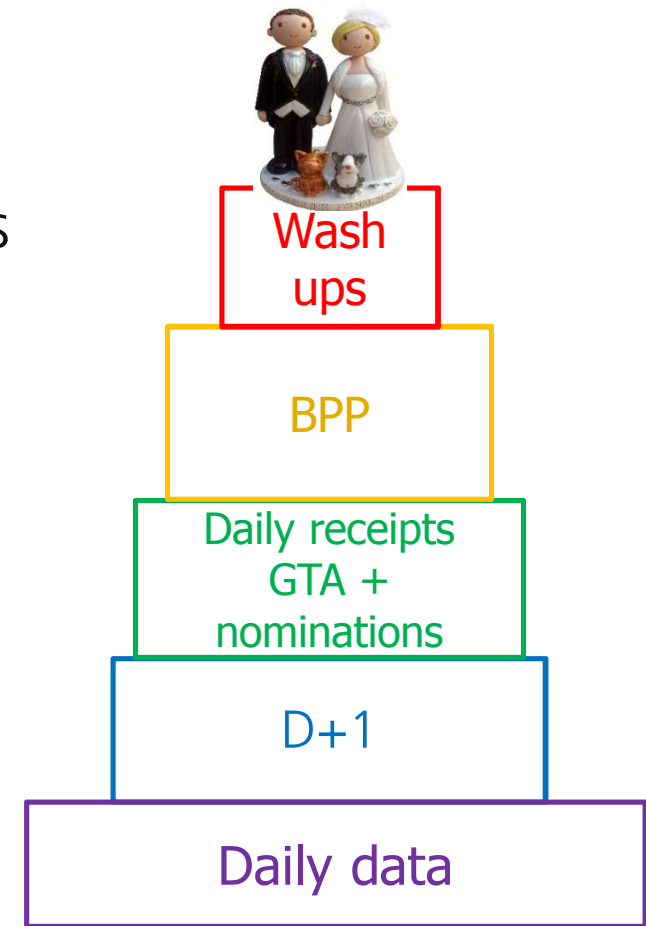




DAWG meeting
12 August 2015

Agenda

1. D+1
2. Daily receipts: GTA and nominations
3. BPP
4. Wash ups



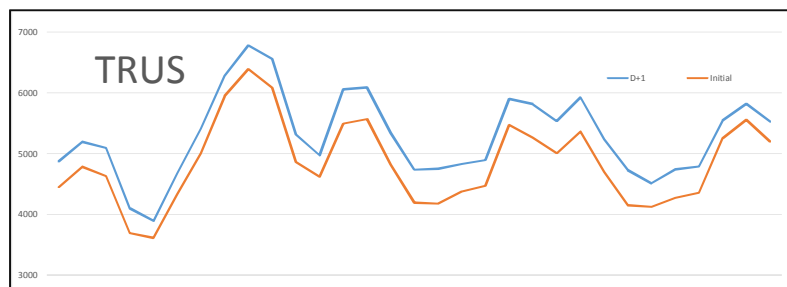
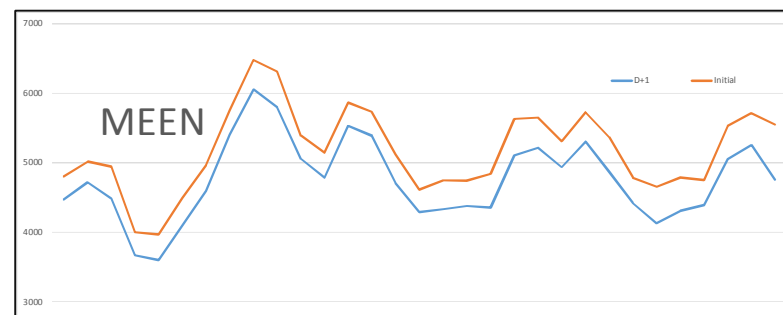
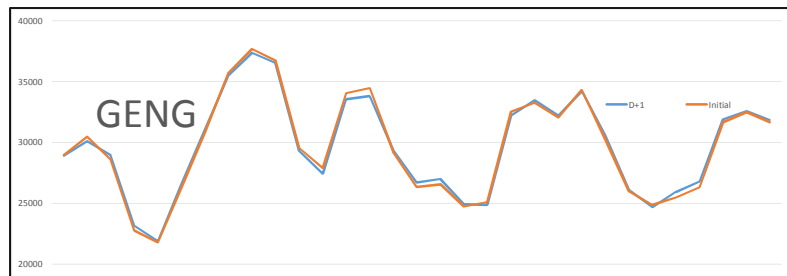
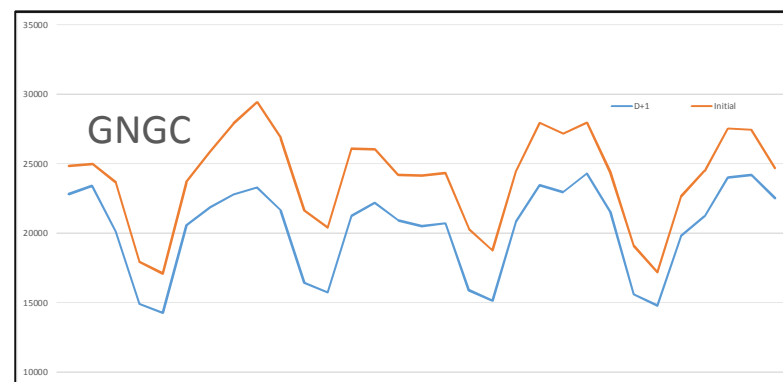
