



REGULATORY DISCLOSURE

Gas transmission services: Peak flow disclosure

Year ended 30 September 2018



Introduction

First Gas operates 2,500 kilometres of gas transmission pipelines (including the Maui pipeline), and more than 4,700 kilometres of gas distribution pipelines across the North Island. These gas infrastructure assets transport gas from Taranaki to major industrial gas users, electricity generators, businesses and homes, and transport around 20 percent of New Zealand's primary energy supply.

For further information on First Gas, please visit our website www.firstgas.co.nz.

Compliance statement

This document is a regulatory disclosure prepared pursuant to section 2.5.2 of the *Gas Transmission Information Disclosure Amendments Determination (No1) 2017* issued by the Commerce Commission. The regulatory disclosure covers First Gas' gas transmission business (both the Maui and Non-Maui transmission systems) for the 12-month period ending 30 September 2018.

This regulatory disclosure was prepared on 29 November 2018.

Further information

For further information regarding this regulatory disclosure, please contact:

Karen Collins
Regulatory Manager
First Gas Limited
Karen.Collins@firstgas.co.nz
04 979 5368

Disclaimer

For presentation purposes, some numbers in the regulatory disclosure have been rounded. This may cause small discrepancies or rounding inconsistencies when aggregating some of the information presented in the document. These discrepancies do not affect the overall calculations which are based on the more detailed information.

Table of Contents

Introduction	2
Table of Contents	3
1. Peak flow information	4
1.1 North System	4
1.2 Central North System	5
1.3 Central South System	6
1.4 Bay of Plenty System	7
1.5 South System	8
1.6 Frankley Road System	9
1.7 Maui System	10
2. Peak hourly information	11
2.1 North System	11
2.2 Central North System	27
2.3 Central South System	35
2.4 Bay of Plenty System	37
2.5 South System	50
2.6 Frankley Road System	64
2.7 Maui System	67

1. Peak flow information

1.1 North System

INTAKE POINTS	OFFTAKE POINTS >2000 GIGAJOULES DURING PEAK FLOW PERIOD	SYSTEM PEAK FLOW		OFFTAKE PEAK FLOW	
		Period Ending	Throughput (GJ)	Period Ending	Throughput (GJ)
Rotowaro		29-Jun-18	540,376		
	Harrisville 2	29-Jun-18	10,300	29-Jun-18	10,300
	Drury	29-Jun-18	6,215	01-Jun-18	6,425
	Hunua	29-Jun-18	6,860	22-Jun-18	7,309
	Flat Bush	29-Jun-18	7,859	03-Aug-18	7,997
	Bruce McLaren	29-Jun-18	7,948	29-Jun-18	7,948
	Marsden Point	29-Jun-18	74,880	20-Jul-18	81,299
	Waitoki	29-Jun-18	4,001	13-Jul-18	4,184
	Glenbrook	29-Jun-18	31,505	17-Nov-17	33,514
	Westfield	29-Jun-18	136,963	06-Jul-18	144,807
	Warkworth	29-Jun-18	3,771	01-Jun-18	5,623
	Tuakau	29-Jun-18	8,670	01-Jun-18	10,507
	Papakura	29-Jun-18	53,008	03-Aug-18	64,838
	Henderson	29-Jun-18	25,586	29-Jun-18	25,586
	Whangarei	29-Jun-18	2,811	29-Jun-18	2,811
	Maungaturoto	29-Jun-18	4,491	10-Aug-18	10,195
	Waikumete	29-Jun-18	32,171	29-Jun-18	32,171

Note:

1. The North System peak flow period was identified as the period ending 29 July 2018.
2. Consistent with the Asset Management Plan, the duration of the peak flow period is 5 days (Monday to Friday inclusive). This is for both the System Peak Flow period and the Offtake Peak Flow period.
3. Offtake points that had a total throughput of 2,000 Gigajoules or more during the North System's Peak Flow period have been reported.

1.2 Central North System

INTAKE POINTS	OFFTAKE POINTS >2000 GIGAJOULES DURING PEAK FLOW PERIOD	SYSTEM PEAK FLOW		OFFTAKE PEAK FLOW	
		Period Ending	Throughput (GJ)	Period Ending	Throughput (GJ)
Rotowaro		24-Aug-18			
	Hamilton Temple View	24-Aug-18	21,301	01-Jun-18	24,790
	Tatuanui DF	24-Aug-18	5,988	08-Jun-18	7,088
	Waitoa	24-Aug-18	6,475	01-Jun-18	6,904
	Cambridge	24-Aug-18	7,532	28-Sep-18	9,436
	Kiwitahi (Degussa)	24-Aug-18	4,081	17-Nov-17	4,890
	Hamilton Te Kowhai	24-Aug-18	13,128	29-Jun-18	14,371
	Te Rapa Cogen	24-Aug-18	70,807	14-Sep-18	72,264
	Morrinsville DF	24-Aug-18	4,057	17-Aug-18	4,908

Note:

1. The Central North System peak flow period was identified as the period ending 24 August 2018.
2. Consistent with the Asset Management Plan, the duration of the peak flow period is 5 days (Monday to Friday inclusive). This is for both the System Peak Flow period and the Offtake Peak Flow period.
3. Offtake points that had a total throughput of 2,000 Gigajoules or more during the Central North System's Peak Flow period have been reported.
4. The throughput for Te Rapa Cogen was included when calculating the timing of the System Peak Flow period.

1.3 Central South System

INTAKE POINTS	OFFTAKE POINTS >2000 GIGAJOULES DURING PEAK FLOW PERIOD	SYSTEM PEAK FLOW		OFFTAKE PEAK FLOW	
		Period Ending	Throughput (GJ)	Period Ending	Throughput (GJ)
Kapuni		24-Aug-18	137,988		
	New Plymouth	24-Aug-18	15,510	29-Jun-18	17,982
	Pokuru Offtake	24-Aug-18	62,032	15-Dec-17	67,432

Note:

1. The Central South System Peak flow period was identified as the period ending 24 August 2018.
2. Consistent with the Asset Management Plan, the duration of the peak flow period is 5 days (Monday to Friday inclusive). This is for both the System Peak Flow period and the Offtake Peak Flow period.
3. Offtake points that had a total throughput of 2,000 Gigajoules or more during the Central South System's Peak Flow period have been reported.
4. The throughput for Pokuru Offtake was included when calculating the timing of the System Peak Flow period.

1.4 Bay of Plenty System

INTAKE POINTS	OFFTAKE POINTS >2000 GIGAJOULES DURING PEAK FLOW PERIOD	SYSTEM PEAK FLOW		OFFTAKE PEAK FLOW	
		Period Ending	Throughput (GJ)	Period Ending	Throughput (GJ)
Pokuru		20-Oct-17	54,272		
Pokuru 2		20-Oct-17	146,264		
	Lichfield DF	20-Oct-17	8,042	14-Sep-18	10,109
	Lichfield 2	20-Oct-17	17,334	13-Oct-17	18,891
	Edgecumbe DF	20-Oct-17	22,347	06-Oct-17	22,490
	Reporoa	20-Oct-17	9,460	07-Sep-18	11,044
	Whakatane	20-Oct-17	15,883	17-Nov-17	16,891
	Tirau DF	20-Oct-17	5,202	13-Jul-18	8,004
	Pyes Pa	20-Oct-17	2,089	29-Jun-18	2,456
	Kinleith (CHH Mill) 2	20-Oct-17	78,665	20-Oct-17	78,665
	Kawerau (Tasman)	20-Oct-17	7,969	03-Aug-18	9,578
	Kawerau (Caxton)	20-Oct-17	2,574	20-Apr-18	3,490
	Gisborne	20-Oct-17	4,467	23-Mar-18	12,206
	Mt Maunganui	20-Oct-17	8,684	17-Aug-18	10,510
	Rotorua	20-Oct-17	4,963	29-Jun-18	8,989

Note:

1. The Bay of Plenty System Peak flow period was identified as the period ending 20 October 2017.
2. Consistent with the Asset Management Plan, the duration of the peak flow period is 5 days (Monday to Friday inclusive). This is for both the System Peak Flow period and the Offtake Peak Flow period.
3. Offtake points that had a total throughput of 2,000 Gigajoules or more during the Bay of Plenty System's Peak Flow period have been reported.
4. The throughput for Tauranga, has been excluded in 2018 as its System Peak flow was less than 2,000 Gigajoules during the peak flow period.

