

5MS & GS Readiness Working Group #8

Wednesday 12th February, 2020

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
Prelim	ninary 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
Matte	rs for noting		
3	10:15am – 10:20am	Reschedule of B2M APIs	Greg Minney
4	10:20am – 10:40am	 Workstream update: Program milestones Readiness papers – overview and status Readiness stakeholder engagement ITWG update Staging environment update Metering procedures update 	Greg Minney Emily Brodie Tui Grant
Matte	rs for discussion	Market and the second s	
5	10:40am – 11:05am	Metering transition plan:Feedback on final planManaging issues arising from MTP implementation	Austin Tan Emily Brodie
6	11:05am - 11:20am	Industry contingency plan:RWG feedbackNext steps	Greg Minney
7	11:20am – 11:25	MSP accreditation update planRWG feedbackNext steps	Emily Brodie
8	11:25am - 11:30am	Cutover approaches for Reallocations	Greg Minney
Other	business		
9	11:30am – 11:45am	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
7.5.1	Readiness reporting	RWG to provide feedback on the Industry readiness reporting proposed approaches	2 responses received. No issues were raised. Readiness reporting has commenced.
7.8.1	B2M API cutover	RWG to provide feedback on the impact to their organisations programs if the B2M API cutover milestone shifts.	1 response received. No impacts raised.



Reschedule of B2M APIs

Greg Minney



B2M via API release

<u>Impact Assessment Required:</u> PCF to provide feedback by Friday 21 February of internal program impacts

ID	Stream	Milestone	Planned Date	Expected Date	%	Comments
New L2-M14	Metering	B2M via API Go Live	17-Mar-20	07-Dec-20	70%	AEMO has experienced delays establishing the MarketNet link to AEMOs new API Gateway in conjunction with the legacy SMP e-Hub API Gateway. AEMO proposes a new go-live date of 07-Dec-2020 which will align with the Milestone of the 30-min Metering solution go-live. This will allow time saving on additional testing, deployment and cutover activities required with two separate go-lives. Initially AEMO targeted a phased deployment from this activity, but due to the delay, advantages gained by this approach are minimal. Feedback received so far from market participants is that there is minimal advantage deploying this early (due to the low number of participants using the software).



Workstream update

Greg Minney, Emily Brodie and Tui Grant



Program milestone updates?

 DISCUSSION: what is value/interest in having an RWG standing agenda item covering 5MS program implementation milestones consistent with monthly PCF pack?



Readiness papers





Currently under development OR with RWG for feedback. See next slide for timelines



Complete

INDUSTRY V **READINESS** REPORTING **PLAN**

> Readiness assessment questionnaires

> > Market readiness reports

<u>INDUSTRY</u> **TESTING & MARKET TRIALS STRATEGY**

TEST PLANS

- B2M APIs *TBC
- MDM platform
- Bidding & settlements
- 5MS & UFE

- GS

INDUSTRY TRANSITION & GO-LIVE STRATEGY

MSP ACCREDITATION UPDATE PLAN

TRANSITION PLANS



Metering *To be published on Fri 7 Feb 20

- Dispatch

GO-LIVE PLANS

- MDM
- Bidding & settlements
- 5MS & UFE
- GS

CONTINGENCY PLAN



Readiness papers - timelines

Readiness paper	RWG/ITWG/FG engagement	Draft paper	Consultation	Comments due	Final paper
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

	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-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	



NOTE: early feedback on documents is welcome

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

Maintaining readiness papers

- As and when milestone changes or other relevant program changes are agreed and implemented, AEMO will update the relevant readiness strategies and plans.
- For example, the B2M API delivery change will require changes to:
 - Transition and go-live strategy
 - Industry test and market trial strategy
 - B2M API test plan
- AEMO will endeavour to update these plans within 5 working days of the changes being approved.



