5MS & GS Readiness Working Group #4

Tuesday 24th September, 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	Emily Brodie
Matters for noting			
3	10:15am – 10:20am	Workstream update	Emily Brodie
Matters for discussion			
4	10:20am – 10:35am	Interim readiness reporting – Round #2 results	Austin Tan
5	10:35am – 11:00am	Contingency management approach	Greg Minney
6	11:00am – 11:45am	Risks session	Greg Minney
BREAK 11:45am – 11:55am			
7	11:55am – 12:10pm	Industry readiness reporting plan – Proposed approach	Emily Brodie
8	12:10pm - 12:25pm	Staging environment: Update on functionality drops	Pierre Fromager Hamish McNeish Jim Agelopoulos
9	12:25pm – 12:40pm	Debrief on the Transition Focus Group	Blaine Miner
Other business			
10	12:40pm – 1:00pm	Forward meeting plan and general questions	Greg Minney

Notes, actions and feedback from previous meeting

Emily Brodie

Responses to RWG meeting actions

#	Topic	Action	Response
3.4.1	Software drops	AEMO to provide RWG with definitions of what is included in the package content of each software drop.	To be discussed in this meeting, RWG #4
3.5.1	Readiness risks	AEMO to refine approach to managing industry risks and issues identified by the RWG.	To be discussed in this meeting, RWG #4
3.5.2	Readiness risks	AEMO to align cadence of RWG readiness risk assessment sessions with the quarterly PCF risk assessment sessions.	Complete. The RWG will consider risks and issues in this meeting and raise any relevant risk/issue to the PCF for its consideration in the October meeting. This cadence will continue on a quarterly basis.
3.5.3	Readiness risks	AEMO to consider updating R11 in the industry risk register to reflect deliverables that are sequenced over time instead focusing on the final 5MS go-live date.	To be discussed in this meeting, RWG #4 and referred to PCF if recommended by RWG
3.7.1	Focus groups	RWG to provide suggestions for focus groups and/or topic areas.	No responses. Separately, a participant enquired about a follow-up reconciliation support workshop.

Workstream update

Emily Brodie

RWG forward meeting dates

- RWG meetings transitioning to middle of month
  - Better aligns work flows between the PCF (whose meetings are at beginning of month) and the RWG
- As discussed in RWG #3, December meeting confirmed, but no January meeting

RWG #	Date
5	22 October 2019
6	15 November 2019
7	10 December 2019
8	February 2019, TBC

Readiness papers - timelines

Item	RWG engagement	Draft paper	Consultation	Comments due	Final paper*
Market readiness strategy	Jun-19	30-Aug	3 weeks	20-Sep	30-Oct
Industry test and market trial strategy	Jul-19	30-Sep	4 weeks	28-Oct	29-Nov
Transition and go-live strategy	Jul-19	30-Sep	4 weeks	28-Oct	29-Nov
Industry readiness reporting plan	Sep-19	31-Oct	3 weeks	21-Nov	13-Dec
Metering service provider accreditation update plan	Oct-19	30-Nov	over summer	31-Jan-20	13-Mar-20

*The "final paper" dates have been endorsed by the PCF as level 2 program milestones and will be reflected in the next PCF meeting pack

Transition focus group

- **First meeting** held Friday, 30 August, Melbourne
  - debrief provided in this RWG meeting

- **Second meeting:** Monday, 23 September, Sydney
  - Will focus on the metering transition plan (MTP)
  - Forum for AEMO and industry stakeholders to engage in detail on transitional matters related to 5MS and GS implementation
  - Contributes to 5MS/GS readiness workstream, reports to RWG
  - RWG will receive meeting pack, meeting notes and a debrief at October meeting
  - Key agenda items:
    - Seeking agreement on the MTP, including that:
      - the MTP is the basis for participants to complete their own metering transition plans
      - the actions and responsibilities reflect the agreed metering transition at a suitable level of detail
    - Monitoring and reporting progress against the MTP in-line with the industry readiness reporting plan
   - Populate the MTP content

Interim readiness reporting

Austin Tan

Interim readiness reporting - Round #2

- A total of 29 unique organisations responded to the second survey, representing a response rate of 66%. Some organisations responded with multiple submissions to represent different participant types.

- There were five new respondents in the second survey. Nine respondents in the first survey did not respond in the second survey.

- MSPs and NSPs were asked to provide more detail on their respective participant types (e.g. MSPs to nominate as MC, MDP, MP) in this survey. However there was little differentiation in the provided survey responses among the more detailed participant category types. Hence, survey results are presented in aggregate at the MSP and NSP level for simplicity.