1.5 South System

INTAKE POINTS	OFFTAKE POINTS >2000 GIGAJOULES DURING PEAK FLOW PERIOD	SYSTEM PEAK FLOW		OFFTAKE PEAK FLOW	
		Period Ending	Throughput (GJ)	Period Ending	Throughput (GJ)
Kapuni		07-Sep-18			
Rimu Production Station		07-Sep-18	1,323		
	Paraparaumu	07-Sep-18	3,265	06-Jul-18	3,678
	Hawera	07-Sep-18	7,525	07-Sep-18	7,525
	Wanganui	07-Sep-18	19,472	07-Sep-18	19,472
	Okaiawa (Taranaki By-Products)	07-Sep-18	4,829	25-May-18	7,516
	Marton	07-Sep-18	2,625	13-Apr-18	3,525
	Palmerston North	07-Sep-18	19,588	29-Jun-18	22,386
	Longburn	07-Sep-18	3,838	14-Sep-18	3,899
	Levin	07-Sep-18	4,432	03-Aug-18	5,149
	Belmont	07-Sep-18	32,105	29-Jun-18	33,489
	Feilding	07-Sep-18	3,788	29-Jun-18	4,801
	Hastings	07-Sep-18	34,503	29-Jun-18	42,026
	Wellington (Tawa)	07-Sep-18	58,261	07-Sep-18	58,261
	Waitangirua (Hutt Valley)	07-Sep-18	4,419	01-Jun-18	7,009
	Pahiatua DF	07-Sep-18	15,142	14-Sep-18	16,884

Note:

1. The South System Peak flow period was identified as the period ending 7 September 2018.
2. Consistent with the Asset Management Plan, the duration of the peak flow period is 5 days (Monday to Friday inclusive). This is for both the System Peak Flow period and the Offtake Peak Flow period.
3. Offtake points that had a total throughput of ,2000 Gigajoules or more during the South System's Peak Flow period have been reported.
4. Pauatahanui 1 has been excluded in 2018 as its System Peak flow was less than 2,000 Gigajoules during the South System peak flow period.

1.6 Frankley Road System

INTAKE POINTS	OFFTAKE POINTS >2000 GIGAJOULES DURING PEAK FLOW PERIOD	SYSTEM PEAK FLOW		OFFTAKE PEAK FLOW	
		Period Ending	Throughput (GJ)	Period Ending	Throughput (GJ)
Kupe Production Station		11-May-18	357,162		
Sidewinder		11-May-18	2,509		
Cheal Mixing Station		11-May-18	1,244		
Kaimiro		11-May-18	22,289		
KGTP		11-May-18	44,058		
Frankley Road		11-May-18	212,384		
Stratford 3		11-May-18	4		
	Taranaki Combined Cycle	11-May-18	184,448	03-Aug-18	210,208
	Stratford 3	11-May-18	129,420	11-May-18	129,420
	AUP	11-May-18	103,052	13-Oct-17	105,936

Note:

1. The Frankley Road System Peak flow period was identified as the period ending 11 May 2018.
2. Consistent with the Asset Management Plan, the duration of the peak flow period is 5 days (Monday to Friday inclusive). This is for both the System Peak Flow period and the Offtake Peak Flow period.
3. Offtake points that had a total throughput of 2,000 Gigajoules or more during the Frankley Road System's Peak Flow period have been reported.
4. The throughput for Taranaki Combined Cycle, Stratford 2 and Stratford 3 were included when calculating the timing of the System Peak Flow period.
5. Stratford 2 has been excluded in 2017 as its System Peak flow was less than 2,000 Gigajoules during the South System peak flow period.
6. Due to low customer nominations, the throughput for Frankley Road DP was not included in 2018. The throughput for Frankley Road DP was less than 2,000 Gigajoules during the System Peak Flow Period.

1.7 Maui System

INTAKE POINTS	OFFTAKE POINTS >2000 GIGAJOULES DURING PEAK FLOW PERIOD	SYSTEM PEAK FLOW		OFFTAKE PEAK FLOW	
		Period Ending	Throughput (GJ)	Period Ending	Throughput (GJ)
Oaonui		26-Jan-18	531,184		
Tikorangi 1		26-Jan-18	10,445		
Tikorangi 2		26-Jan-18	274,648		
Tikorangi 3		26-Jan-18	-		
Kowhai		26-Jan-18	80,827		
Ngatimaru Road		26-Jan-18	902,841		
Turangi		26-Jan-18	158,008		
Frankley Road		26-Jan-18	23		
	Pirongia	26-Jan-18	6,515	07-Sep-18	11,116
	Ngatimaru Road	26-Jan-18	706,540	20-Oct-17	710,623
	Rotowaro	26-Jan-18	408,984	29-Jun-18	540,376
	Huntly Power Station	26-Jan-18	477,556	22-Dec-17	581,044
	Pokuru	26-Jan-18	113,082	24-Nov-17	148,168
	Bertrand Road	26-Jan-18	492,392	02-Feb-18	522,928
	Frankley Road	26-Jan-18	161,576	11-May-18	265,144

Note:

1. The Maui System Peak flow period was identified as the period ending 26 January 2018.
2. Consistent with the Asset Management Plan, the duration of the peak flow period is 5 days (Monday to Friday inclusive). This is for both the System Peak Flow period and the Offtake Peak Flow period.
3. Offtake points that had a total throughput of 2,000 Gigajoules or more during the Maui System's Peak Flow period have been reported.
4. Te Kuiti South has been excluded in 2018 as its System Peak flow was less than 2,000 Gigajoules during the South System peak flow period.

2. Peak hourly information

The throughput of gas (in Gigajoules/hour) during each system's Peak 5-day flow period is shown in the following tables. This is reported for all offtake points that had a total throughput of 2,000 Gigajoules or more during their sub-system peak flow period.

2.1 North System

Harrisville 2

Hour	25-Jun-18	26-Jun-18	27-Jun-18	28-Jun-18	29-Jun-18
0	47	79	120	61	31
1	50	79	127	99	36
2	54	101	138	111	61
3	66	106	135	77	53
4	76	127	132	69	80
5	89	119	134	73	92
6	84	121	137	101	101
7	85	104	129	101	88
8	93	108	108	86	94
9	93	111	109	95	93
10	81	106	103	95	96
11	85	111	101	87	97
12	94	124	90	92	105
13	102	114	83	83	106
14	78	120	67	93	94
15	99	130	58	80	67
16	123	134	53	83	75
17	101	133	74	72	88
18	57	100	54	38	47
19	74	95	50	40	43
20	67	116	43	31	43
21	58	120	44	34	55
22	63	113	41	28	73
23	72	115	40	32	75

Drury

Hour	25-Jun-18	26-Jun-18	27-Jun-18	28-Jun-18	29-Jun-18
0	36	55	84	79	40
1	41	56	82	82	44
2	44	62	83	85	57
3	45	56	82	66	53
4	42	55	82	74	49
5	40	57	82	55	59
6	33	61	85	76	58
7	42	48	72	62	48
8	40	54	60	42	47
9	36	48	31	29	30
10	29	38	29	30	25
11	28	42	36	36	35
12	34	46	35	35	35
13	40	47	35	36	35
14	34	41	36	37	35
15	39	51	36	35	34
16	50	61	43	42	42
17	37	68	36	24	30
18	71	76	37	25	38
19	70	81	41	34	41
20	72	81	55	24	69
21	61	88	83	32	86
22	55	85	81	43	87
23	62	86	78	44	80

Hunua

Hour	25-Jun-18	26-Jun-18	27-Jun-18	28-Jun-18	29-Jun-18
0	18	57	65	54	56
1	21	55	62	52	54
2	18	62	59	55	56
3	18	59	63	56	57
4	20	57	64	58	60
5	27	63	71	58	64
6	41	68	72	58	64
7	65	66	70	67	62
8	64	67	68	64	57
9	66	61	68	62	55
10	63	59	68	61	57
11	64	64	70	63	57
12	66	62	66	61	65
13	63	58	71	63	62
14	59	63	67	59	63
15	61	62	63	59	56
16	60	60	62	64	62
17	65	58	63	61	62
18	64	57	55	56	59
19	63	58	57	59	26
20	58	58	56	57	24
21	56	63	63	59	20
22	59	58	56	62	13
23	57	57	57	63	11

Flat Bush

Hour	25-Jun-18	26-Jun-18	27-Jun-18	28-Jun-18	29-Jun-18
0	30	52	64	68	56
1	28	45	62	62	52
2	29	46	60	61	53
3	29	44	59	57	52
4	43	41	53	53	47
5	39	55	57	57	57
6	47	61	74	69	77
7	56	71	82	82	84
8	67	72	78	82	85
9	67	68	82	78	74
10	69	75	82	80	70
11	68	77	82	78	78
12	75	76	80	81	83
13	74	77	77	82	74
14	74	75	80	77	82
15	73	80	83	75	77
16	69	71	82	79	73
17	69	70	81	67	70
18	67	70	73	67	59
19	59	75	70	65	56
20	55	78	72	62	63
21	55	71	69	61	47
22	55	62	71	58	35
23	52	66	70	55	36