Readiness reporting - timelines

Readiness reporting	Survey released	Survey responses due	Distribute results	Discuss at RWG	Discuss at PCF	Discuss at EF
Round #1	05-Feb-20	14-Feb-20	28-Feb-20	11-Mar-20	05-Mar-20	Proposed 12-Mar-20
Round #2	14-Apr-20	23-Apr-20	07-May-20	14-May-20	02-Jun-20	Proposed 11-Jun-20
Round #3	07-Jul-20	16-Jul-20	30-Jul-20	13-Aug-20	03-Sep-20	Proposed 07-Sep-20
Round #4	01-Sep-20	10-Sep-20	24-Sep-20	08-Oct-20	05-Nov-20	19-Nov-20
Round #5	03-Nov-20	12-Nov-20	26-Nov-20	09-Dec-20	tbc	tbc

		FEB		N	MAR	A	PR	N	IAY	JUN		JUL		AUG		SEP		ОСТ		NOV		DEC
Round #1	Wed 5 Feb	Fri 14 Feb	Fri 28 Feb	Thu 5 Mar	Wed 11 Mar																	
Round #2						Tue 14 Apr	Thu 23 Apr	Thu 7 May	Thu 14 May	Tue 2 Jun												
Round #3											Tue 7 Jun	Thu 16 Jun	Thu 30 Jul	Thu 13 Aug	Thu 3 Sep							
Round #4															Tue 1 Sep	Thu 10 Sep	Thu 24 Sep	Thu 8 Oct	Thu 5 Nov			
Round #5																			Tue 3 Nov	Thu 12 Nov	Thu 26 Nov	Thu 9 Dec



Survey released
Responses due
Results distributed
Discuss at RWG
Discuss at PCF

Readiness stakeholder engagement (1/2)

Past 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
 - ITWG #1 Thursday 12 Dec
 - Face-to-face Melbourne, webex by request
 - ITWG #2, Wed 29 Jan 20
 - Webex
- Staging environment open forums
 - Tue 17 Dec
 - WebEx
 - For anyone who had questions about testing in the 5MS staging environment



Readiness stakeholder engagement (2/2)

Upcoming events

- Staging environment open forums if sufficient interest
 - March TBC
 - WebEx
 - Specifically to assist with settlements release
 - For anyone who has questions about testing in the 5MS staging environment



Industry testing working group - update

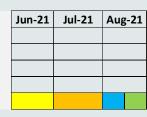
- Discussed bringing GS market test date forward. Consideration for the amount of data setup required by all parties if this date is brought forward does not provide as much benefit as leaving the testing in the currently scheduled date.
- There was a request to provide more detail on the scope of the planned releases than what was available in the test **strategy**. It was explained that the detail is driven by the RWG and the approach taken to updating market data. Now that this is more defined, test **plans** can be developed with a more detailed scope and approach to testing outcomes.
- Walk through of the schema changes and discussion on if/when this would be tested with the market and under which program.
- Discussion on performance testing to be performed by AEMO for ehub.



Test plans - timelines

Test plan	ITWG engagement	Draft paper	Consultation	Comments due	Final paper
B2M API (invitation only)	Dec-19	TBC	TBC	TBC	TBC
MDM platform (market trial)	Jun-20	Jul-20	Jul-20		Aug-20
Dispatch and settlement (market trial)	Oct-20	Nov-20	Nov-20		Dec-20
5MS capability and UFE (market trial)	Oct-20	Nov-20	Dec-20		Jan-21
GS capability (market trial)	Jun-21	Jul-21	Aug-21		Aug-21

	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21
B2M API (Invitation only)														
MDM platform (market trial)														
Dispatch and settlement (market trial)														
5MS capability and UFE (market trial)														
GS capability (market trial)														





NOTE: early feedback on documents is welcome

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

Staging environment update: Settlements

Settlements Package 2 is due to be deployed in the 5MS Staging Environment 16 March 2020.

- Initial deployment will be configured for 30-minute settlement only, with transition to 5-minute trading intervals and global settlement to follow.
- Functions being made available are:
 - Prelim, Final, and Revision Settlements
 - Invoicing (Tax Invoice, RCTI, Adjustment Note, etc)
 - Reconciliation reports (SR, SS, etc)
 - Data Interchange
 - Settlements Direct (Production version, no API's)
- Environment will initially use a data snapshot from the EMMS Production system, to be taken in early February 2020. Integration with the Dispatch and Reallocations staging environment will **not** initially be on offer.
- 5-minute metering and UFE data will be artificially created for the staging environment.



Metering procedures update

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 15/16 January
- 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 change log

Procedure issue	Status
MDFF file size and transaction limit in file	 Initial feedback to first stage B2B procedures consultation showed majority support for: 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
Proposed Procedural Change to MDFF Quality flag	AEMO will submit an ICF for ERCF consideration in February
Proposal for RWD[?]	ICF considered at ERCF (21 Nov), to be progressed in 2020 as part of the MSATS standing data review (Feb to June 2020) with consideration of 5MS/GS metering transition activities.
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	SWG has been briefed on requirements. While Participants don't have to populate the TNI2 field (AEMO will, similarly to NSP2), they will have to ensure that their systems can receive TNI2. AEMO is preparing an ICF to include TNI 2 in the MSATS standing data review consultation (Feb to June 2020) with consideration of 5MS/GS metering transition activities.

