



DAILY ALLOCATION WORKING GROUP #14

DATE:

Tuesday 25 June 2019

AUTHOR:

GIC



DAWG membership – any thoughts?

Original members		
AMS	Contact	Genesis
Mercury	Nova	Powerco
Trustpower	Vector	First Gas

Other shippers & associated parties		
Greymouth	OMV	Methanex
Interconnected parties	White label retailers	

Reminder: notify any TOU switches

- If you are expecting any large TOU sites to switch on 1 July 2019 let us know so that we can update the D+1 model
- Requires confirmation from both parties
- Email: allocations@gasindustry.co.nz

Changes to D+1 model to improve accuracy

[Dave's slides]

Changes to D+1 for GTAC/TACOS: Reports

- New DP1GATE report
 - Same format as existing First Gas DP1GATE: “Welded Point ID, Date, Shipper ID, Contract ID, Delivered Energy”
 - Contract ID will be populated each day not just at the end of the month
 - Contract ID field will be used to distinguish between:
 - Default TSA volumes (TOU)
 - ICP-level SA (TOU)
 - Specified Shipper volumes (non TOU)
 - If shipper has opted out of auto-nominations then TACOS will aggregate the TOU and non TOU volumes under the default TSA (but the volumes will always be split in the DP1GATE report)

Changes to D+1 for GTAC/TACOS: Reports

	A	B	C	D	E
1	Welded Point ID	Date	Shipper ID	Contract ID	Delivered Energy
2	ASH34301	14/06/2019	CTCT	\N	0.1731
3	ASH34301	14/06/2019	GENG	\N	0.8217
4	ASH34301	14/06/2019	NOVA	\N	0.8535
5	ASH34301	14/06/2019	VW	\N	0.4412
6	ASH34301	14/06/2019	WANG	\N	0.7035
7	ASH34301	15/06/2019	CTCT	\N	0.1388
8	ASH34301	15/06/2019	GENG	\N	0.2711
9	ASH34301	15/06/2019	NOVA	\N	0.2491
10	ASH34301	15/06/2019	VW	\N	0.8401
11	ASH34301	15/06/2019	WANG	\N	0.5773
12	ASH34301	16/06/2019	CTCT	\N	0.2287
13	ASH34301	16/06/2019	GENG	\N	0.8380
14	ASH34301	16/06/2019	NOVA	\N	0.9773
15	ASH34301	16/06/2019	VW	\N	0.2255
16	ASH34301	16/06/2019	WANG	\N	0.0789
17	BEL24510	14/06/2019	CTCT	\N	0.7882
18	BEL24510	14/06/2019	GENG	\N	0.9638
19	BEL24510	14/06/2019	GGNZ	\N	0.9365
20	BEL24510	14/06/2019	NOVA	\N	0.6632
21	BEL24510	14/06/2019	VW	\N	0.7057
22	BEL24510	14/06/2019	WANG	\N	0.1515
23	BEL24510	15/06/2019	CTCT	\N	0.3833
24	BEL24510	15/06/2019	GENG	\N	0.6241
25	BEL24510	15/06/2019	GGNZ	\N	0.0425
26	BEL24510	15/06/2019	NOVA	\N	0.8038
27	BEL24510	15/06/2019	VW	\N	0.1307
28	BEL24510	15/06/2019	WANG	\N	0.5106

DP1GATE (First Gas)

	A	B	C	D	E
1	Record_date	Date_created	gate	Shipper	Value
2	1/06/2019	24/06/2019 14:15	EGC30701	GENG	0.537
3	1/06/2019	24/06/2019 14:15	EGC30701	GNVG	0.894
4	1/06/2019	24/06/2019 14:15	EGC30702	CTCT	0.160
5	1/06/2019	24/06/2019 14:15	EGC30702	GENG	0.841
6	1/06/2019	24/06/2019 14:15	EGC30702	GNVG	0.777
7	1/06/2019	24/06/2019 14:15	GIS07810	CTCT	0.601
8	1/06/2019	24/06/2019 14:15	GIS07810	GENG	0.576
9	1/06/2019	24/06/2019 14:15	GIS07810	GNVG	0.497
10	1/06/2019	24/06/2019 14:15	GIS07810	MEEN	0.073
11	1/06/2019	24/06/2019 14:15	GIS07810	PUNZ	0.117
12	1/06/2019	24/06/2019 14:15	GIS07810	SULG	0.400
13	1/06/2019	24/06/2019 14:15	GIS07810	TRUS	0.744
14	1/06/2019	24/06/2019 14:15	GMM08001	CTCT	0.566
15	1/06/2019	24/06/2019 14:15	GMM08001	GENG	0.288
16	1/06/2019	24/06/2019 14:15	GMM08001	GMTH	0.218
17	1/06/2019	24/06/2019 14:15	GMM08001	GNGC	0.812
18	1/06/2019	24/06/2019 14:15	GMM08001	GNVG	0.503
19	1/06/2019	24/06/2019 14:15	GMM08001	MEEN	0.556
20	1/06/2019	24/06/2019 14:15	GMM08001	PUNZ	0.690
21	1/06/2019	24/06/2019 14:15	GMM08001	SULG	0.253
22	1/06/2019	24/06/2019 14:15	GMM08001	TRUS	0.511
23	1/06/2019	24/06/2019 14:15	GTK19101	CTCT	0.868
24	1/06/2019	24/06/2019 14:15	GTK19101	GENG	0.923
25	1/06/2019	24/06/2019 14:15	GTK19101	GNVG	0.283
26	1/06/2019	24/06/2019 14:15	GTK19101	MEEN	0.043
27	1/06/2019	24/06/2019 14:15	GTK19101	PUNZ	0.558
28	1/06/2019	24/06/2019 14:15	GTK19101	SULG	0.934

