

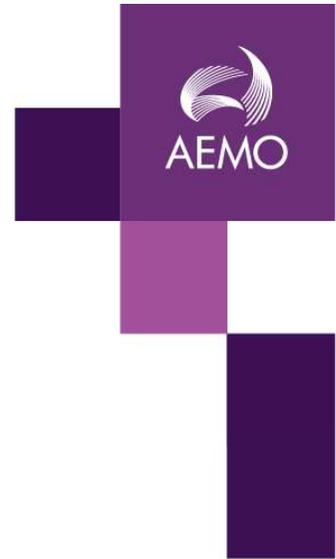


# UFE Focus Group Meeting #6

13 April 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 [GMSDR@aemo.com.au](mailto:GMSDR@aemo.com.au)

# Agenda

NO.	AGENDA ITEM	RESPONSIBLE
1	Welcome	Greg Minney
2	Short-term Priorities <ul style="list-style-type: none"><li>Participant lead data population activities</li></ul>	Paul Lyttle
3	Discussion Topics: <ul style="list-style-type: none"><li>Short Term Priorities - Update</li><li>Cross Boundary Meters - Details</li></ul>	Paul Lyttle
4	GS implementation impacts	Greg Minney , Darren Gatty
5	Go-Live preparations – updates on Market Trial and summary from	Greg Minney
6	Next Steps and General Business Next UFE Focus group to look at impacts noted post first GS settlement run (ongoing engagement? Via UFE Focus Group)	Greg Minney

Attendee	Organisation	Attendee	Organisation	Attendee	Organisation	Attendee	Organisation
Paul Lyttle	AEMO	Zahara Magriplis	Energex	Justin King	Stanwell		
Karyn Bowie	AEMO	Justin Chin	EnergyAustralia	Deepak Sood	Tango Energy		
Greg Minney	AEMO	Nick Hickman	Energy Queensland	Adrian Honey	TasNetworks		
Darren Gatty	AEMO	Ingrid Farah	Ergon	Paul Willacy	Tas Networks		
David Ripper	AEMO	Tim Lloyd	Essential Energy	Prameesha Weerasinghe	ZEN Energy		
May Cotoner	AEMO	Fiona Ninness	Essential Energy	Heath Winning	ZEN Energy		
Stephen Harrison	AEMO	Jeff Roberts	Evoenergy				
Jeff Roberts	ActewAGL	Carla Adolfo	Intellihub				
Sue Richardson	Agility	Andrew Mair	Next				
Mark Riley	AGL	Fergus Stuart	Origin				
Maree Madden	AGL	Matthew Lee	Origin				
Zulfi Syed	Alinta Energy	Greg McLeod	Origin				
Sumitha Thilak	Alinta Energy	Karel Mallinson	Powerlink				
Aiswarya Sridhoran	Ampion	Arunesh Choubey	Red Energy				
Craig Steele	Aurora Energy	Nick Gustafsson	Red Energy				
Alexander Riseley	Aurora Energy	Mark Reid	Red Energy				
Kevin Boutchard	Aurora Energy	Christophe Bechia	Red Energy				
Wayne Turner	Ausgrid	Angela Sheehy	Stanwell				
Sujatha Vutukoor	Brave Energy	Anatoliy Tsymay	Stanwell				
Jakapi Arigo	Clean Co	Sudeshna Nanda	Stanwell				
Megan Ide	Electranet	Sara Yakimoff	Stanwell				



