

UFE Focus Group Meeting #3

31 January 2022

Welcome & Housekeeping

- Welcome
- Housekeeping
 - These meetings will be recorded for minute-taking purposes
 - Please keep yourself on mute when you are not speaking
 - Feel free to use the chat or come off mute should you have any questions or comments
 - Questions which cannot be answered on the day will be captured and answered asap
 - We will endeavour to circulate 'Notes' within a week of the focus groups
 - Actions will be captured, shared and completed as required
 - Any questions, concerns or suggested agenda items can be sent to <u>GSMSDR@aemo.com.au</u>



Agenda

NO	AGENDA ITEM	RESPONSIBLE
1	Welcome	Greg Minney
2	 Key Issues 5 minute Load profile update Metering Data delivery 	David Ripper Paul Lyttle
3	Progress Since Go-Live- • Grid Profiles and Local Area Review	Darren Gatty
4	Short-term Priorities • Participant lead population activities	Paul Lyttle
5	 Discussion Topics: Approach to embedded networks (Post RWG) - Rule Update material Outline of items that contribute to UFE Approach to off market settlement Off market settlements in GS environment 	David Ripper Greg Minney Greg / David
6	GS Go-Live Approach	Greg/ Paul
7	Next Steps and General Business	Greg Minney

Key Issues

David Ripper



Key Issues – 5MLP Spikes

- 5MLP profiles are continuously monitored for negative 5MLP values and spikes in profiled values.
- Weights were adjusted on 21 December 2021 for profile areas UMPLP (SA) and ENERGEX (QLD)
 effective 1 Oct 2021. The list of system load NMIs that have weighting applied has been
 published on the AEMO website.
- Following a review of 5MLP values in profile area TXU (VIC) and subsequent confirmation of actual metering data for system load NMIs, weights were adjusted on 24 January 2022, effective 1 Oct 2021. The updated list of system load NMIs that have weighting applied has been published on the AEMO website.
- Monitoring of 5MLP values indicate some negative values still remaining in UMPLP (SA) for four days in December (25-28 Dec 2021) due to system load NMIs that have weighting applied having zero actual values on these days, requiring a further adjustment to the weights.
- Negative 5MLP values have also been identified for a single day in profile area
 COUNTRYENERGY. This is currently being verified and weights will be adjusted as required.



Key Issues – Metering Data Quality

- AEMO continues to work with MDPs to ensure all essential NMIs are providing 5 minute reads
 - Still have issues with replacement reads not being 5 minute intervals.
- Current metering data analysis shows a significant improvement in meter read quality
 - However there remains a level of fluctuation during the Preliminary settlement run
 - This generally appears to be corrected in the Final settlement run
- AEMO continues to monitor metering data as part of the standard settlement calculation processes



Progress Since Go-Live

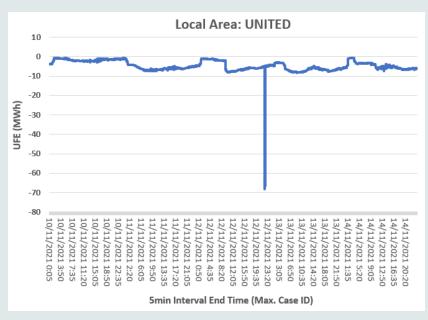
Darren Gatty



Progress Since Go-Live

- The ENERGEX Local Area TNI QMGL where there was previously TME calculated with no ADME values had NMIs identified which are incorrectly against the TNI QMGB
- Energy QLD is in the process of arranging for them to be transferred to the correct TNI, some ADME is now being recorded on this TNI
- The negative UNITED spike included shown in the above right chart from the previous FG presentation was identified as being caused by a single incorrect 15 minute read on a single NMI
- This has now been corrected by the MDP, as per chart below right

