206
13/07/2022	0.956899
14/07/2022	0.971029
15/07/2022	0.976619
16/07/2022	0.953185
17/07/2022	0.936741
18/07/2022	0.918946
19/07/2022	0.922210
20/07/2022	0.970222
21/07/2022	0.969301
22/07/2022	0.992891
23/07/2022	0.984177
24/07/2022	0.978589
25/07/2022	0.988200
26/07/2022	0.983511
27/07/2022	0.974509
28/07/2022	0.986126
29/07/2022	0.969144
30/07/2022	0.980809
31/07/2022	0.973850

Gas Date	Daily Correction Factor
01/08/2022	0.969551
02/08/2022	0.962220
03/08/2022	0.960939
04/08/2022	0.976479
05/08/2022	0.986090
06/08/2022	0.977017
07/08/2022	0.964162
08/08/2022	0.962401
09/08/2022	0.955617
10/08/2022	0.953102
11/08/2022	0.951674
12/08/2022	0.946000
13/08/2022	0.932984
14/08/2022	0.936142
15/08/2022	0.982019
16/08/2022	0.981400
17/08/2022	0.985732
18/08/2022	0.980851
19/08/2022	0.979769
20/08/2022	0.976138
21/08/2022	0.978954
22/08/2022	0.978645
23/08/2022	0.969560
24/08/2022	0.974016
25/08/2022	0.980928
26/08/2022	0.975627
27/08/2022	0.972661
28/08/2022	0.965786
29/08/2022	0.979172
30/08/2022	0.969898
31/08/2022	0.979286

Gas Date	Daily Correction Factor
01/09/2022	0.970476
02/09/2022	0.969569
03/09/2022	0.980819
04/09/2022	0.981071
05/09/2022	0.982638
06/09/2022	0.989468
07/09/2022	0.992685
08/09/2022	0.990355
09/09/2022	0.980682
10/09/2022	0.980302
11/09/2022	0.992403
12/09/2022	0.996559
13/09/2022	0.993561
14/09/2022	0.998731
15/09/2022	1.003922
16/09/2022	1.002858
17/09/2022	0.998821
18/09/2022	0.999085
19/09/2022	1.005450
20/09/2022	0.982344
21/09/2022	0.999884
22/09/2022	1.008184
23/09/2022	0.994688
24/09/2022	1.001963
25/09/2022	1.007766
26/09/2022	1.015608
27/09/2022	1.024343
28/09/2022	1.014597
29/09/2022	1.006832
30/09/2022	1.017294

Gas Date	Daily Correction Factor
01/10/2022	0.998000
02/10/2022	0.999596
03/10/2022	1.000133
04/10/2022	0.992976
05/10/2022	1.009282
06/10/2022	0.996761
07/10/2022	1.008988
08/10/2022	1.001800
09/10/2022	1.009589
10/10/2022	1.002083
11/10/2022	1.011953
12/10/2022	1.008568
13/10/2022	0.996100
14/10/2022	1.001973
15/10/2022	1.011546
16/10/2022	1.007526
17/10/2022	0.998120
18/10/2022	1.009921
19/10/2022	1.002542
20/10/2022	1.008865
21/10/2022	0.999046
22/10/2022	0.994151
23/10/2022	0.997429
24/10/2022	1.001340
25/10/2022	0.996103
26/10/2022	0.991619
27/10/2022	0.988516
28/10/2022	0.988755
29/10/2022	0.999471
30/10/2022	1.001292
31/10/2022	1.003261

Gas Date	Daily Correction Factor
01/11/2022	1.017115
02/11/2022	1.017699
03/11/2022	1.013045
04/11/2022	1.018122
05/11/2022	1.022887
06/11/2022	1.025431
07/11/2022	1.007005
08/11/2022	1.018350
09/11/2022	1.006382
10/11/2022	0.991858
11/11/2022	0.995727
12/11/2022	1.007297
13/11/2022	1.001395
14/11/2022	1.012450
15/11/2022	1.023000
16/11/2022	1.025107
17/11/2022	1.019812
18/11/2022	1.018658
19/11/2022	1.029522
20/11/2022	1.037353
21/11/2022	1.032901
22/11/2022	1.026908
23/11/2022	1.024659
24/11/2022	1.024395
25/11/2022	1.011253
26/11/2022	1.008275
27/11/2022	1.021559
28/11/2022	1.025555
29/11/2022	1.026178
30/11/2022	1.033687