# 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 identify the Number of Greenfield sites within registered totals

# Participant lead population activities

## Current Status

Profile Area	Tier 1 Basic Meter with No Active DS	NCONUML NMIs (Completed)	Registered Cross Boundary NMIs	Cross Boundary Comments
ACTEWAGL	2	32	0	
AURORA	0	1965	0	
CITIPOWER	2	5566	24	Total Includes 3 Greenfield Additional 5 still to be registered
COUNTRYENERGY	0	6281	15	
ENERGEX	0	31685	4	
ENERGYAUST	0	199	10	Total Includes 3 Greenfield
ERGON1	0	9819	1	
INTEGRAL	0	7376	3	
POWERCOR	2	9007	6	
TXU	1	5968	6	Total includes 1 Greenfield
UMPLP	3	9376	0	
UNITED	0	8534	16	Total Includes 3 Greenfield Additional 3 still to be registered
VICAGL	29	3793	9	
<b>Total</b>	<b>39</b>	<b>99601</b>	<b>94</b>	

# Participant Lead Data Population Summary



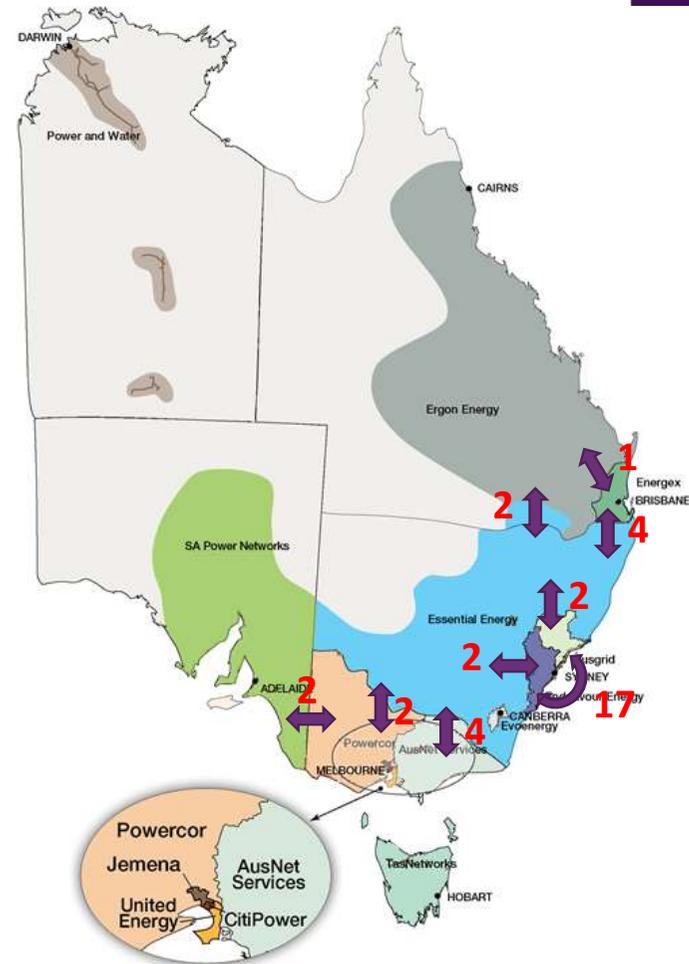
- Tier 1 Basic metering data
  - Majority of remaining meters are within 1 Profile area (29): Total outstanding 39
  - 7 Profile Area have NO outstanding T1 basic meters
- Non contestable unmetered load activity completed
- Cross Boundary meters
  - Total of 94 cross boundary NMIs have been registered in MSATS
    - 8 Cross boundary connection points still to be registered.
  - Within the total of Cross Boundary NMIs 10 have a status of Greenfield
    - Impact of greenfield – These have registered standing data, but metering data is not being received, so impact on respective UFE calculations is yet to be incorporated
    - Assumes all Active cross boundary NMIs are providing meter reads.