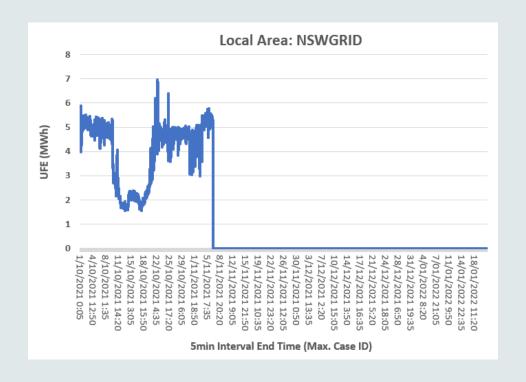


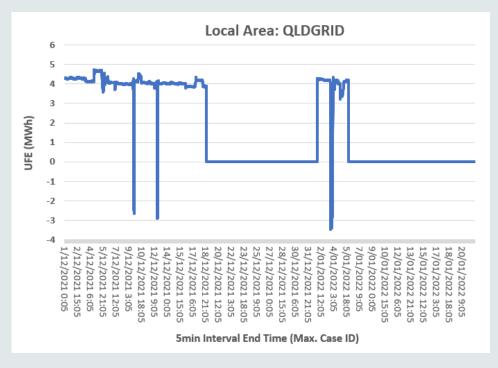




Progress Since Go-Live – Grid Areas

- The NMI configurations resulting in UFE values in the NSWGRID and QLDGRID Local Areas have now been resolved, leading to zero UFE calculations now occurring in all *GRID LA's
- NSWGRID was tested and resolved last year, while QLDGRID was completed this year only, so still has more
 periods showing non-zero UFE, which will disappear with the future final/revision runs for those dates







Short-term Priorities

Paul Lyttle, Greg Minney & Darren Gatty



Short-term Priorities

- Monitoring Delivery of 5 minute reads for Essential NMIs
- Monitoring Tranche 1 meters currently not delivering 5 minute reads
- Monitoring Basic Datastream registration
- Investigating any abnormal UFE spikes
- Working with Participants to update and register BULK and XBOUNDRY connection points



Participant Lead Data Population

- Participant population activities to allow for reflective calculation of UFE
 - All active tier 1 Basic NMIs to deliver metering data to AEMO
 - Quantity of outstanding meters for each Profile Area
 - Creation, Activation and data delivery for non contestable unmetered loads
 - Quantity of active NMIs for each Profile Area
 - Implementation of cross boundary meters to reflect distribution area to distribution area flows
 - Numbers broken into:
 - Standing data completed and providing Meter data
 - Standing data requires updating, meter data being provided (should not impact UFE calculation)
 - NMIs have been advised but not registered or providing meter data (assume majority are low impact and scheduled for Feb completion)



Participant lead population activities Current Status

Profile Area	Tier 1 Basic Meter with No Active Datastreams	NCONUML NMIs (Completed)	X-Boundary supplying PA	Commentary
ACTEWAGL	147	32	0 + 0 + 0	
AURORA	4	1965	0 + 0 + 0	
CITIPOWER	9	5624	0 + 0 + 17	
COUNTRYENERGY	1	6305	1 + 10 + 0	
ENERGEX	3	32905	4 + 0 +0	
ENERGYAUST	3	200	6 + 3 + 0	
ERGON1	0	9847	0 + 2 + 0	
INTEGRAL	3	7639	13 + 0 + 0	
POWERCOR	47	9166	4 + 0 + 6	
TXU	3	6074	4 + 3 + 4	
UMPLP	6	9495	2 + 0 + 0	
UNITED	4	8840	2 + 1 + <mark>21</mark>	
VICAGL	83	2924	3 + 1 + 0	

Participant Lead Data Population Summary

- Planned Non contestable unmetered load activity completed with metering data delivered
- Tier 1 Basic metering data:
 - Essentially complete, with final cleanup activity in progress
 - Majority of areas with < 10 NMIs active with no active data streams
- Cross Boundary meters
 - Finalisation of setup for NMIs advised but not registered expected by end Feb
 - Cross boundary flows impact UFE allocation between areas.

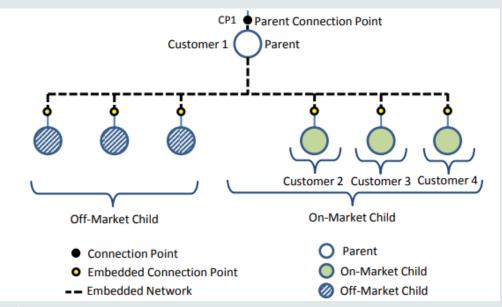


Discussion Topics



Embedded Network Settlement under Global Settlement

- Settlement approach to Embedded Network NMIs was considered a component of the Final Determination for Global Settlement (section 6.2)
 - https://www.aemc.gov.au/sites/default/files/2018-12/Global%20Settlement%20and%20Market%20Reconciliation%20-%20For%20publication.pdf
- Key Principles:
 - Embedded Networks continue to be settled via Settlement by difference
 - Off Market NMIs are not visible to the settlement process and are accounted for via the parent connection point
 - The settlement by difference calculation will net off the on market child NMIs against the parent connection point
 - Global Settlements, including the allocation of UFE will be applied to the parent connection point (based on the net connection point load) and all on market child NMIs in the embedded network