Bruce McLaren

Hour	25-Jun-18	26-Jun-18	27-Jun-18	28-Jun-18	29-Jun-18
0	28	42	49	46	41
1	31	42	45	43	40
2	31	40	46	39	40
3	30	38	43	39	36
4	31	41	46	45	40
5	40	48	53	52	53
6	58	64	76	71	71
7	71	80	92	85	87
8	75	85	95	88	88
9	76	85	93	86	89
10	74	83	85	81	87
11	71	82	81	80	83
12	69	84	80	77	81
13	76	86	80	75	79
14	76	81	77	74	75
15	72	74	72	71	64
16	73	80	68	71	67
17	77	83	76	75	75
18	80	82	80	76	79
19	75	78	81	75	77
20	69	73	74	72	75
21	62	66	68	67	66
22	55	61	62	58	61
23	43	53	53	45	57

Marsden Point

Hour	25-Jun-18	26-Jun-18	27-Jun-18	28-Jun-18	29-Jun-18
0	661	604	672	589	561
1	649	623	652	626	696
2	662	646	664	630	718
3	663	626	654	631	736
4	660	595	665	632	741
5	641	621	645	639	734
6	630	614	663	636	722
7	626	600	665	636	732
8	625	585	663	640	736
9	621	588	664	637	730
10	595	574	656	634	742
11	656	593	642	634	711
12	653	616	646	612	646
13	659	545	671	634	637
14	669	488	654	638	650
15	704	384	636	601	656
16	708	542	635	614	668
17	673	596	653	644	577
18	611	667	664	635	313
19	585	663	606	642	295
20	674	662	589	617	296
21	586	665	571	620	299
22	653	672	585	596	333
23	687	668	585	631	510

Waitoki

Hour	25-Jun-18	26-Jun-18	27-Jun-18	28-Jun-18	29-Jun-18
0	9	9	26	25	12
1	3	8	15	22	9
2	4	6	9	11	8
3	3	6	8	8	6
4	4	5	8	7	6
5	6	9	12	11	10
6	31	32	38	34	31
7	44	50	68	67	48
8	46	52	71	65	51
9	36	48	45	50	51
10	30	39	34	36	48
11	27	31	30	28	33
12	27	34	27	27	26
13	27	35	30	26	23
14	29	33	29	27	26
15	28	38	25	27	20
16	30	48	25	27	23
17	49	55	39	42	39
18	65	68	59	58	53
19	63	67	60	61	56
20	55	66	58	62	51
21	41	61	58	58	43
22	27	45	44	44	31
23	15	33	31	25	21

Glenbrook

Hour	25-Jun-18	26-Jun-18	27-Jun-18	28-Jun-18	29-Jun-18
0	247	253	257	237	334
1	263	238	250	156	268
2	264	272	265	157	303
3	231	304	186	162	368
4	151	309	248	175	346
5	130	305	262	163	298
6	111	333	395	237	358
7	164	366	309	253	341
8	219	279	290	301	330
9	138	261	271	328	322
10	163	288	253	271	301
11	164	257	241	286	224
12	177	293	270	278	230
13	189	303	321	263	297
14	204	303	308	188	293
15	219	395	186	210	309
16	247	349	119	291	291
17	365	284	217	364	238
18	389	264	238	274	314
19	347	270	240	247	268
20	293	266	233	316	206
21	283	235	241	392	199
22	284	166	234	343	218
23	253	174	278	328	255

Westfield

Hour	25-Jun-18	26-Jun-18	27-Jun-18	28-Jun-18	29-Jun-18
0	566	700	767	683	649
1	540	631	748	636	600
2	540	637	726	621	586
3	555	652	732	630	581
4	596	762	818	651	612
5	763	918	947	789	779
6	1,110	1,241	1,270	1,187	1,125
7	1,383	1,555	1,631	1,595	1,462
8	1,334	1,559	1,626	1,556	1,503
9	1,274	1,417	1,413	1,332	1,400
10	1,266	1,414	1,361	1,222	1,290
11	1,203	1,342	1,416	1,215	1,307
12	1,198	1,421	1,369	1,272	1,251
13	1,228	1,420	1,292	1,290	1,193
14	1,206	1,348	1,222	1,209	1,129
15	1,177	1,384	1,169	1,155	1,093
16	1,215	1,474	1,188	1,228	1,170
17	1,428	1,608	1,342	1,341	1,266
18	1,593	1,699	1,493	1,423	1,355
19	1,529	1,677	1,520	1,392	1,341
20	1,398	1,612	1,416	1,340	1,248
21	1,217	1,387	1,279	1,209	1,116
22	996	1,136	1,034	965	920
23	807	945	790	752	670

Warkworth

Hour	25-Jun-18	26-Jun-18	27-Jun-18	28-Jun-18	29-Jun-18
0	17	4	0	37	45
1	13	15	0	39	48
2	17	14	4	39	48
3	23	19	16	47	51
4	31	12	20	39	62
5	32	29	21	53	63
6	30	46	35	53	63
7	23	47	28	49	60
8	53	54	36	59	61
9	48	48	44	57	24
10	64	50	50	52	31
11	59	51	43	51	35
12	64	52	50	44	34
13	70	45	49	58	34
14	67	37	36	38	33
15	34	22	27	30	11
16	5	5	21	18	16
17	12	2	26	31	36
18	15	3	23	25	5
19	14	3	21	32	4
20	2	2	17	32	8
21	1	3	21	33	30
22	2	1	21	38	43
23	1	1	25	29	39

Tuakau

Hour	25-Jun-18	26-Jun-18	27-Jun-18	28-Jun-18	29-Jun-18
0	19	72	87	71	72
1	19	67	87	64	75
2	21	62	82	59	73
3	19	60	71	66	74
4	35	57	77	59	61
5	43	63	86	70	62
6	44	69	73	82	70
7	49	74	71	89	67
8	42	74	89	110	67
9	62	79	84	110	64
10	61	59	93	117	67
11	51	45	99	116	55
12	68	47	103	112	71
13	81	45	109	107	64
14	78	48	115	114	65
15	78	49	103	109	67
16	76	55	105	94	86
17	88	73	91	69	81
18	92	77	74	69	64
19	83	73	72	67	60
20	95	70	69	67	44
21	93	68	69	77	52
22	96	67	71	70	53
23	79	81	70	70	57

Papakura

Hour	25-Jun-18	26-Jun-18	27-Jun-18	28-Jun-18	29-Jun-18
0	361	431	474	438	434
1	333	415	469	439	436
2	317	407	459	433	436
3	325	400	459	431	425
4	342	397	460	428	425
5	343	404	466	428	424
6	400	452	513	466	458
7	464	490	558	512	512
8	465	496	566	505	517
9	443	493	519	475	514
10	436	487	471	434	502
11	423	473	360	391	459
12	419	482	327	345	419
13	433	483	313	323	393
14	411	481	314	338	353
15	402	490	315	349	317
16	432	490	339	339	337
17	490	508	429	431	451
18	501	530	465	473	473
19	498	535	481	476	481
20	502	526	481	473	478
21	498	509	476	470	474
22	470	498	457	446	455
23	441	473	442	434	447

Henderson

Hour	25-Jun-18	26-Jun-18	27-Jun-18	28-Jun-18	29-Jun-18
0	72	125	157	114	47
1	36	100	123	79	18
2	42	84	111	69	13
3	57	99	104	105	22
4	77	116	127	112	45
5	105	131	167	151	79
6	175	223	262	232	187
7	259	328	380	359	303
8	290	357	419	368	320
9	253	300	333	286	250
10	225	263	257	238	222
11	219	248	245	204	209
12	210	257	226	200	171
13	214	283	202	186	156
14	207	266	176	189	129
15	181	261	156	167	85
16	212	309	161	170	120
17	310	349	245	248	213
18	364	390	319	310	273
19	359	396	342	320	274
20	331	385	340	325	266
21	298	340	331	303	270
22	219	282	235	189	212
23	150	200	165	90	146

Whangarei

Hour	25-Jun-18	26-Jun-18	27-Jun-18	28-Jun-18	29-Jun-18
0	9	11	13	11	12
1	9	11	13	11	13
2	9	11	11	10	11
3	10	12	13	13	13
4	13	13	14	14	15
5	16	16	17	18	17
6	25	27	30	29	28
7	30	35	37	37	38
8	33	35	39	38	37
9	32	32	39	37	35
10	31	33	35	31	30
11	31	35	33	31	33
12	28	35	30	31	30
13	30	36	29	30	28
14	29	30	27	26	24
15	22	29	24	23	20
16	22	29	23	23	21
17	24	30	26	25	25
18	28	28	29	28	29
19	27	28	27	26	26
20	24	24	24	24	24
21	18	20	19	20	20
22	14	14	14	15	16
23	12	12	11	13	13

Maungaturoto

Hour	25-Jun-18	26-Jun-18	27-Jun-18	28-Jun-18	29-Jun-18
0	39	32	38	39	32
1	36	39	42	35	40
2	43	38	41	31	42
3	40	40	39	34	40
4	41	43	42	36	33
5	40	41	40	42	34
6	37	33	38	40	29
7	36	31	40	39	28
8	32	32	30	35	27
9	34	29	31	35	32
10	30	28	41	46	39
11	31	28	39	53	37
12	38	33	36	45	39
13	41	40	38	63	40
14	39	44	32	84	41
15	35	41	34	73	39
16	28	40	36	61	38
17	27	34	39	41	44
18	25	32	40	41	39
19	26	29	39	40	30
20	28	34	39	34	31
21	27	38	39	31	42
22	27	32	43	32	42
23	28	35	40	33	39