# Cross Boundary Meters

Paul Lyttle

# Cross Boundary Supplies

- The following slides provides an overview of Cross Boundaries between Profile Areas.
- ENERGEX – ERGONTP = 1
- CNRGYP – ERGONTP = 2
- CNRGYP – ENERGEXP = 4
- CNRGYP – ENERGYAP = 2
- ENERGYAP – INTEGP = 17
  - Includes 3 Greenfield
- CNRGYP – INTEGP = 2
- CNRGYP – POWCP = 2
- CNRGYP – EASTERN = 4
- UMPLP – POWCP = 2

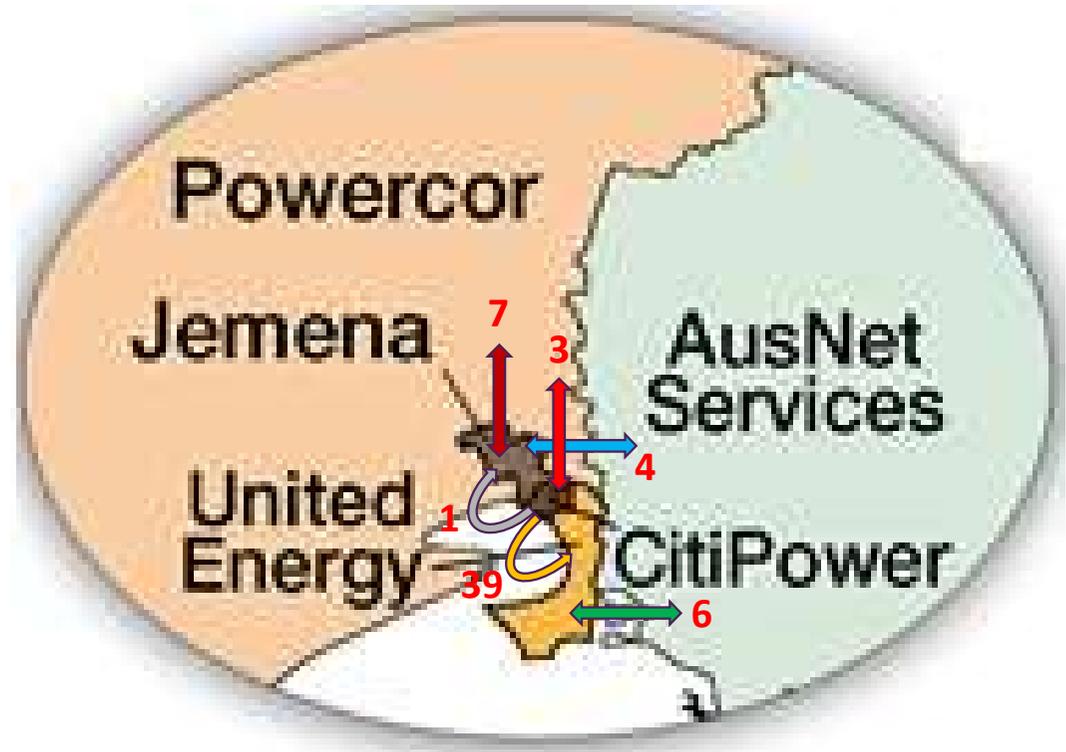


# Cross Boundary Supplies

- The following slides provides an overview of Victorian Cross Boundaries between Profile Areas.