DP1GATE (shipper)

Changes to D+1 for GTAC/TACOS: Reports

- Do shippers want a DP1ZONE report?
 - Daily allocations aggregated by zone
 - Could split TOU/non TOU?
- Should we modify (or discontinue) any of the other D+1 reports?
 - DP1SUMM – provides pool-level allocations
 - DP1DETA – provides ICP level allocations for TOU, allocation method, shipper's pool-level mass market allocation and total residual for pool
 - EOM – official runs collated at end of month, at gate/shipper/contract ID level

Changes to D+1 for GTAC/TACOS: Reports

	A	B	C	D	E
1	Record_date	Date_created	Pool	Shipper	Value
2	1/06/2019	24/06/2019 14:15	BOP	CTCT	0.4470091
3	1/06/2019	24/06/2019 14:15	BOP	GENG	0.4484442
4	1/06/2019	24/06/2019 14:15	BOP	GMTH	0.8820453
5	1/06/2019	24/06/2019 14:15	BOP	GNGC	0.8095231
6	1/06/2019	24/06/2019 14:15	BOP	GNVG	0.269626
7	1/06/2019	24/06/2019 14:15	BOP	MEEN	0.4388385
8	1/06/2019	24/06/2019 14:15	BOP	PUNZ	0.315353
9	1/06/2019	24/06/2019 14:15	BOP	SULG	0.1455311
10	1/06/2019	24/06/2019 14:15	BOP	TRUS	0.8520125
11	1/06/2019	24/06/2019 14:15	MAUI/	CTCT	0.9700436
12	1/06/2019	24/06/2019 14:15	MAUI/	GENG	0.0480313
13	1/06/2019	24/06/2019 14:15	MAUI/	GMTH	0.8497983
14	1/06/2019	24/06/2019 14:15	MAUI/	GNVG	0.3159563
15	1/06/2019	24/06/2019 14:15	MAUI/	MEEN	0.3645701
16	1/06/2019	24/06/2019 14:15	MAUI/	PUNZ	0.3109813
17	1/06/2019	24/06/2019 14:15	MAUI/	SULG	0.7775862
18	1/06/2019	24/06/2019 14:15	MAUI/	TRUS	0.4498639
19	1/06/2019	24/06/2019 14:15	NORTH	CTCT	0.1463422
20	1/06/2019	24/06/2019 14:15	NORTH	GENG	0.7591445
21	1/06/2019	24/06/2019 14:15	NORTH	GMTH	0.933344
22	1/06/2019	24/06/2019 14:15	NORTH	GNGC	0.6263119
23	1/06/2019	24/06/2019 14:15	NORTH	GNVG	0.6169848
24	1/06/2019	24/06/2019 14:15	NORTH	MEEN	0.3859999
25	1/06/2019	24/06/2019 14:15	NORTH	PUNZ	0.7624554
26	1/06/2019	24/06/2019 14:15	NORTH	SULG	0.7981376
27	1/06/2019	24/06/2019 14:15	NORTH	TRUS	0.2625976
28	1/06/2019	24/06/2019 14:15	SKF	CTCT	0.2316113

