

UFE Focus Group Meeting #4

25 February 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 GSMSDR@aemo.com.au

Agenda

NO	AGENDA ITEM	RESPONSIBLE
1	Welcome	Greg Minney
2	Short-term Priorities <ul style="list-style-type: none">Participant lead data population activities	Paul Lyttle
3	Discussion Topics: <ul style="list-style-type: none">Overview of UFE by Local areaOff market settlements in GS environment	Paul Lyttle Greg Minney
4	Market Trial Approach and industry go-live considerations	Greg Minney
5	Next Steps and General Business	Greg Minney

Short-term Priorities

Paul Lyttle, Greg Minney & Darren Gatty

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
 - Number of Cross Boundary NMIs with Standing Data registered in MSATS
 - Comments identifies the Number of Greenfield sites within registered totals.

Participant lead population activities

Current Status

Profile Area	Tier 1 Basic Meter with No Active Datastreams	NCONUML NMIs (Completed)	Cross Boundary Supplies	Commentary
ACTEWAGL	90	32	0	
AURORA	4	1965	0	
CITIPOWER	6	5622	10	Includes 10 Greenfield
COUNTRYENERGY	0	6305	4	
ENERGEX	0	32883	4	
ENERGYAUST	0	200	9	
ERGON1	0	9848	2	
INTEGRAL	0	7605	12	Includes 3 Greenfield
POWERCOR	29	9141	7	Includes 3 Greenfield
TXU	2	6059	7	Includes 3 Greenfield
UMPLP	4	9471	2	
UNITED	0	8840	19	Includes 18 Greenfield
VICAGL	30	3866	5	Includes 2 Greenfield

Participant Lead Data Population Summary

- Tier 1 Basic metering data:
 - Majority of remaining meters are within 3 Profile areas (149): Total outstanding 165.
 - 6 Profile Area have NO outstanding meters.
- Non contestable unmetered load activity completed with metering data delivered
 - Some rationalization has taken place with 3017 NCONUML made extinct
- Cross Boundary meters
 - Total of 81 cross boundary NMIs have been registered in MSATS
 - Within the total of Cross Boundary NMIs 39 have a status of Greenfield

UFE loads by Profile Area

Paul Lyttle

UFE volumes and percentage of Profile Area energy

- The following slides take a look at the UFE for each Profile area
 - **The details within the graphs are extracted from values available in the RM46 reports**
 - Observations may use other data that are not displayed within the graphs
 - Graphs are using FINAL Settlement runs report data.
- Graphs for each Profile area consists of:
 - The total of UFE for each Settlement Day
 - The UFE percentage of the total Profile Area energy (ADME)
- Graphs displays
 - The UFE graphs are displayed in KWHs
 - Data is received from the MDM system, therefore:
 - Load is displayed as Positive
 - Generation is displayed as Negative
 - This display will be opposite to the UFEA applies to the Settlements

UFE Calculations

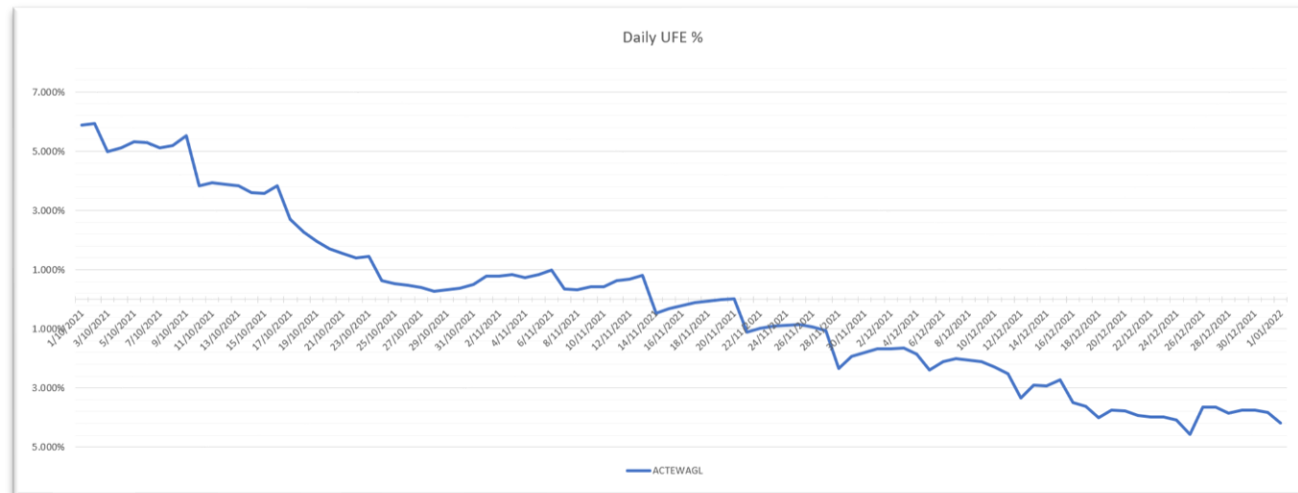
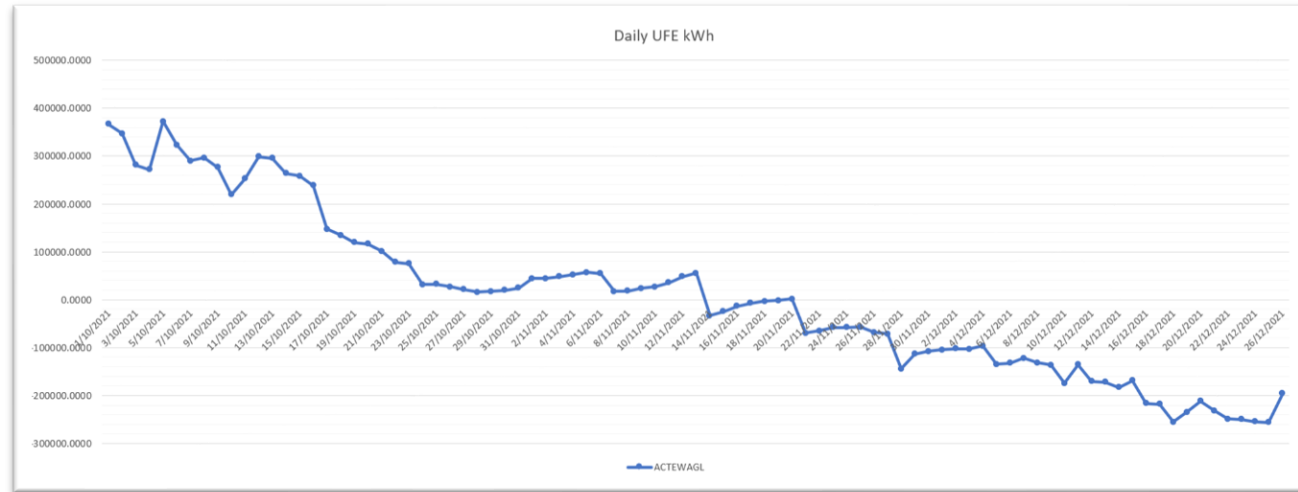
- $UFE = TME - DDME - ADME$
- $UFEA = UFE \times (DME/ADMELA)$
- $UFEF = UFE/ADMELA$
- **UFE** is total unaccounted for energy for a Local Area
- **TME** is total energy inflows into a Local Area (TNSP to DNSP connection points and cross boundary inflows for receiving DNSP)
- **DDME** is cross boundary energy outflows from supplying DNSP
- **ADME** is the aggregate of energy flows for each connection point in a Local Area
- **UFEA** is the allocation of Local Area unaccounted for energy for a Market Participant
- **DME** is the load component (ME- x DLF) at a connection point in the Local Area
- **ADMELA** is the aggregation of all DME amounts in a Local Area