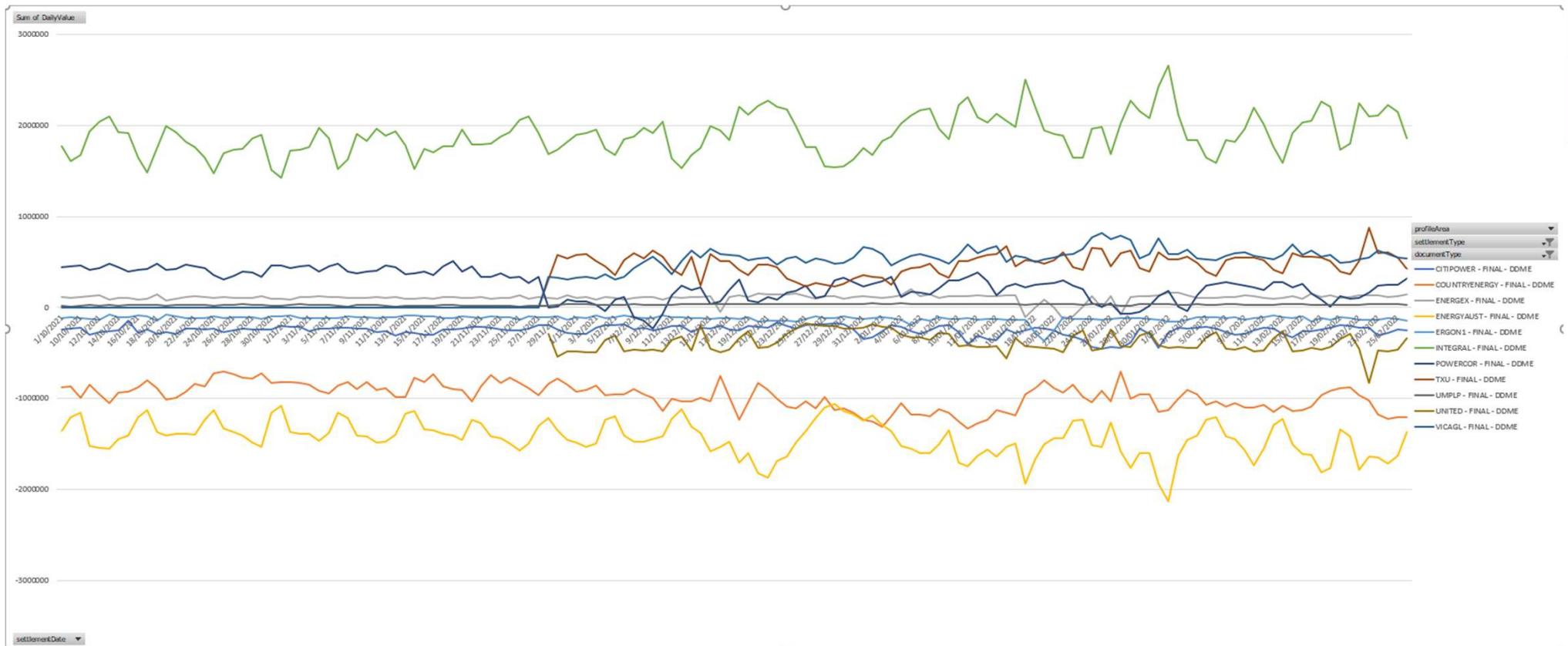
Victorian Profile Areas:

- **UNITED – EASTERN** = 6
  - Includes 2 Greenfield
- **SOLARISP – EASTERN** = 4
- **CITIPP – POWCP** = 3
  - Includes 3 Greenfield
- **SOLARISP – POWCP** = 7
- **CITIP – UNITED** = 39
  - Includes 2 Greenfield
  - Plus additional 8 not registered
- **CITIP – SOLARISP** = 1



# Cross Boundary Quantities

- Sample of total daily energy flowing through Cross Boundary NMI provided within the UFE reports.



# Meeting notes

- Paul Lyttle gave an update on the status of the cross boundaries: at the time of this meeting 8 are yet to be registered and 10 are needing metering or final installations to be completed by 1<sup>st</sup> May.
- On completion there should be 47 cross boundaries between CitiPower and United Energy profile areas.
- Participants with outstanding cross boundary meters have indicated they expect all to be in place prior to 1 May