Timeframes for prospective 5MS metering procedure changes

Issues:

- Metrology procedures have a mandatory 3-month lead time from finalisation date to effective date
- There may be a need to do a procedure change consultation for 5MS and GS metering procedures if issues emerge through readiness and implementation activities
- There will be a need to do a "wash-up" consolidation of procedural changes for 5MS/GS and other changes separate to 5MS/GS

Approach:

- "Wash-up' consolidation can occur with a short-form consultation as each separate change will have already been consulted on.
- If a full, 6-month consultation for 5MS and GS impacts to metrology procedures is required, then consultation needs to be complete by 1 April 2021 for a 1 July 2021 effective date
- Therefore the latest AEMO can start a full procedure consultation is:
 - 1 Oct 2020 if including Metrology procedures
 - 1 Jan 2021 if not including Metrology procedures
- AEMO and participants will monitor potential procedure changes via 5MS forums, B2B, ERCF and, importantly, via 5MS readiness reporting
- If material procedure issues arise after 1 Sep 2020 then AEMO will do an impact assessment at the time to determine its approach in consultation with affected parties



Metering transition plan - update

Austin Tan, Emily Brodie



Metering transition plan consultation responses – key themes

#	Feedback	Response
a)	Some debate over 'by' and 'from' dates	 Clarifications on the 5MS rule requirements and timelines 5MS rule requires that certain metering capabilities are in place 'from' market commencement on 1 July 2021 Most MTP activities need to be completed by 1 July 2021 to support 5MS and UFE calculation from 1 July 2021.
b)	Requests for clarification on transition start dates where no start dates were specified in the draft plan	 Where appropriate, transition start dates specified for relevant activities e.g. for MSASTS standing data creation. Clarification in the MTP that when no transition start date is specified, participants may commence the transition at their own discretion
c)	Requests for AEMO to provide detail on the expected nature of agreements between two or more participants e.g. Agreement to allow the delivery of 5min metering data pre 1 July 2021 between NSP, Retailer, MDP and AEMO.	 It is inappropriate for AEMO to specify the nature of agreements between participants. Participants are expected to work together and negotiate an appropriate agreement.
d)	Requests for further detail on implementing various activities in the Metering Transition Plan	 As appropriate, AEMO intends to work on implementation detail in conjunction with the Transition Focus Group (see slide 24)

Metering transition plan – other feedback

#	Feedback	Response
e)	 Specific feedback and queries on MTP activities detailed in Excel spreadsheet 120 detailed comments were received 	 Various updates to MTP spreadsheet based on feedback, including wording of activities, responsible party, and directly affected parties Specific feedback on each MTP activity provided to the RWG in MTP spreadsheet. Feedback has been consolidated and no organisation is identifiable. Further consideration of issues can occur via the TFG/RWG as appropriate (see slide 24).
f)	Various feedback on the MTP word document	 Various parts of the document updated in-line with other readiness strategy documents Added additional, new transition principles specific to the MTP Added new section on how the MTP will be maintained Added new table defining elements of the MTP Added diagrammatic view of the MTP



Managing issues arising from MTP implementation

- There may be current MTP implementation issues that participants are experiencing and it is expected that issues will also emerge as participants work through the 5MS/GS metering/metering data changes.
- AEMO will continue to work in collaboration with the TFG as necessary to:
 - Develop further details on how specific activities in the plan will be actioned
 - Undertake regular reviews of the plan using readiness reporting and other relevant information as inputs
 - Recommend any MTP changes to the RWG
 - Provide progress reports to the RWG for it to consider and manage any readiness risks arising from the MTP's implementation.
- Any participant or AEMO can propose an update to the Metering transition plan at any time to support its effective implementation. Proposals will be considered by AEMO, the TFG or RWG as appropriate.

DISCUSSION

- What are the current issues that need discussion at TFG? What timing/format is suitable to meet?
- First round of readiness reporting may reveal MTP issues results released 28 Feb. Consider reconvening after March RWG...