ACTEWAGL Profile Area

Profile Area Observations

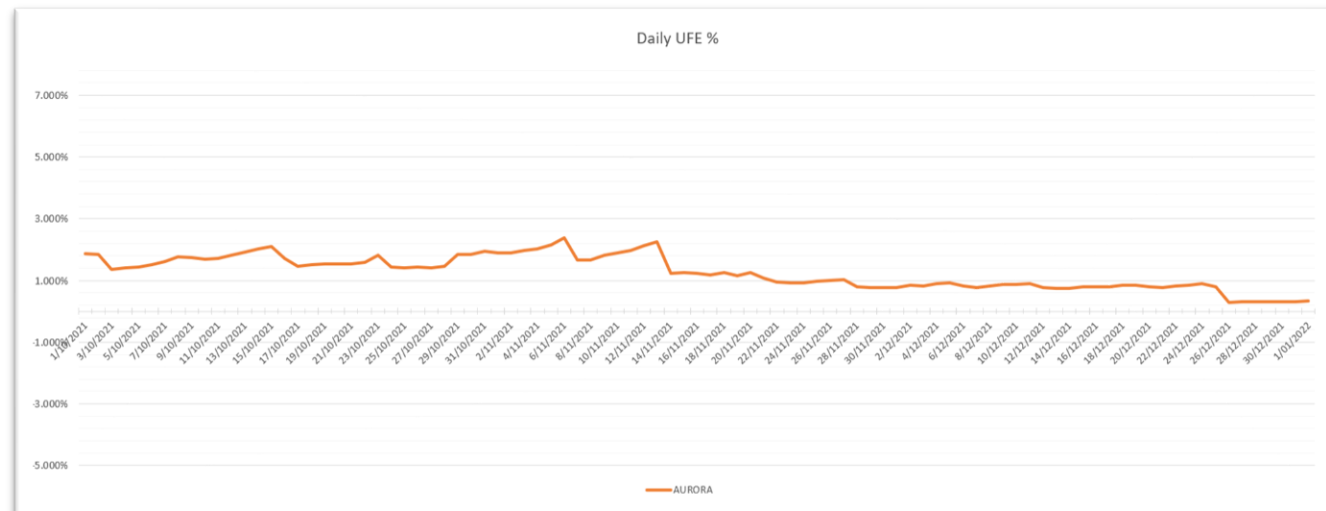
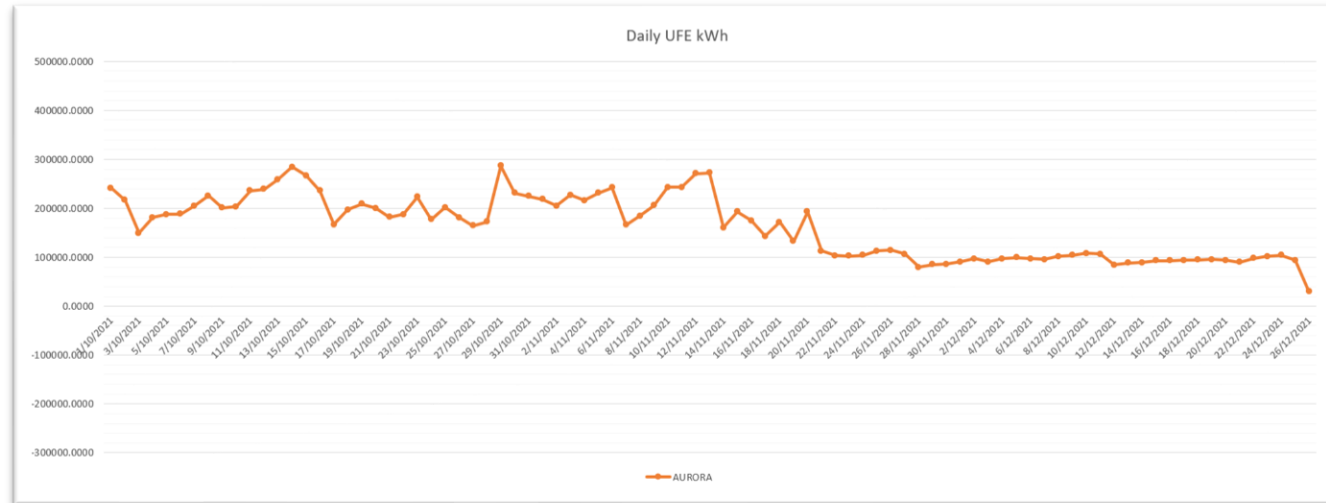
- Daily UFE Values
 - ADME increased over reporting period compared to TME

- %UFE of Total Load
 - UFE started at approx 6%
 - Dropped to -5% end 2021



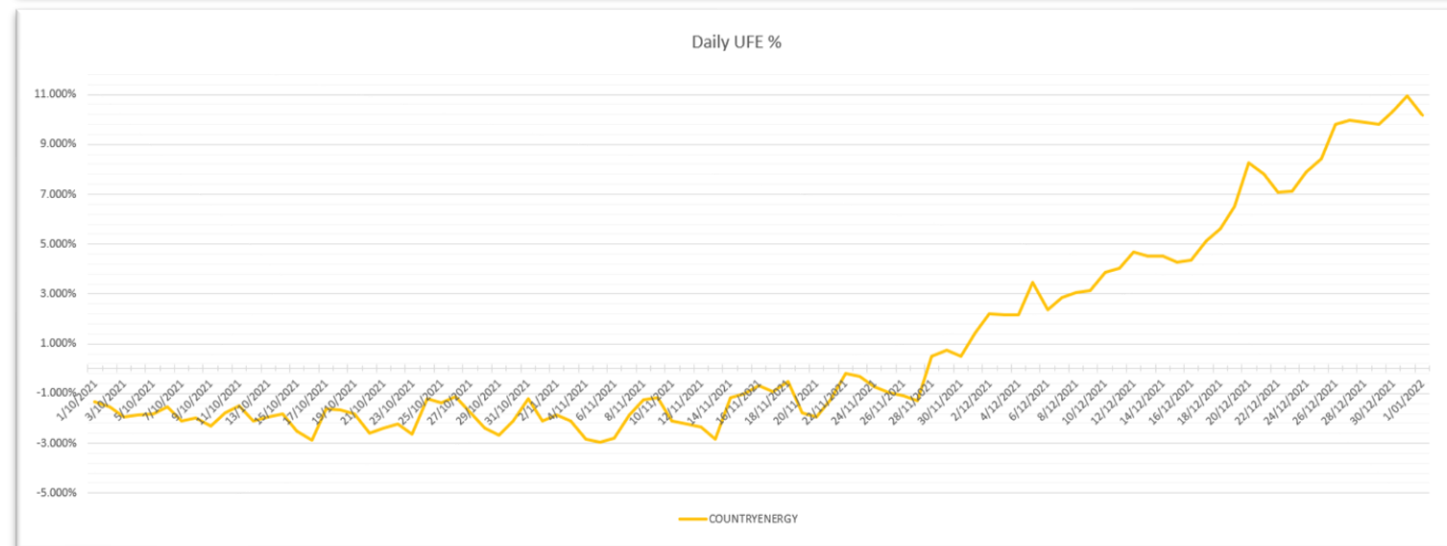
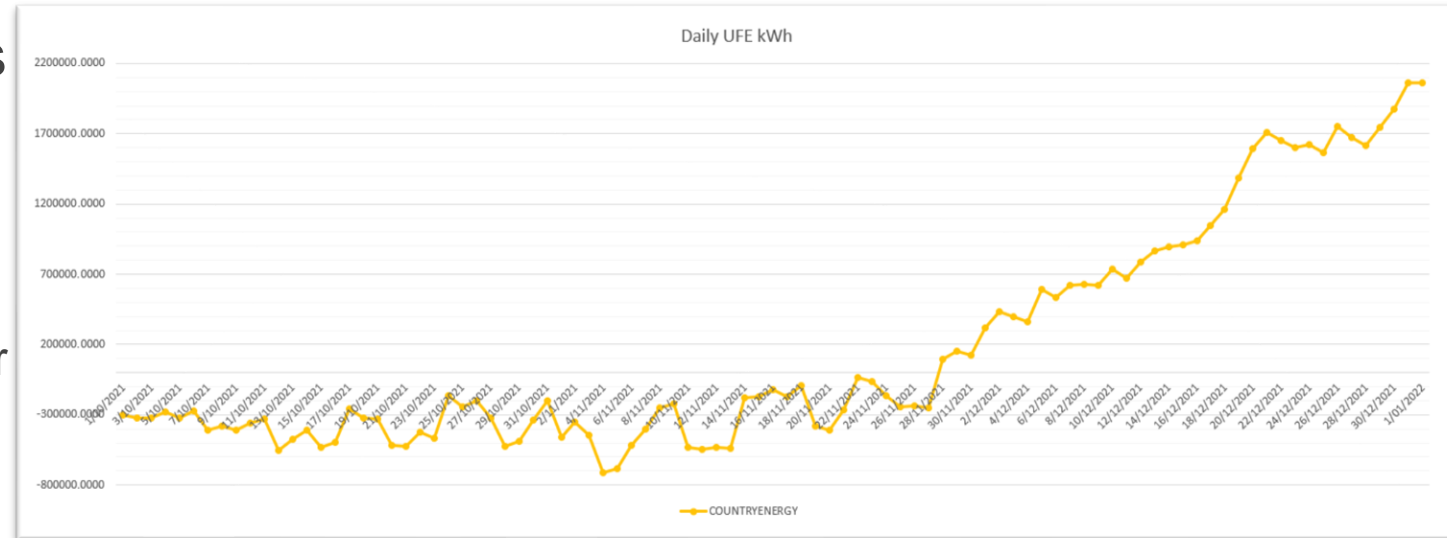
AURORA Profile Area

- Profile Area Observations
- Daily UFE Values
 - TME and ADME remain relative over reporting period
 - Increase of ADMELA relative to ADME from end November
- %UFE of Total Load
 - UFE % has remained within +3%