Waikumete

Hour	25-Jun-18	26-Jun-18	27-Jun-18	28-Jun-18	29-Jun-18
0	166	182	196	190	177
1	151	173	189	182	170
2	150	169	186	177	165
3	154	170	186	178	166
4	163	179	200	187	173
5	188	201	228	212	196
6	260	285	315	297	271
7	321	358	401	379	346
8	313	350	397	366	342
9	298	323	347	323	317
10	285	313	317	295	304
11	279	306	294	280	291
12	275	313	278	269	267
13	276	319	263	262	251
14	264	306	249	259	234
15	256	308	244	249	222
16	275	329	261	261	245
17	330	362	315	310	298
18	354	383	352	341	324
19	346	373	354	334	317
20	325	355	336	322	303
21	290	321	310	292	280
22	237	262	250	234	238
23	198	217	209	193	203

2.2 Central North System

Hamilton Temple View

Hour	20-Aug-18	21-Aug-18	22-Aug-18	23-Aug-18	24-Aug-18
0	59	67	54	54	80
1	49	59	47	38	70
2	49	48	40	36	65
3	58	51	51	36	72
4	93	67	74	55	110
5	142	134	131	104	162
6	251	248	251	219	276
7	326	323	329	294	365
8	263	260	264	260	315
9	218	216	217	192	258
10	175	205	196	167	214
11	171	186	200	157	173
12	152	204	207	142	156
13	158	183	212	141	145
14	151	172	210	127	143
15	147	189	205	132	125
16	198	243	246	170	162
17	282	310	302	231	229
18	300	311	318	292	279
19	277	303	302	279	271
20	234	259	253	250	244
21	181	203	207	198	201
22	125	134	138	153	143
23	83	73	79	100	92

Tatuanui DF

Hour	20-Aug-18	21-Aug-18	22-Aug-18	23-Aug-18	24-Aug-18
0	60	49	57	44	60
1	62	42	50	47	59
2	62	41	54	41	56
3	59	58	54	23	54
4	53	52	42	19	56
5	46	52	43	18	55
6	49	57	52	21	52
7	50	53	51	29	46
8	52	54	35	42	46
9	61	61	27	57	47
10	62	54	28	58	57
11	55	60	38	58	55
12	54	59	33	61	55
13	58	59	34	65	51
14	48	62	45	65	56
15	44	49	46	61	44
16	43	48	39	67	42
17	53	44	35	65	39
18	55	44	34	59	54
19	49	60	36	62	63
20	46	58	34	49	63
21	40	57	28	52	59
22	36	59	38	57	57
23	48	58	43	66	63

Waitoa

Hour	20-Aug-18	21-Aug-18	22-Aug-18	23-Aug-18	24-Aug-18
0	40	51	65	58	48
1	29	51	62	60	47
2	17	49	60	54	48
3	17	50	58	57	51
4	24	47	53	56	53
5	23	47	54	54	46
6	27	48	55	54	49
7	31	51	56	52	55
8	28	51	54	49	56
9	39	50	52	49	53
10	35	46	53	47	52
11	32	49	55	50	54
12	36	50	61	61	59
13	44	61	61	52	63
14	56	67	60	50	62
15	53	66	63	52	65
16	55	67	61	58	63
17	52	71	63	65	67
18	55	72	63	64	67
19	59	67	61	58	66
20	60	69	56	58	66
21	57	66	58	56	69
22	55	67	59	50	67
23	56	64	61	50	71

Cambridge

Hour	20-Aug-18	21-Aug-18	22-Aug-18	23-Aug-18	24-Aug-18
0	60	57	48	29	46
1	62	70	53	42	45
2	53	67	50	53	48
3	47	62	51	53	48
4	49	61	62	64	54
5	61	69	63	76	56
6	76	82	69	83	68
7	78	94	79	83	73
8	77	79	74	77	71
9	67	60	72	70	59
10	68	61	75	71	54
11	72	78	79	69	58
12	60	67	78	67	49
13	56	64	84	67	11
14	54	63	84	66	10
15	52	63	81	71	17
16	55	66	86	76	30
17	63	70	88	83	40
18	71	70	84	82	48
19	70	71	70	79	50
20	65	65	67	69	66
21	58	67	66	64	65
22	52	52	53	61	62
23	59	50	45	53	43

Kiwitahi (Degussa)

Hour	20-Aug-18	21-Aug-18	22-Aug-18	23-Aug-18	24-Aug-18
0	34	33	32	34	31
1	34	34	34	33	31
2	35	34	35	34	33
3	35	33	33	33	34
4	35	34	35	34	32
5	36	32	35	34	36
6	35	31	36	32	35
7	36	32	35	31	37
8	36	34	32	33	36
9	38	32	31	34	34
10	37	34	33	33	35
11	35	34	32	35	36
12	34	34	31	33	37
13	35	34	32	35	37
14	37	33	32	34	39
15	35	32	34	31	37
16	35	33	33	32	38
17	35	34	34	33	37
18	35	34	34	34	34
19	35	34	34	34	34
20	34	34	34	34	36
21	33	34	31	33	36
22	34	34	32	34	35
23	35	32	32	34	36

Hamilton Te Kowhai

Hour	20-Aug-18	21-Aug-18	22-Aug-18	23-Aug-18	24-Aug-18
0	70	79	85	84	79
1	67	77	83	81	76
2	66	75	81	79	75
3	67	75	80	78	75
4	69	76	81	79	75
5	75	80	84	83	80
6	103	104	112	106	109
7	152	148	159	145	175
8	144	140	148	146	167
9	125	127	129	128	142
10	110	118	118	112	123
11	104	114	117	107	105
12	102	113	117	106	103
13	102	111	118	101	99
14	102	108	118	100	98
15	102	107	117	100	94
16	106	118	124	104	98
17	128	162	142	109	106
18	146	140	161	133	123
19	145	162	161	139	129
20	133	151	148	134	125
21	114	129	128	118	114
22	97	103	105	100	98
23	83	90	87	84	82

Te Rapa Cogen

Hour	20-Aug-18	21-Aug-18	22-Aug-18	23-Aug-18	24-Aug-18
0	603	597	573	593	610
1	623	598	591	595	611
2	618	616	602	590	610
3	611	626	610	593	614
4	613	605	614	590	619
5	615	583	601	590	618
6	617	574	609	587	618
7	664	556	606	595	601
8	656	556	598	601	588
9	609	573	597	599	587
10	605	557	589	598	586
11	599	554	562	596	569
12	605	568	562	596	577
13	597	553	565	598	578
14	573	547	564	588	566
15	569	538	573	593	583
16	564	550	593	579	597
17	586	550	593	592	585
18	573	550	588	591	582
19	588	568	569	591	581
20	624	588	565	593	589
21	624	581	589	594	599
22	616	564	604	598	558
23	600	563	603	609	545

Morrinsville DF

Hour	20-Aug-18	21-Aug-18	22-Aug-18	23-Aug-18	24-Aug-18
0	42	15	7	51	41
1	42	7	5	48	41
2	40	6	6	49	40
3	39	5	4	50	40
4	39	5	4	51	39
5	46	5	5	49	44
6	50	15	5	37	47
7	33	15	7	44	56
8	30	14	8	48	58
9	32	16	12	49	52
10	28	27	21	56	32
11	18	34	28	36	28
12	17	32	27	32	31
13	16	33	28	33	30
14	14	32	33	30	26
15	12	34	38	32	30
16	13	53	32	53	46
17	12	55	48	55	54
18	13	53	56	52	53
19	12	51	51	51	49
20	15	45	50	51	50
21	17	46	49	53	49
22	19	37	49	52	50
23	18	30	50	51	55

2.3 Central South System

New Plymouth

Hour	20-Aug-18	21-Aug-18	22-Aug-18	23-Aug-18	24-Aug-18
0	66	76	74	80	77
1	60	75	79	71	79
2	65	74	80	77	76
3	63	64	76	71	80
4	70	76	81	82	82
5	97	99	103	97	111
6	135	137	140	136	163
7	213	205	212	206	235
8	195	182	187	191	207
9	163	147	146	150	147
10	154	136	129	121	118
11	138	124	117	109	108
12	145	117	107	99	102
13	136	112	114	97	100
14	147	113	112	87	92
15	158	107	111	90	94
16	180	131	131	110	109
17	210	194	165	150	140
18	214	195	209	201	171
19	200	213	207	204	161
20	178	191	179	183	150
21	148	155	154	164	131
22	112	117	111	120	104
23	92	94	91	99	92