Industry readiness contingency plan

Greg Minney



Summary of feedback to Industry readiness contingency plan

• 9 responses, of which 3 had no further comment

#	Feedback	Initial AEMO response
a)	Explicitly reference BAU contingency processes	Agree – will reflect in final plan
b)	Be more specific about duration and impact of delays to systems go-lives	Agree – will reflect in final plan
c)	Queries that are specific to one participant	AEMO to follow up with relevant participants to discuss or clarify
d)	Queries tangentially related to contingency plan	 AEMO to follow up with relevant participants to discuss or clarify
	Clarification of "critical mass" of participants not ready to operate	 Agree – will provide more context and/or detail in final plan
	For platform deployment delays, assessment should differentiate between a recoverable delay pre 1/7/21 vs a delay post rule commencement	 Agree – will address. DISCUSSION: an update to each deployment delay contingency (settlements, metering, dispatch) OR does this trigger the "AEMO not ready to operate" scenario?
	Requests for more detail on the priority and triggers on the "AEMO 'not ready' to operate" scenario	Agree – will reflect in final plan

Next steps

Early engagement

RWG #4: 24 Sep RWG #5: 22 Oct RWG #6: 15 Nov

- RWG discusses contingency planning approach
- AEMO seeks early feedback from RWG

Workshops

- AEMO develops/circulates contingency scenario strawperson
- Contingency focus group to develop and finalise the contingency scenarios and responses
- Readiness risk workshop

Contingency FG #1: 28 Nov Readiness risk workshop #1: 5 Dec Contingency FG #2: 13 Dec

Draft plan

Fri 20 Dec

 AEMO to incorporate contingency scenarios and responses into draft Industry contingency plan to RWG for comment

Feedback

 Participants comment and provide suggestions on draft plan to AEMO

Fri 31 Jan

Final plan

 AEMO publishes final plan after considering suggestions from participants

Fri 28 Feb

Periodic revisions



MSP accreditation update plan

Emily Brodie



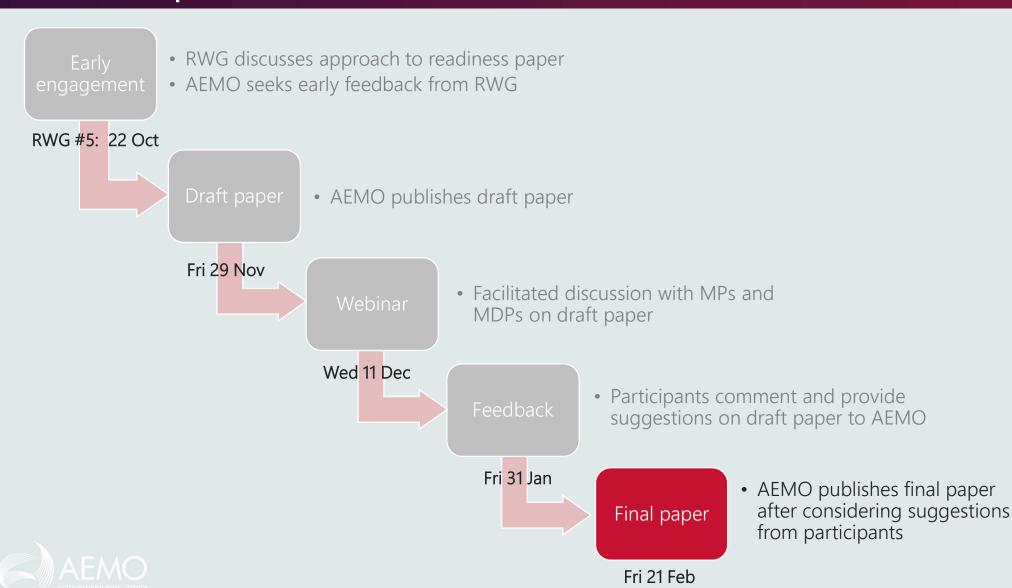
Summary of feedback to MSP accreditation update plan

• 6 respondents, 4 had no further comment

#	Feedback	Initial AEMO response	
a)	Clarify accreditation update process responsibilities and timings	Agree – will reflect in plan	
b)	Clarify AEMO's approach to accreditation update fees	 Agree – will reflect in plan Fees will apply in accordance with the Qualification Procedure, Section 3.4: Fees are payable for an application for accreditation and registration and any subsequent application for re-accreditation. 	n
c)	Ensure alignment with Metering transition plan	Agree – will review and update where necessary	