# GS Implementation Impacts

Greg Minney & Darren Bandy

# GS Implementation Impacts



Area of Difference / Exception	Impact noted	How Addressed	Impacts In Prod ( pre 1 May)	How addressed at 1 May	Responsibility and Impact if not addressed for 1 May
<b>NMI Classification - Bulk / Wholesale/ Dwholesale and Profile Data Source alignment</b>					
Delays in classification by TNSPs	Early UFE reporting in certain Profile Area impacted	Classifications updated and backdated to 1 Oct. in both Prod and Pre-prod	UFE Reported in recent runs only will reflect updated config. No impact to Settlement by Difference for Local Retailer	Calculations incorporate updated classifications from 1 May,	This has been addressed
NMI Reclassification for specific complex site scenarios	UFE values and allocations in certain Profile Areas changed to reflect energy flows	Classifications Backdated in Prod and Preprod (changes to profile mapping inclusions and PDSW)	UFE Reported in recent runs only will reflect updated config. No impact to Settlement by Difference for Local Retailer	Calculations incorporate updated classifications from 1 Oct	Configurations identified have been updated in both Prod and Pre-Prod AEMO to continue to address with updates reflected in settlement revision cycles
<b>Tier 1 Basic Data stream Activation and metering</b>					
not all Tier 1 Basic Meters providing metering data from 1 Oct	Increase in reported UFE for Profile Area where tier 1 Basic Meters have not been activated and metering data delivered	Participant activation and Metering Data Delivery	Impacts incorporated into profile Area UFE as meters activated and metering data delivered since 1 October	39 tier 1 basic NMIs currently not activated - participants continue to address but impact considered immaterial. 29 NMIs in single profile Area	Participant compliance obligation will be managed via metering data quality reports. Metering Data where supplied will be incorporated into subsequent revisions

# GS Implementation Impacts

Area of Difference / Exception	Impact noted	How Addressed	Impacts In Prod ( pre 1 May)	How addressed at 1 May	Responsibility and Impact if not addressed for 1 May
<b>Non Contestable Unmetered Load</b>					
NCONUML populated	Included in Soft start Reporting but not included in settlement prior 1 May, based on profiles agreed with FRMP, NMIs must be active and metring delivered, absence of metering data will inflate UFE for the profile area	All Identified NMIs populated and providing Data required to confirm delivery	NCONUML metering data is incorporated into reported UFE (via RM reports), but not included in settlement by difference accounts. Where metering data is not delivered for NCONUML NMIs the UFE reported will be overstated	Active NCONUML incorporated into allocated energy at 1 May for assigned FRMP ( Responsibility for energy with "previous" LR)	DNSP / MDP responsibility to endure identified , active and agreed NCONUML sites are providing metering data. Metering data delivered for prior periods is incorporated into final / revision statements.
<b>X-Boundary Meters</b>					
Progressive rollout of x-boundary meters during soft start	Inclusion of cross boundary metering flows to reflect more accurate Local Area volumes, include in UFE	In line with timing on Cross Boundary activation and metering delivery flows between areas impact UFE values for those periods	As cross boundary meters are activated and metering data delivered- shifts between profile areas reflect in UFE reports	Participant activation in line with 1 May compliance date. Cross boundary Flows incorporated (along with impact to UFE ) into impacted profile areas from date of data stream activation. Currently 10 greenfield Cross Boundary meters are registered but not active	DNSP Compliance obligation to have implemented identified cross boundary meters prior to 1 May. Currently 10 Greenfield sites exist (2/4)