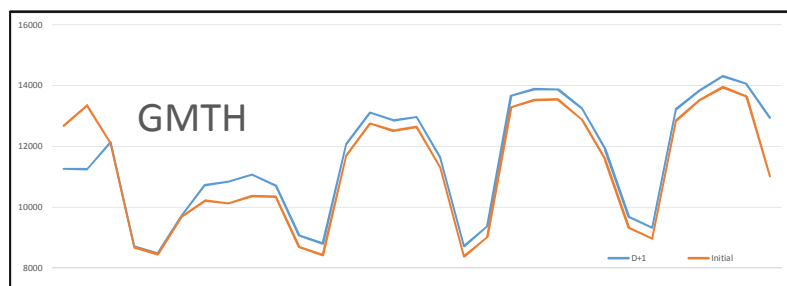
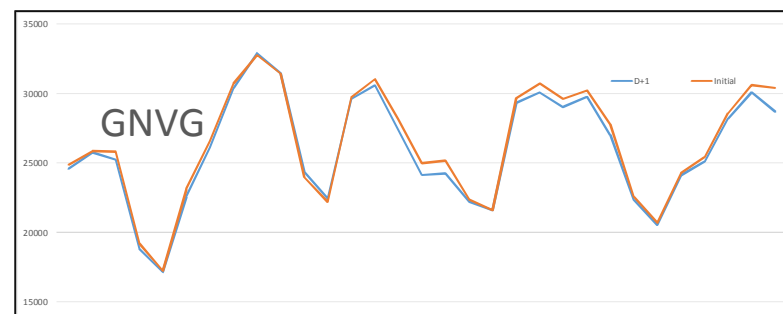
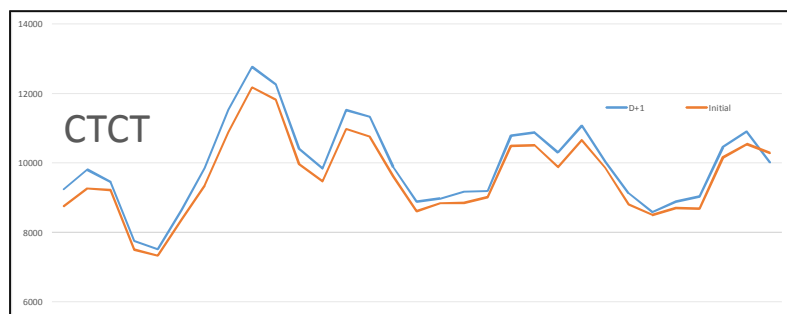
D+1: Status report

Achieved

- Daily D+1 results provided to shippers
- Accuracy of D+1 comparable to initial allocation
- D+1 now using July initial to allocate – but note will always be step change at beginning of month