DP1SUMM

	A	B	C	D	E	F	G	H
1	Record_date	Date_created	Allocation_Type	Code	Gate	Method	Shipper	Value
2	2/06/2019	24/06/2019 14:15	ICP	0000012323GNB9A	WAG21501	g1k	GNGC	0.8689292
3	15/06/2019	24/06/2019 14:15	ICP	0000012323GNB9A	WAG21501	g1k	GNGC	0.6935215
4	16/06/2019	24/06/2019 14:15	ICP	0000012323GNB9A	WAG21501	g1k	GNGC	0.0012002
5	23/06/2019	24/06/2019 14:15	ICP	0000012323GNB9A	WAG21501	g1k	GNGC	0.3505988
6	2/06/2019	24/06/2019 14:15	ICP	0000012521QT1A7	GTA03610	g1k	GNVG	0.8089423
7	3/06/2019	24/06/2019 14:15	ICP	0000012521QT1A7	GTA03610	g1k	GNVG	0.7518117
8	2/06/2019	24/06/2019 14:15	ICP	0000014688GND94	WAG21501	g1k	GNGC	0.9117388
9	3/06/2019	24/06/2019 14:15	ICP	0000014688GND94	WAG21501	g1k	GNGC	0.4762049
10	15/06/2019	24/06/2019 14:15	ICP	0000014688GND94	WAG21501	g1k	GNGC	0.8745212
11	16/06/2019	24/06/2019 14:15	ICP	0000014688GND94	WAG21501	g1k	GNGC	0.3439853
12	1/06/2019	24/06/2019 14:15	ICP	0000016459GN5D4	WAG21501		2 GENG	0.3751196
13	2/06/2019	24/06/2019 14:15	ICP	0000016459GN5D4	WAG21501		2 GENG	0.7238806
14	8/06/2019	24/06/2019 14:15	ICP	0000016459GN5D4	WAG21501		2 GENG	0.4909901
15	9/06/2019	24/06/2019 14:15	ICP	0000016459GN5D4	WAG21501		2 GENG	0.3442878
16	14/06/2019	24/06/2019 14:15	ICP	0000016459GN5D4	WAG21501		2 GENG	0.0868237
17	15/06/2019	24/06/2019 14:15	ICP	0000016459GN5D4	WAG21501		2 GENG	0.4230781
18	16/06/2019	24/06/2019 14:15	ICP	0000016459GN5D4	WAG21501		2 GENG	0.0180147
19	22/06/2019	24/06/2019 14:15	ICP	0000016459GN5D4	WAG21501		2 GENG	0.0143754
20	23/06/2019	24/06/2019 14:15	ICP	0000016459GN5D4	WAG21501		2 GENG	0.5496353
21	21/06/2019	24/06/2019 14:15	ICP	0000026444GN10E	MTN23801	g1k	GNGC	0.9771846
22	2/06/2019	24/06/2019 14:15	ICP	0000026779GNAAE	LAB20201		2 GNVG	0.8732512
23	9/06/2019	24/06/2019 14:15	ICP	0000026779GNAAE	LAB20201		2 GNVG	0.5073804
24	13/06/2019	24/06/2019 14:15	ICP	0000026779GNAAE	LAB20201		2 GNVG	0.5738205
25	16/06/2019	24/06/2019 14:15	ICP	0000026779GNAAE	LAB20201		2 GNVG	0.109567
26	20/06/2019	24/06/2019 14:15	ICP	0000026779GNAAE	LAB20201		2 GNVG	0.2514842
27	23/06/2019	24/06/2019 14:15	ICP	0000026779GNAAE	LAB20201		2 GNVG	0.6952292
28	1/06/2019	24/06/2019 14:15	ICP	0000031266GN659	WAG21501	g1k	GNGC	0.6219791

DP1DETA

Changes to D+1 for GTAC/TACOS: Timing

- Validated injection data & GC will be available by **12pm** each day
- Validated customer data will be available by **12.30pm** each day
- GIC can therefore provide afternoon run by **1pm**
- Should we move the morning run earlier?
- For our future reference, if validated data is available early would people prefer GIC's D+1 run to be started earlier?

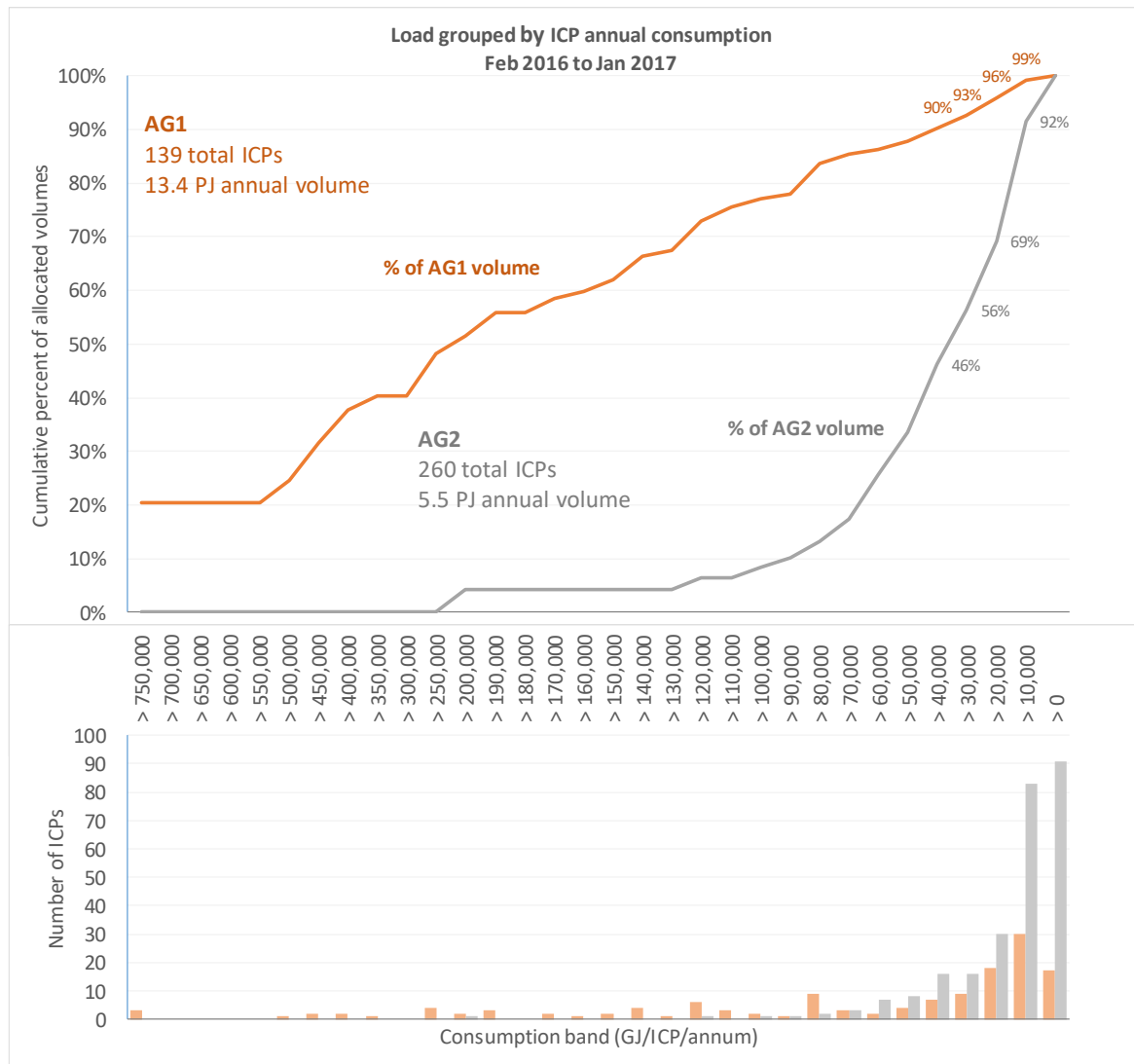
Changes to D+1 for GTAC/TACOS: Agreements

