



Technical Work Group

LDZ Aggregations

17th November 2015

- April 2015 TWG highlighted instance where sample numbers were lower than preferred minimum number of 30
 - EUC 3 - 4 WAR 4 for NO had a sample size of 18
 - Available aggregations would have paired LDZs that individually had strong sample sizes
- Request to revisit existing aggregations
- Work plan agreed July 2015 including:
 - TWG proposed that list of data aggregations for modelling should be reviewed in advance of Spring analysis to see what might be preferred/substituted

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- At the September TWG we presented slides:
 - showing current aggregations in the modelling system
 - there was no scope for new aggregations without replacing existing aggregations
 - Mod 428 (de-aggregation of supply points) will have an impact on sample numbers
- TWG agreed to reconsider data aggregations after reassessment of sample numbers

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Review of Sample Points

- AMR and Logger data for the gas year 2014/15 was collated and validated as per the existing rules.
- Sample number counts were then prepared in the same way as they are each Spring.
- The following slides shows all the updated sample numbers in Autumn 2015 compared to those collected in Spring 2015.

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Sample Numbers consumption bands

Band	Spring 2015	Autumn 2015	Difference	Sample level
1	2,984	2,910	-74	Individual, NW / WN
2	1,272	1,669	397	Individual, NW / WN
3	1,169	1,555	386	Individual, NW / WN & WS / SW
4	2,273	2,521	248	Individual, NW / WN
5	1,496	1,508	12	Individual, NW / WN
6	706	714	8	Individual, NW / WN
7 + 8	538	559	21	Individual, NW / WN & WS / SW & SE / SO
Total	10,438	11,436	998	

- Sample numbers are higher especially in the lower bands.
- Exception is band 1 which is slightly down but still more than sufficient for individual LDZ analysis

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- The reassessment showed that the number of sample points has gone up overall for bands 1-8 by 998.
- Sample numbers are higher especially in the lower bands. Individual LDZ analysis is possible in all the consumption bands with only a few Idzs needing combining
- The key reason is the de aggregation of supply points where contributing supply points when separated are boosting the lower bands
- This has also influenced the Band 3 and 4 WAR band numbers which triggered this investigation (see next slide)

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Small NDM Modelling Results

WAR Band Analysis: 293 to 2196 MWh pa

	WAR Banding											
	0.00 – 0.449			0.449 – 0.551			0.551 – 0.659			0.659 – 1.00		
	Spring 2015	Autumn 2015	Diff	Spring 2015	Autumn 2015	Diff	Spring 2015	Autumn 2015	Diff	Spring 2015	Autumn 2015	Diff
SC	84	86	2	128	161	33	131	158	27	45	31	-14
NO	38	37	-1	62	87	25	57	70	13	18	38	20
NW / WN	81	89	8	105	128	23	95	137	42	91	75	-16
NE	60	61	1	73	101	28	66	87	21	41	39	-2
EM	61	74	13	88	112	24	98	110	12	64	81	17
WM	62	72	10	83	94	11	90	107	17	87	88	1
WS / SW	41	54	13	72	77	5	61	76	15	58	58	0
EA	45	56	11	100	129	29	128	166	38	67	63	-4
NT	91	110	19	118	137	19	107	137	30	70	70	0
SE	70	99	29	119	161	42	123	138	15	80	72	-8
SO	51	68	17	83	103	20	75	106	31	75	73	-2

- NO WB4 Sample numbers are now sufficient as 18 has increased to 38
- Note: the WAR band ranges have not been reassessed in this comparison and do not reflect the 20%:30%:30%:20% target proportions (they are 19.8%:31.6%:31.7%:16.9%)

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- Xoserve recommends that no changes are made to the existing aggregations for the Spring 2016 analysis.
- The existing concern with low number in the Band 3&4 WAR bands has been alleviated with the increase of sample numbers due to de-aggregation of supply points.
- The following two slides provide a reminder of the existing aggregations

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Historic Aggregations

- Pre-existing aggregations

Used each year			
Individual LDZ	NW / WN	WS / SW	National (all 13 LDZs)
SC / NO / NW / WN	NE / EM / WM	SC / NO / NW / WN / NE / EM / WM	
WS / EA / NT / SE / SO / SW			
Used 2014 and were a tested aggregation in 2015			
EA / NT / SE	WS / SO / SW	NO / NW / WN	
Existing aggregation but not used recently			
SC / NO / NE		NW / EM / WM / WN	

- Aggregations should be geographically sensible groups
- Should work with other groupings to define a rule for all 13 LDZs for an EUC

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New aggregations from Spring 2014

- Spring 2014 new combinations

Used / tested in 2014 and 2015

EA / NT

SE / SO

EM / WM

NO / NE

Added in Spring 2014 but never used

SC / NO

NE / NW / WN

EA / NT / SE / SO

- Aggregations should be geographically sensible groups
- Should work with other groupings to define a rule for all 13 LDZs for an EUC




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