Figure (i): Interim Readiness Reporting – Participant respondent type (%)

- Generator
- Retailer
- Network Service Provider
- Metering Service Provider
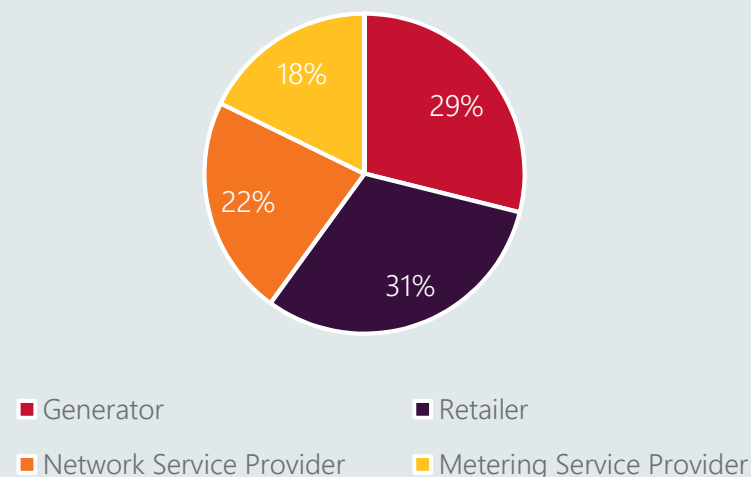
Observations:
- There was a slight decrease in response rate between the first and second survey, with nine organisations (mainly retailers) that responded to the first survey not responding again in the second survey.
- Responses were received from an even mix of participant types, with generators, retailers, NSPs and MSPs each representing approximately a quarter of total responses.
- Based on the response rate and mix of respondents, the survey responses represents a reasonable cross-section of the industry

Key findings (1)

- The key findings from the previous survey remain consistent in this survey, with this round of survey results reflecting a general level of progress since July.

- Risks raised in the survey are consistent with the identified risks in previous survey.

- MSPs have made notable progress between the two surveys, and made the most progress among all participant types.

- Most participants have commenced activities to establish 5MS & GS programs, however few have well established programs.

  - Strong management awareness of 5MS / GS requirements, with understanding of GS requirements increasing over time

  - Almost all respondents are in the early stages of developing project plans and mobilising resources

  - All respondents have commenced considering funding for their respective programs. However only a handful have fully considered funding.

- 5MS programs are further advanced relative to GS.

  - Almost all participants have at least a small degree of overlap between their GS and 5MS IT program; half of respondents have fully integrated programs; and retailers are least likely to have combined programs
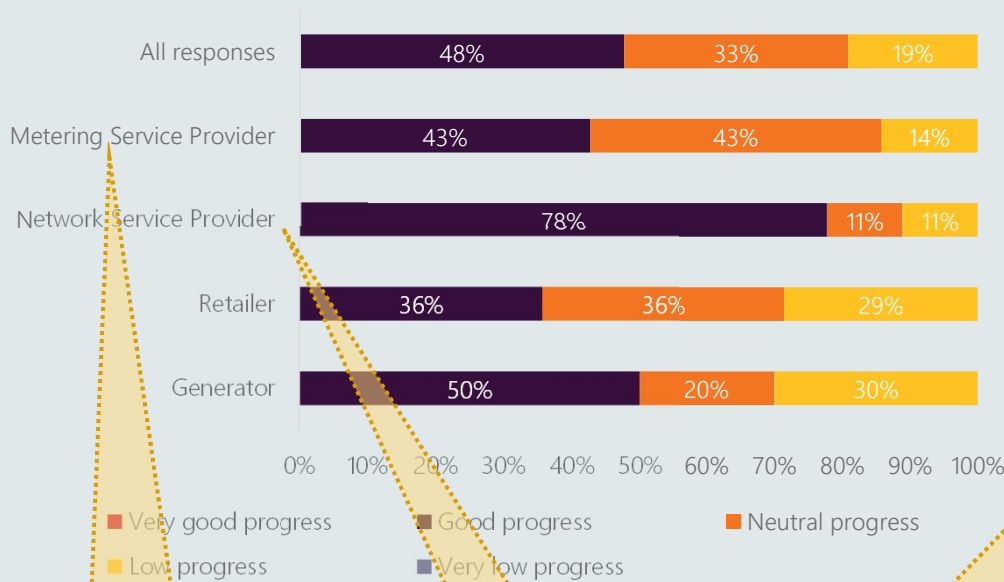
Key findings (2)

- Most respondents have commenced engagement with vendors, this however this engagement is in its early stages. The most frequently listed vendors were Energy One, Oracle, Itron and Brave Energy.

- A proportion of generators are responding that GS is not relevant to their organisation, however more than half are still responding to GS questions.

  - *What do participants see as the impacts of GS to generators?*

- Majority of respondents intend to participate in industry testing and market trials for 5MS, with half of respondents feeling that they will be very prepared.

- Less than half of respondents intend to participate in testing for GS settlement and UFE publication. A similar proportion have not decided if they will participate in GS settlement and UFE publication testing.

  - *What are some contributing factors in the decision to participate in GS and UFE testing?*

- Majority of respondents have commenced impact assessments on market procedures, commercial operations and agreements, internal business processes and standing data/meter transition. There has been the most progress in performing impact assessments for standing data/meter transition, and the least progress in assessing impacts to commercial operations and agreements.

Guide to Interpreting graphs in this report (1)

1 This graph presents the **spread of responses for this question**, from the **most current survey**.

4 This graph presents the **trend or progression of responses** for this question by **comparing results of this survey with previous surveys**.