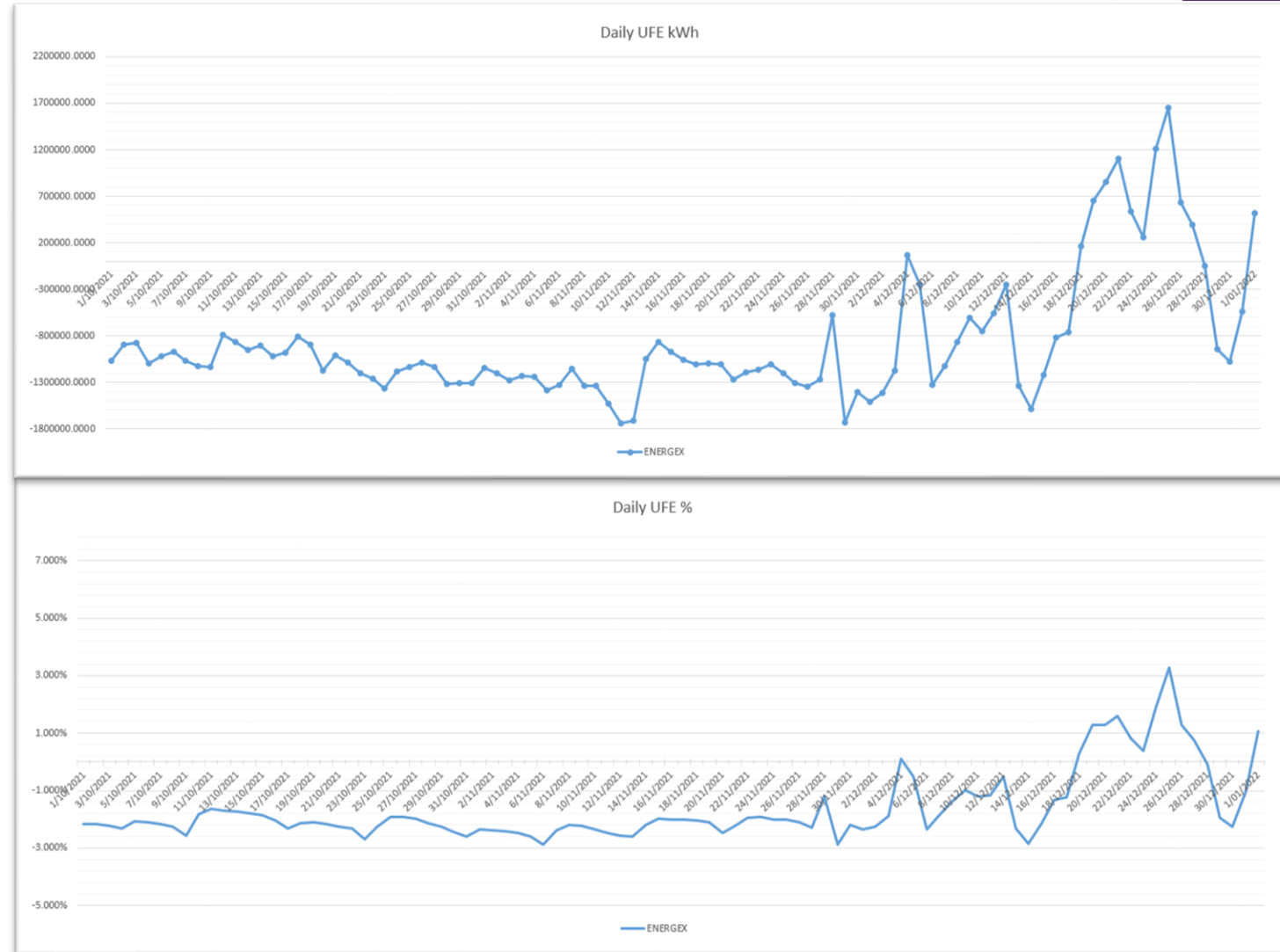
COUNTRYENERGY Profile Area

- Profile Area Observations
- Daily UFE Values
 - Increased cross boundary export from end November
- %UFE of Total Load
 - ADME / ADMELA load remains constant
 - TME also increased from end December



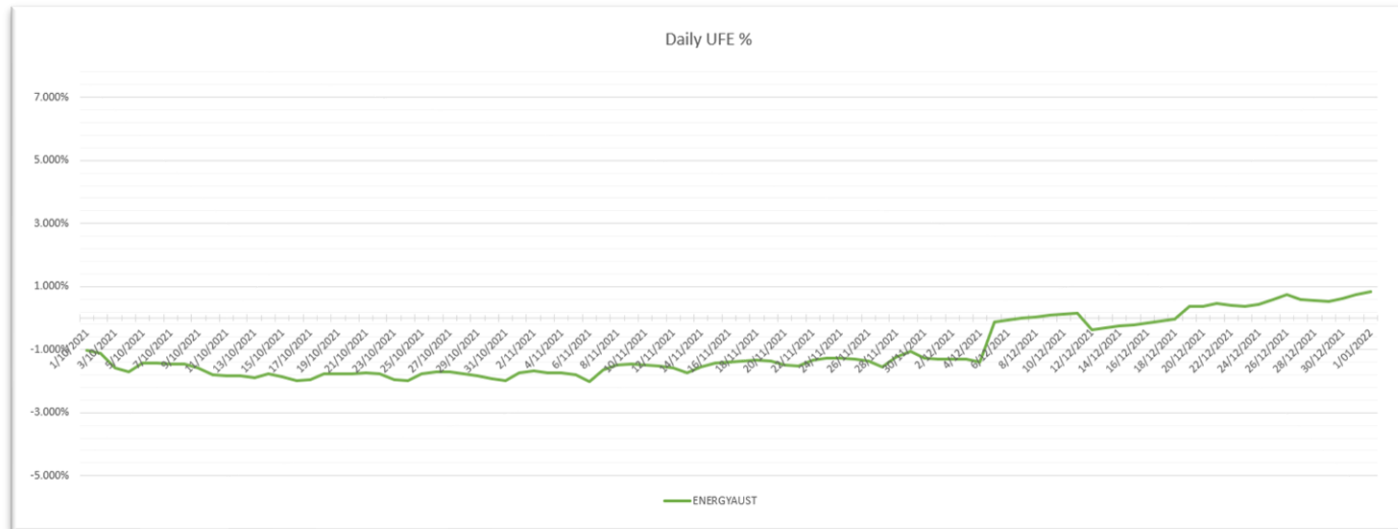
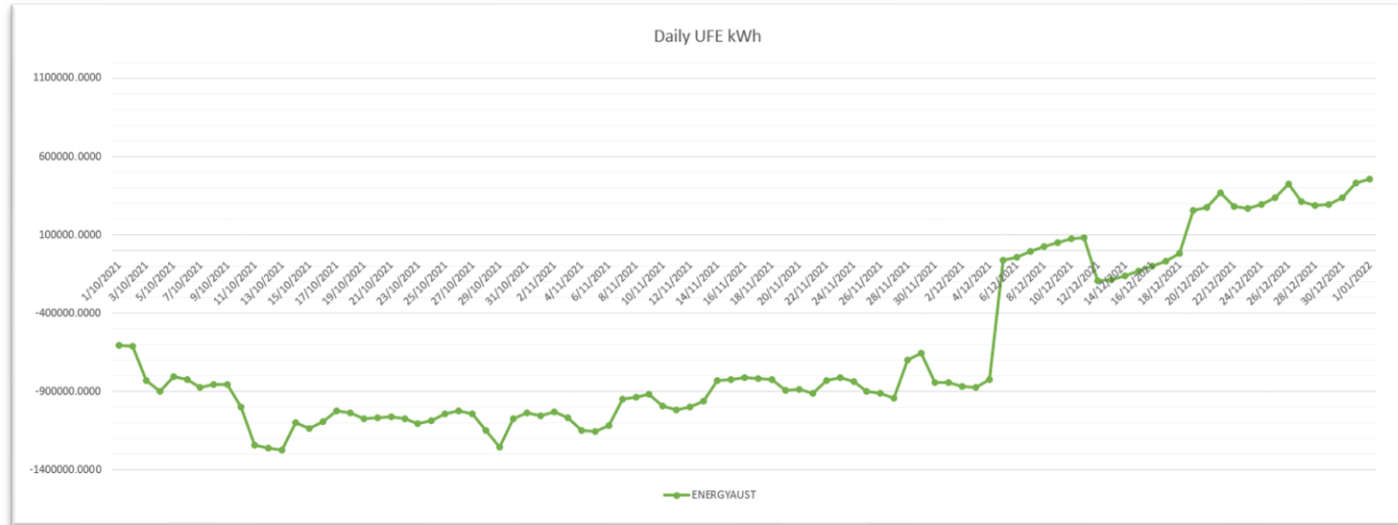
ENERGEX Profile Area

- Profile Area Observations
- Daily UFE Values
 - TME increased over ADME at end December
- %UFE of Total Load
 - ADME / ADMELA load remains constant