In progress

- Analysis of July D+1 results against initial allocation
-

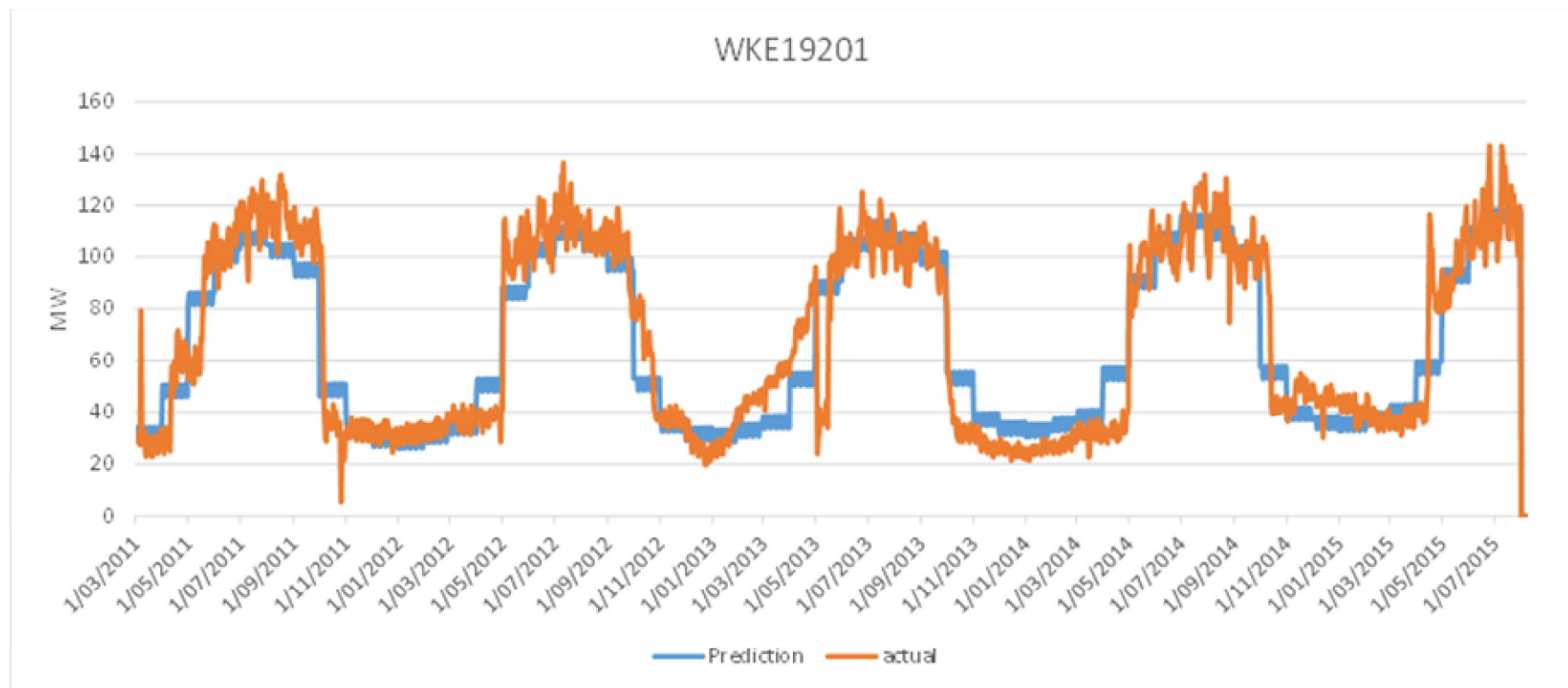


Relative comparison (different vertical scales)