Figure (ii): What is the overall status of your organisation's program, taking into account planning, budget, resourcing, issue and risk management, and governance etc. for 5MS:

Figure (iii): What is the overall status of your organisation's program, taking into account planning, budget, resourcing, issue and risk management, and governance etc. for 5MS:

All responses	48%	33%	19%
Metering Service Provider	43%	43%	14%
Network Service Provider	78%	11%	11%
Retailer	36%	36%	29%
Generator	50%	20%	30%

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

- ■ Very good progress
- ■ Good progress
- ■ Neutral progress
- ■ Low progress
- ■ Very low progress

Figure (iii) values:
- All responses: 80%, 81%, 1%
- Generator: 92%, 70%, 22%
- Retailer: 79%, 71%, 8%
- NSP: 80%, 89%, 9%
- MSP: 63%, 86%, 23%

- ■ Interim Readiness Reporting 1 (Neutral progress to Very Good progress)
- ■ Interim Readiness Reporting 2 (Neutral progress to Very Good progress)

2 This bar shows the consolidated responses of all participant types

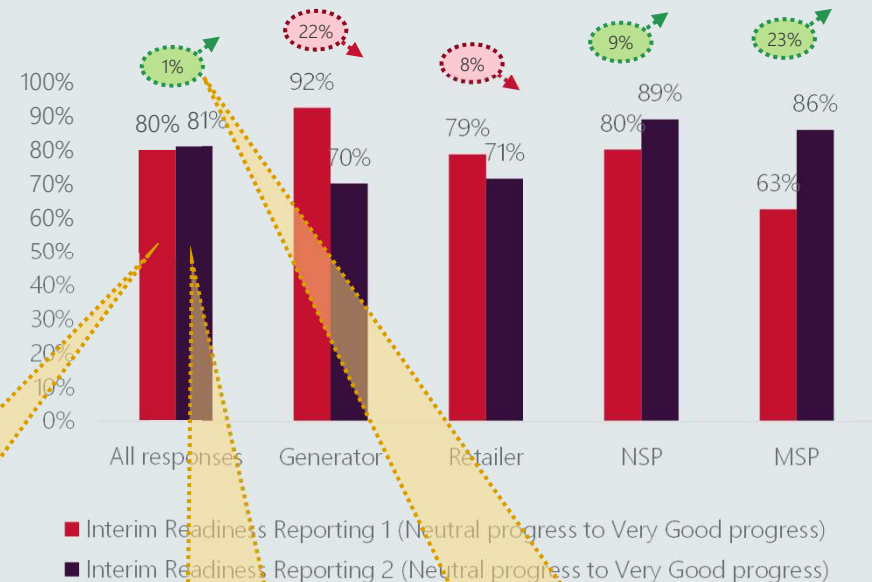**3** This bar shows the consolidated responses of all Metering Service Providers

5 The **red** column shows the proportion of respondents that responded with a Neutral or above response for this question, in the **first** survey

6 The **purple** column shows the proportion of respondents that responded with a Neutral or above response for this question, in the **second** survey

7 This number represents the change in proportion of respondents that responded with a Neutral or above response between surveys. A positive number indicates progress.

Less positive/progressive response example		Neutral response example		More positive/progressive response example	
1. Very low progress	2. Low progress	3) Neutral progress	4) Good progress	5) Very good progress	
1. Not at all familiar	2. Not so familiar	3) Somewhat familiar	4) Very familiar	5) Extremely familiar	
1. Not at all	2. To a limited extent	3) Somewhat considered	4) Reasonably considered	5) Fully considered	