- Currently have:
 - VTC (First Gas <> shippers)
 - MBB D+1 Pilot Agreement (First Gas <> shippers)
 - D+1 Data Agreement (First Gas <> GIC)
 - DRRs/special allocations (GIC <> allocation participants)
- Will soon have:
 - GTAC
 - D+1 Data agreement
 - DRRs (but no need for specials)

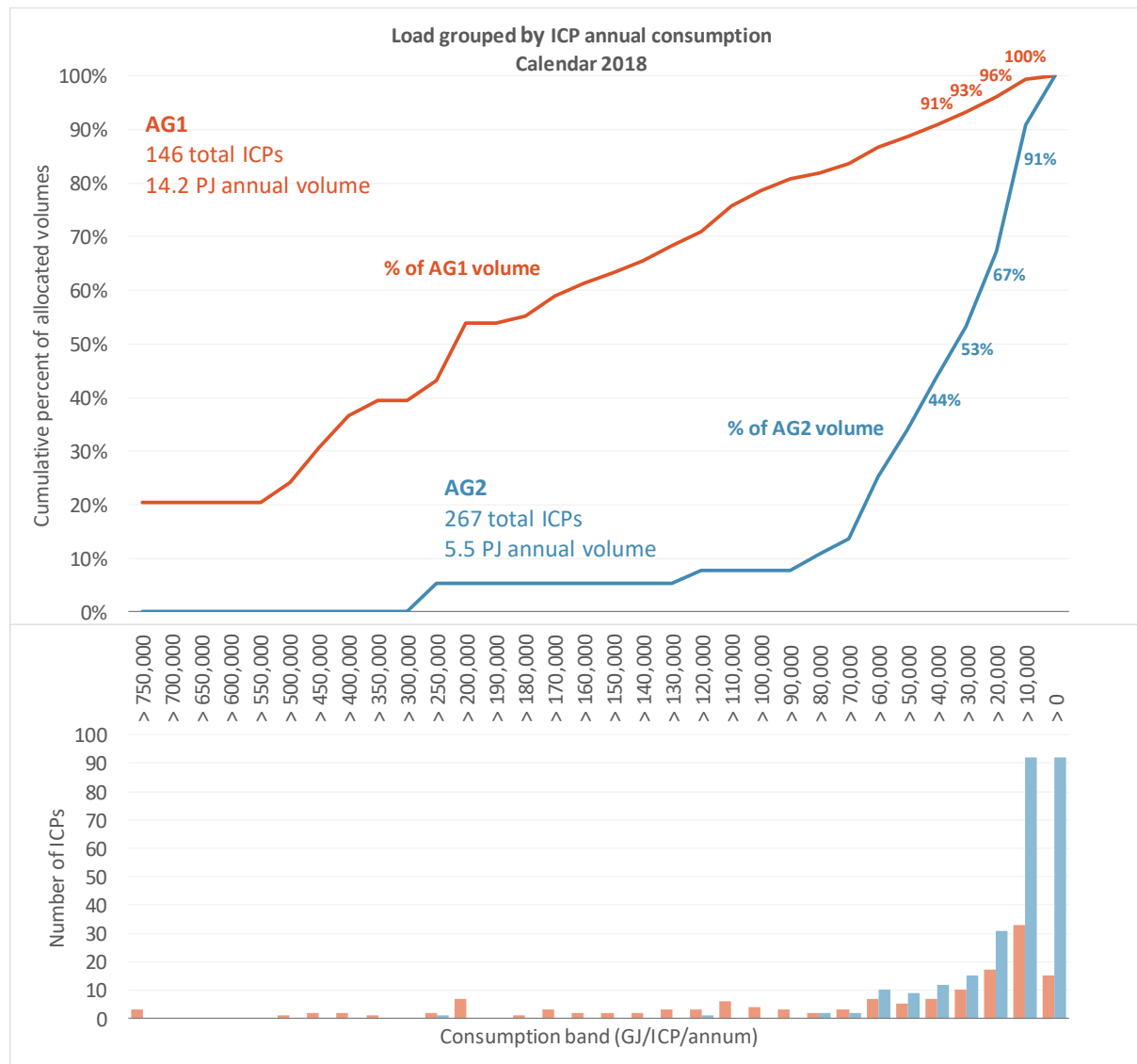
Threshold for new retailers

- Handful of new retailers popping up
 - Energy club ~ 80 ICPs/300GJ (May volume)
 - Hanergy ~ 40 ICPs/100GJ
 - Scholarship = 1 ICP/0.3GJ
- All currently ignored by D+1 model as they are lost in the noise
- BUT Energy club in particular is growing quickly
- What is a sensible threshold for inclusion in the D+1 model?
- Note that the volumes for these retailers are eventually reconciled correctly at the interim and final allocations