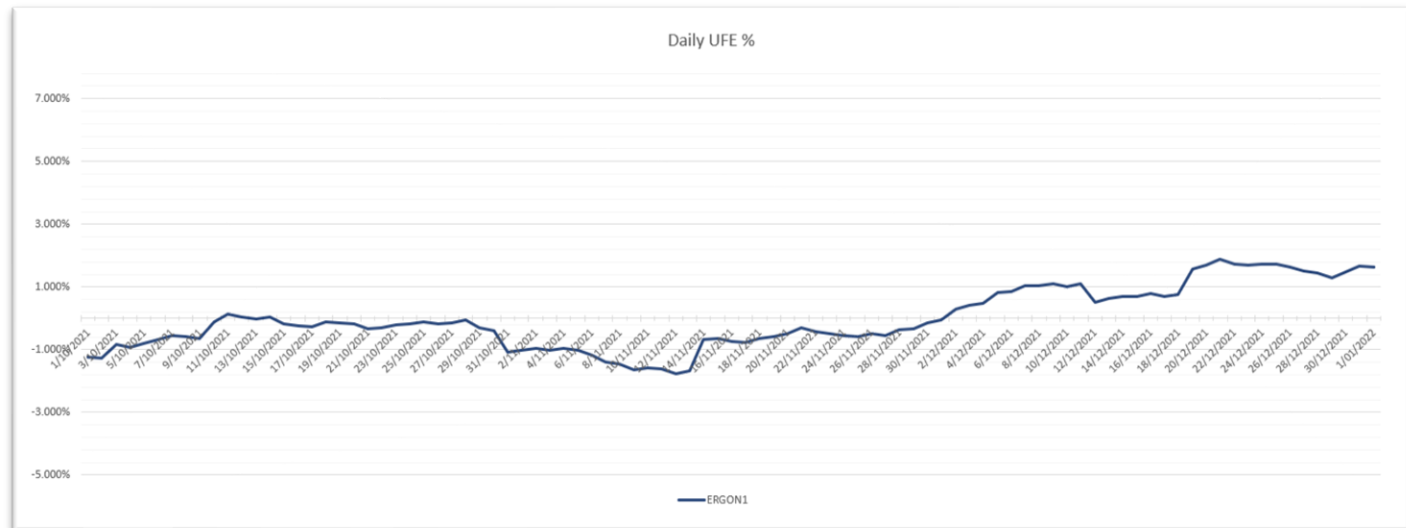
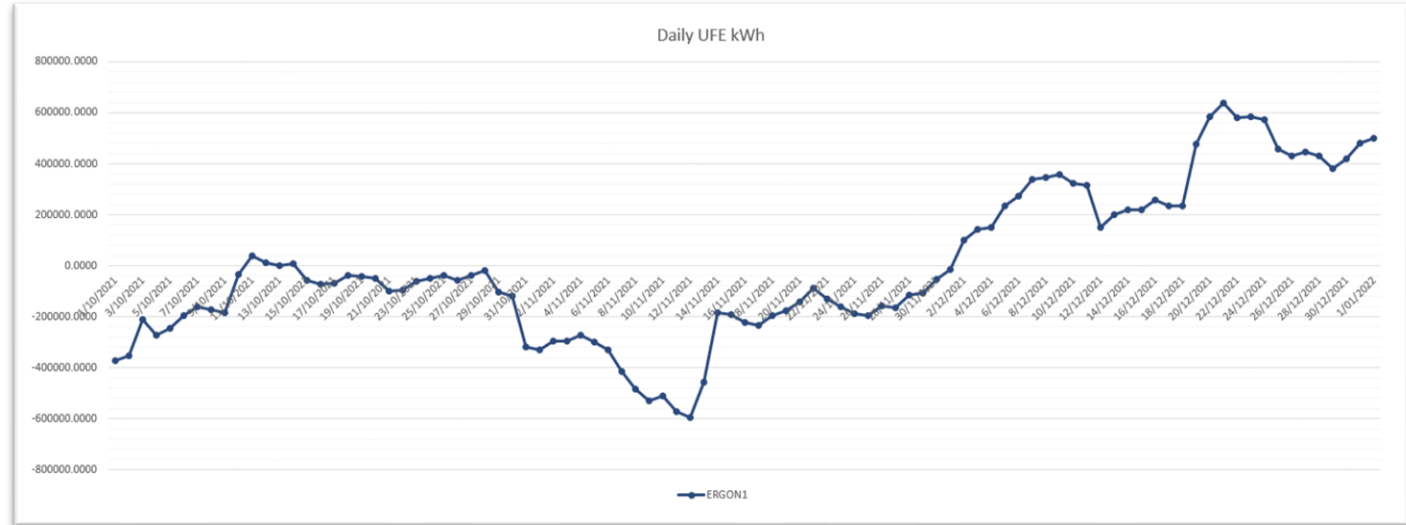
ENGYAUST Profile Area

- Profile Area Observations
- Daily UFE Values
 - TME increases compared to ADME at end December
- %UFE of Total Load
 - Greater fluctuation in import of DDME from mid-December



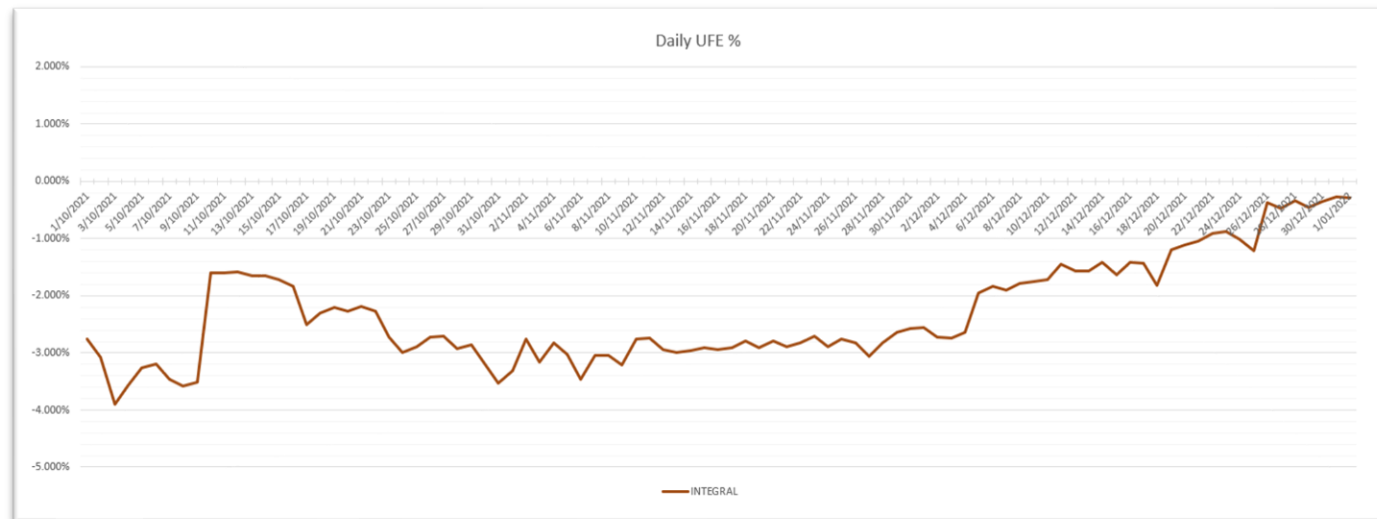
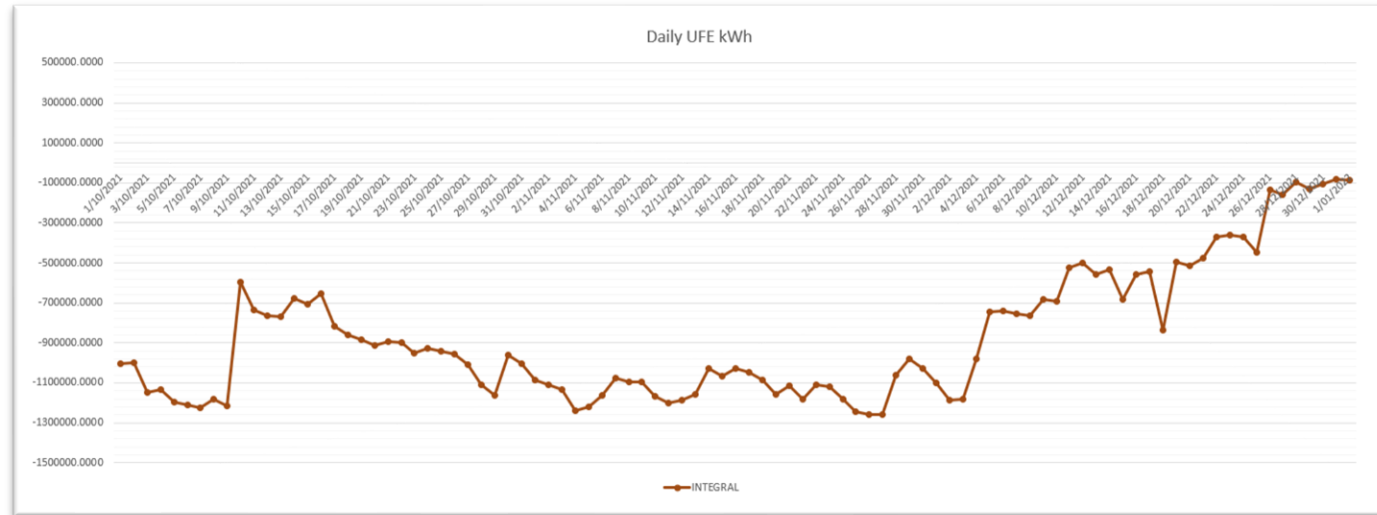
ERGON1 Profile Area

- Profile Area Observations
- Daily UFE Values
 - TME increased compared to ADME from early December
 - Spike in DDME during 20-24 December
- %UFE of Total Load
 - ADME and ADMELA appear relative