Overall program status – 5MS

Figure (iv): What is the overall status of your organisation's program, taking into account planning, budget, resourcing, issue and risk management, and governance etc. for 5MS:
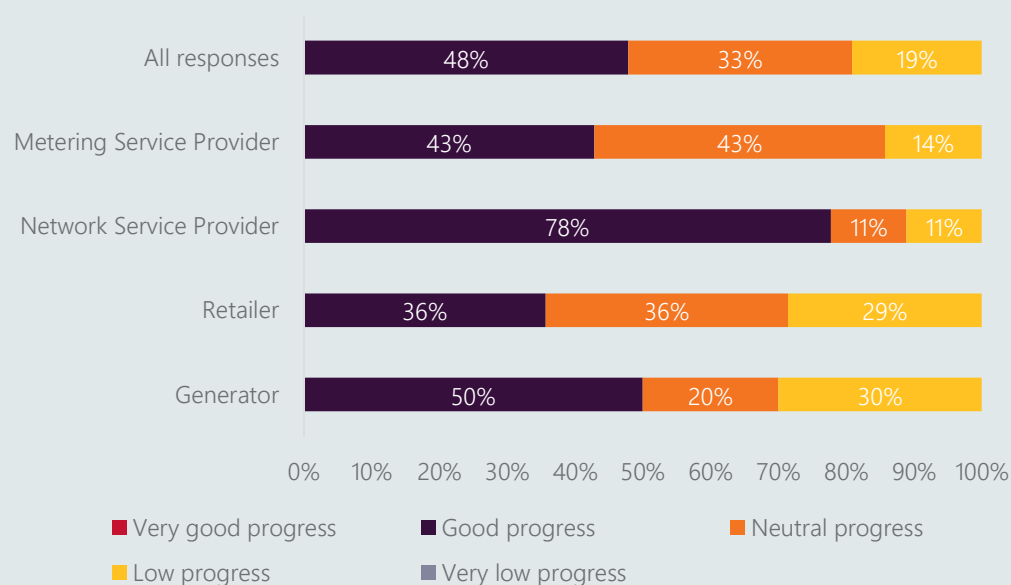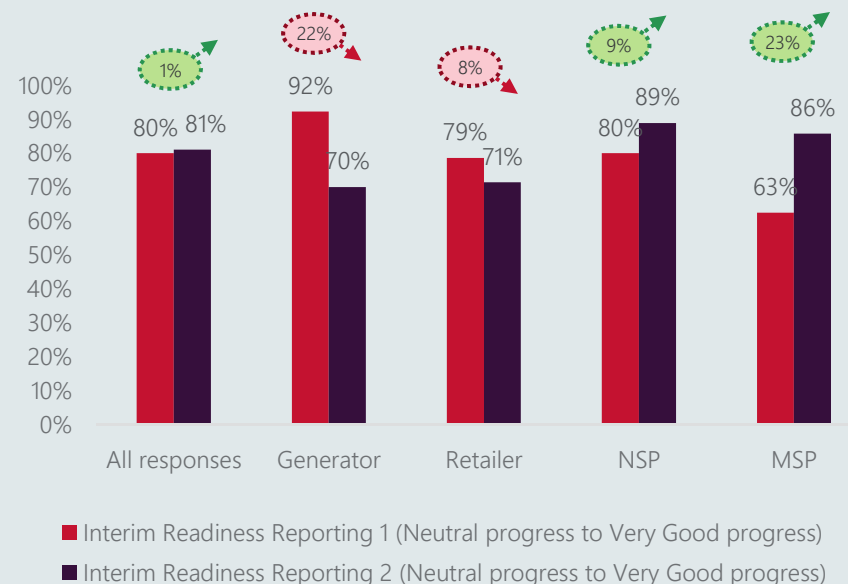

Category	Good progress	Neutral progress	Low progress
All responses	48%	33%	19%
Metering Service Provider	43%	43%	14%
Network Service Provider	78%	11%	11%
Retailer	36%	36%	29%
Generator	50%	20%	30%

- ■ Very good progress
- ■ Good progress
- ■ Neutral progress
- ■ Low progress
- ■ Very low progress

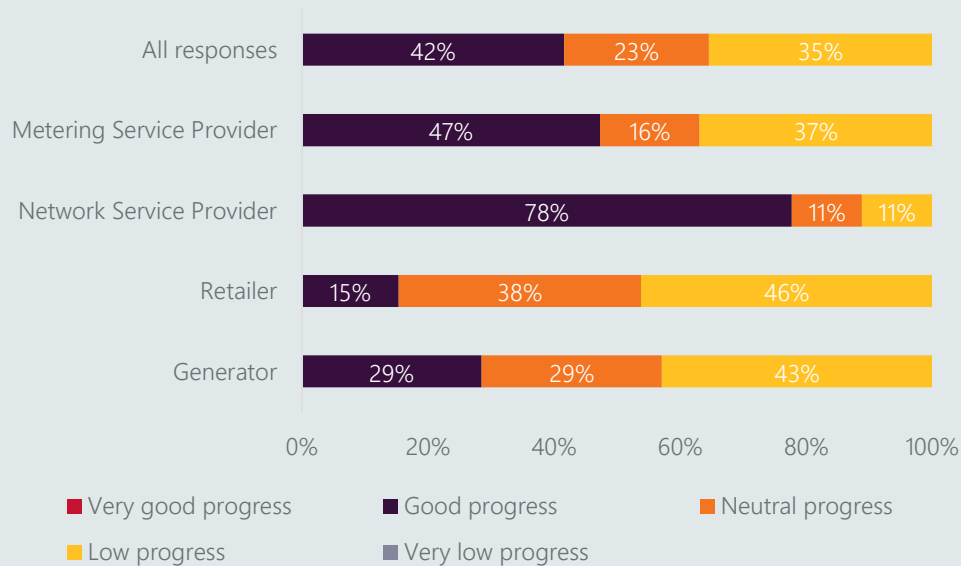Figure (v): What is the overall status of your organisation's program, taking into account planning, budget, resourcing, issue and risk management, and governance etc. for 5MS:

Category	IRR 1	IRR 2	Change
All responses	80%	81%	1%
Generator	92%	70%	22%
Retailer	79%	71%	8%
NSP	80%	89%	9%
MSP	63%	86%	23%

- ■ Interim Readiness Reporting 1 (Neutral progress to Very Good progress)
- ■ Interim Readiness Reporting 2 (Neutral progress to Very Good progress)

Observations:
- The proportion of respondents with Neutral to Good progress on their 5MS program increased by 1% to 81%
- MSPs made the most progress on their 5MS programs between the two surveys, with the proportion responding with Neutral to Good progress increasing by 23% to 86%
- The proportion of Generators and Retailers with Neutral to Good progress on 5MS dropped by 22% and 8%

