

5MS & GS Readiness Working Group #7

Tuesday 10th December, 2019

AEMO Offices:

Level 9, 99 Gawler Place, Adelaide

Level 10, 10 Eagle Street, Brisbane

Level 22, 530 Collins Street, Melbourne

Level 2, 20 Bond Street, Sydney

**PLEASE NOTE THIS MEETING WILL BE RECORDED FOR THE PURPOSE OF
PREPARING MINUTES**

Agenda

NO	TIME	AGENDA ITEM	RESPONSIBLE
Preliminary matters			
1	10:00am – 10:10am	Welcome, introduction and apologies	Greg Minney
2	10:10am – 10:15am	Notes, actions and feedback from previous meeting	Greg Minney
Matters for noting			
	10:15am – 10:30am	Workstream update: <ul style="list-style-type: none"> • Readiness papers – overview and status • Readiness stakeholder engagement • Metering procedures update • Staging environment update 	Emily Brodie Tui Grant
Matters for discussion			
	10:30am – 10:40am	Debrief on reconciliation support workshop	Blaine Miner
	10:40am – 11:00am	Feedback on Industry readiness reporting plan	Austin Tan
	11:00am – 11:10am	Debrief on Contingency focus group workshop	Austin Tan
	11:10am – 11:20am	Risks and issues workshop outcomes	Greg Minney
	11:20am – 11:40am	B2M APIs and Reallocations adoption and testing	Greg Minney
Other business			
	11:40am – 12:00pm	Forward meeting plan and general questions	Greg Minney

Notes, actions and feedback from previous meeting

Greg Minney

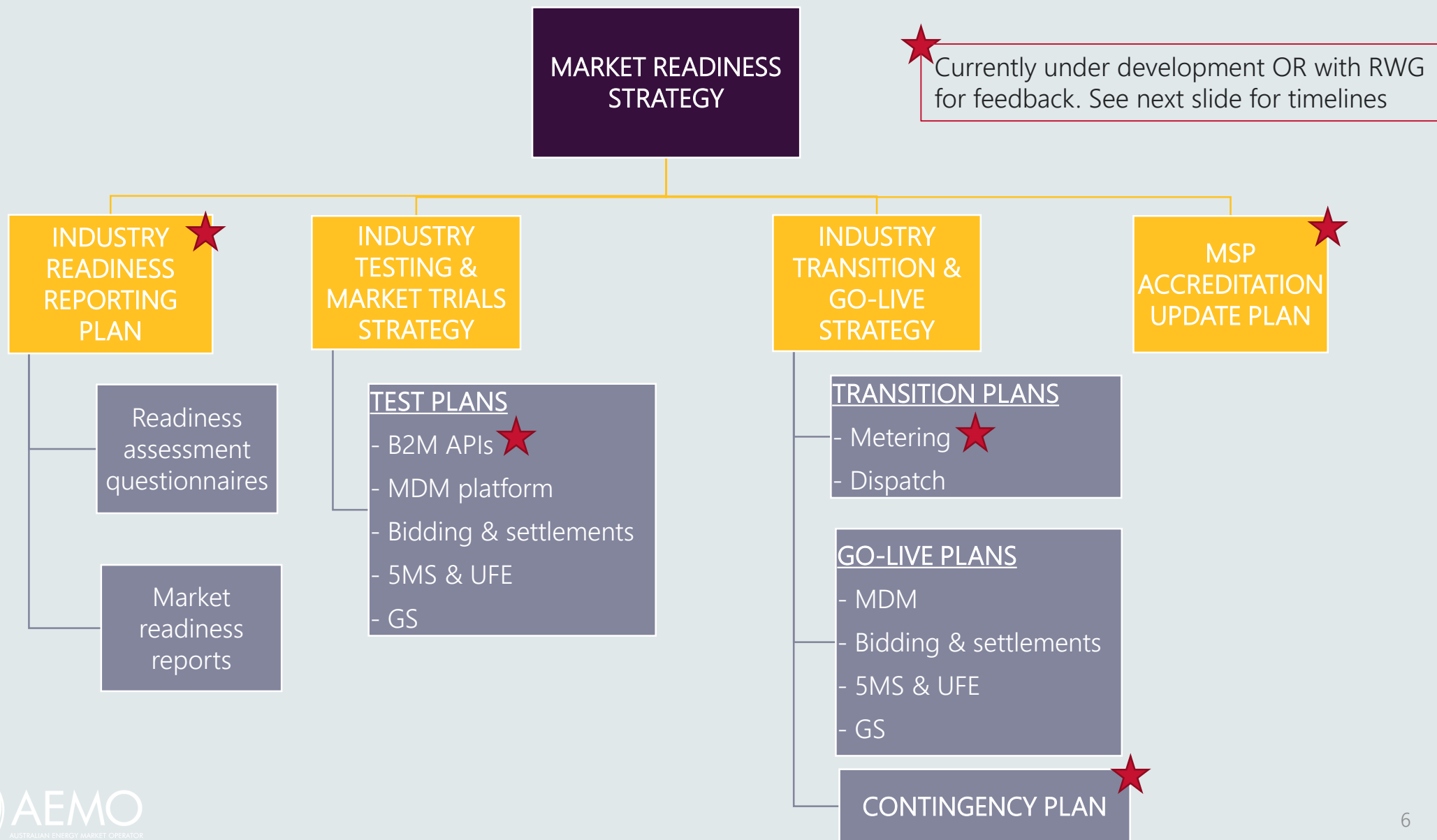
Responses to RWG meeting actions (1)