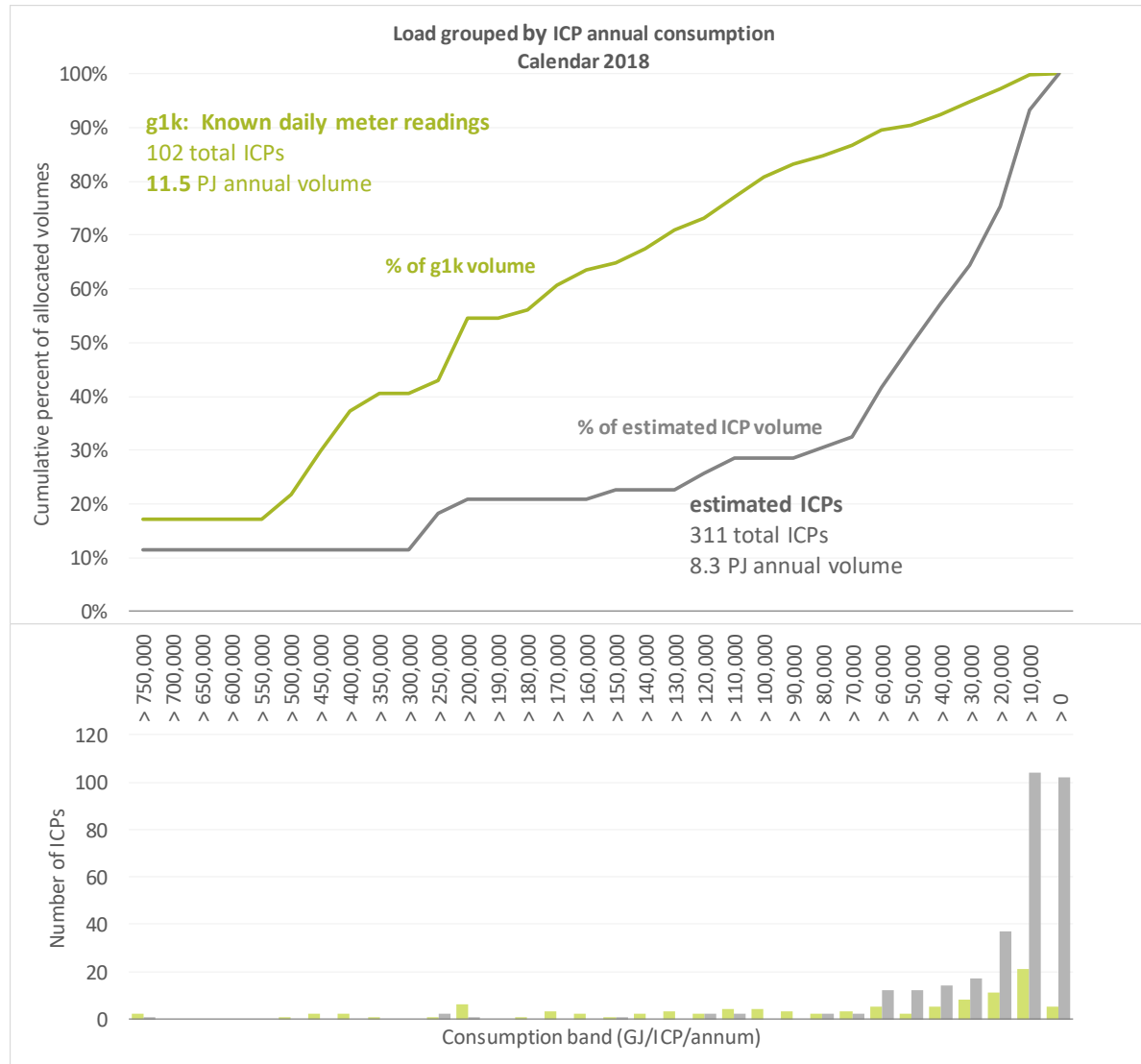
Telemetry requirements