Outstanding D+1 issues: Estimating direct connect gates

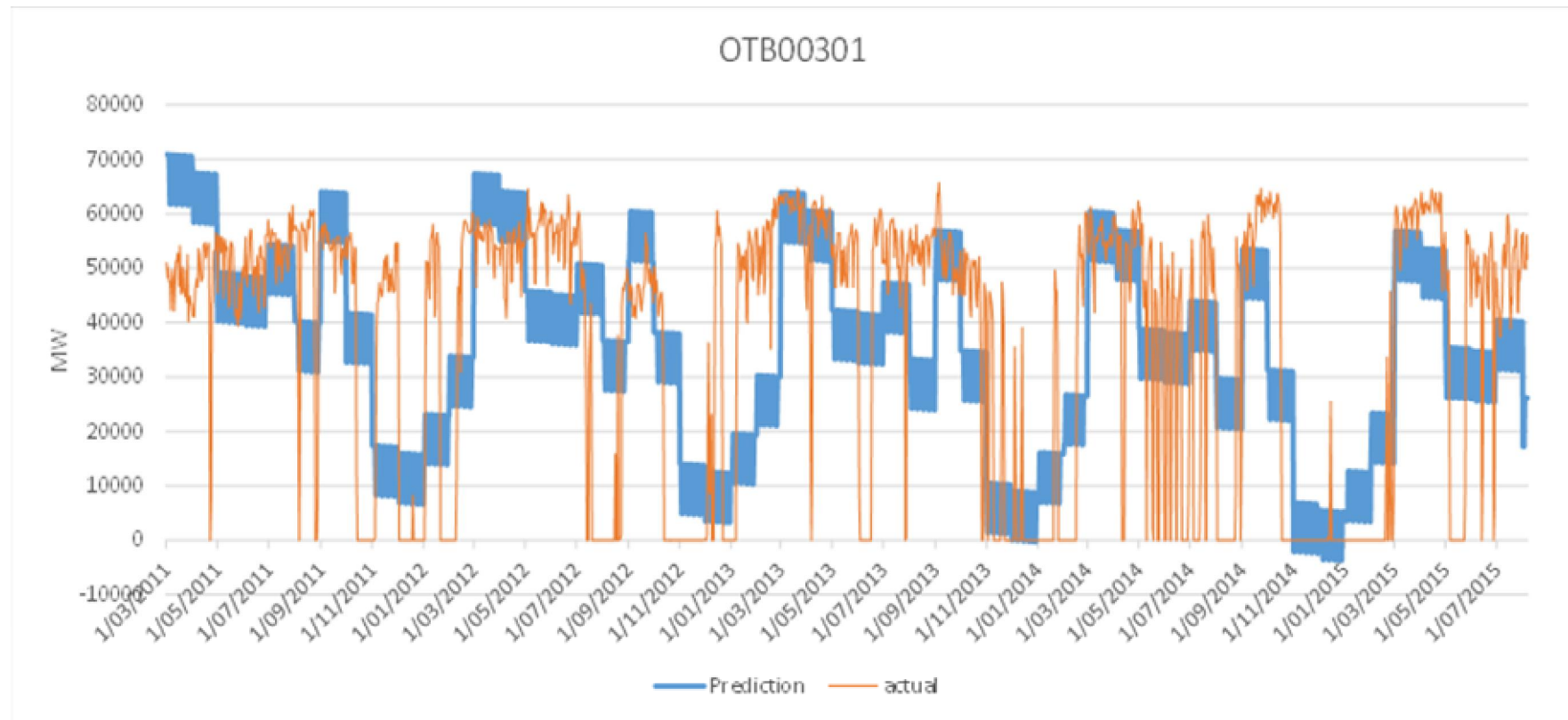
What to do when no injection information for direct connect gates?

Estimation works pretty well for some gates...