# GS Implementation Impacts

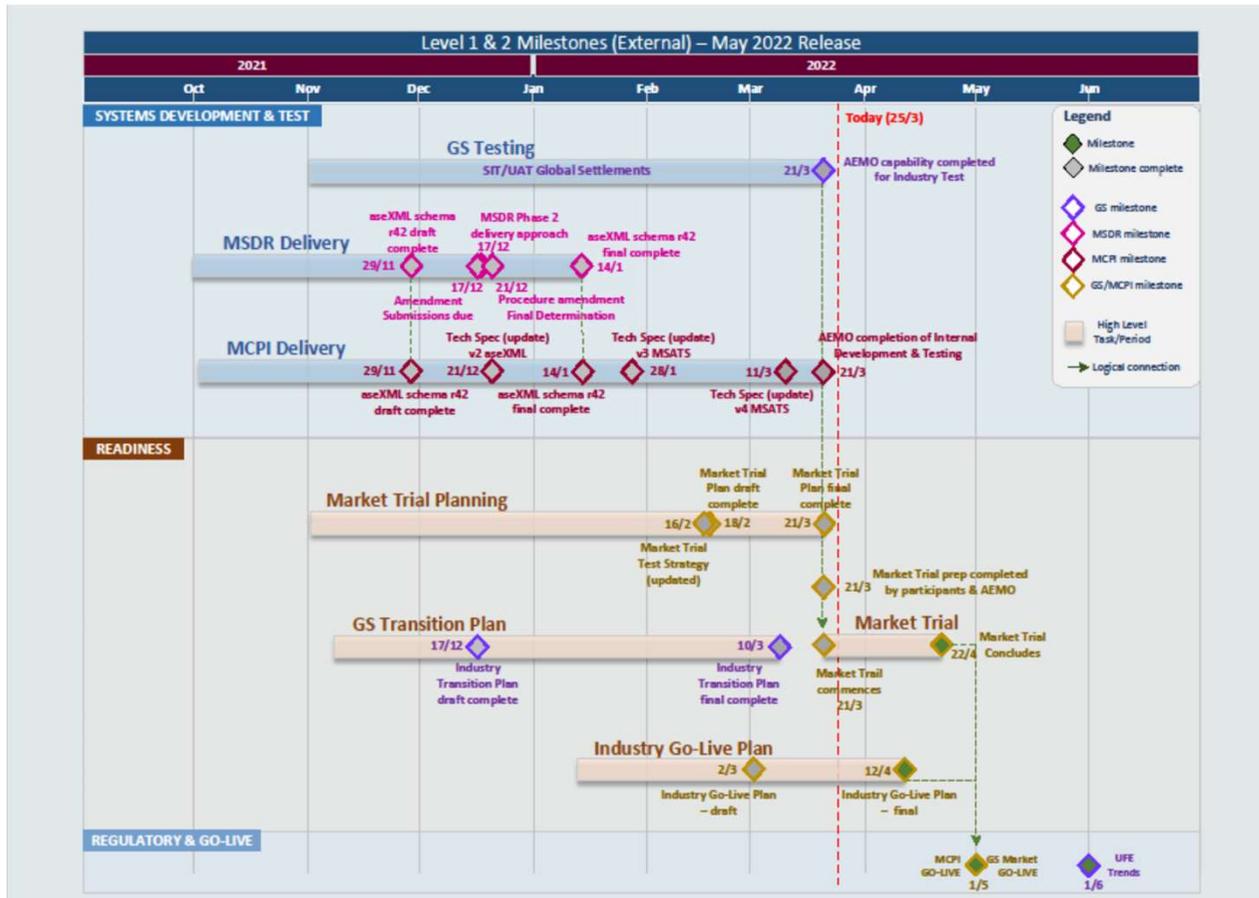


Area of Difference / Exception	Impact noted	How Addressed	Impacts In Prod ( pre 1 May)	How addressed at 1 May	Responsibility and Impact if not addressed for 1 May
<b>Settlement incorporation of UFEA</b>					
	Production reporting of UFEA volumes in settlement prod prior to 1 May will not match RM UFE reports as settlement remains in difference mode until 1 May - Tier 1 reads not be included during soft start period for allocation purposes	Settlement processes will settle via Global Settlement from 1 May	UFEA values (is this UFEA of UFE )during Soft Start period will not incorporate Tier 1 metering and not reconcile to RM metering reports	UFEA values incorporated into settlement volumes and purchases from 1 may	AEMO to ensure fields are populated in MMS, confirmed in Market Trial . NB Amounts are being calculated are posted in alternative areas of the MMS files
<b>RM 43/46 UFEF and ADMELA values c/f Settlement outcomes</b>					
UFEF reported in the RM43 and RM46, and ADMELA reported in the RM46 have slight discrepancies to the equivalent values calculated from the settlement solution	In certain scenario, believed only involving the incorporation of embedded networks where child NMs are generating, there are slight differences in the ADMELA calculations between the Retail and Settlement systems. This is visible in the RM reports publishing ADMELA and the UFEF (UFE/ADMELA). The impact is not to the overall calculation of UFE but