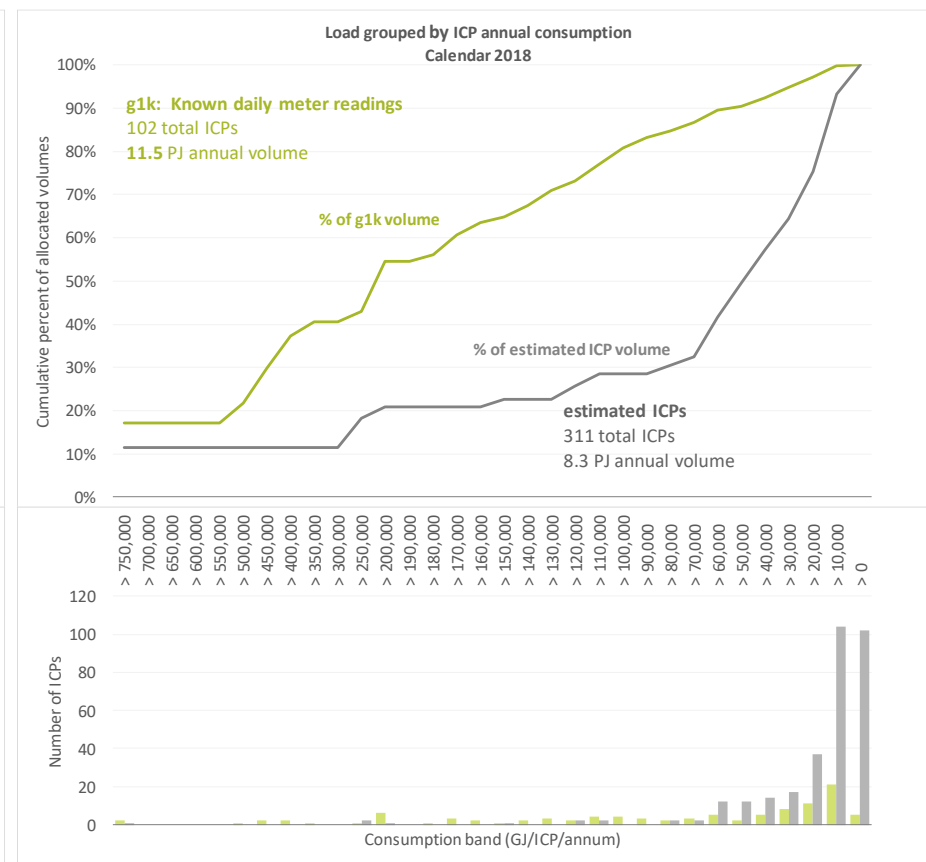
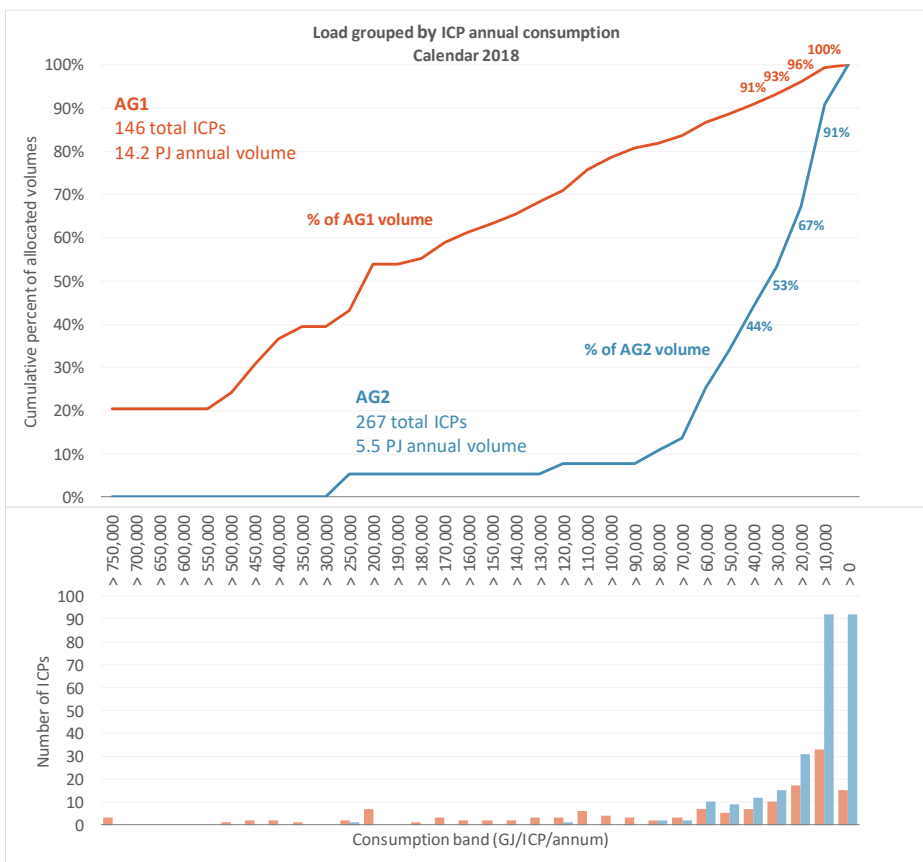