Gas Date	Daily Correction Factor
01/12/2022	1.029421
02/12/2022	1.037034
03/12/2022	1.025089
04/12/2022	1.029374
05/12/2022	1.038976
06/12/2022	1.031334
07/12/2022	1.035375
08/12/2022	1.040012
09/12/2022	1.035288
10/12/2022	1.035443
11/12/2022	1.044002
12/12/2022	1.045287
13/12/2022	1.046908
14/12/2022	1.049679
15/12/2022	1.045128
16/12/2022	1.039046
17/12/2022	1.034878
18/12/2022	1.025962
19/12/2022	0.986185
20/12/2022	1.013664
21/12/2022	1.018068
22/12/2022	1.017173
23/12/2022	1.016716
24/12/2022	1.013020
25/12/2022	1.012000
26/12/2022	1.019839
27/12/2022	1.012979
28/12/2022	1.003886
29/12/2022	1.012685
30/12/2022	1.003430
31/12/2022	1.004936

Gas Date	Daily Correction Factor
01/01/2023	1.017021
02/01/2023	1.022827
03/01/2023	1.000179
04/01/2023	0.987533
05/01/2023	0.997247
06/01/2023	0.997249
07/01/2023	1.000886
08/01/2023	1.021908
09/01/2023	1.011053
10/01/2023	1.002854
11/01/2023	1.006821
12/01/2023	0.996081
13/01/2023	1.006607
14/01/2023	1.017996
15/01/2023	1.019962
16/01/2023	1.033803
17/01/2023	1.030432
18/01/2023	1.032550
19/01/2023	1.026706
20/01/2023	1.023709
21/01/2023	1.043796
22/01/2023	1.029995
23/01/2023	1.025896
24/01/2023	1.019590
25/01/2023	1.009904
26/01/2023	1.012564
27/01/2023	1.013564
28/01/2023	1.008974
29/01/2023	1.001845
30/01/2023	1.000791
31/01/2023	1.002187

Gas Date	Daily Correction Factor
01/02/2023	0.997108
02/02/2023	0.989139
03/02/2023	0.984481
04/02/2023	1.003884
05/02/2023	1.023845
06/02/2023	1.019596
07/02/2023	1.007740
08/02/2023	1.011910
09/02/2023	1.003415
10/02/2023	0.996439
11/02/2023	0.994731
12/02/2023	1.008687
13/02/2023	1.001616
14/02/2023	1.008798
15/02/2023	1.001966
16/02/2023	0.980723
17/02/2023	0.969994
18/02/2023	0.977288
19/02/2023	0.988088
20/02/2023	0.976580
21/02/2023	0.990440
22/02/2023	1.009564
23/02/2023	1.001820
24/02/2023	1.000554
25/02/2023	1.015915
26/02/2023	1.009079
27/02/2023	1.010229
28/02/2023	1.008165

Gas Date	Daily Correction Factor
01/03/2023	1.009787
02/03/2023	1.009153
03/03/2023	1.015153
04/03/2023	1.015661
05/03/2023	1.013688
06/03/2023	1.014059
07/03/2023	1.011058
08/03/2023	1.026323
09/03/2023	1.034277
10/03/2023	1.014086
11/03/2023	1.020858
12/03/2023	0.982098
13/03/2023	0.997657
14/03/2023	1.014130
15/03/2023	1.014680
16/03/2023	0.988870
17/03/2023	0.974605
18/03/2023	0.986720
19/03/2023	0.994146
20/03/2023	0.976238
21/03/2023	0.980229
22/03/2023	0.983553
23/03/2023	0.990391
24/03/2023	0.989423
25/03/2023	0.986386
26/03/2023	1.006924
27/03/2023	0.991835
28/03/2023	1.004502
29/03/2023	0.983366
30/03/2023	0.978656
31/03/2023	0.989377

Gas Date	Daily Correction Factor
01/04/2023	0.989488
02/04/2023	0.989503
03/04/2023	0.996406
04/04/2023	0.988323
05/04/2023	0.996674
06/04/2023	0.989435
07/04/2023	0.975244
08/04/2023	0.975865
09/04/2023	0.984573
10/04/2023	0.991412
11/04/2023	1.006865
12/04/2023	1.012417
13/04/2023	0.995578
14/04/2023	1.018752
15/04/2023	0.979511
16/04/2023	0.989391
17/04/2023	0.979684
18/04/2023	0.975611
19/04/2023	0.990694
20/04/2023	0.971500
21/04/2023	0.998438
22/04/2023	0.976892
23/04/2023	0.995926
24/04/2023	1.005150
25/04/2023	0.984397
26/04/2023	0.978764
27/04/2023	1.009610