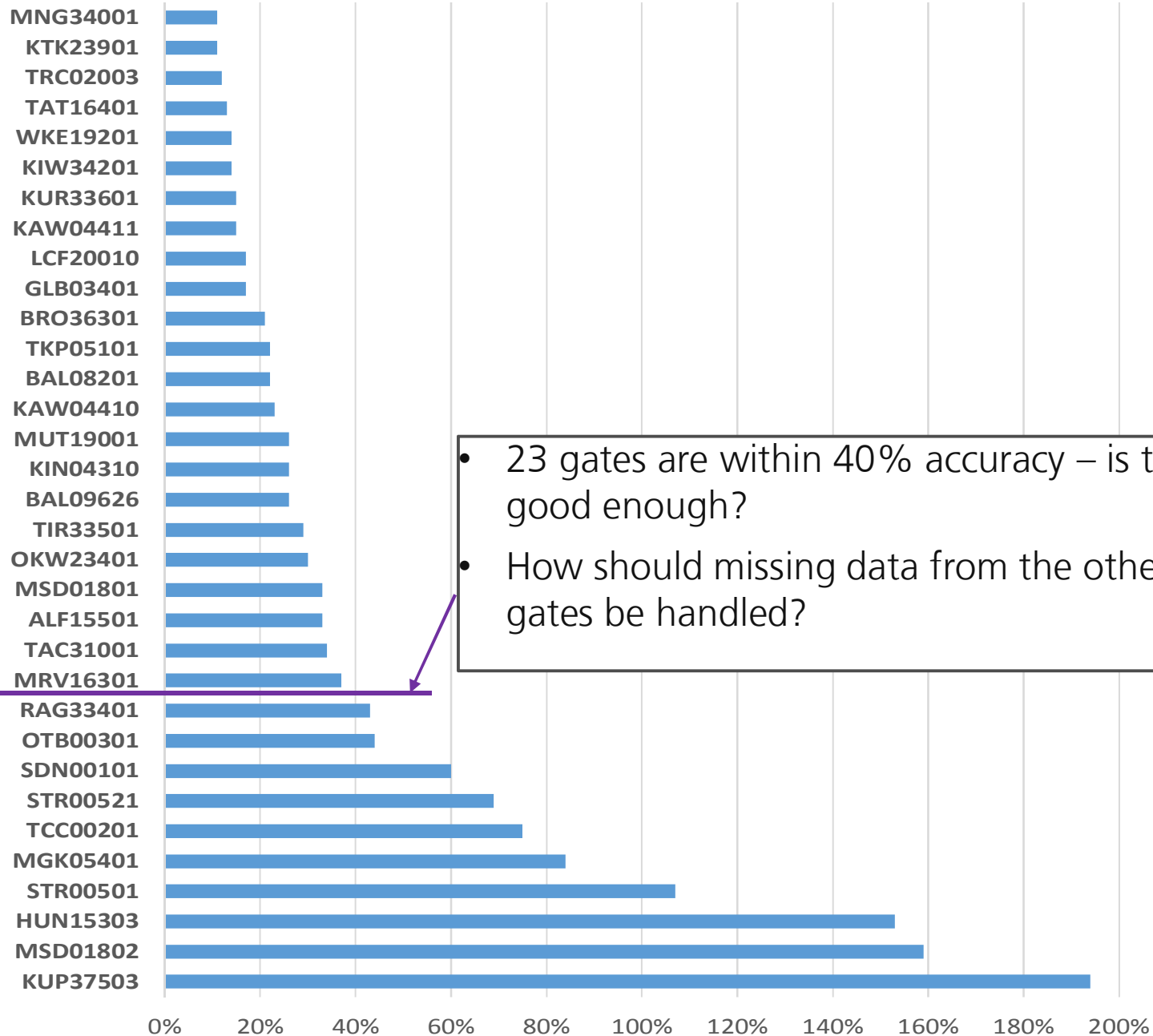


Estimating direct connect gates

...but not for others:



Accuracy of direct connect estimation



Outstanding D+1 issues: gas gate level allocations

Problem

Allocating mass market residual (calculated at pool level) to gas gates such that:

- Retailer allocations at each gas gate sum to the gas gate residual
- Gas gate allocations for each retailer sum to their D+1 allocation

	Retailer 1	Retailer 2	Retailer 3	Retailer 4
Gas Gate 1	558	72	419	877
Gas Gate 2	748	977	647	819
Gas Gate 3	98	862	202	877
Gas Gate 4	139	119	904	811
.....

has to sum to Gas Gate 2's residual for the day

has to sum to Retailer 2's D+1 allocation for the day

Outstanding D+1 issues: gas gate level allocations

Approach

- Starting with the smallest gas gate in the pool, allocate the gas gate's residual volume to retailers based on their volume market share at that gate at the previous initial allocation
 - Subtract the gas gate allocation from the retailers' D+1 allocations
 - The residual D+1 allocations are the opening positions for the next round
 - Continue until each retailer uses up its D+1 allocation, with the other retailers at the gas gate picking up the unallocated volume in each case
-
-

Outstanding D+1 issues: gas gate level allocations

Example

- Single day (30/07/15) on BOP pool (17 gas gates & 7 retailers)
- D+1 retailer allocations for the day:

CTCT	GENG	GNGC	GNVG	MEEN	PUNZ	TRUS
368	2227	195	2019	139	24	542

- Gas gate residual volumes for the day:

Gate	Residual
EGC30702	2
OKS32801	3
RPR30801	4
TTK30601	8
TIR33502	22

Gate	Residual
OPO32001	35
KAW04405	50
PTR32601	92
TPK33301	109
WHK32101	120

Gate	Residual
TKR19701	267
GTK19101	270
TAU07001	552
GIS07810	647
GMM08001	911

Gate	Residual
GTT07701	1044
ROT08101	1379

- By definition, both sets of data add up to the same total

Outstanding D+1 issues: gas gate level allocations

- Smallest gate is Edgecumbe: **2.39GJ** to allocate for the day
- June initial allocation result (monthly total) for EGC30702:

CTCT	GENG	GNGC	GNVG	MEEN	PUNZ	TRUS
5.768	6.925	0	42.377	0	0	0

- Apply same proportions to daily residual and subtract retailer allocations from their D+1 allocations:

	CTCT	GENG	GNGC	GNVG	MEEN	PUNZ	TRUS
Opening D+1 balance:	368.0407	2227.034	194.826	2018.67	138.8759	24.18244	542.3244
Pro rated gate residual	0.250531	0.300785	0	1.840629	0	0	0
Closing D+1 balance:	367.7902	2226.733	194.826	2016.83	138.8759	24.18244	542.3244

Outstanding D+1 issues: gas gate level allocations

- Repeat for other gas gates....

OKS32801	3.154594475	CTCT	GENG	GNGC	GNVG	MEEN	PUNZ	TRUS
Opening D+1 balance:	367.7902	2226.733	194.826	2016.83	138.8759	24.18244	542.3244	
D+1 res scaled to GAR070:	0	0	0	3.147081	0.007513	0	0	
Closing D+1 balance:	367.7902	2226.733	194.826	2013.682	138.8684	24.18244	542.3244	

RPR30801	3.570584955	CTCT	GENG	GNGC	GNVG	MEEN	PUNZ	TRUS
Opening D+1 balance:	367.7902	2226.733	194.826	2013.682	138.8684	24.18244	542.3244	
D+1 res scaled to GAR070:	0	1.880926	0	1.619134	0.070115	0	0.00041	
Closing D+1 balance:	367.7902	2224.852	194.826	2012.063	138.7983	24.18244	542.324	

TTK30601	7.695823884	CTCT	GENG	GNGC	GNVG	MEEN	PUNZ	TRUS
Opening D+1 balance:	367.7902	2224.852	194.826	2012.063	138.7983	24.18244	542.324	
D+1 res scaled to GAR070:	0.028968	7.487684	0	0.179172	0	0	0	
Closing D+1 balance:	367.7612	2217.365	194.826	2011.884	138.7983	24.18244	542.324	

TIR33502	22.46348593	CTCT	GENG	GNGC	GNVG	MEEN	PUNZ	TRUS
Opening D+1 balance:	367.7612	2217.365	194.826	2011.884	138.7983	24.18244	542.324	
D+1 res scaled to GAR070:	9.342538	7.733696	0	4.395246	0.947199	0.044808	0	
Closing D+1 balance:	358.4187	2209.631	194.826	2007.489	137.8511	24.13763	542.324	

OPO32001	34.59654161	CTCT	GENG	GNGC	GNVG	MEEN	PUNZ	TRUS
Opening D+1 balance:	358.4187	2209.631	194.826	2007.489	137.8511	24.13763	542.324	
D+1 res scaled to GAR070:	0.604808	4.627846	0	28.80861	0	0.444551	0.110724	
Closing D+1 balance:	357.8139	2205.003	194.826	1978.68	137.8511	23.69308	542.2133	

KAW04405	50.02285525	CTCT	GENG	GNGC	GNVG	MEEN	PUNZ	TRUS
Opening D+1 balance:	357.8139	2205.003	194.826	1978.68	137.8511	23.69308	542.2133	
D+1 res scaled to GAR070:	1.360522	13.55646	0	27.78164	0.141501	0.827834	6.354897	
Closing D+1 balance:	356.4533	2191.447	194.826	1950.899	137.7096	22.86525	535.8584	

PTR32601	92.4885501	CTCT	GENG	GNGC	GNVG	MEEN	PUNZ	TRUS
Opening D+1 balance:	356.4533	2191.447	194.826	1950.899	137.7096	22.86525	535.8584	
D+1 res scaled to GAR070:	6.849635	52.58617	0	23.39314	5.84542	0.249845	3.564339	
Closing D+1 balance:	349.6037	2138.861	194.826	1927.506	131.8642	22.6154	532.294	

TPK33301	108.7468447	CTCT	GENG	GNGC	GNVG	MEEN	PUNZ	TRUS
Opening D+1 balance:	349.6037	2138.861	194.826	1927.506	131.8642	22.6154	532.294	
D+1 res scaled to GAR070:	1.031795	32.80031	0	54.6126	1.421576	0.159744	18.72082	
Closing D+1 balance:	348.5719	2106.06	194.826	1872.893	130.4426	22.45566	513.5732	