to the proportional allocation in the UFEA values by the DME within the profile area. Where a participant is utilising the RM report provided UFEF / ADMELA values for reconciliation a difference to Settlement values may be noted.	AEMO is investigating to confirm the underlying cause of the discrepancy. Current understanding is that the settlement values are correct. The settlements calculated ADMELA is available in the MMS Data Model table EnergyLocalArea.	small differences may be noted in reconciliations performed utilising the RM 43 / 46 reports c/f UFEA	AEMO to progress resolution of reporting differences in RM 43/46 reports	AEMO to progress resolution of reporting differences in RM 43/46 reports. Settlement values are understood to be correct

# GS Market Trials

Greg Minney

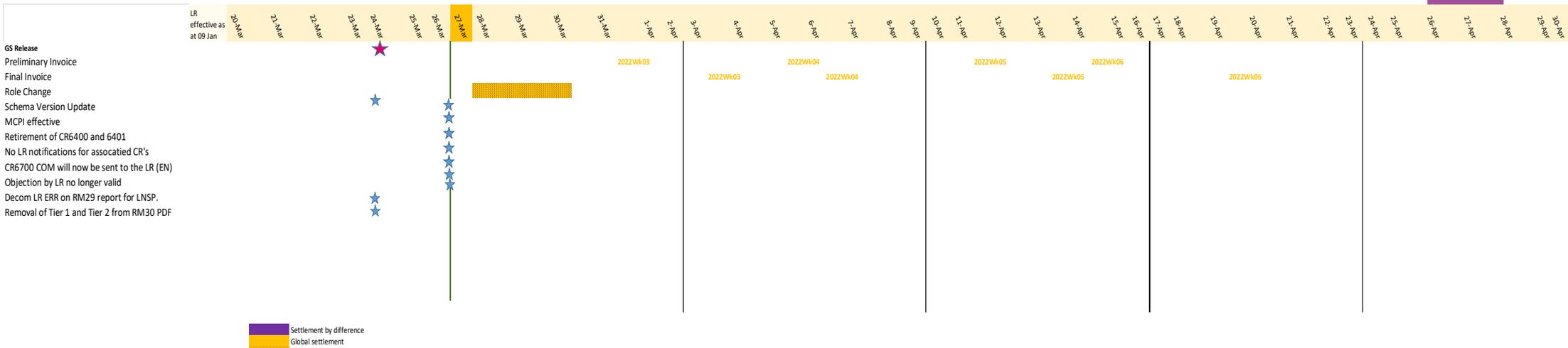
# May 2022 Implementation Approach and Market Trial



- Market Trials in progress- focus on GS settlement runs
- Updates to transition plan timings in progress
- Software Deployment will take place 27<sup>th</sup> April. GS Transition (GLOPOOL Update) 2<sup>nd</sup> May
- First GS Preliminary Invoice 13<sup>th</sup> May

# Planned Market Trial Summary Timeline

- Trial Period Commences 21<sup>st</sup> March



## Progress to date 9/4/22

- Preliminary Invoice 2022WK3 provided Monday 4th
- Redistribution of GS Reconciliation reports in progress, expected completion 11 April
- Participant testing of CR processes continues
- Participant verification of first 3 GS Settlement Runs