Components of UFE to be addressed by Industry

- Initial establishment of UFE by local distribution area has required the provision of extra data to that previously utilised in settlement by difference:
 - All tier 1 basic metering data
 - Establishment of profiles for non contestable unmetered loads not previously addressed
 - Additional metering of energy flows between distribution areas (cross-boundary meters)
- Once established underlying UFE (which can be surplus or deficit) is represented by:
 - Unaccounted for technical losses, the difference between estimated losses as per DLFs and actual losses in the distribution network
 - Commercial Losses, including theft, malfunctions in meters, unrecorded unmetered loads etc
 - Estimation errors associated with the profiling aspects of the settlement process:
 - Calculation of 5 minute load profile for 30 minute interval meters
 - Profiling of accumulation meters
 - Profiling / calculation of unmetered loads
- Underlying UFE will be the focus of ongoing Industry management based on identified trends and benchmarks as reported by AEMO



Approach to "Off Market" settlement in GS environment

- Discussion points included following Industry questions regarding off market settlement operation post Global Settlement
- Current framework operates on basis that post Rev 2 AEMO provides data analysis but does not mediate between parties for Off Market Settlements
 - In current settlement by difference these are typically bi-lateral.
 - Settlement policies support on market updates within time limits stipulated in NER 3.15.18 (disputes 6mths post billing week) where participant impacted by > 5% (NER 3.15.19)
- Global Settlement is likely to result in more complicated and challenging scenarios given the number of participants potential impacted by an identified issue
- AEMO intends to work with Industry to consider:
 - Application of current framework within current timeframes and levels of exception
 - Challenges to off market scenarios as a result of GS introduction and likely implications of multi-party impacts
 - Suitability of regulatory framework to support emergent scenarios
 - In the context AEMO positioning as effective market operator

For Discussion:

- What are key points of engagement that Industry is seeking outside current framework?
- What are some of the key scenarios that are of most concern?

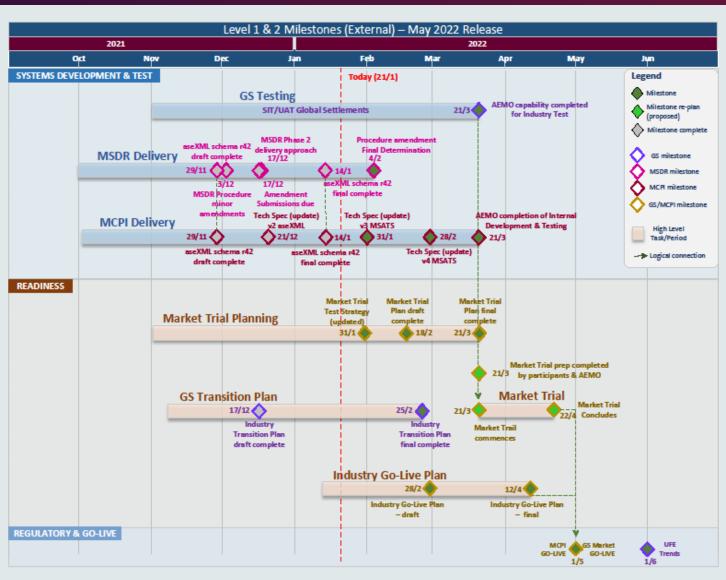


GS Transition Approach

Greg Minney & Paul Lyttle



May 2022 Release Timeline and implementation approach



- Market Trial commencement will incorporate GS Transition with 26th March representing cutover data during Market Trial
- ITWG is determining date for settlement runs to provide level of comparison to production or focus on transition from settlement by difference to GS, using estimated reads
- Pre-production environment will be refreshed (21st Feb) with production data to support operation of Market trials
- GS Transition plan to be refined based on likely timings will be updated for participant impacts



Next Steps and General Business

Greg Minney



Next Steps

- Next UFE FG meeting: Friday, 25 February 2022.
- Please send through any questions or proposed agenda items to GSMSDR@aemo.com.au.