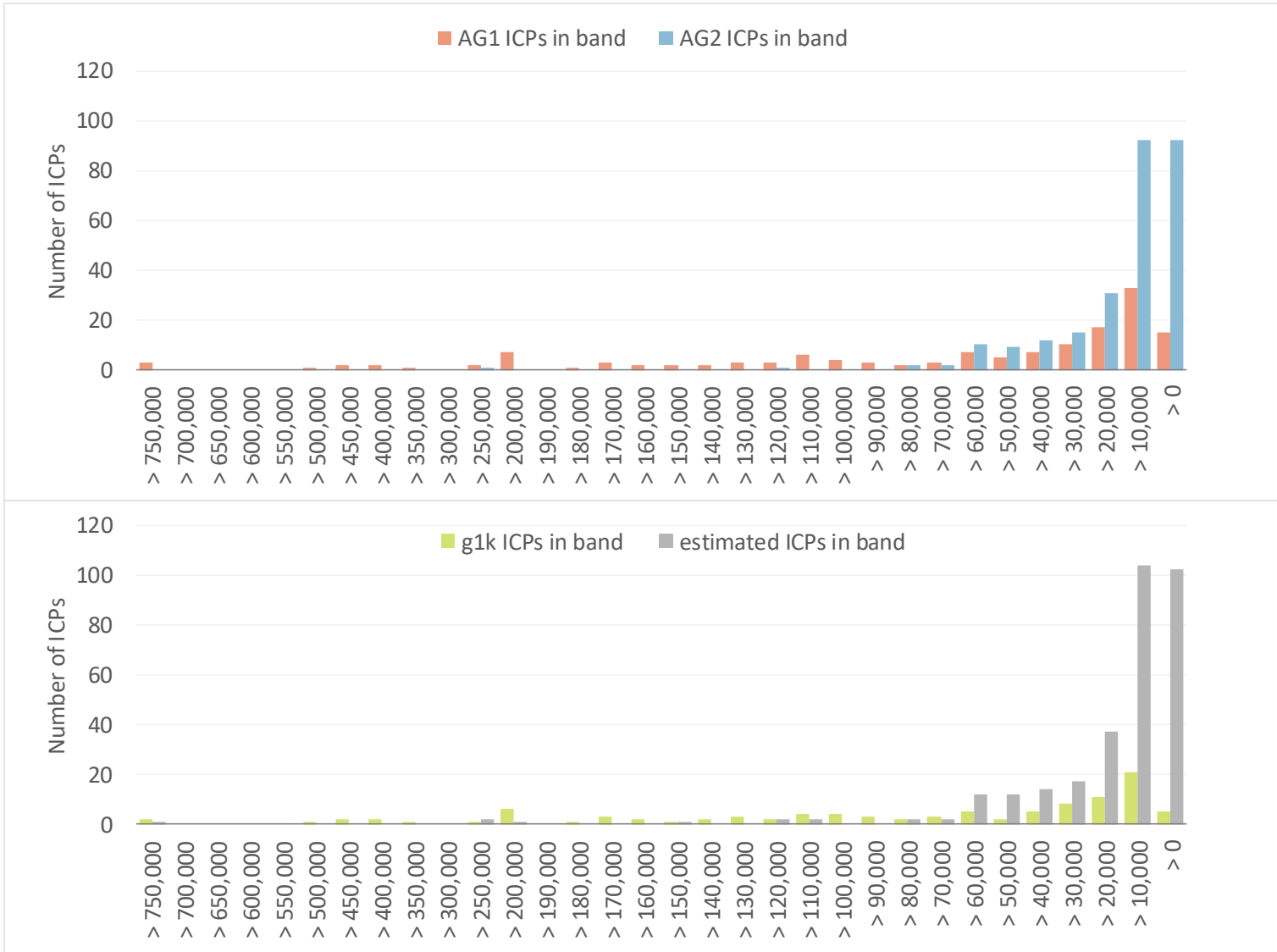
Calendar 2018: similar story



But not all telemetry is currently being used







Issues to consider

1. Threshold for telemetry
2. Requirement to provide daily data

Longer term plan for D+1

- GIC's initial view was that we could run a two stage rule-change process:
 - Stage 1: Add a telemetry threshold to the DRRs and a requirement to supply daily data where telemetry is installed
 - This would improve the accuracy of D+1
 - We assume this would require a reasonable transition time, hence doing it first
 - Stage 2: incorporate D+1 into the DRRs and formalise the D+1 system under a service provider agreement
- But before that we need to assess whether the D+1 model will continue to deliver value under GTAC – particularly as there will be a significant cost to building a formal production system
- How much time/experience do shippers need with GTAC?