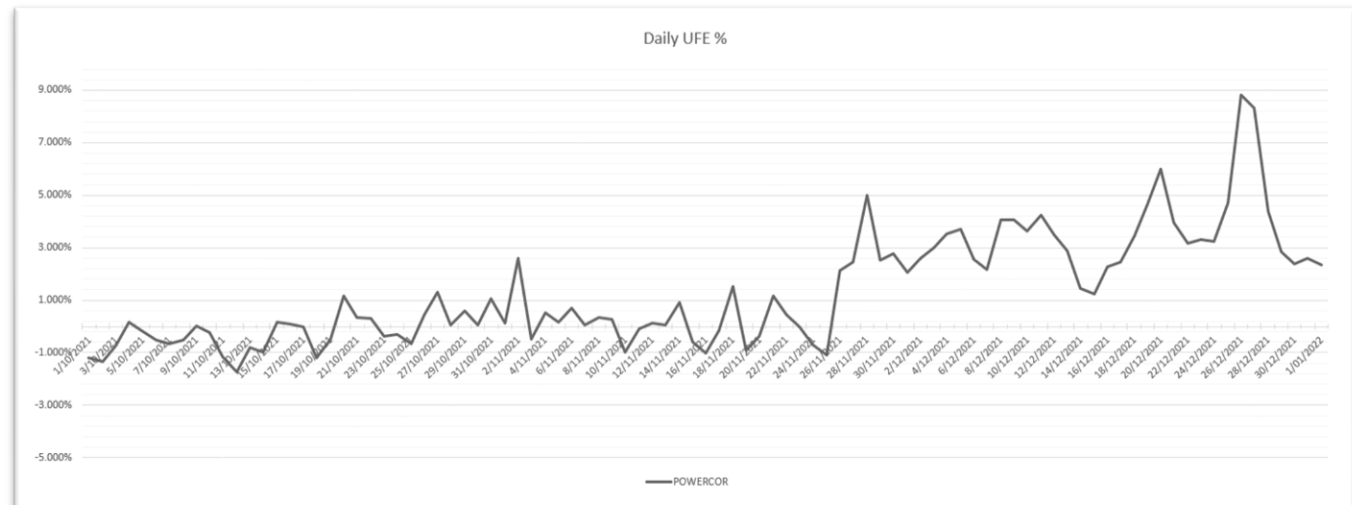
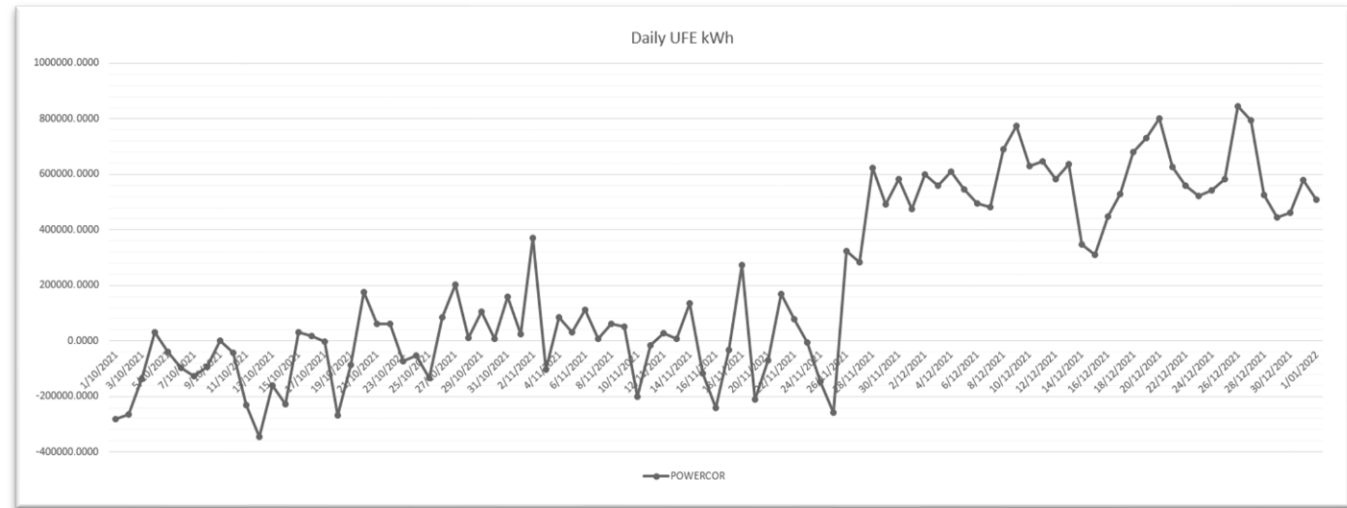
INTEGRAL Profile Area

- Profile Area Observations
- Daily UFE Values
 - ADMELA increases compared to ADME from and December
 - Slight increase in cross boundary export from end December
- %UFE of Total Load



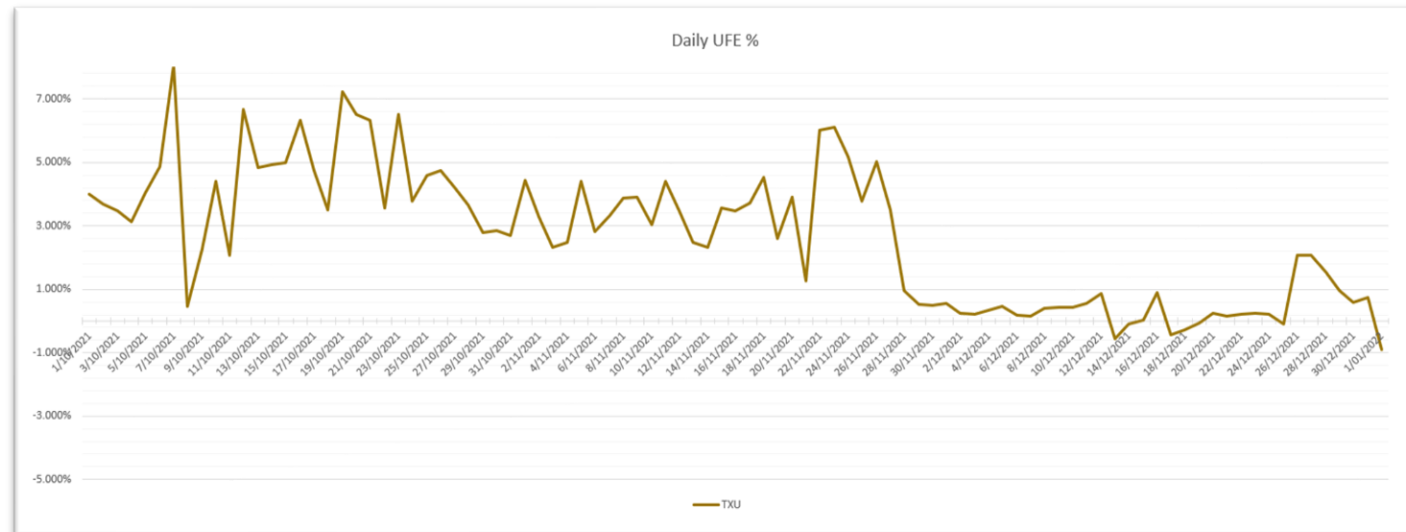
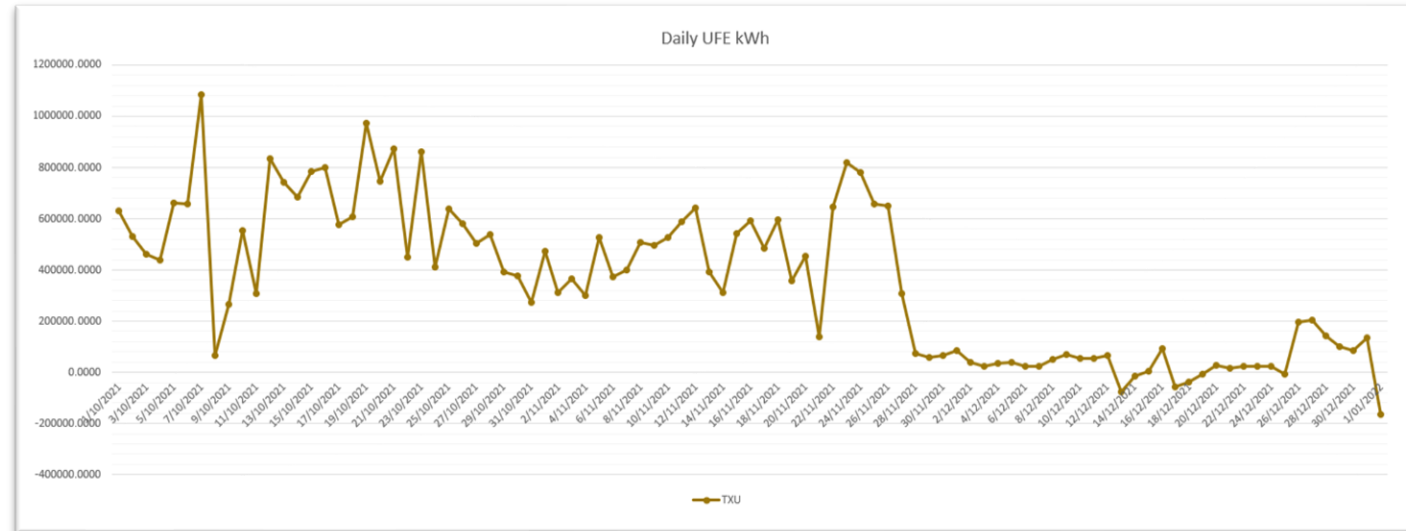
POWERCOR Profile Area