Overall program status – GS

Figure (vi): What is the overall status of your organisation's program, taking into account planning, budget, resourcing, issue and risk management, and governance etc. for GS:
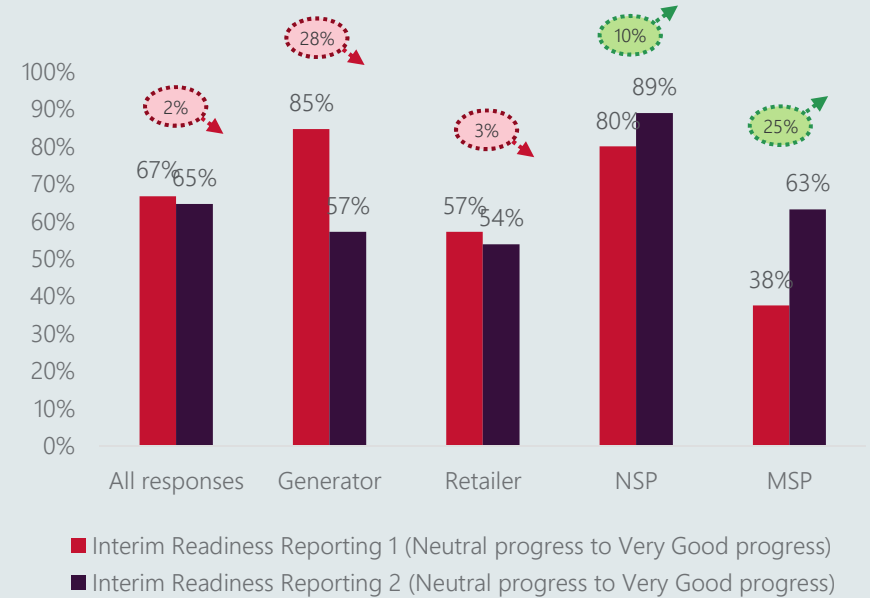

Legend:
- ■ Very good progress
- ■ Good progress
- ■ Neutral progress
- ■ Low progress
- ■ Very low progress

Figure (vii): What is the overall status of your organisation's program, taking into account planning, budget, resourcing, issue and risk management, and governance etc. for GS:

- ■ Interim Readiness Reporting 1 (Neutral progress to Very Good progress)
- ■ Interim Readiness Reporting 2 (Neutral progress to Very Good progress)

Observations:

- The proportion of respondents with Neutral to Good progress on their GS program decreased increased by 2% to 65%
- MSPs made the most progress on their GS programs between the two surveys, with the proportion responding with Neutral to Good progress increasing by 23% to 63%
- The proportion of Generators and Retailers with Neutral to Good progress on GS dropped by 28% and 3%

Interim readiness reporting – Key Dates

Below are the survey dates for interim readiness reporting. Note that that survey dates for round 3 of interim reporting has been revised.

Table 1: Interim Readiness Reporting – Survey dates

Interim reporting	Survey released	Responses due	Results distributed	Discuss at RWG meeting
Round #1	Thu, 18 Jul	Wed, 31 Jul	Tue, 6 Aug	Tue, 6 Aug / Tue, 27 Aug
Round #2	Mon, 2 Sep	Fri, 13 Sep	Mon, 23 Sep	Tue, 24 Sep
Round #3	Mon, 4 Nov	Wed, 20 Nov (prev. 15 Nov)	Tue, 3 Dec (prev. 26 Nov)	Tue, 10 Dec (prev. 28 Nov)

New dates for round #3 of Interim Readiness Reporting align with PCF and RWG December meeting dates.

Contingency management approach

Greg Minney

Contingency management- definition and objective

Definition:

"Contingency planning involves defining action steps to be taken if an identified risk event should occur." – *Project Management Institute*

Objective:

To implement a contingency approach that:
- *is able to be activated if an identified risk occurs*
- *supports successful 5MS and GS commencements*
- *supports the 5MS/GS readiness objective*

Contingency - approach

- In consultation with the RWG, AEMO will develop:
  - contingency event scenarios and responses as a component of transition plans and cutover plans
  - contingency decision review points as a component of transition plans and cutover plans
  - contingency event criteria as component of readiness reporting (status reporting that triggers a contingency decision)

- AEMO will consult with stakeholders prior to exercising contingency decisions, within defined governance structures
  - Defined 'commit' points during cutover events
  - Defined 'proceed' decisions prior to system go-lives

5MS/GS Contingency approaches supported through staged transition

Contingency approach	Implementation
Staged deployments	• Readiness criteria established for each systems delivery • Readiness review point established prior to each go-live • Contingency option to reschedule deployment to manage readiness risk
Rollback	• Each systems deployment to include planning for rollback during cutover • Where feasible, separate market systems deployment from participant deployments (like-for-like implementation) to minimise concurrent go-lives • Communication of proceed / rollback decisions in-line with protocols agreed in cutover plans
Individual participant contingency approaches	• Where multiple integration options exist for participants, the switch between approaches is within participant control e.g. web bidding vs API integration