Next steps

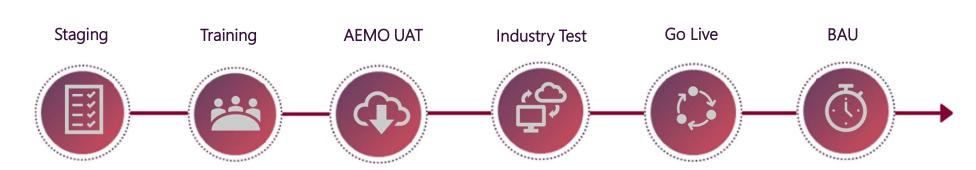


Cutover approaches for Reallocations

Greg Minney



5MS Release 1: Reallocations



From 01 Nov 2019

- Software published and available for participants to interact with.
- Industrydiscovered defects submitted via Support Hub.

01 Nov 2020

- Tech Spec published and available for participants
- User Guide published and available for participants

Jan 2020

- Internal AEMO testing, only a few P4s (cosmetic) defects remaining.
- AEMO business has accepted the results of testing.

26 Feb 2020

• Deployment in pre-PROD with software available for participants to test (note, there is no co-ordinated Market Trial of the software).

1 Apr 2020

 Deployment in PROD environment. There is no participant impact as part of the cutover.

From 01 Apr 2020

Market
 Participants
 can submit
 reallocations
 with a 5-min
 cadence for
 the time
 period from
 00:00:00 01 Jul-2021



Reallocations

- On track to be available in Pre-prod from March 1st
- Participants will be notified of availability in pre-prod
- Industry Test period
 - Final timings and outage requirements being confirmed for pre-prod
 - Issue notification via Support Hub / 5MS Mailbox
 - DISCUSSION: Do participants wish to have a daily issues resolution conference call with AEMO?
 - Suggested time 10:30 am (ESDT)
- Production release scheduled for 1 April
 - Final timings subject deployment requirements



Forward meeting plan

Greg Minney



Discussion: Feedback on future agenda items

Feedback on potential future agenda items	AEMO response				
Transition activities	Transition and go-live strategy has identified transition deliverables. What further, specific transitional activities should be considered by the RWG and when?				
Readiness reporting results	Managed through regular review cycle. Timetable has been released, including future RWG sessions to review results. Suggestions on schedule are welcome.				
Emerging risks/issues for transition	Managed through regular review cycle. Timetable has been released, including future RWG sessions to review results. Suggestions on schedule are welcome.				
Metering transition	Metering transition plan developed via the TFG and RWG. Are there specific metering transition issues that RWG need to follow up on?				
Driving industry preparedness	Approach is via readiness reporting against rules, procedures, transition plans, cutover plans. Is this approach still appropriate?				
Industry and market testing focus	These issues are currently handled via the ITWG with updates to the RWG. Is this approach still appropriate?				
Volume tracking and ensuring parties are not overburdened with transactions not yet discussed	Assume this relates to: 1. Volumes of notifications 2. Data volumes from meter activations after 1 Jul 21 Agree, important discussion. Which is the appropriate forum for the discussion? TFG, RWG, SWG or ad hoc focus group? What is the appropriate timing?				

Upcoming RWG meetings: Proposed content

Seeking feedback for proposed content/topic areas

Meeting Date	Meeting	Proposed Content
11 Mar 20	RWG #9	Industry readiness reporting: Round #1 report
		 Industry risks and issues arising out of readiness reporting
		Cutover approaches for Reallocations
		Review point for readiness reporting
14 Apr 20	RWG #10	 Discussion of MTP activity that asks MDPs to "Provide visibility of
		approach / timeframe for required type 1-3 and 4* meter replacement
		or reconfiguration" by 31 Mar 20
		 Participant led discussion on their readiness approach?



Upcoming meetings

https://aemo.com.au/initiative s/major-programs/nem-fiveminute-settlement-programand-global-settlement

Current as at 29/01/2020

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

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

Forums/Working Group:
Executive (EF)
Program Consult. (PCF)
Procedures (PWG)
Systems (SWG)
Readiness (RWG)
Industry Testing (ITWG)

Focus Groups
Dispatch
Metering
Settlements
Transition
Industry Testing
Reconciliation
Contingency

Other Information Sessions

National Public Holida State Public Holiday*

*Relevant state has been marked in a comment. WA, NT, TAS, ACT holidays have not been marked.



General questions

Greg Minney