Pokuru Offtake

Hour	20-Aug-18	21-Aug-18	22-Aug-18	23-Aug-18	24-Aug-18
0	508	508	504	508	508
1	504	508	508	508	512
2	512	508	504	504	512
3	504	504	508	504	508
4	512	508	504	508	508
5	508	508	508	508	512
6	508	508	508	504	508
7	508	508	504	504	508
8	508	512	508	508	508
9	508	504	508	504	508
10	508	508	504	508	508
11	508	508	504	504	508
12	504	508	508	508	508
13	508	508	508	620	508
14	508	504	504	648	512
15	508	512	504	648	508
16	508	504	508	644	508
17	504	506	508	648	512
18	508	506	504	644	508
19	508	504	504	648	508
20	508	508	508	644	512
21	508	504	508	580	504
22	508	504	504	512	512
23	508	504	504	508	508

2.4 Bay of Plenty SystemLichfield DF

Hour	16-Oct-17	17-Oct-17	18-Oct-17	19-Oct-17	20-Oct-17
0	43	74	75	86	68
1	50	66	73	88	59
2	54	79	71	83	61
3	60	74	71	82	62
4	59	73	69	85	65
5	60	70	79	81	60
6	41	62	79	77	54
7	54	60	86	79	65
8	69	68	90	83	60
9	70	68	90	95	73
10	75	69	91	100	70
11	78	64	81	83	57
12	62	49	73	75	56
13	65	59	74	66	52
14	61	51	75	66	50
15	84	46	72	61	53
16	76	54	65	60	49
17	65	48	69	44	56
18	62	54	74	50	47
19	64	53	70	53	58
20	66	51	66	61	62
21	59	61	75	70	66
22	56	65	88	66	74
23	57	76	86	74	68

Lichfield 2

Hour	16-Oct-17	17-Oct-17	18-Oct-17	19-Oct-17	20-Oct-17
0	155	153	159	149	162
1	157	161	157	152	160
2	163	161	155	159	161
3	158	155	156	159	157
4	160	162	155	164	157
5	156	161	159	158	156
6	165	159	163	156	163
7	162	154	169	158	158
8	158	152	133	156	152
9	153	157	68	153	156
10	154	154	41	156	152
11	155	159	46	155	161
12	152	151	58	156	153
13	153	156	47	155	154
14	148	154	47	153	151
15	147	158	46	155	154
16	152	158	37	153	161
17	155	162	35	154	155
18	153	165	50	151	152
19	149	160	51	159	154
20	153	157	48	156	164
21	161	147	52	157	155
22	165	148	149	158	158
23	157	161	154	155	151

Edgecumbe DF

Hour	16-Oct-17	17-Oct-17	18-Oct-17	19-Oct-17	20-Oct-17
0	177	194	182	183	191
1	176	190	183	177	198
2	185	183	183	181	200
3	184	183	185	188	211
4	191	183	187	190	193
5	193	176	187	188	198
6	192	184	193	188	200
7	183	179	192	186	194
8	181	175	184	187	180
9	186	183	186	178	165
10	193	173	190	172	154
11	197	178	195	173	159
12	193	196	207	181	177
13	199	194	213	178	176
14	195	196	203	182	182
15	199	197	190	186	185
16	195	192	184	192	180
17	196	195	176	190	182
18	194	192	166	183	179
19	189	198	166	178	183
20	178	186	166	190	195
21	185	187	165	190	194
22	187	188	173	196	190
23	188	184	174	199	191

Reporoa

Hour	16-Oct-17	17-Oct-17	18-Oct-17	19-Oct-17	20-Oct-17
0	88	87	74	83	85
1	88	86	79	83	84
2	75	87	82	83	84
3	76	89	80	90	89
4	78	87	89	90	84
5	79	86	74	90	82
6	79	84	51	91	79
7	78	85	35	92	74
8	77	84	26	88	75
9	76	81	26	87	83
10	77	81	33	87	85
11	84	78	22	86	86
12	80	79	19	81	85
13	78	78	22	81	78
14	77	79	64	82	75
15	81	82	78	79	79
16	80	87	77	77	77
17	84	87	75	83	74
18	84	88	82	87	76
19	85	90	80	88	79
20	85	90	81	89	80
21	82	88	87	88	80
22	79	87	84	86	83
23	81	80	86	86	80

Whakatane

Hour	16-Oct-17	17-Oct-17	18-Oct-17	19-Oct-17	20-Oct-17
0	139	135	134	134	128
1	137	134	132	133	128
2	138	135	134	134	126
3	138	136	133	135	131
4	140	135	132	135	130
5	142	140	134	139	134
6	142	139	138	140	134
7	141	142	137	141	134
8	142	143	138	141	140
9	141	144	140	144	142
10	142	143	140	143	141
11	140	144	139	144	141
12	139	142	139	140	140
13	138	106	140	141	140
14	138	49	139	138	140
15	138	90	135	139	137
16	138	51	137	137	137
17	136	83	137	134	134
18	134	122	136	134	132
19	136	72	135	132	132
20	134	43	137	132	131
21	135	111	131	130	131
22	138	134	127	129	129
23	133	132	132	127	129

Tirau DF

Hour	16-Oct-17	17-Oct-17	18-Oct-17	19-Oct-17	20-Oct-17
0	25	26	29	24	37
1	24	19	24	19	22
2	25	8	23	29	6
3	24	6	23	27	7
4	25	7	25	27	6
5	23	6	24	24	6
6	23	5	23	28	7
7	25	10	28	48	4
8	39	12	41	73	5
9	59	41	61	77	7
10	77	52	72	71	7
11	72	62	76	69	6
12	73	59	78	77	12
13	73	59	78	76	18
14	74	56	76	75	30
15	72	57	71	70	42
16	60	59	59	67	48
17	51	59	61	64	58
18	38	61	58	66	57
19	34	64	58	66	61
20	33	63	62	64	61
21	32	56	59	65	61
22	28	48	52	56	75
23	25	49	33	50	77

Pyes Pa

Hour	16-Oct-17	17-Oct-17	18-Oct-17	19-Oct-17	20-Oct-17
0	10	12	12	14	13
1	10	10	11	13	13
2	10	10	11	14	12
3	12	11	14	16	14
4	14	16	16	16	15
5	18	20	20	21	19
6	21	21	22	23	21
7	20	21	20	21	20
8	20	20	21	19	19
9	20	22	22	19	18
10	19	20	19	19	18
11	19	21	18	19	18
12	19	18	19	19	17
13	18	19	19	19	17
14	23	17	17	18	18
15	19	18	18	19	18
16	20	19	20	19	19
17	20	19	21	20	20
18	20	20	20	20	19
19	19	19	19	19	18
20	18	18	18	18	17
21	16	16	17	17	16
22	15	14	16	15	16
23	13	12	13	13	14

Kinleith (CHH Mill) 2

Hour	16-Oct-17	17-Oct-17	18-Oct-17	19-Oct-17	20-Oct-17
0	372	448	723	816	549
1	430	437	701	817	549
2	690	421	701	781	549
3	690	446	711	807	547
4	695	710	717	795	559
5	515	813	761	795	578
6	513	799	863	795	585
7	521	805	919	794	604
8	689	805	862	799	604
9	512	800	820	774	594
10	459	759	804	753	608
11	468	776	808	722	614
12	403	788	804	718	629
13	258	769	800	717	631
14	306	852	769	630	637
15	241	880	760	561	642
16	138	866	784	560	668
17	170	886	795	555	674
18	306	904	802	560	683
19	381	930	817	564	689
20	392	931	797	564	609
21	475	861	828	554	543
22	498	850	841	548	513
23	468	789	790	554	378

Kawerau (Tasman)

Hour	16-Oct-17	17-Oct-17	18-Oct-17	19-Oct-17	20-Oct-17
0	67	61	69	70	66
1	66	62	69	68	67
2	67	63	70	68	67
3	68	64	71	69	67
4	69	65	71	68	67
5	69	66	69	68	67
6	69	65	70	68	68
7	57	65	69	68	67
8	33	65	68	68	66
9	64	66	69	69	67
10	56	66	69	71	68
11	50	65	68	71	68
12	54	65	69	70	69
13	57	66	69	70	69
14	50	68	69	67	71
15	59	68	70	65	71
16	61	68	70	62	71
17	62	68	69	66	71
18	62	68	68	66	72
19	61	68	69	65	73
20	61	69	70	65	74
21	60	69	70	64	74
22	61	67	71	65	75
23	60	68	71	65	65

Kawerau (Caxton)

Hour	16-Oct-17	17-Oct-17	18-Oct-17	19-Oct-17	20-Oct-17
0	12	13	24	30	29
1	12	13	30	29	25
2	12	13	28	29	16
3	12	13	28	30	16
4	13	17	21	29	17
5	12	24	16	29	28
6	13	25	15	29	24
7	13	23	14	29	24
8	13	24	15	29	21
9	12	22	14	29	28
10	12	24	14	29	26
11	13	17	14	29	25
12	13	22	13	29	25
13	12	21	15	26	27
14	12	23	17	27	27
15	13	23	17	25	26
16	13	23	18	27	28
17	13	22	18	27	29
18	13	23	18	28	29
19	13	23	18	29	28
20	13	23	20	28	28
21	13	22	33	29	28
22	13	22	30	29	29
23	13	23	30	29	29