#	Topic	Action	Response
6.1.1	Contingency planning	AEMO to categorise the contingency strategies to reflect the pre existing risks and actions.	Complete. To be discussed in this RWG #7 meeting.

Workstream update

Emily Brodie and Tui Grant

Readiness papers



Readiness papers - timelines

Item	RWG/ITWG/FG engagement	Draft paper	Consultation	Comments due	Final paper
Industry test and market trial strategy	Jul-19	30-Sep	4 weeks	28-Oct	29-Nov
B2M API – Test plan (invitation only)	Dec-19	31-Dec-19	2 weeks	13-Jan-20	20-Jan-20
Transition and go-live strategy	Jul-19	30-Sep	4 weeks	28-Oct	29-Nov
Metering transition plan	Aug-19 onwards	29-Nov	3 weeks	20-Dec	7-Feb-20
Industry contingency plan	Nov-19	20-Dec	6 weeks	31-Jan-20	13-Mar-20
Industry readiness reporting plan	Sep-19	31-Oct	3 weeks	21-Nov	13-Dec
MSP accreditation update plan	Oct-19	29-Nov	11 weeks	31-Jan-20	21-Feb-20

NOTE: early feedback on documents is welcome

Readiness papers - timelines

	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20
Market readiness strategy			30-Aug	20-Sep	30-Oct							
Industry test and market trial strategy				30-Sep	28-Oct	29-Nov						
Transition and go-live strategy				30-Sep	28-Oct	29-Nov						
Industry contingency plan							20-Dec	31-Jan		13-Mar		
Metering transition plan						29-Nov	20-Dec		7-Feb			
Industry readiness reporting plan					31-Oct	21-Nov	13-Dec					
MSP accreditation update plan						29-Nov		31-Jan		21-Feb		

LEGEND

Early RWG/FG engagement
Draft published
Feedback on draft
Final published

Readiness stakeholder engagement (1)

Past events


- **Reconciliation support workshop #2**
 - Monday, 18 November
 - AEMO offices and Webex
 - To provide in-depth information on UFE reconciliation
- **Staging environment open forums**
 - Tuesday 19 Nov, Tuesday 3 Dec
 - WebEx
 - For anyone who has questions about testing in the 5MS staging environment
- **Contingency focus group workshop**
 - Thursday 28 November
 - AEMO offices and Webex
 - Industry contingency planning for 5MS and GS
- **RWG readiness risks and issues review (out of session)**
 - Thursday, 5 December
 - AEMO offices and Webex
 - Workshop to consider and develop industry readiness risks

Readiness stakeholder engagement (2)

Upcoming events

- **Contingency focus group workshops**
 - Fri 13 Dec, Fri 7 Feb
 - AEMO offices and Webex by request
 - Industry contingency planning for 5MS and GS
- **Industry testing working group**
 - Thursday 12 Dec
 - Face-to-face Melbourne, webex by request
 - First ITWG
- **Staging environment open forums**
 - Tue 17 Dec
 - WebEx
 - For anyone who has questions about testing in the 5MS staging environment