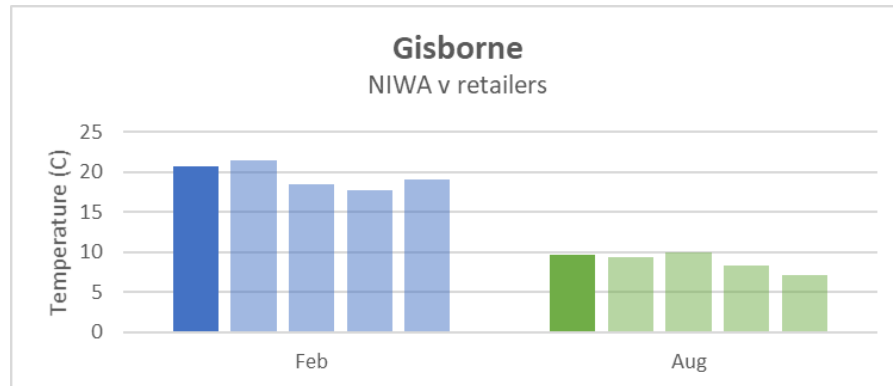
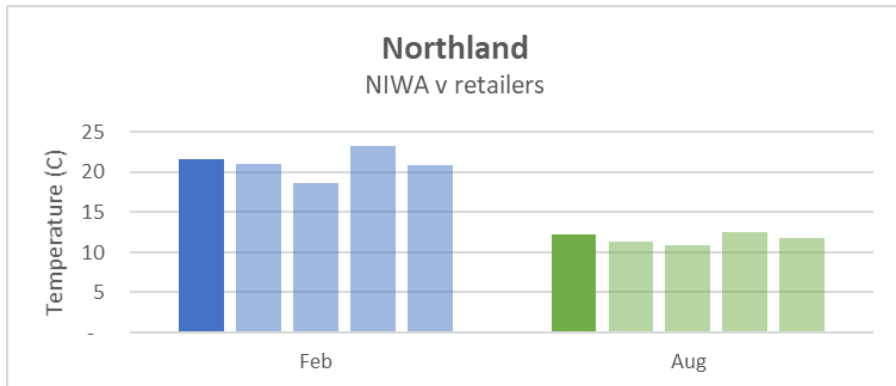
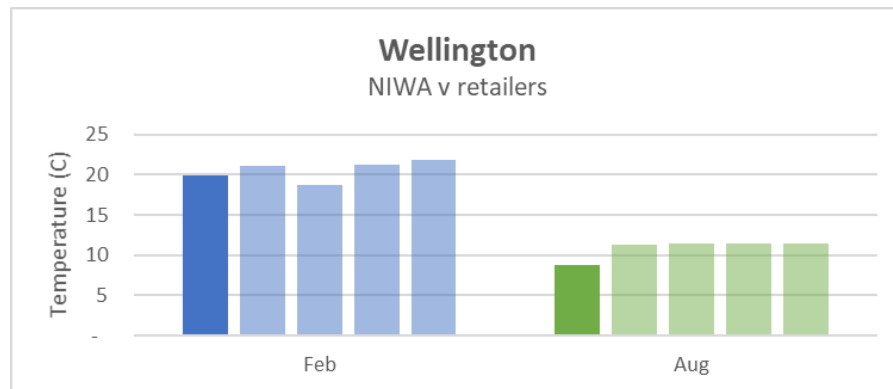
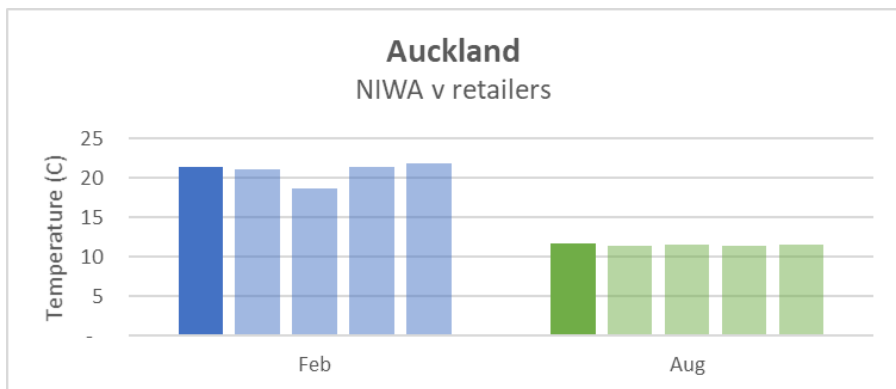
Industry temperature dataset

NIWA data isn't too different to what is being used already

NIWA temperature data compared with the temperatures currently used by some retailers

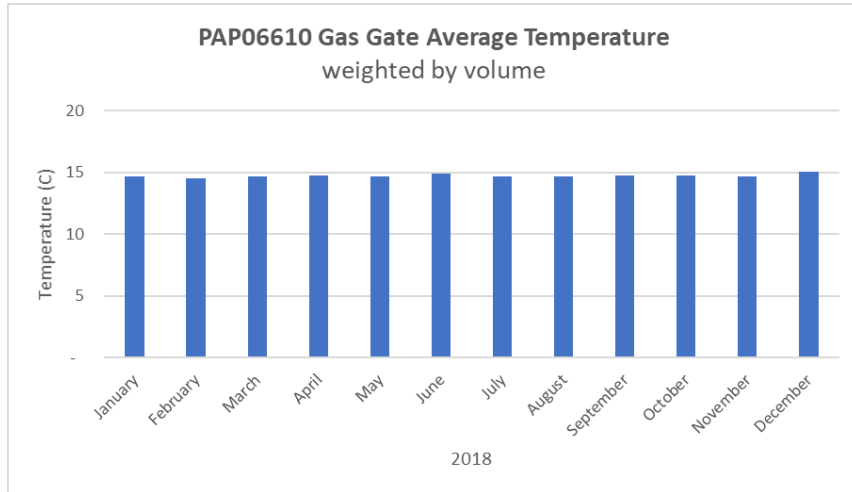
- NIWA temperature sourced from the weather station data supplied by published climatology reports (at 30cm)
- Retailer temperature data sourced directly from retailer or from audit reports

Note –for every 3°C error in temperature it results in a 1% conversion error (approximately)



Industry temperature dataset

Some gas gates are heated to a certain temperature and don't follow the expected seasonal pattern...



TOU temperature data varies widely or there aren't enough TOUs at a gate...