WHK32101	119.7705924	CTCT	GENG	GNGC	GNVG	MEEN	PUNZ	TRUS
Opening D+1 balance:	348.5719	2106.06	194.826	1872.893	130.4426	22.45566	513.5732	
D+1 res scaled to GAR070:	2.673725	33.23566	3.702058	79.12277	0.385635	0.355063	0.295689	
Closing D+1 balance:	345.8982	2072.825	191.1239	1793.77	130.057	22.10059	513.2775	

TKR19701	266.8925589	CTCT	GENG	GNGC	GNVG	MEEN	PUNZ	TRUS
Opening D+1 balance:	345.8982	2072.825	191.1239	1793.77	130.057	22.10059	513.2775	
D+1 res scaled to GAR070:	21.5321	161.9161	3.160033	66.39645	8.291322	1.99628	3.600278	
Closing D+1 balance:	324.3661	1910.909	187.9639	1727.374	121.7657	20.10431	509.6772	

GTK19101	269.8044923	CTCT	GENG	GNGC	GNVG	MEEN	PUNZ	TRUS
Opening D+1 balance:	324.3661	1910.909	187.9639	1727.374	121.7657	20.10431	509.6772	
D+1 res scaled to GAR070:	28.03671	158.3548	3.038618	67.91072	4.474001	1.327635	6.661981	
Closing D+1 balance:	296.3294	1752.554	184.9253	1659.463	117.2917	18.77668	503.0153	

TAU07001	552.4006919	CTCT	GENG	GNGC	GNVG	MEEN	PUNZ	TRUS
Opening D+1 balance:	296.3294	1752.554	184.9253	1659.463	117.2917	18.77668	503.0153	
D+1 res scaled to GAR070:	70.125	178.9347	5.941928	260.7918	13.57021	5.982876	17.05416	
Closing D+1 balance:	226.2044	1573.619	178.9833	1398.671	103.7215	12.7938	485.9611	

....until something goes wrong....

Outstanding D+1 issues: gas gate level allocations

-allocations at Rotorua push 4 retailers over their D+1 volumes

ROT08101	1378.5925	CTCT	GENG	GNGC	GNVG	MEEN	PUNZ	TRUS
Opening D+1 balance:		71.44741	870.2215	88.73628	166.8967	52.34706	7.868609	121.0749
Pro rated gate residual:		86.92704	540.0676	83.2785	550.4321	73.69441	11.35652	32.83631
Closing D+1 balance:		-15.4796	330.1539	5.457781	-383.535	-21.3473	-3.48791	88.23864

- Retailers have to be capped at their D+1 volume so the unallocated amounts get re-allocated to the retailers with remaining D+1 residual

ROT08101	1378.5925	CTCT	GENG	GNGC	GNVG	MEEN	PUNZ	TRUS
Opening D+1 balance:		71.44741	870.2215	88.73628	166.8967	52.34706	7.868609	121.0749
Adjusted gate residual:		71.44741	870.2215	88.73628	166.8967	52.34706	7.868609	121.0749
Closing D+1 balance:		0	0	0	0	0	0	0

- All retailers get allocated their D+1 volumes and all gates get allocated their residual volumes

Outstanding D+1 issues: gas gate level allocations

- We will be testing this method in coming weeks to see what exceptions arise
- Email results to retailers?



Outstanding D+1 issues: D+1 as initial allocation

- GIC investigating options, will consult on preferred option
 - Purpose for transmission billing, so will need to replace GAR130 (Allocation information to transmission system owners)
 - Gas gate
 - Date
 - Shipper ID
 - Contract ID – we will need this
 - Delivered energy
 - Any other reports that will be needed?
-
-