- Profile Area Observations
- Daily UFE Values
 - Registration of 2 cross boundary connections at end of November creating a drop in DDME export
 - TME, ADME and ADMELA appear to remain relative
- %UFE of Total Load



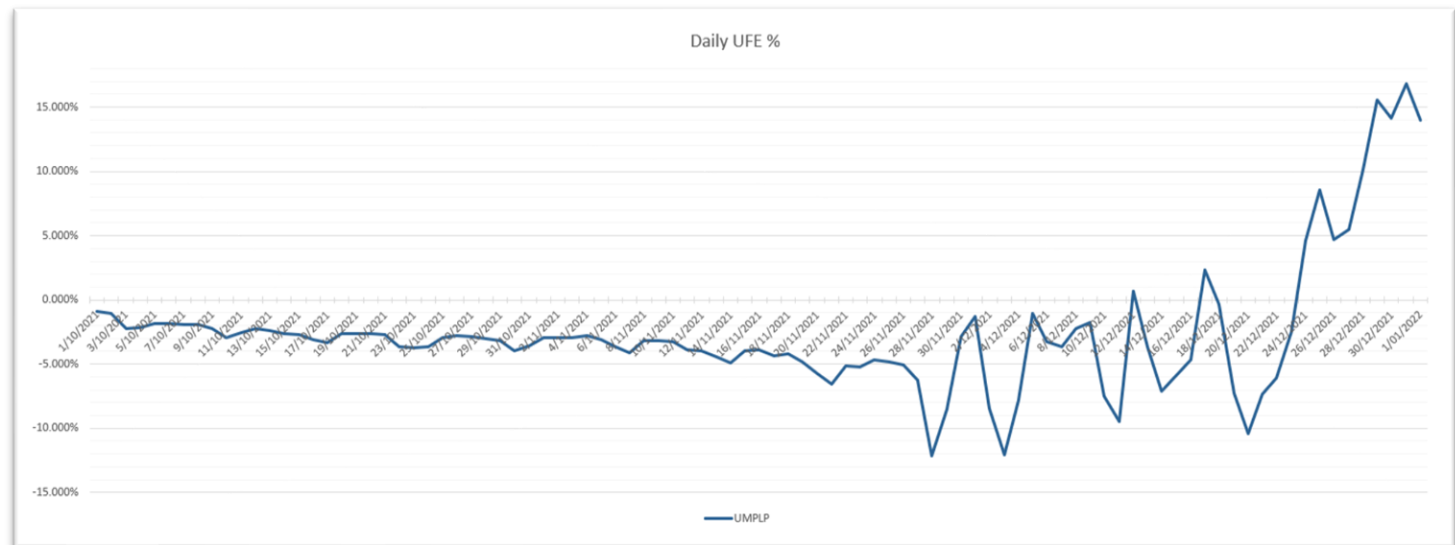
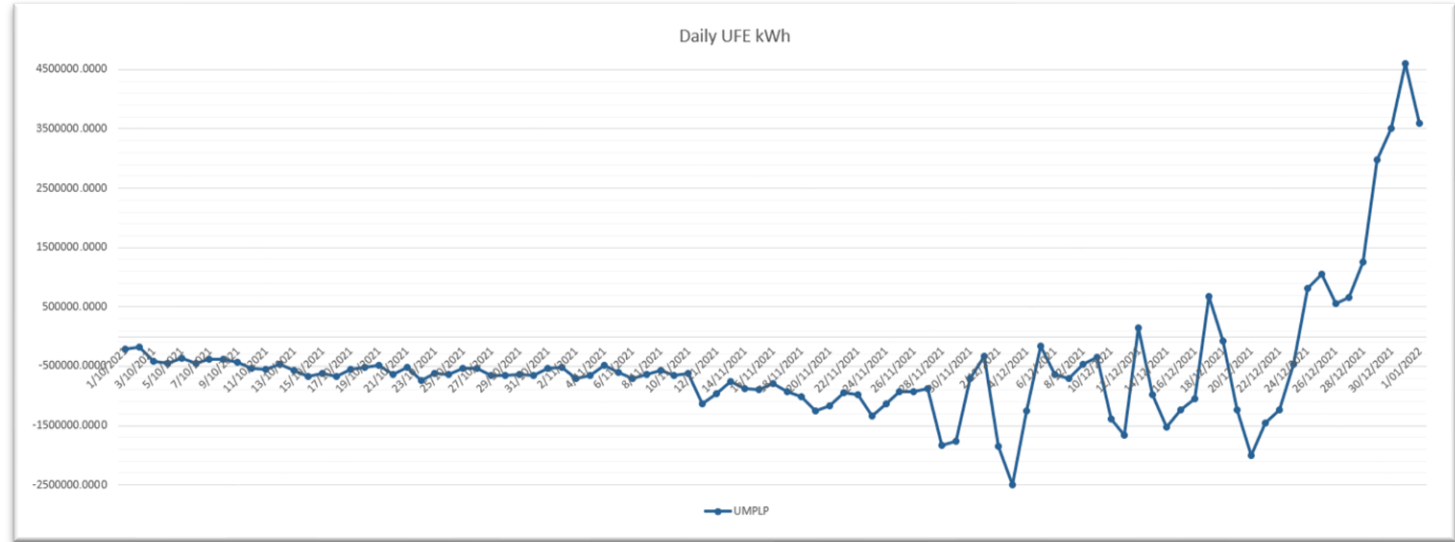
TXU Profile Area

- Profile Area Observations
- Daily UFE Values
 - Cross Boundary exports registered from end of November
- %UFE of Total Load
 - TME and ADME remain relative
 - Variations in relation to ADME and ADMELA



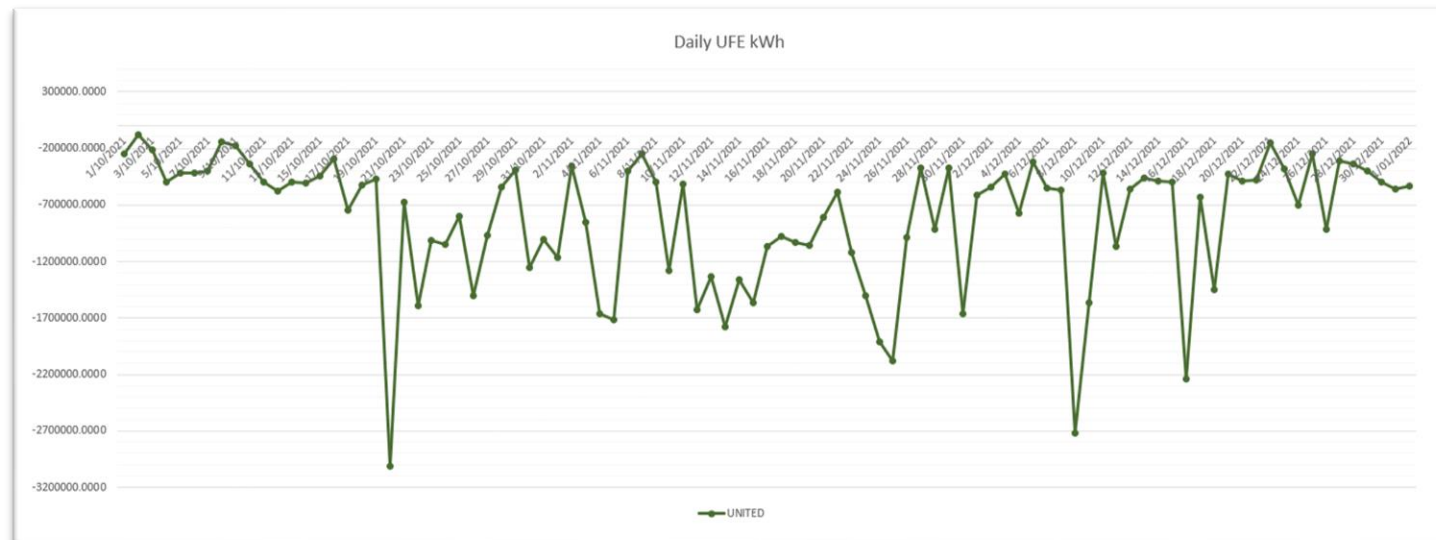
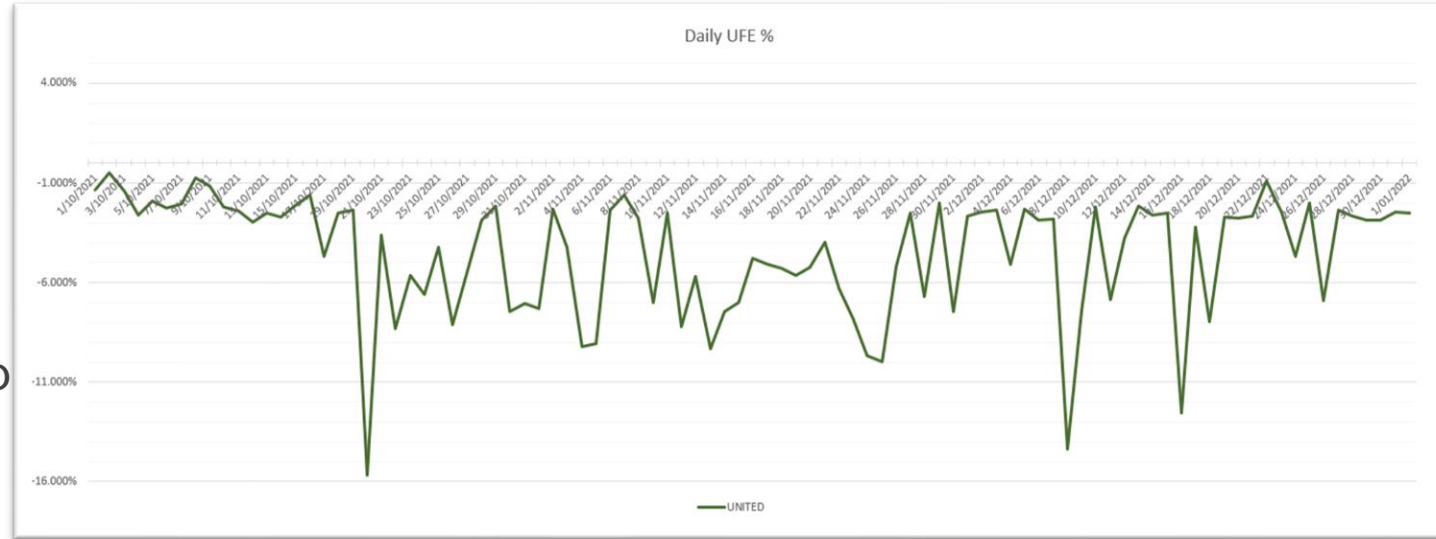
UMPLP Profile Area