Metering procedures update

- Metering package #3 published Mon 18th November 
- ERCF
 - Currently quarterly, then every two months in 2020
 - Met on 21 November
 - 5MS/GS ICFs: RWD5; customer details on inventory table
 - <https://aemo.com.au/Stakeholder-Consultation/Industry-forums-and-working-groups/Retail-meetings/Electricity-Retail-Consultative-Forum>
- B2B
 - Meets monthly (IEC meets quarterly)
 - Met on Fri 29 November
 - Release v3.4 of B2B procedures commenced consultation. Considers:
 - MDFF file size 10MB
 - MDFF 1,000 transaction limit in file
 - non-contestable unmetered loads – use of existing B2B transactions for this family of NMIs
 - <https://aemo.com.au/Stakeholder-Consultation/Industry-forums-and-working-groups/Retail-meetings/B2B-Working-Group>

5MS/GS-related procedure issues

Procedure issue	Status
Proposed Procedural Change to MDFF Quality flag	AEMO is preparing an ICF for ERCF consideration
Proposal for RWD5	ICF considered at ERCF (21 Nov), to be progressed in 2020 with consideration of 5MS/GS metering transition activities
Sampling and verification processes	ICF submitted with accidental reference to 5MS but is unrelated to 5MS
Removal of end user details from inventory table	ICF considered at ERCF (21 Nov), to be progressed in 2020 with consideration of 5MS/GS metering transition activities
TNI 2 for cross-boundary meters	<p>SWG has been briefed on requirements.</p> <p>Procedure change not required, but procedure clarification desirable.</p> <p>AEMO is preparing an ICF for ERCF consideration, with a view to including in Standing data review consultation (Feb to June 2020)</p>

Staging environment update

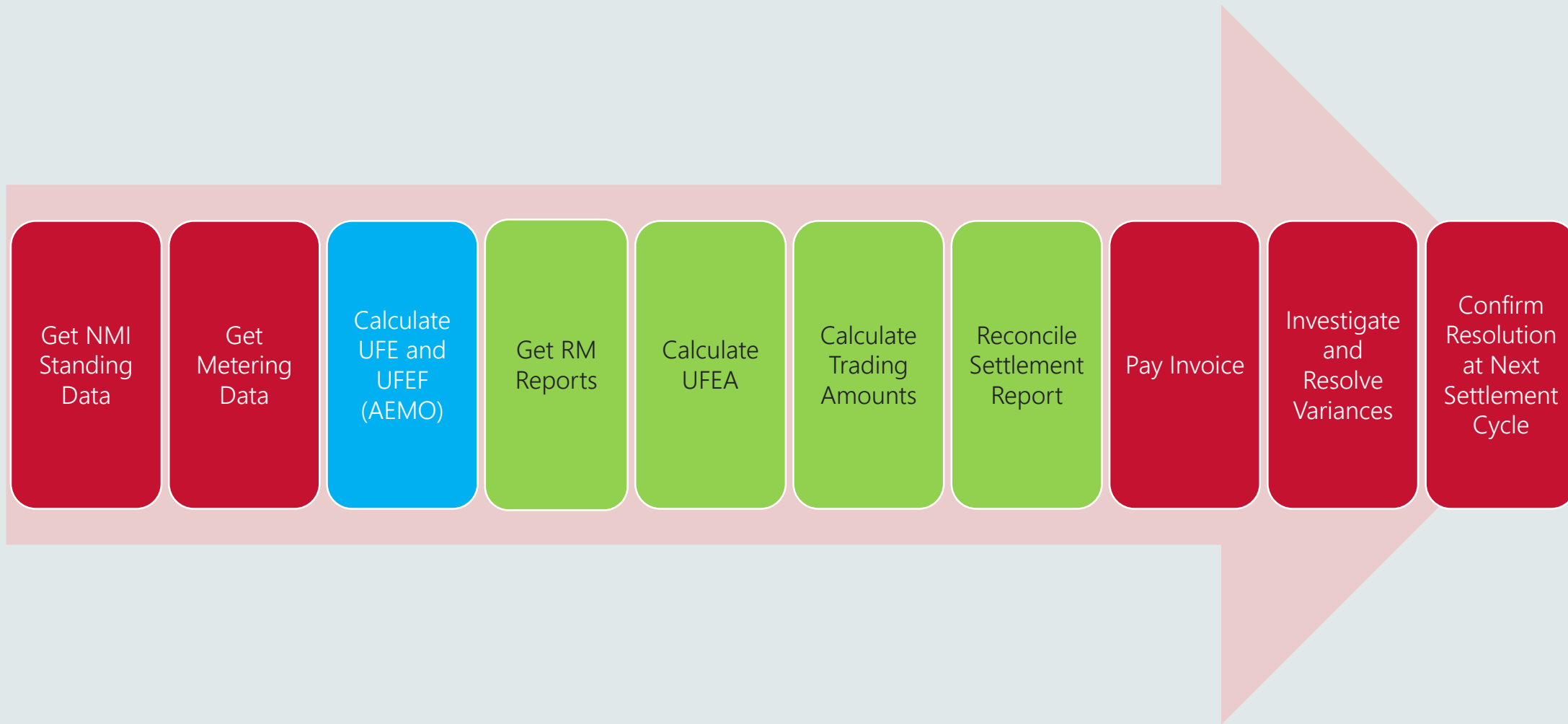
- 15 Participant IDs registered and granted FTP access
- 1 Participant ID registered and granted API access
- Reallocations
 - Live since 1 November
 - 1 issue with multiple calendars reported and addressed
- Bidding
 - Live since 29 November
 - No issues reported at this point in time
- Retail
 - Live since 1 December.
 - 1 issue published in release notes
- Next release due 16th March 2020 for Settlements