Gisborne

Hour	16-Oct-17	17-Oct-17	18-Oct-17	19-Oct-17	20-Oct-17
0	27	13	19	32	29
1	36	14	19	31	29
2	30	14	22	31	30
3	19	14	38	30	35
4	30	19	34	34	53
5	36	30	34	44	42
6	46	52	55	60	57
7	44	38	49	63	57
8	39	35	49	57	57
9	36	33	100	53	51
10	36	36	49	52	55
11	35	34	51	51	54
12	33	31	52	46	52
13	27	29	51	40	48
14	25	27	50	42	45
15	24	33	51	46	44
16	24	26	52	46	44
17	27	28	53	48	47
18	25	41	52	50	47
19	24	32	50	47	40
20	19	28	44	41	30
21	17	21	37	35	25
22	14	17	32	32	21
23	11	17	29	29	18

Mount Maunganui

Hour	16-Oct-17	17-Oct-17	18-Oct-17	19-Oct-17	20-Oct-17
0	60	67	71	68	69
1	57	62	63	67	69
2	62	61	58	63	68
3	62	67	64	68	75
4	69	67	60	70	72
5	72	85	45	85	76
6	82	94	53	95	94
7	80	90	61	92	92
8	88	83	60	89	88
9	84	74	57	83	86
10	78	78	55	88	81
11	71	91	63	83	80
12	74	101	56	83	81
13	73	94	65	85	86
14	81	96	60	77	86
15	70	89	57	85	81
16	72	80	57	92	71
17	70	75	60	86	68
18	70	80	63	86	71
19	69	82	67	83	68
20	65	74	64	75	61
21	65	69	58	72	54
22	60	66	58	64	49
23	56	62	57	65	46

Rotorua

Hour	16-Oct-17	17-Oct-17	18-Oct-17	19-Oct-17	20-Oct-17
0	20	23	20	24	20
1	17	22	21	24	20
2	19	22	20	25	22
3	21	25	24	28	24
4	37	39	38	42	39
5	54	60	60	67	57
6	75	77	77	89	78
7	66	63	65	73	65
8	55	55	51	59	52
9	48	54	46	57	47
10	49	54	51	54	44
11	48	47	46	50	45
12	44	46	46	49	46
13	41	41	38	41	41
14	34	38	32	35	36
15	35	37	38	37	37
16	38	40	44	39	40
17	41	43	47	43	44
18	44	45	50	43	47
19	46	44	52	47	45
20	42	40	48	42	40
21	33	31	38	31	33
22	25	22	29	24	27
23	23	21	23	21	21

2.5 South SystemParaparaumu

Hour	3-Sep-18	4-Sep-18	5-Sep-18	6-Sep-18	7-Sep-18
0	6	8	7	8	8
1	8	10	9	11	9
2	6	8	7	9	8
3	7	9	8	8	8
4	9	12	11	12	12
5	15	20	20	20	19
6	28	34	33	33	33
7	37	49	48	43	46
8	35	49	47	44	46
9	29	40	38	38	34
10	28	35	33	32	29
11	26	32	27	29	26
12	26	26	22	30	24
13	27	24	22	29	22
14	26	21	21	30	19
15	29	24	19	33	17
16	39	32	23	39	20
17	48	41	38	47	34
18	55	50	47	54	43
19	51	48	48	51	42
20	44	42	43	46	39
21	34	32	33	36	31
22	19	18	20	20	21
23	9	10	12	11	11

Hawera

Hour	3-Sep-18	4-Sep-18	5-Sep-18	6-Sep-18	7-Sep-18
0	37	43	28	19	51
1	38	40	20	17	36
2	37	40	19	29	34
3	38	41	39	41	33
4	43	49	47	46	32
5	59	64	63	64	32
6	68	72	74	70	47
7	65	71	85	80	68
8	46	56	86	78	90
9	38	54	79	77	92
10	41	51	77	75	91
11	66	61	76	74	101
12	64	70	72	78	107
13	58	66	72	67	97
14	55	65	72	63	63
15	64	64	72	71	50
16	67	70	73	84	53
17	74	71	76	110	72
18	74	76	78	118	75
19	72	75	74	114	73
20	73	69	67	109	67
21	59	62	64	83	61
22	50	62	59	74	55
23	45	49	42	71	48

Wanganui

Hour	3-Sep-18	4-Sep-18	5-Sep-18	6-Sep-18	7-Sep-18
0	86	141	128	139	133
1	81	138	136	129	127
2	86	139	134	126	123
3	91	135	116	123	124
4	97	141	108	126	133
5	121	126	118	124	118
6	159	161	149	173	172
7	190	226	184	194	193
8	160	228	177	182	190
9	130	211	166	163	202
10	135	202	165	149	192
11	147	170	156	145	190
12	151	163	157	140	194
13	153	166	158	141	194
14	161	160	158	140	193
15	170	166	163	141	196
16	190	185	189	180	214
17	215	195	227	228	228
18	230	201	219	242	181
19	222	193	195	232	160
20	210	191	184	191	151
21	184	196	162	172	155
22	137	144	144	164	124
23	139	117	151	151	108

Okaiawa (Taranaki) by products

Hour	3-Sep-18	4-Sep-18	5-Sep-18	6-Sep-18	7-Sep-18
0	10	49	50	70	67
1	14	50	40	54	59
2	10	62	45	57	65
3	10	59	52	54	63
4	9	50	53	68	56
5	9	46	58	80	69
6	11	44	53	66	60
7	11	41	57	52	39
8	9	37	57	47	39
9	12	29	57	38	29
10	10	18	63	25	25
11	6	16	63	21	20
12	6	11	50	26	19
13	5	16	47	30	21
14	7	18	41	39	15
15	5	17	38	48	15
16	7	20	37	39	22
17	5	20	43	36	31
18	56	40	44	48	34
19	49	44	67	48	57
20	55	46	68	46	58
21	57	45	73	54	58
22	55	49	69	60	53
23	52	51	63	60	47

Marton

Hour	3-Sep-18	4-Sep-18	5-Sep-18	6-Sep-18	7-Sep-18
0	31	35	7	35	5
1	30	36	7	35	5
2	31	36	8	35	5
3	28	37	8	34	6
4	26	43	7	36	5
5	22	43	8	37	8
6	19	44	12	34	11
7	18	44	14	34	14
8	19	44	27	31	14
9	14	42	37	27	9
10	16	34	36	22	7
11	25	28	35	20	7
12	26	23	33	18	10
13	28	21	40	10	11
14	29	11	37	9	11
15	30	11	37	8	11
16	30	11	37	8	11
17	32	13	39	9	9
18	33	13	38	11	9
19	35	14	39	11	9
20	34	12	38	9	8
21	34	11	38	8	7
22	33	9	35	7	5
23	34	8	35	6	5

Palmerston North

Hour	3-Sep-18	4-Sep-18	5-Sep-18	6-Sep-18	7-Sep-18
0	59	67	73	70	70
1	58	61	67	64	65
2	66	64	67	65	68
3	67	65	67	69	68
4	87	87	89	89	87
5	119	121	125	117	120
6	214	212	219	221	212
7	269	283	290	283	274
8	223	250	258	254	251
9	188	231	245	221	237
10	163	228	222	203	226
11	160	231	208	190	216
12	138	221	192	180	195
13	137	215	175	173	174
14	120	195	160	164	146
15	120	174	159	163	140
16	130	192	183	172	150
17	168	239	219	210	192
18	201	259	243	239	222
19	193	240	230	233	213
20	174	211	206	217	188
21	150	177	170	179	161
22	107	126	123	130	123
23	78	90	87	89	91

Longburn

Hour	3-Sep-18	4-Sep-18	5-Sep-18	6-Sep-18	7-Sep-18
0	26	35	31	30	31
1	27	30	32	28	32
2	30	27	29	28	30
3	30	29	29	29	29
4	29	25	30	31	31
5	29	28	31	30	28
6	33	29	32	34	32
7	33	32	37	38	38
8	31	31	33	34	35
9	33	33	34	32	35
10	34	38	34	35	36
11	34	36	30	35	34
12	35	39	32	34	34
13	31	36	36	33	34
14	30	32	31	30	31
15	35	30	32	30	31
16	28	32	38	28	31
17	32	31	35	31	32
18	34	32	32	34	32
19	31	34	32	36	33
20	32	34	35	34	30
21	33	31	35	32	30
22	34	30	30	35	27
23	34	32	27	34	28