- Profile Area Observations
- Daily UFE Values
 - Increase in cross boundary exports from end November
 - TME fluctuates from Mid December with values increasing relating to ADME from end December
- %UFE of Total Load



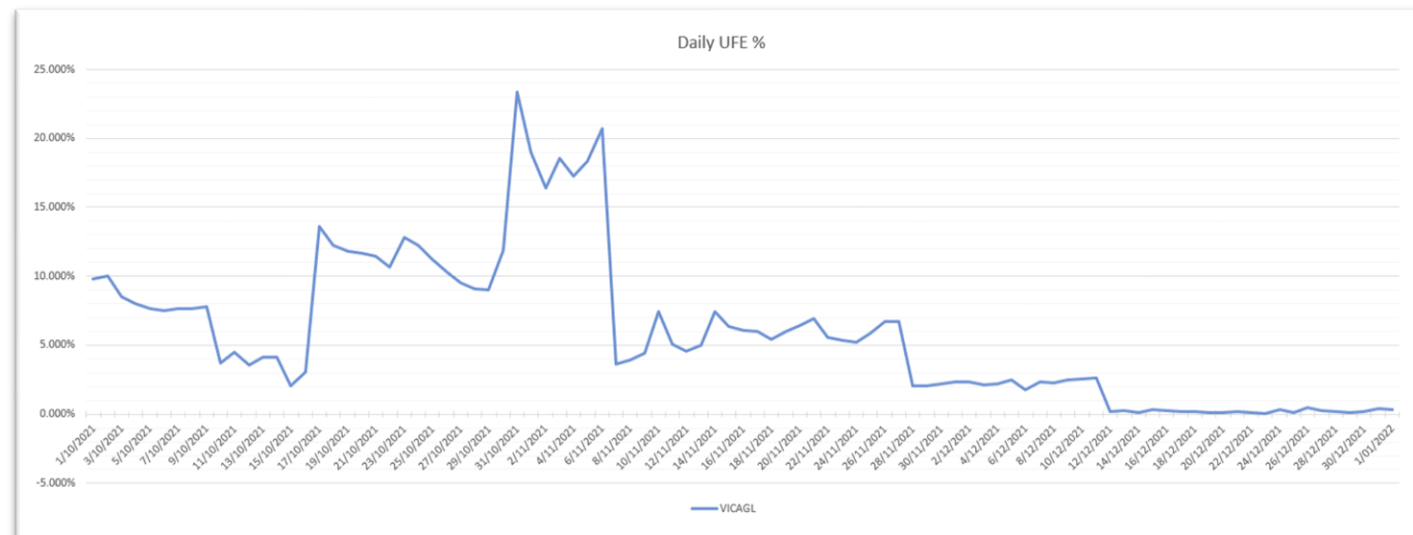
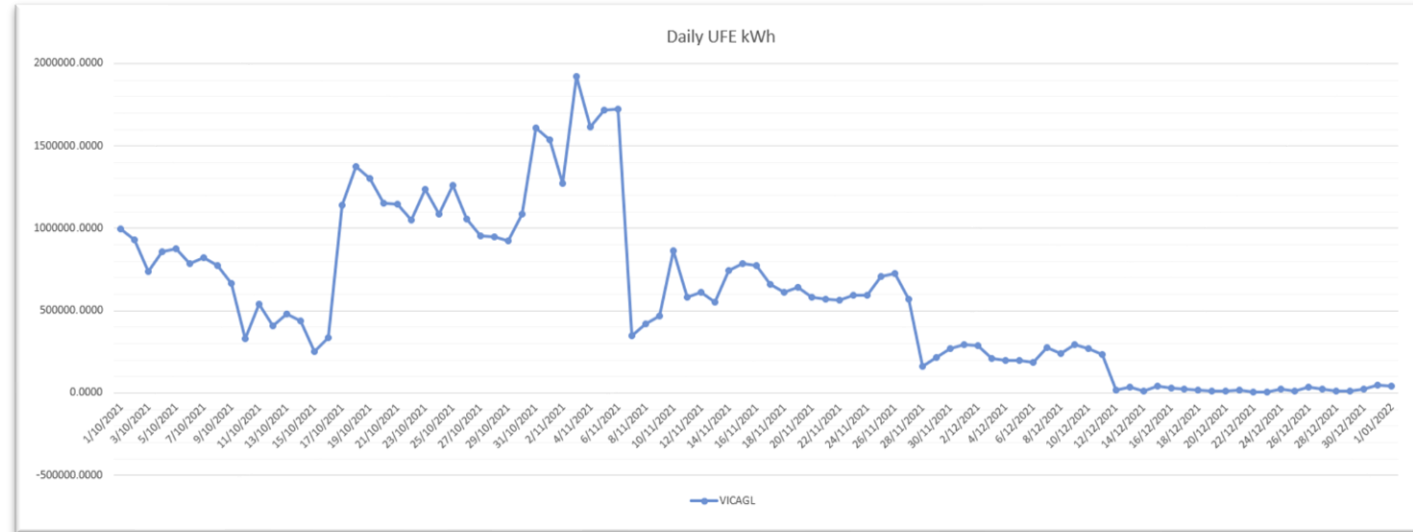
UNITED Profile Area

- Profile Area Observations
- Daily UFE Values
 - Fluctuations in cross boundary Import with a drop at the end of December
- %UFE of Total Load
 - TME, ADME and ADMELA remain relative



VICAGL Profile Area

- Profile Area Observations
- Daily UFE Values
 - Registering of cross boundaries increase DDME export from end November
 - Larger gap between TME and ADME to start of November
 - Larger gap between ADMELA and ADME from mid October to early November
- %UFE of Total Load



Approach to "Off Market" settlement in GS environment

- **Further Discussion on this topic will be scheduled post receipt of input from Industry regarding:**
 - 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?
- No further feedback has been received to date