<https://aemo.com.au/Electricity/National-Electricity-Market-NEM/Five-Minute-Settlement/Systems-Workstream/Staging-Environment>

Debrief on Reconciliation Support Workshop

Blaine Miner

High-Level Reconciliation Overview



AEMO's Calculation of UFE and UFEF - WiseLand (TI 2)

Local Area 1 = WiseLand (TI 2)

TNIs

WLPH = +120

WLPL = +130

TME = +250

Cross Boundary

E2WNW2E1 = -58

DDME = -58

NMIs (DLF adjusted)

WLPH WLCP000A = +47

WLPH WLCP000B = +17

WLPH WLCP000C = +37

WLPL WLCP000D = +67

WLPL WLCP000E = +57

WLPL WLCP000F = +52

MPEW WLCP000G = +52

MPEW WLCP000H = -40

NMIs with Net Load

ADME = +289

ADMELA = +329

Rules Clause 3.15.5(a)

$UFE = TME - DDME - ADME$

$UFE = 250 - (-58) - 289$

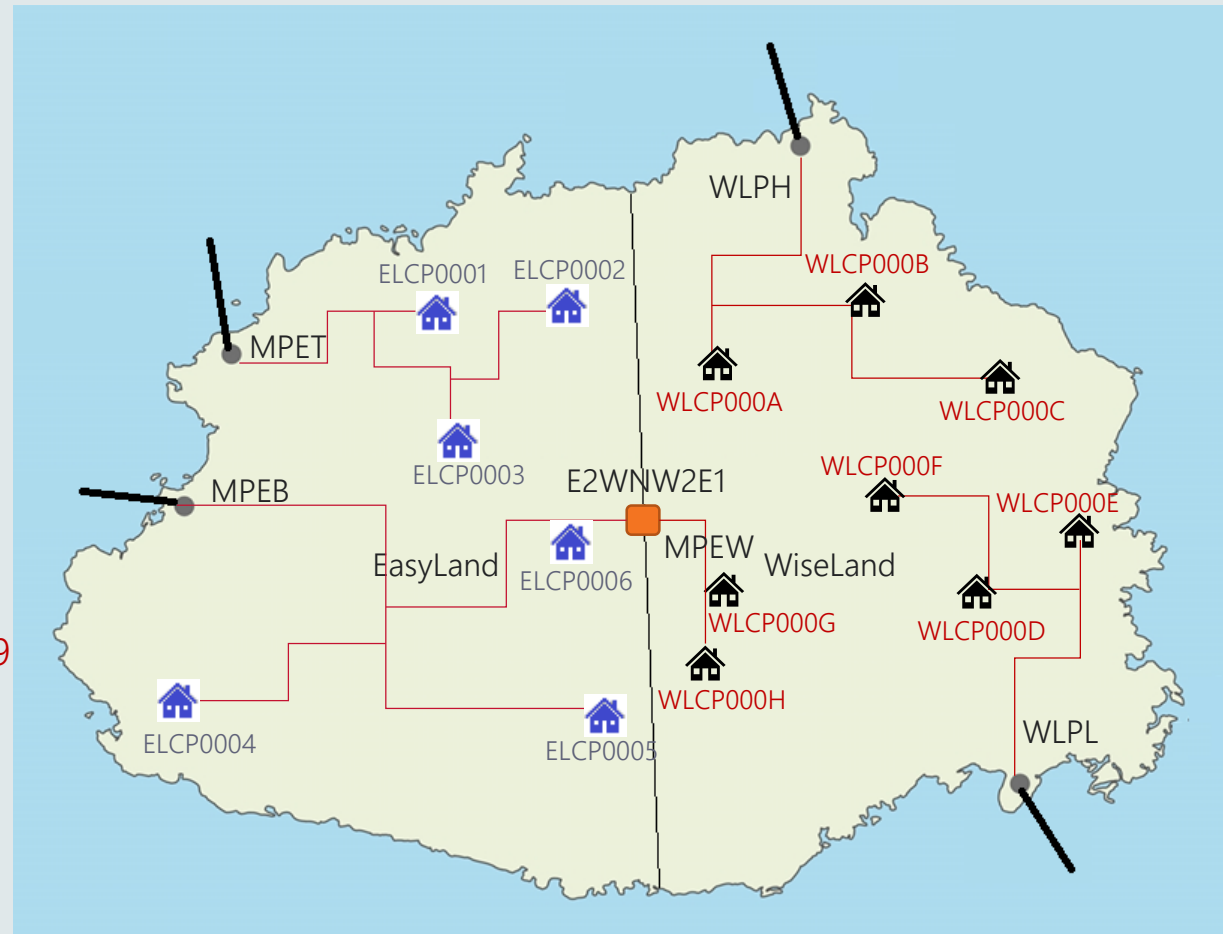
UFE = +19

$UFE\ Factor\ (UFEF) = UFE / ADMELA$

$UFEF = 19 / 329$

UFEF = 0.05775076

(Note: Decimal precision to be confirmed)



RM46 UFE Validation Report

- Purpose to provide values to support the calculation of UFE and UFEF.
- New report to Identify each Local Area for each TI

<csv data>

CASEID, SETTLEMENTTYPE, LOCALAREA, SETTLEMENTDATE, CREATIONDATE, DATATYPE, PERIOD001, PERIOD002, PERIOD..., SEQ

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</csv data>

RM46 UFE Factor Value by Local Area

	(TI 1)	(TI 2)
EasyLand		
TME	250	290
DDME	62	58
ADME	180	222
UFE	8	10
ADMELA	180	222
UFEF	0.044444444	0.04504505

	(TI 1)	(TI 2)
WiseLand		
TME	200	250
DDME	-62	-58
ADME	240	289
UFE	22	19
ADMELA	240	329
UFEF	0.09166667	0.05775076

How to calculate UFEA - Example 2

The RM17 is a:

- NMI level settlement data report
- Providing interval data

<csv data>

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SettlementDate,NMI,Suffix,CreationDT,Period001,Period002,Period..., StatusFlags,SeqNo
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2019/10/05, WLCP000H,N1,2019/10/20,n0000,n0000,,,,,AA.....,3
2019/10/06, WLCP000H,N1,2019/10/20,n0000,n0000,,,,,AA.....,4
2019/10/07, WLCP000H,N1,2019/10/20,n0000,n0000,,,,,AA.....,5
2019/10/08, WLCP000H,N1,2019/10/20,n0000,n0000,,,,,AA.....,6
2019/10/09, WLCP000H,N1,2019/10/20,n0000,n0000,,,,,AA.....,7
```

</csv data>

Calculation of UFEA (WLCP000H ti1)

UFEA = Net Energy ti x UFEF ti

$$= 30 \times 0.09166667$$

$$= 2.7500001$$

Calculation of UFEA (WLCP000H ti2)

UFEA = Net Energy ti x UFEF ti

$$= 0 \times 0.05775076$$

$$= 0$$

Net Energy for period is "Floored" to 0
therefore no UFE is allocated

The RM43 is a:

- UFE Factor report
- Providing a UFE factor for each time interval

<csv data>

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PERIOD002, PERIOD..., SEQ
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```

</csv data>

SR – Base energy summary

Until 5 Feb 2022

Energy Transactions	Aggregate Energy (Mwh)	Trading Amount (\$)	UFE Allocated (Mwh)
Total Sales	250	\$25,000,00	
Total Purchases	289	\$28,900.00	19
Nett Sales (Purchases)	(39)	(\$3,900.00)	(19)

From 6 Feb 2022, UFEA is added to Total Purchases.

Energy Transactions	Aggregate Energy (Mwh)	Trading Amount (\$)	UFE Allocated (Mwh)
Total Sales	250	\$25,000,00	
Total Purchases	308	\$30,800.00	19
Nett Sales (Purchases)	(58)	(\$5,800.00)	(19)

FRMP Reconciliation

FRMPs can reconcile the AEMO settlement data in SETCPDATA using data they can access and applying the following process.

Calculations have been updated based on feedback from workshop regarding calculation of net energy.

- Calculate Net Energy_{NMI}
 - $MDF_{12} = E - B$ per meter interval, profiled as required
 - $MDF_{13} = +\text{values (load)} + -\text{values (generation)}$, profiled

$$\text{Sum Net Energy}_{NMI} \text{ to TNI} = AFE_{TNI}$$

- $AFE_{NMI} \times DLF = DME_{NMI}$
Sum DME_{NMI} to TNI = DME_{TNI}

- $DME_{NMI} \times UFE_{LA} = UFEA_{NMI}$
Sum $UFEA_{NMI}$ to TNI = $UFEA_{TNI}$

- $AFE_{NMI} \times UFEA_{NMI} = AGE_{NMI}$
Sum AGE_{NMI} to TNI = AGE_{TNI}

SETCPDATA

Field Name	Data Type	Description
AFE	NUMBER (18,8)	Adjusted Gross Energy for this Market Customer FRMP and TNI in the trading interval, excluding any UFEA component.
DME	NUMBER (18,8)	Sum of "ME-" for all NMI's at this Market Customer FRMP and TNI in the trading interval.
UFEA	NUMBER (18,8)	Share of UFE allocated to this FRMP and TNI in the trading interval
AGE	NUMBER (18,8)	Adjusted Gross Energy for this Market Customer FRMP and TNI in the trading interval. This will include the UFEA value once financial settlement of UFE commences on 6th Feb 2022.

Industry readiness reporting plan

Austin Tan

Feedback on the Industry readiness reporting plan – overall responses

- 11 responses, five of which either had with no comment, or a minor comment
- Feedback highlights:
 - Requests for more granular increments to track progression
 - Clarification sought on how AEMO presents readiness progress in aggregate, and how responses will be weighted
 - Clarification on who takes part in Readiness reporting
 - Requests for more granular Metering criteria, including differentiation of MSP and MDP responsibilities (*new approach proposed*)

Feedback on the Industry readiness reporting plan – detailed responses (1)

Chapter		Key feedback
2	Framework	<ul style="list-style-type: none"> Two respondents requested that “Required metering accreditation updates” to be included in scope of the readiness stream Clarification that any readiness risks raised through readiness reporting will be discussed with the RWG to the extent that it does not breach confidentiality
4	Process	<ul style="list-style-type: none"> Clarifications on: <ul style="list-style-type: none"> Who takes part in readiness reporting Progress guides for response options Readiness reporting schedule Two requests for more granular percentage increments instead of 25% increments <ul style="list-style-type: none"> Proposed approach: Readiness reporting will commence with 25% increments, with the combination of reporting on progress and status providing a granular view of readiness. Further increments can be considered closer to the commencement date.