# Market Trial GS Settlement Runs

Run	Planned Date	Issue Date	Status	Comment
2022WK3 Prelim	1 April	4 April	●	Prelim issued on 4 April for participant consumption, participant validation in progress
2022WK3 Final	4 April	7 April	●	Issued on 7 <sup>th</sup> April at 11.00am due to environmental issues in pre-prod. Rescheduled to allow participant consumption and verification of 2022WK03 Preliminary prior to issue of Final
2022WK4 Prelim	6 April	8 April	●	Rescheduled as a result of environment issues for 2022WK3 Final
2022WK4 Final	7 April	11th April	●	
2022WK5 Prelim	12 April		●	
2022WK5 Final	14 April		●	
2022WK6 Prelim	15 April		●	Considering reschedule for Easter
2022WK6 Final	20 April		●	

# GS Market Trial – Potential Defects raised



Practitest ID	Description	Priority	Expected resolution Date	Comments
232	CND_04 field on C1 report	Medium	Closed	Refer email with detail of field usage in MSATS
233	Transaction not received for XBOUNDRY where Essential Energy is the NSP2	medium	Closed	not valid, BCT does not current notify NSP2
234	Reconciliation files not matching Specification	High	11 April	AEMO will reissue reconciliation files in correct format for participant testing, post internal business verification
235	Schema Issues - r42 Transactions return a r39_p1 Acknowledgement	medium	Closed	Represents current system operation
236	MSATS rejects retrospective update to Shared Isolation Point Flag	High	Fixed	Deployed 12th April for retest
237	Prelim Settlement invoices does not have line item for UFE Charges	Medium	Closed	No separate line item for UFE
238	Schema Issues - NMI Standing Tags in r42 Schema have an incorrect version - Migration issue seen in previous releases	Medium	Test Ready	Due to missed step in deployment
239	Mismatch between UFE Factor (to calculate UFEA) in setcpdata and RM43 for TNI QTRL for STANWELL	High	Assigned	Issue with RM43/46 identified. Fix in progress. Settlement values calculated correctly
240	Final Settlement Report for 2022Wk03 has a number of differences compared to Production	Medium	Assigned	
241	NMIs excluded from UFE calculation	Medium	Assigned	

# Next Steps and General Business

Greg Minney

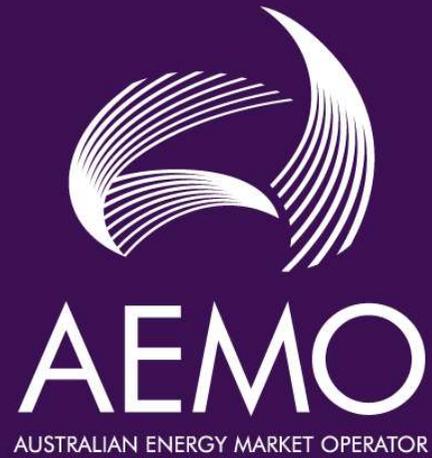
# Next Steps



- Next UFE FG meeting: **Wednesday 18<sup>th</sup> May 2022**
- **Will focus on observations for the preliminary GS Invoice produced 13<sup>th</sup> May**
- **Discussion of industry engagement approach post May**
- Please send through any questions or proposed agenda items to [GSMSDR@aemo.com.au](mailto:GSMSDR@aemo.com.au)

# Meeting notes

- The next meeting is scheduled for the 18<sup>th</sup> May. AGL requested an ad hoc meeting be scheduled or comms be distributed post 1<sup>st</sup> May to advise and confirm what has been completed.
- **Action: GM confirmed comms will be sent in the first week of May.**
- AEMO confirmed the UFE value for local profile areas is available in the RM 46 report. AGL requested the information include Distributor / Jurisdiction and then by NEM.
- **Action: for UFE Trend reports to be delivered in June – AEMO to consider approach for ongoing industry update.**
- AEMO responded to Stanwell's query that market Trial Week 5 preliminary is running presently to be posted 14<sup>th</sup> April and the final to be produced next week.



For more information visit

[aemo.com.au](http://aemo.com.au)