Discussion points as per UFE#3 pack for reference

- *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*

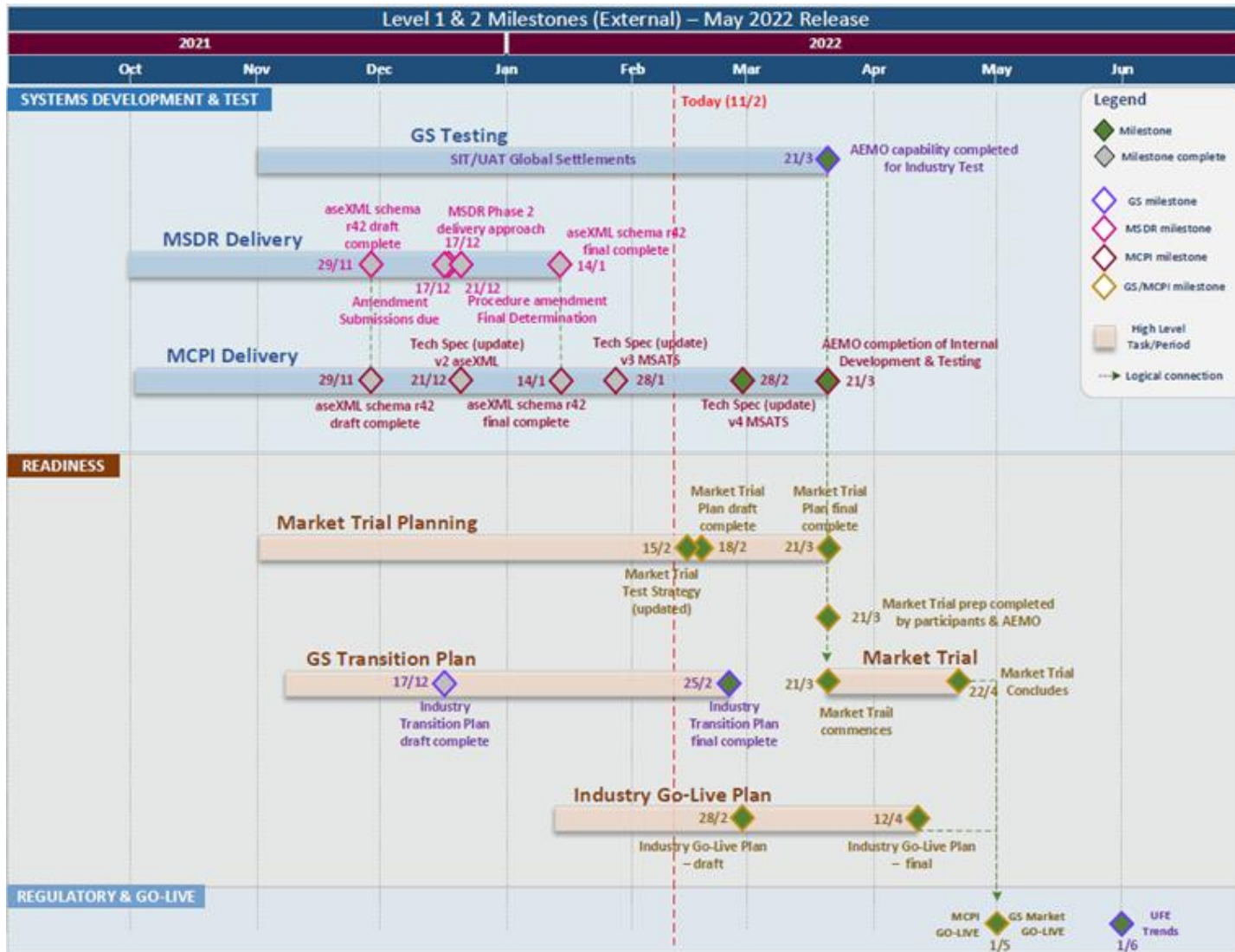
For Discussion:

- *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

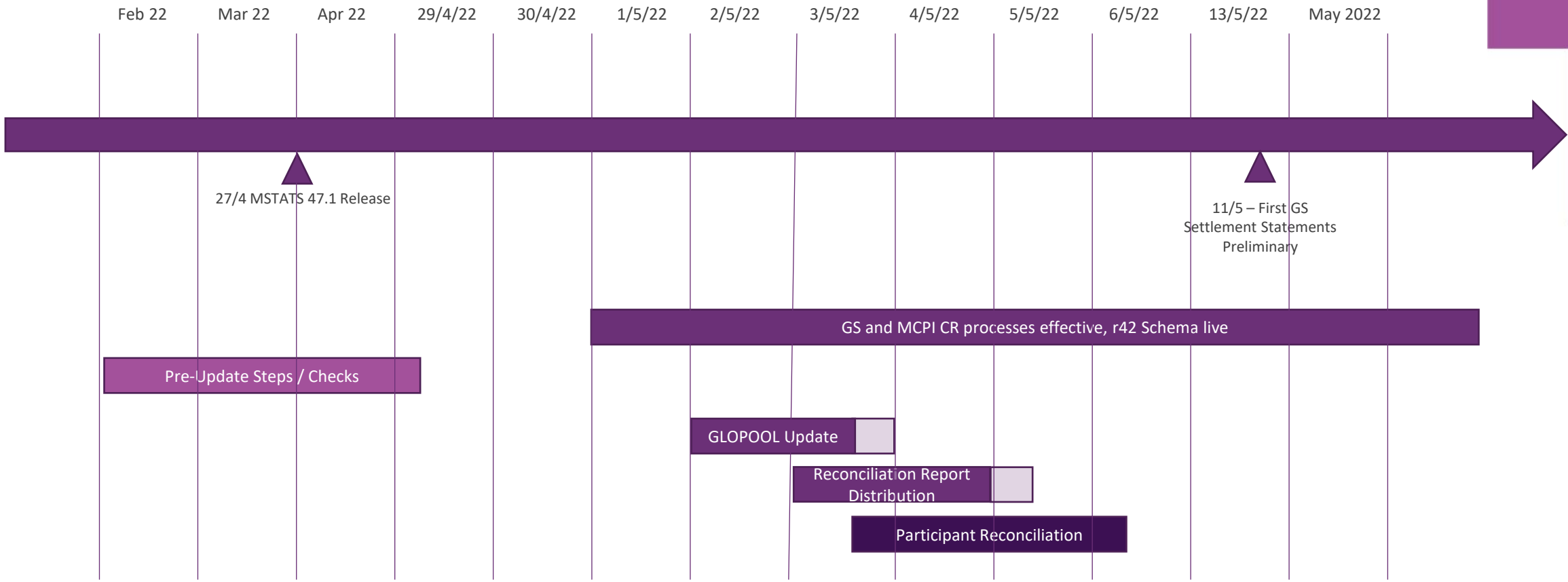
Greg Minney & Paul Lyttle

May 2022 Implementation Approach and Market Trial



- Market Trial commencement will incorporate GS Transition – with 26th March representing cutover data during Market Trial
- Participant preference to backdate GLOPOOL participant commencement date preferred to allow comparison with production settlement runs. Date of backdate TBC
- Pre-production environment will be refreshed (21st Feb) with production data to support operation of Market trials

High level Timeline



Industry Go Live Approach – Participant Implications

MSATS 47.1 release – Production release scheduled for 27th April, during scheduled Maintenance window

- Outage for MSATS, MDM and B2B during release
- Outage commencement and communication via support Hub Bulletins
- r42 schema will be deployed during this release:
- Participants should ensure MSATS schema preferences are updated in production by 18th April
- CR changes for population of mandatory fields will not take effect until 1/5
- CR submitted prior to 1/5 including SPIF / Glopool for LR will be rejected

GS and MCPI Commencement – 1 May 2022

- No MSATS outage on 30th April
- From 1/5 CRs (including in-flight) will be validated against GS and MCPI process for LR and SPIF values, CR Com not sent to previous LR
- NMI create backdated prior to 1/5 to align metering commencement and LR role with process documented for exceptions
- MDPs cease delivery of metering data to previous LR
- Participant updates of own systems with LR changes – timing determined by participant
 - MSATS validations will apply to submitted CR's

Industry Go Live Approach – Participant Implications

GLOPOOL transition – 2 & 3 May 2022

- No MSATS outage whilst update is in progress
- AEMO to update LR Roles, and identified FRMP roles, to reflect GS processing, expected timing 20Hours
 - progress updates will be provided during the process, from commencement, with 6 hourly status
 - MSATS Standing Data updates will not be reflected in MDM during GLOPOOL transition
 - During MSTATS update NMI discovery results impacted for LR value ie dependent on stage of Bulk update previous value or GLOPOOL may be returned
- AEMO to distribute reconciliation reports following MSATS Update, 48 Hours run time
 - Status updates to be provided at process commencement, and daily until completion
 - reconciliation reports issued on Participant by participant basis
- AEMO to synchronise Standing data with eMDM (approx. 3 hours)
 - Metering data delivered will be accepted, but not ingested during this process. Participants may note some delay in processing acknowledgements, and build up of unacknowledged transactions or Stop file.
 - AEMO to notify participants prior to this step commencing
 - Participants will not be able to view Interval Reads via MSATS
 - During synchronisation step there will be some delays in report responses
 - Update process will run for 2-3 hours – timing to be confirmed

First GS Settlement Statements Issued – 11 May 2022

- Preliminary invoice and statements for week ?? Incorporate financial settlement of UFE
- RM Reports issued as per current process

Industry Go Live Approach – AEMO

Communications and Support processes

Production Support Communication and issue processes in place for MSATS 47.1 release and 1 May procedure commencement

- Participant issues with Schema upgrade and systems processing exceptions via Support Hub
- Incidents to be raised via Infra following BAU Process
- If multiple issues identified for GS/ MCPI transaction processing single Q&A session to be established

Communication of Status and progress during GS Transition:

- Bulk Change progress will be provided via Program Comms
- Timing and completion of reconciliation reports will be confirmed via Program Comms
- Reconciliation reports provided based on contact details specified

Industry Q&A following issue of Preliminary Settlement statements Week

- Participant questions collated via GSMSDR mailbox
- UFE Focus group scheduled to respond, following assessment

Participant queries regarding interpretation of UFE / GS information

- Questions / queries via GSMSDR mailbox
- Settlement Issues via BAU settlement process

Next Steps and General Business

Greg Minney

Next Steps



- Next UFE FG meeting: **Tuesday, 15 March 2022.**
- Please send through any questions or proposed agenda items to GSMSDR@aemo.com.au.



For more information visit

aemo.com.au