5	Summary Reporting	<ul style="list-style-type: none"> Suggestion for additional section on how comparison to prior reporting periods will be conveyed Clarification requested on what measures are in places to encourage consistently high response rates to the readiness questionnaire: <ul style="list-style-type: none"> Proposed approach: AEMO will publish the names of organizations that respond to each survey, to the extent that it does not create confidentiality issues. Clarifications on the weighted average methodology for each criteria Clarifications on how risks and issues are identified and managed

Feedback on the Industry readiness reporting plan – detailed responses (2)

Chapter		Key feedback
A1.1	General Criteria	<ul style="list-style-type: none"> • One request for more granular criteria involving people/process/tech. • One request to differentiate between 5MS and GS program delivery
A1.2	Specific Criteria – Retailer	<ul style="list-style-type: none"> • Suggestion that LR and Tier 2 retailer should have different criteria • Suggestion to include criteria related to receiving and processing new NMI class codes • Proposed approach: include additional activities in MTP to capture FRMP, LR, DNSP ability to receive and process.
A1.3	Specific Criteria - Generator	<ul style="list-style-type: none"> • n/a
A1.4	Specific Criteria - DNSP	<ul style="list-style-type: none"> • Suggestion to include criteria related to <ul style="list-style-type: none"> • receiving and processing new NMI class codes, • ability to receive and process 5 min metering data • Clarification on standing data criteria
A1.5	Specific Criteria - TNSP	<ul style="list-style-type: none"> • Suggestion to include criteria related to <ul style="list-style-type: none"> • receiving and processing new NMI class codes, • ability to receive and process 5 min metering data
A1.6	Specific Criteria - MSP	<ul style="list-style-type: none"> • Suggestions that MP and MDP responsibilities should be differentiated • Suggestions that there would be more reporting value if readiness criteria related to metering was more granular • Proposed approach: <i>See next slide</i> • Alignment of transition and end dates and references to updated Metering Transition Plan
A1.7	Specific Criteria - AEMO	<ul style="list-style-type: none"> • Suggestions to expand GS related criteria • Refinement of existing criteria based on internal feedback

Metering Transition Plan – Monitoring criteria

- As proposed in the readiness reporting plan, participants will be asked to report on general criteria and specific criteria for each participant type
- To monitor the Metering Transition Plan, it is proposed participants will also provide status reporting on the MTP at a sub-category level. This will be an additional component of readiness reporting, with participants only requested to report on subcategories specific to the participant type(s) they represent.
- Please send any feedback to 5MS@aemo.com.au by COB Wednesday 11 December.

Metering Transition Plan – Monitoring criteria example

Example format of MTP monitoring criteria – for Metering Providers (not exhaustive)

- For the following sub-categories defined in the MTP, is your organisation on track to complete the associated activities (MP related only) by the defined transition end date?

Category	Sub-Cat ID	Activity ID	Sub-Cat Description	Status
Meter Installation and Reconfiguration	S01	A1, A2, A4, A5	BULK/Wholesale Meters	
	S02	A6, A7, A9, A10	Type 1-3 meters	
	S03	A11, A12, A14, A15	Subset of type 4 meters - TNI, Market Generator or SGA	
	S04	A16, A17, A19, A20	Cross Boundary meters (KNOWN)	
	S05	A21, A23	Cross Boundary meters (UNKNOWN)	

Response options

- On track
- At risk
- Late

Sub Category	Sub-Cat ID	Activity ID	Activity ID	Responsibility
BULK/Wholesale Meters	S01	A1	Identify which meters need replacing or reconfiguring	MP
		A2	Initial assessment of whether data storage exemptions may be required	MP
		A3	Provide visibility of approach / timeframe for required meter replacement or reconfiguration	MC
		A4	Install or reconfigure meters as required	MP
		A5	Apply for data storage exemptions as required	MP

Slide updated for RWG 7

Debrief on Contingency focus group workshop

Austin Tan

Contingency Focus Group #1 – Debrief (1)

- First meeting held on 28 November 2019
- AEMO presented 33 contingency scenarios and the CFG confirmed the scope of the Industry contingency plan scenarios
- General feedback from CFG
 - Link between the Contingency scenarios and Industry risk and issues register needs to be clearly defined/communicated. This will be explored further at the Risks Workshop on 5 December 2019
 - Add additional context for contingency planning scenarios
 - Consider differentiating contingency scenarios by duration and timing (before or after rule commencement date)
 - Consider if risks and contingencies are required to support 1 Dec 2022 rule requirements