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Contingency scenarios
examples only

Example scenario	Contingency trigger	Contingency approach	Decision consideration	Decision owner	Reporting mechanism
MDM platform not ready for go live on expected date	Agreed readiness criteria - successful completion of AEMO test cycles not met e.g. no industry participants successfully completed industry test	Reschedule of implementation date, in timeframe to allow satisfaction of readiness criteria, but within contingency window that allows successful execution of dependent activities	Risk to NEM operations of proceeding with deployment as planned versus impact on 5MS / GS market commencement	AEMO	Progress against agreed readiness criteria in readiness reporting
Wholesale meters for single TNI have not been upgraded to 5MS delivery by transition completion date	Reported installations not producing 5-min reads as per metering transition timelines	Implementation of agreed fallback approach by responsible MDP to provide 5-min profiled settlement data, until remaining meters are implemented in defined timeframe	Overall market readiness versus impact on market operations	AEMO	Reporting against agreed readiness criteria by metering providers
Dispatch platform cutover event will not complete in timeframe defined in cutover plan	Monitoring of cutover activities against timeframe	Institute rollback of cutover and reinstatement of legacy platform	Impact to NEM operation of conversion running into production window versus risk of rollback and reschedule	AEMO	Cutover monitoring and reporting
Major operational event (e.g. load shedding) at time of scheduled system deployment	Environmental scan at time of proceed decision for cutover event	Deferral of cutover, within contingency window	Impact to NEM operations through deployment event	AEMO	Cutover monitoring and reporting

Risks session

Greg Minney

Session objectives

1. Approach to managing risks raised by the RWG

2. RWG to consider:
   - Current industry risks (from *Industry risks and issues register* owned by PCF)
     - Focus on readiness-related risks
     - Identify where controls/actions need more detail
     - Note that the format of the Register will be reviewed by the PCF at its quarterly review in October to explicitly set out inherent and residual risk ratings.
   - Other risks

3. Recommend new readiness risks or refined risks to PCF for inclusion in the Industry risk register along with any proposed mitigations.

4. Next steps

Approach to managing risks raised by RWG

- Readiness-related (or other) issues and risks:
    - may be raised by AEMO or the industry or become apparent via readiness reporting
    - will be captured in the 5MS/GS program's *Industry risks and issues register* which is maintained by the PCF
- PCF is responsible for managing changes to the Register
- RWG (or its subsidiary focus groups) can:
    - Escalate risks/issues to the PCF for inclusion on the Register
    - Be assigned actions to carry out by the PCF

For discussion: Industry risks (1)

ID#	Title	Description	Likelihood	Consequence	Risk Rating	Actions
R02	Risk that there is one or more participants that aren't 'ready' at go-live	There is a risk that one or more participants have inadequately prepared systems to operate in the market within the new market conditions at Rules effective date.	High	High	High	• AEMO will facilitate the development of a testing plan through the Readiness workstream. • AEMO will engage through the PCF and 1 on 1 meetings to ensure that participants have adequate transition plans in place. • AEMO will provide reports of test outcomes and progress against planned milestones. • Participants to provide regular and accurate readiness reports via the process being facilitated by AEMO. • AEMO will develop a Market Readiness strategy to provide clarity and certainty that will assist participant planning. • AEMO will prepare an Industry Readiness Reporting Plan, to provide a clear picture on participant readiness at key milestones throughout the program (which can feed into management actions that can be addressed through the PCF and EF).
R03	Resource constraints over summer periods	There is a risk that procedure consultations or UAT will be overlooked or under-resourced by participants if they occur during the summer period.	High	Medium	Medium	• AEMO will work with participants through the forums and working groups to ensure that the schedule is reasonable and understood with adequate advanced notice for consultation and testing requirements • Participants to provide feedback on AEMO's program timeline and readiness proposals
R04	Big bang approach	Risk to market functions if bids/offers and meter data all go live at once on 1 July 2021	Low	Medium	Low	• Staged approach to procedure implementation in preparation for Rule go-live. AEMO to begin distributing information on the readiness workstream from Mar-May 2019, with a more detailed view of industry testing and the cutover for the June 2019 PCF. • AEMO system implementation to be completed in advance. • Participants will be using the new systems prior to Rule go-live • AEMO to consider limitations of current Rule drafting • Procedure go-live action plans will be discussed and developed through the PWG and released as part of the consultation process

For discussion: Industry risks (2)

