Allocation of Unidentified Gas Expert

Revised AUGS Review

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Agenda

- Introduction
- Updates to AUG Statement since first draft
  - Terminology
  - Updated datasets
  - Extrapolation of Smart meter population/AQ to forecast year (inc Mod0625)
  - CSEP shrinkage
  - Other Updates
    - Uniformly allocable UG term
    - Additional clarifications to AUG Statement text
- Summary of changes to UIG Weighting Factors Table
- Status of other issues
  - Theft, Conversion Factors, failed consumption estimates, UG from PC2
- What next?

Introduction

- First draft AUG Statement
  - Published 1 Feb 2018
  - Presented 9 Feb 2018
- Query Process
  - 1 Feb to 14 March
  - AUG Expert responses published 10 April
  - Presentation and review of responses 17 April
  - Revised AUG Statement published 30 April
- Aim
  - Present/discuss revised AUG Statement prior to May UNCC vote

Terminology

- Terminology
  - Refer to Xoserve as CDSP
  - Use of SSP/LSP
  - Confusing use of UG terminology
  - TRAS data vs SPAA Theft of Gas Report

Updated Datasets

- Data received since first draft
  - CSEP invoicing data
  - Unregistered sites on known CSEPs
  - Smart Meter installation for SME sites from small suppliers (ICoSS)
  - Network models (Cadent)

- Data outstanding
  - GSR visit information
  - Query regarding 2012 CSEP AQs

Smart Meter & AMR Populations

- Smart Meter Population Assumptions
  - Updates to methodology in revised AUGS for 2018/19
    - Use of mid-year estimate of population
    - Use of trend to estimate population quarterly
    - Additional data from small suppliers (provided by ICoSS)
    - Inclusion of pre-SMETS Smart Meters

- Mod 0625
  - Principles applied to forecast year populations
  - All relevant sites transferred to PC2

- More accurate picture of meter population and AQ for forecast year

CSEP Shrinkage

- Graphical Based Network Analysis (GBNA) software used by Cadent for network validation.
- Network models contain a representation of each network
  - All demands
  - All pipes
- Extract data from CSEP-style network sections
  - Select geographically by polygon
  - Number of sites and mains length in polygon
- Sample of 25 networks used

- Final output: 8.6m per customer

CSEP Shrinkage

- Customer numbers for CSEPs are known
- Use "mains length per customer" figure to estimate total mains length
- Use NLT leakage rates to calculation CSEP leakage

- Final output: 12.2GWh
  - Approx 0.55% of Shrinkage is from CSEPs

- If in future the SLM is updated to include CSEPs, CSEP Shrinkage will be excluded from AUG methodology

Other Updates

- Text/commentary
  - Commentary on changes in factors from previous AUG year
  - Step-by-step guide to Balancing Factor split calculation
    - Figures at each step

- Uniformly allocable UG term
  - Currently set to zero

Updated UIG Weighting Factors

First Draft UIG Factors*

Supply Meter Point Classification	Class 1	Class 2	Class 3	Class 4
EUC Band 1	0.19	41.58	44.35	91.44
EUC Band 2	0.19	41.58	43.65	100.17
EUC Band 3	0.19	41.58	44.39	101.69
EUC Band 4	0.19	41.58	41.93	42.84
EUC Band 5	0.19	41.58	43.58	41.30
EUC Band 6	0.19	41.74	43.58	42.12
EUC Band 7	0.19	31.51	43.58	41.80
EUC Band 8	0.19	4.46	31.36	41.14
EUC Band 9	0.19	0.19	0.19	0.19

* Multiplied by 10 to allow comparison with revised factors

Revised UIG Factors

Supply Meter Point Classification	Class 1	Class 2	Class 3	Class 4
EUC Band 1	0.22	42.25	43.69	94.01
EUC Band 2	0.22	42.25	44.61	104.08
EUC Band 3	0.22	42.25	42.58	105.90
EUC Band 4	0.22	42.25	42.05	43.38
EUC Band 5	0.22	42.25	43.23	42.11
EUC Band 6	0.22	42.71	43.23	42.34
EUC Band 7	0.22	31.98	43.23	42.02
EUC Band 8	0.22	4.56	31.13	41.94
EUC Band 9	0.22	0.22	0.22	0.22

Change in UIG Weighting Factors

Supply Meter Point Classification	Class 1	Class 2	Class 3	Class 4
EUC Band 1	0.03	0.66	-0.66	2.56
EUC Band 2	0.03	0.66	0.96	3.91
EUC Band 3	0.03	0.66	-1.81	4.21
EUC Band 4	0.03	0.66	0.12	0.54
EUC Band 5	0.03	0.66	-0.35	0.81
EUC Band 6	0.03	0.97	-0.35	0.22
EUC Band 7	0.03	0.47	-0.35	0.22
EUC Band 8	0.03	0.10	-0.23	0.81
EUC Band 9	0.03	0.03	0.03	0.03

Updated UG Estimates

First Draft UG (GWh)

Supply Meter Point Classification	Class 1	Class 2	Class 3	Class 4
EUC Band 1	0.0	0.0	4.1	3,002.0
EUC Band 2	0.0	0.0	2.5	271.6
EUC Band 3	0.0	0.0	3.6	211.9
EUC Band 4	0.0	0.3	0.3	103.7
EUC Band 5	0.0	1.4	0.0	70.5
EUC Band 6	0.0	10.3	0.0	58.5
EUC Band 7	0.0	14.3	0.0	44.2
EUC Band 8	0.0	4.9	0.0	31.8
EUC Band 9	0.9	0.0	0.0	0.0

Revised UG (GWh)

Supply Meter Point Classification	Class 1	Class 2	Class 3	Class 4
EUC Band 1	0.0	0.0	3.9	3,001.7
EUC Band 2	0.0	0.0	2.5	274.5
EUC Band 3	0.0	0.0	3.3	214.7
EUC Band 4	0.0	0.3	0.3	102.1
EUC Band 5	0.0	1.4	0.0	69.9
EUC Band 6	0.0	10.2	0.0	57.2
EUC Band 7	0.0	14.1	0.0	43.2
EUC Band 8	0.0	4.9	0.0	31.5
EUC Band 9	1.0	0.0	0.0	0.0

Status of Other Issues

- Theft
  - In discussions to obtain additional theft data via TRAS
  - Detailed assessment for 2019/20 AUG year
- Conversion Factors
  - Reviewing data available from CDSP
  - Will explore additional external data sources e.g. OS
- Review of Replacement Consumption Values approach
- UG from Product Class 2 (Former DMV/DME sites)
  - Feasibility study carried out
  - Full study for 2019/20 AUG year

What Next?

- Questions/Feedback?
  - AUGE.software@dnvgl.com
- Approve AUG Statement
  - May UNCC Meeting
- Publish Final Table by 30 June 2018
- Next Year!!

Thank you

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