 - Ensure that final Industry risk and issues register is updated to include references to contingency scenarios
- Specific feedback on each scenario including refinements to scenario wording and descriptions, clarification of scope, and contingency response suggestions were also captured.

Contingency Focus Group # 1 – Debrief (2)

- CFG # 1 Notes to be circulated and uploaded to AEMO website
- The next Contingency Focus Group will be held on Friday 13 December 10am-1pm.
 - AEMO will circulate the update register of Contingency scenarios before the workshop, including scenario updates arising from the Risk workshop
 - Continue drafting of the following for each scenario:
 - Triggers
 - Actions
 - Affected parties
 - Priority
 - Monitoring mechanism
 - Contingency response
- CFG 3 *placeholder* on 7 February 2020 to discuss draft Contingency plan.

Developing the Industry contingency plan



Risks and issues workshop outcomes

Greg Minney

Risks workshop objectives

1. Discuss the RWG risk identification and management approach
2. Review and confirm risks that have been allocated to RWG by PCF
3. Include any new risks and issues identified by the RWG
4. Propose appropriate description of timing, duration and impact, mitigation and review dates of readiness risks
5. Cross-reference risks to contingency scenarios

Risk workshop verbal update

- Placeholder for verbal update on RWG Risk workshop to be held Thursday 5 December.

Readiness risk management approach – for discussion

- RWG to move to a risk review cycle based on the readiness reporting cycle
 - Current approach is aligned to PCF risk review cycle
- Benefits:
 - Enables risk management in same timeframe as risks and issues emerge through readiness reporting
 - Includes consideration of industry feedback on risks raised through readiness reporting
- Outputs of RWG risk workshops will include:
 - Assessment of risk trends
 - Recommendations for mitigations or escalation

Industry cutover plans: B2M API's and Reallocations

Greg Minney

Context

- Outline the planned cutover approach for:
 - B2M via API's release (supported by invitation industry testing)
 - Reallocations release (supported by industry testing)
- Highlight planning assumptions for cutovers
- Confirm dates for lead-up activities (including testing)

Cutover approach – for discussion

- Both releases involve the introduction of new (additional) capability to current market systems.
- Integrated cutover plans and communications **not** required:
 - No existing participant interfaces require update at cutover
 - No data conversion to be performed at cutover
- AEMO will:
 - Deploy the capability into production once testing and assurance successfully completed
 - Confirm successful deployment of capability and production availability
- Participants can deploy in-line with their own program delivery
 - Participant deployment of capability is optional and occurs after AEMO systems have been deployed
 - As usual, the pre-prod environment will be available for participant testing once the releases are in production

Planning timeframes

	Draft plan	Test start	Test finish	Final plan	Cutover date
B2M APIs	Mid-Jan 20	17-Feb-20	16-Mar-20	28-Feb-20	17-Mar-20
Reallocations	Mid-Jan 20	17-Feb-20	13-Mar-20	28-Feb-20	1-Apr-20

- NOTE: 17 March deployment milestone of B2M APIs has been identified as amber (at risk).
- Discussion: what are the potential impacts to participants' programs if the B2M API cutover milestone shifts?

Forward meeting plan

Greg Minney

Upcoming RWG meetings: Proposed content

- Seeking feedback for proposed content/topic areas

Meeting Date	Meeting	Proposed Content
12 Feb 20	RWG#8	<ul style="list-style-type: none">• Cutover approaches for B2M APIs and Reallocations• RWG feedback on Industry contingency plan• RWG feedback on MSP accreditation update plan• Metering transition plan updates
11 Mar 20	RWG #9	<ul style="list-style-type: none">• Industry readiness reporting: Round #1 report• Cutover approaches for B2M APIs and Reallocations

Upcoming meetings

Meetings and forum dates:

<http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Five-Minute-Settlement>

DECEMBER							JANUARY						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7	29	30	31	1	2	3	4
8	9	10	11	12	13	14	5	6	7	8	9	10	11
15	16	17	18	19	20	21	12	13	14	15	16	17	18
22	23	24	25	26	27	28	19	20	21	22	23	24	25
29	30	31	1	2	3	4	26	27	28	29	30	31	1
5	6	7	8	9	10	11	2	3	4	5	6	7	8

Forums/Working Groups
Executive (EF)
Program Consult. (PCF)
Procedures (PWG)
Systems (SWG)
Readiness (RWG)

Focus Groups
Dispatch
Metering
Settlements
Transition
Reconciliation
Contingency

Other
Information session
National Public Holiday
State Public Holiday*

Current as at 15-10-2019

General questions

Greg Minney