ID#	Title	Description	Likelihood	Consequence	Risk Rating	Actions
R08	Procedure changes arising from IT activities	Risk of further procedure changes could arise as a result of system build or UAT activities (mid-late 2020)	Medium	Medium	Medium	• AEMO to consider including option of further round of procedure change prior to 5MS go live
R10	Vendor contract negotiation timelines	Risk of milestones not being met because of time taken by participants and vendors to negotiate contracts after 5MS specs released	Medium	High	High	• Build negotiation time into program timelines • AEMO to engage with participants to identify issues • AEMO to hold a vendor briefing session end of November. • AEMO to maintain a collated list of vendors, with participants asked to supply vendor details • Participants to provide updates to the PCF regarding vendor performance
R11	The AEMO internal project is not ready for 5MS Go Live	AEMO may not be ready to deliver the full extent of the 5MS deliverables by the 5MS Go Live date of 1 July, 2021.	Low	High	Medium	• Ensure transparency around AEMO's internal program deliverables, presenting to the PCF on an agreed basis. • Agree Level 1 and Level 2 Readiness milestones for the PCF.
R12	Unexpected impact to B2B Procedures	If there are unexpected impacts to B2B procedures following consultation on market procedures, then changes may impact system design.	Low	Medium	Low	• IEC and B2BWG to review all B2B procedures following the completion of the of the 5MS Procedures work (review expected in early 2020)

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Other risks

- Raised by RWG:
    - Consider updating R11 to reflect deliverables that are sequenced over time instead focusing on the final 5MS commencement.
    - Timing and resourcing challenges with accreditation process – AEMO and MSPs

- Raised by TFG:
    - 5-minute customer churning to a non-5-minute capable retailer.
    - Readiness to accept 5 minute data prior to 1 July 2021
    - Transition timeframes for NMI classification codes

BREAK

5MS/GS Industry readiness reporting plan – Proposed approach

Emily Brodie

Industry readiness reporting plan – Proposed objective and scope

Proposed 5MS/GS industry readiness reporting objective

To facilitate readiness reporting throughout the implementation phase of the 5MS/GS program so that AEMO, NEM participants and other interested stakeholders have an accurate assessment of industry's readiness for the various 5MS and GS system "go-lives", transitional activities and commencements.

Proposed readiness reporting scope

Readiness activities related to the various 5MS and GS system "go-lives", transitional activities and rule commencements.

Recap of market readiness principles

Readiness reporting principles builds on the market readiness principles defined in the *draft* market readiness strategy.

Market readiness principles (draft):

1. Shared commitment to readiness for 'go-live'
2. Collaborative approach to market readiness planning and execution
3. Each party is responsible for their own readiness
4. Communicate readiness issues and risks as early as possible in writing
5. Open and honest readiness reporting
6. Appropriate handling of confidential and commercially sensitive information by AEMO
7. AEMO to explain readiness decisions to NEM participants

Industry readiness reporting plan - Proposed principles (1)

1. Industry participation in the readiness reporting process is voluntary but strongly encouraged and in the interest of all participants.

2. Participants are responsible for establishing their own appropriate project schedule baselines and reporting against these.

3. Participants will submit open and honest self-assessments of their readiness status, following a framework and format set out in the Industry readiness reporting plan.

4. Readiness reporting information will be collated and submitted by an authorised person on behalf of their organisation.

5. AEMO will develop and seek input from the RWG on readiness reporting criteria.
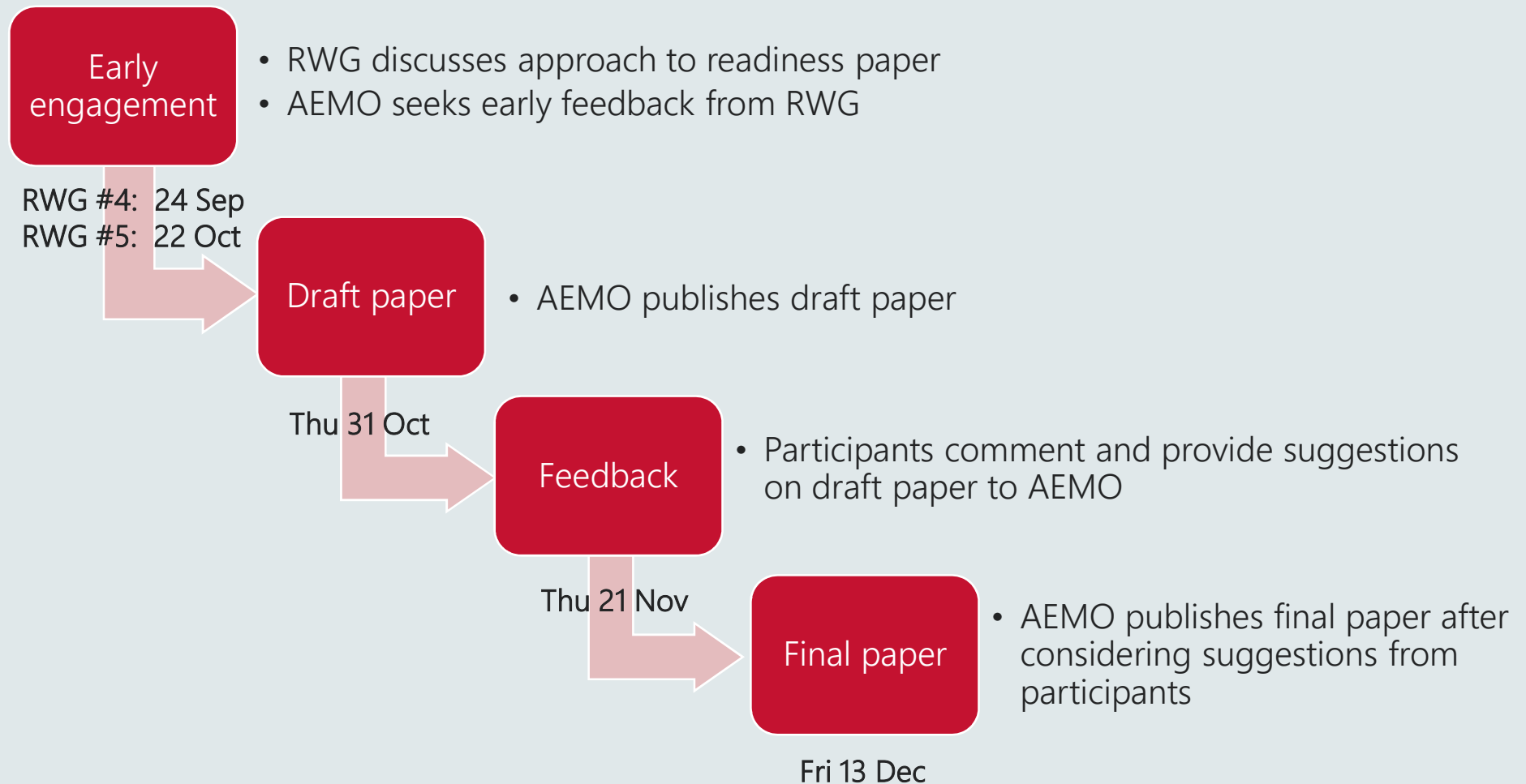
Continued next slide...