Levin

Hour	3-Sep-18	4-Sep-18	5-Sep-18	6-Sep-18	7-Sep-18
0	11	28	24	25	29
1	10	25	25	20	27
2	9	27	20	17	28
3	12	27	18	14	29
4	17	32	25	22	33
5	34	36	35	28	41
6	39	48	43	42	56
7	53	62	54	54	65
8	60	59	60	51	60
9	56	52	59	54	52
10	48	40	52	48	44
11	47	42	47	42	40
12	48	36	42	39	27
13	47	31	46	38	23
14	38	26	36	35	23
15	32	26	34	39	25
16	34	30	34	37	26
17	40	37	39	43	32
18	46	42	43	51	38
19	46	40	45	52	38
20	41	32	39	47	39
21	40	31	37	44	36
22	36	28	31	37	29
23	32	25	29	32	23

Belmont

Hour	3-Sep-18	4-Sep-18	5-Sep-18	6-Sep-18	7-Sep-18
0	74	109	111	111	103
1	74	114	106	107	102
2	75	112	107	108	100
3	78	117	109	107	104
4	91	126	123	121	114
5	142	185	179	174	171
6	296	366	358	349	348
7	378	470	466	452	453
8	331	415	402	388	410
9	294	366	341	320	361
10	274	338	302	283	302
11	269	334	292	278	289
12	278	329	278	271	301
13	301	321	261	255	275
14	296	280	256	240	267
15	307	270	252	236	257
16	356	329	295	286	301
17	421	393	376	356	359
18	443	432	422	408	386
19	419	410	404	404	371
20	373	363	362	362	338
21	309	294	299	313	286
22	204	200	203	206	208
23	139	135	140	138	153

Feilding

Hour	3-Sep-18	4-Sep-18	5-Sep-18	6-Sep-18	7-Sep-18
0	11	15	18	16	18
1	12	16	17	17	18
2	12	16	17	16	18
3	13	17	18	16	18
4	15	18	18	18	19
5	19	23	24	22	23
6	37	34	34	36	35
7	44	45	46	52	47
8	39	50	50	52	44
9	34	47	50	49	42
10	33	46	47	46	39
11	29	47	49	44	40
12	26	45	49	40	34
13	25	45	45	37	36
14	22	41	43	32	32
15	20	38	36	32	27
16	24	37	37	32	27
17	32	43	43	39	35
18	37	43	45	42	35
19	35	40	41	39	32
20	33	35	37	35	30
21	30	29	34	31	27
22	23	24	28	28	21
23	17	19	18	21	18

Hastings

Hour	3-Sep-18	4-Sep-18	5-Sep-18	6-Sep-18	7-Sep-18
0	125	216	248	238	235
1	125	203	236	228	244
2	122	212	242	243	255
3	137	219	246	248	248
4	155	244	250	253	255
5	176	256	275	279	288
6	239	292	342	322	329
7	271	349	400	373	398
8	270	342	412	376	381
9	310	327	395	359	399
10	351	303	349	350	371
11	274	304	347	350	349
12	263	303	323	329	329
13	246	286	323	337	332
14	244	301	387	329	309
15	234	296	413	335	306
16	258	293	392	343	303
17	252	290	379	340	302
18	260	301	339	341	306
19	264	292	322	333	304
20	264	281	297	322	292
21	256	279	251	297	249
22	211	253	228	263	224
23	201	249	248	278	191

Wellington (Tawa)

Hour	3-Sep-18	4-Sep-18	5-Sep-18	6-Sep-18	7-Sep-18
0	120	195	181	184	187
1	123	188	170	176	174
2	118	190	175	168	175
3	128	201	187	182	187
4	172	237	225	210	222
5	268	341	338	324	327
6	512	603	604	597	590
7	715	848	851	851	838
8	623	777	784	776	797
9	533	652	611	628	645
10	515	606	553	579	593
11	505	591	510	566	573
12	513	583	505	534	544
13	545	587	504	499	544
14	555	566	497	489	518
15	589	591	517	495	544
16	663	642	582	576	605
17	728	707	687	668	676
18	748	730	708	714	676
19	700	690	665	690	649
20	630	618	600	628	581
21	523	501	507	523	489
22	358	350	350	366	352
23	237	224	229	231	239

Waitangirua (Hutt Valley)

Hour	3-Sep-18	4-Sep-18	5-Sep-18	6-Sep-18	7-Sep-18
0	11	11	14	12	13
1	9	10	14	11	11
2	9	11	14	11	11
3	11	12	15	12	12
4	18	20	21	17	16
5	38	41	40	36	34
6	71	74	84	79	75
7	77	80	91	90	86
8	60	59	59	66	59
9	51	48	53	54	47
10	48	38	42	44	38
11	43	34	38	39	33
12	35	32	33	34	30
13	33	26	28	30	26
14	28	25	25	26	20
15	29	28	25	27	21
16	37	35	33	34	25
17	49	44	45	45	33
18	58	55	57	59	45
19	57	56	57	59	45
20	48	50	51	55	42
21	38	41	42	45	36
22	24	26	27	30	26
23	14	16	15	17	16

Pahiatua DF

Hour	3-Sep-18	4-Sep-18	5-Sep-18	6-Sep-18	7-Sep-18
0	127	110	143	142	150
1	133	116	144	143	143
2	155	121	144	152	138
3	149	116	151	155	128
4	148	116	146	155	129
5	146	116	145	157	130
6	151	116	143	152	126
7	146	123	151	155	118
8	143	120	154	134	115
9	138	120	148	127	126
10	129	118	138	128	122
11	122	127	124	117	116
12	110	126	131	114	113
13	111	105	149	109	119
14	94	102	154	105	114
15	50	113	151	107	92
16	71	130	146	114	91
17	73	138	147	116	82
18	68	145	145	126	90
19	84	149	147	122	94
20	123	142	143	140	95
21	115	141	139	140	93
22	86	142	133	144	100
23	91	145	136	151	102

2.6 Frankley Road SystemTaranaki Combined Cycle

Hour	7-May-18	8-May-18	9-May-18	10-May-18	11-May-18
0	1,392	1,384	1,312	1,320	1,384
1	1,400	1,392	1,312	1,320	1,376
2	1,392	1,392	1,312	1,320	1,400
3	1,400	1,392	1,320	1,328	1,392
4	1,384	1,392	1,312	1,320	1,392
5	1,496	1,392	1,400	1,400	1,400
6	1,720	1,512	1,584	1,528	1,512
7	1,976	1,656	1,720	1,944	1,648
8	1,712	1,656	1,656	1,736	1,632
9	1,656	1,648	1,656	1,656	1,648
10	1,688	1,656	1,400	1,592	1,648
11	1,648	1,648	1,392	2,160	1,648
12	1,648	1,656	1,392	1,568	1,416
13	1,648	1,656	1,376	1,392	1,416
14	1,648	1,664	1,376	1,384	1,384
15	1,648	1,528	1,384	1,392	1,392
16	1,648	1,648	1,384	1,792	1,392
17	1,712	1,720	1,680	2,216	1,656
18	1,928	1,864	1,952	2,256	1,656
19	1,776	1,536	1,664	1,992	1,656
20	1,664	1,392	1,400	1,648	1,400
21	1,648	1,392	1,400	1,536	1,392
22	1,392	1,312	1,312	1,376	1,320
23	1,384	1,312	1,328	1,376	1,304

Stratford 3

Hour	7-May-18	8-May-18	9-May-18	10-May-18	11-May-18
0	1,137	1,118	1,124	1,114	1,090
1	1,133	1,132	1,130	1,119	1,165
2	1,129	1,138	1,128	1,122	1,137
3	1,129	1,133	1,127	1,125	1,122
4	1,135	1,137	1,127	1,121	1,126
5	1,135	1,119	1,130	1,124	1,135
6	1,134	1,115	1,119	1,125	1,128
7	1,134	1,115	1,116	1,125	1,129
8	1,112	1,110	1,112	1,118	1,134
9	1,090	1,131	1,133	1,198	1,143
10	1,129	1,122	1,141	1,185	1,146
11	1,138	1,116	1,140	1,184	1,155
12	1,135	1,136	1,137	1,195	1,136
13	1,138	1,113	1,189	1,165	1,140
14	1,271	1,142	1,126	1,101	1,037
15	1,200	1,138	1,127	917	989
16	1,149	1,131	1,138	846	877
17	1,161	1,098	1,112	766	747
18	1,142	1,114	1,114	789	751
19	1,047	1,123	1,108	778	722
20	1,059	1,141	1,117	785	765
21	1,052	1,138	1,109	792	753
22	1,058	1,124	1,101	798	753
23	1,062	1,118	1,095	785	752

AUP

Hour	7-May-18	8-May-18	9-May-18	10-May-18	11-May-18
0	851	853	854	855	876
1	840	858	854	856	875
2	857	854	854	862	875
3	853	858	854	863	875
4	856	855	854	860	870
5	852	855	855	863	875
6	857	855	854	862	876
7	853	859	858	858	876
8	857	854	853	852	876
9	853	858	853	848	866
10	857	854	853	856	874
11	857	854	852	855	868
12	853	854	852	855	861
13	854	857	851	857	867
14	858	853	852	869	864
15	853	857	851	872	860
16	858	853	851	871	867
17	854	853	851	878	856
18	853	857	847	870	861
19	853	856	853	879	861
20	859	848	854	874	857
21	854	859	859	872	854
22	857	855	855	873	859
23	853	854	861	873	858