GAR130

GAR010GAR070

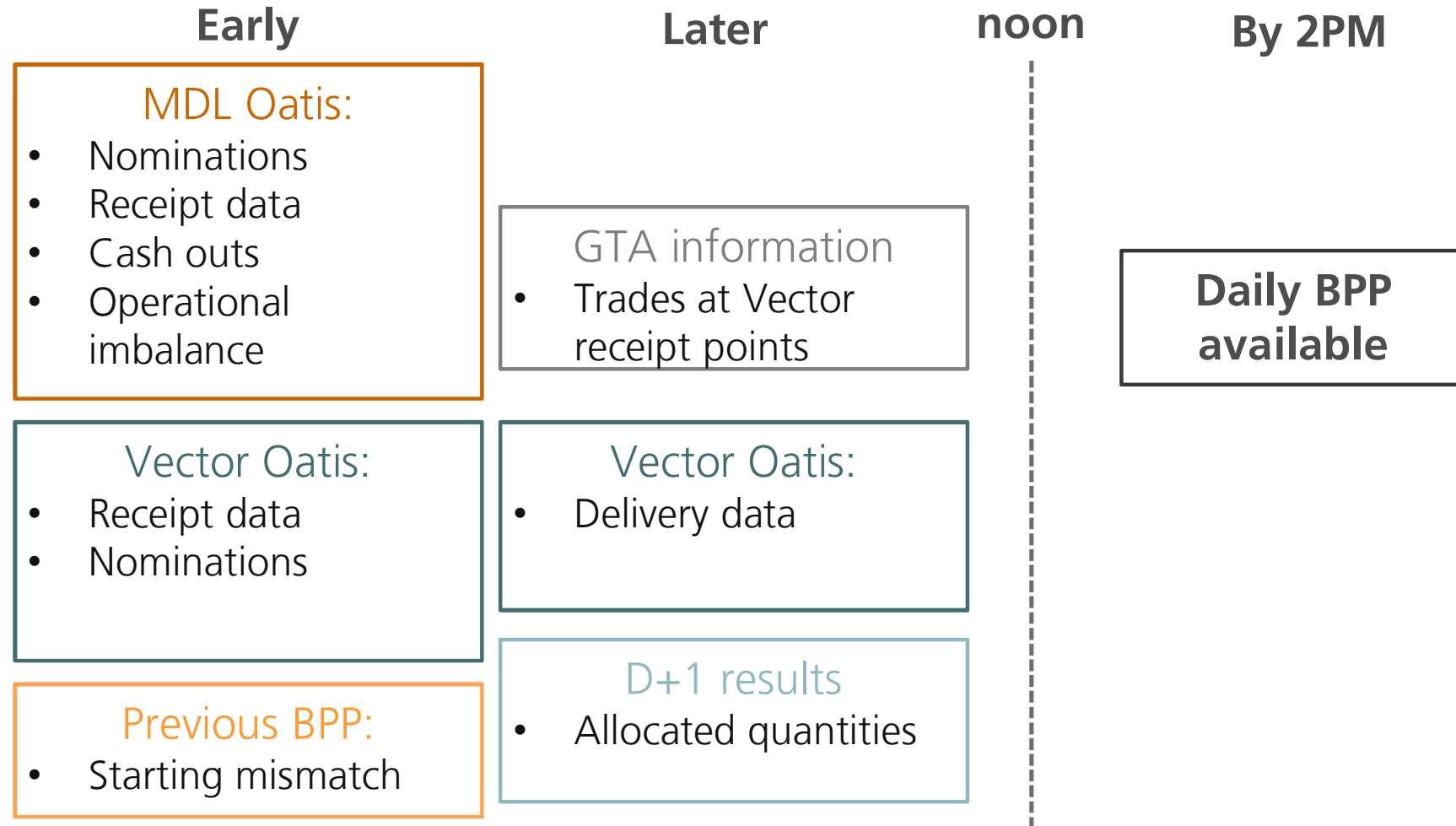
Outstanding D+1 issues: Other questions for discussion

- How should a submission of 0 for a ToU site be treated in D+1?
Accepted?
Or ignored and an estimate used instead?
 - What should happen on a day when no D+1 results?
(e.g., when Oatis data are unavailable, IT failures, etc.)
-
-

GTA and nominations: update from DAWG members



Daily BPP calculations -- based on validated data



BPP Calculations

- Will be done on data from previous day – no corrections for days earlier in the month
- Work progressing on IT to enable data access from Maui and Vector Oatis



Washups – further thoughts?

- GIC can calculate D+1 to Final differences (similar to rule 37 settlement process) – but we have no means of compelling payment



Next steps

GIC to release consultation paper about D+1 for Initial allocation

Next meeting:

Thursday 27 August, 10-12:30?

(note shipper meeting tentatively scheduled for that afternoon)