2.7 Maui SystemPirongia

Hour	22-Jan-18	23-Jan-18	24-Jan-18	25-Jan-18	26-Jan-18
0	52	66	51	52	57
1	53	66	48	52	56
2	54	64	52	53	54
3	52	60	50	51	56
4	54	61	51	51	53
5	52	58	51	57	48
6	52	57	52	51	46
7	52	61	54	52	49
8	56	64	49	53	48
9	59	65	61	52	50
10	58	61	64	49	48
11	55	57	57	50	48
12	56	48	56	48	48
13	56	48	55	47	50
14	57	50	61	52	50
15	50	46	55	55	45
16	51	44	52	53	48
17	57	43	49	55	45
18	75	46	45	54	56
19	69	63	44	54	60
20	71	48	57	58	64
21	71	44	51	64	59
22	70	49	52	57	61
23	67	55	46	56	60

Ngatimaru Road

Hour	22-Jan-18	23-Jan-18	24-Jan-18	25-Jan-18	26-Jan-18
0	5,900	5,896	5,888	5,894	5,900
1	5,898	5,900	5,892	5,890	5,900
2	5,898	5,900	5,896	5,892	5,896
3	5,896	5,896	5,888	5,892	5,900
4	5,892	5,900	5,892	5,884	5,900
5	5,898	5,898	5,888	5,882	5,896
6	5,894	5,898	5,888	5,886	5,890
7	5,890	5,892	5,892	5,890	5,894
8	5,894	5,892	5,896	5,894	5,892
9	5,892	5,896	5,900	5,892	5,896
10	5,892	5,896	5,900	5,892	5,898
11	5,892	5,900	5,902	5,896	5,900
12	5,894	5,900	5,902	5,900	5,900
13	5,896	5,900	5,900	5,898	5,898
14	5,894	5,900	5,896	5,898	5,900
15	5,898	5,900	5,892	5,900	5,900
16	5,898	5,904	5,898	5,894	5,900
17	5,896	5,900	5,764	5,898	5,898
18	5,900	5,900	5,738	5,896	5,904
19	5,900	5,892	5,740	5,896	5,904
20	5,898	5,894	5,738	5,896	5,898
21	5,898	5,892	5,740	5,894	5,896
22	5,896	5,890	5,734	5,898	5,892
23	5,900	5,892	5,852	5,896	5,892

Rotowaro

Hour	22-Jan-18	23-Jan-18	24-Jan-18	25-Jan-18	26-Jan-18
0	2,728	2,880	3,168	3,160	3,008
1	2,696	2,832	3,024	3,032	2,688
2	2,712	2,816	2,888	2,936	2,640
3	2,720	2,816	2,888	2,904	2,752
4	2,776	2,896	2,960	3,000	2,864
5	3,016	3,144	3,128	3,344	3,144
6	3,432	3,392	3,456	3,648	3,504
7	3,680	3,648	3,768	3,776	3,656
8	3,768	3,696	3,864	2,992	3,728
9	3,800	3,784	3,872	3,920	3,808
10	3,824	3,808	3,920	3,968	3,824
11	3,824	3,768	3,832	4,208	3,808
12	3,904	3,712	3,736	3,912	3,752
13	3,936	3,696	3,704	3,816	3,680
14	3,880	3,624	3,640	3,680	3,536
15	3,776	3,584	3,560	3,672	3,392
16	3,768	3,632	3,520	3,648	3,288
17	3,792	3,640	3,584	3,608	3,280
18	3,728	3,648	3,576	3,528	3,216
19	3,648	3,560	3,552	3,456	3,208
20	3,480	3,488	3,560	3,488	3,112
21	3,256	3,408	3,472	3,360	3,016
22	3,096	3,272	3,280	3,232	2,832
23	2,936	3,176	3,176	3,120	2,616

Huntly Power Station

Hour	22-Jan-18	23-Jan-18	24-Jan-18	25-Jan-18	26-Jan-18
0	3,952	3,740	3,226	3,614	3,578
1	3,696	3,596	3,132	3,490	3,692
2	3,568	3,708	2,866	3,384	3,662
3	3,538	3,884	2,866	3,412	3,578
4	3,374	3,952	2,936	3,558	3,644
5	3,628	3,978	3,402	3,694	3,640
6	3,916	4,006	3,644	3,638	3,660
7	3,892	3,870	3,550	3,766	3,852
8	4,124	3,708	3,542	3,766	4,076
9	4,102	3,668	3,524	3,822	4,018
10	4,488	3,788	3,984	3,870	3,606
11	3,802	3,778	4,906	3,866	3,564
12	3,840	4,152	5,076	3,868	3,802
13	3,820	4,232	4,618	3,880	4,042
14	3,694	3,798	4,734	3,884	3,852
15	3,760	3,674	5,156	3,902	3,864
16	3,994	3,872	5,778	4,048	3,854
17	3,932	4,268	5,810	4,030	4,020
18	3,968	4,322	5,812	4,020	4,018
19	3,940	4,510	5,812	3,388	3,802
20	3,900	5,064	5,802	3,238	4,106
21	3,840	5,120	5,788	3,288	4,000
22	3,888	5,110	5,356	3,302	4,938
23	4,020	4,270	4,336	3,354	4,206

Pokuru

Hour	22-Jan-18	23-Jan-18	24-Jan-18	25-Jan-18	26-Jan-18
0	844	934	950	918	888
1	824	914	922	940	902
2	822	906	922	914	886
3	814	924	926	872	878
4	848	930	942	872	878
5	876	956	950	874	884
6	916	968	966	898	894
7	960	984	1,002	922	902
8	968	982	1,008	936	912
9	932	990	1,008	952	900
10	948	1,004	994	960	920
11	1,036	1,016	990	1,014	906
12	998	1,000	996	982	878
13	986	1,010	1,012	940	864
14	980	1,054	1,008	998	870
15	972	1,056	996	962	876
16	992	1,044	978	960	858
17	1,036	1,024	976	954	824
18	1,048	1,024	982	962	796
19	1,048	1,008	964	972	806
20	1,048	1,010	952	972	808
21	1,004	992	930	952	806
22	984	970	914	920	824
23	964	988	914	904	834

Bertrand Road

Hour	22-Jan-18	23-Jan-18	24-Jan-18	25-Jan-18	26-Jan-18
0	4,156	4,150	4,038	4,076	4,134
1	4,156	4,172	4,046	4,108	4,138
2	4,146	4,156	4,052	4,128	4,138
3	4,158	4,112	4,056	4,140	4,110
4	4,144	4,098	4,028	4,140	4,112
5	4,140	4,092	4,032	4,096	4,124
6	4,164	4,102	4,020	4,098	4,126
7	4,156	4,074	4,028	4,106	4,122
8	4,156	4,048	4,036	4,134	4,128
9	4,146	4,026	4,036	4,126	4,116
10	4,142	4,026	4,038	4,132	4,138
11	4,144	4,026	4,046	4,142	4,130
12	4,138	4,044	4,066	4,130	4,124
13	4,146	4,034	4,064	4,128	4,138
14	4,140	4,038	4,050	4,142	4,142
15	4,140	4,048	4,036	4,126	4,132
16	4,140	4,048	4,040	4,140	4,132
17	4,140	4,050	4,020	4,132	4,134
18	4,152	4,064	4,036	4,138	4,126
19	4,140	4,062	4,060	4,134	4,136
20	4,156	4,046	4,064	4,124	4,136
21	4,148	4,042	4,058	4,132	4,146
22	4,156	4,040	4,062	4,128	4,138
23	4,146	4,028	4,048	4,140	4,136

Frankley Road

Hour	22-Jan-18	23-Jan-18	24-Jan-18	25-Jan-18	26-Jan-18
0	1,216	800	968	1,420	1,220
1	1,184	748	876	1,308	996
2	1,136	764	688	1,264	796
3	952	568	384	912	372
4	844	496	456	820	684
5	1,352	944	1,056	1,100	1,560
6	1,716	1,132	1,248	1,536	2,016
7	1,560	1,356	1,504	1,844	2,096
8	1,252	1,188	1,520	2,044	2,196
9	1,052	1,324	1,532	1,844	2,236
10	968	1,364	1,556	1,752	2,436
11	940	1,364	1,648	1,620	2,132
12	988	1,364	1,644	1,528	2,072
13	992	1,308	1,596	1,724	2,096
14	1,048	1,188	808	1,896	2,128
15	1,104	1,152	1,368	1,968	2,052
16	1,048	728	1,632	1,764	2,096
17	1,012	808	1,528	1,816	1,860
18	1,004	900	1,844	1,624	1,432
19	1,092	920	2,124	1,420	1,232
20	1,084	920	1,824	1,548	1,296
21	1,172	908	2,324	1,432	1,416
22	1,168	992	1,784	1,384	1,288
23	1,276	1,208	1,436	1,620	1,728