Industry readiness reporting plan - Proposed principles (2)

6. Readiness reporting will be on a regular basis, following a defined calendar developed in collaboration with the RWG. In developing the reporting calendar, the effort of reporting will be balanced with the value of reporting.

7. As far as practicable, changes to the readiness survey questionnaire will only occur where further detail is required on key criteria.

8. AEMO will aggregate survey responses and, in accordance with the Industry readiness reporting plan, will:

   • assess the responses against agreed readiness criteria

   • produce an overall dashboard style report for each reporting cycle, including brief commentary around observations, trends and risks as appropriate

   • monitor and manage industry risks and issues that arise through readiness reporting in collaboration with the RWG

9. All responses will be treated as strictly confidential in-line with AEMO policies. The results from any analysis will be reported in aggregate and no individual organisations will be identified or identifiable.

   • Question: to what extent should there be an option for participants to make their readiness progress and/or status public?

Industry readiness reporting plan - Proposed structure

Proposed structure	Additional information
Readiness reporting framework	• Objective, scope, principles • *Please see slides 19, 21 & 22*

Readiness criteria
 	
To be discussed in detail at RWG #5
	• Consistent with the objective, the plan will provide the **readiness criteria** that AEMO and NEM participants will use to monitor the industry's operational readiness for the various 5MS/GS go-lives and commencements.
	• There will be readiness criteria set and reported against for each:
	  – System go-live
	  – Key metering transition milestone
	  – 5MS and GS commencement

Process
 	
To be discussed in detail at RWG #5
	• The plan will set out the **process** for requesting, accepting and collating participants' regular status reports on their market readiness progress. For example:
	  – key milestones and dates
	  – reporting frequency - may increase closer to a commencement date e.g. every 2 months until Dec 2020, then consider monthly reporting in first half of 2021
	  – format for submitting readiness reports (reporting templates)

AEMO's summary reporting
 	
To be discussed in detail at RWG #5
	• The plan will set out **how AEMO will report** to participants/other interested stakeholders on the industry's overall **progress** on and **status** of 5MS/GS readiness activities. Reporting to:
	  – include AEMO's own progress
	  – also reflect critical participants' readiness status (in aggregate to protect confidentiality)
	  – include overall project risk rating

Risks & issues	• The plan will set out the approach for **monitoring and managing risks and issues** that arise through readiness reporting

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Developing the Industry readiness reporting plan

Early engagement
- RWG discusses approach to readiness paper
- AEMO seeks early feedback from RWG

RWG #4: 24 Sep
RWG #5: 22 Oct

Draft paper
- AEMO publishes draft paper

Thu 31 Oct

Feedback
- Participants comment and provide suggestions on draft paper to AEMO

Thu 21 Nov

Final paper
- AEMO publishes final paper after considering suggestions from participants

Fri 13 Dec

Staging environment: Update on functionality drops

Hamish McNeish

Jim Agelopolous

Pierre Fromager

Reallocations APIs – functionality able to be tested in Staging

Pierre Fromager

Reallocations – functionality available in Staging

Objectives

- Allow participants to test submitting reallocation requests to AEMO from their systems via APIs

- Allow participants to use the new Reallocations Web UI and provide feedback

Reallocations – functionality available in Staging

Reallocations

- Submit, authorise and view reallocations via Web UI
- Submit or authorise a reallocation via APIs and receive acknowledgement
- Retrieve reallocations via APIs
- Retrieve support information (regions, calendars, participants) via APIs

Restrictions

- APIs may only be accessed from the internet.

Reallocations – functionality available in Staging

5min vs 30 min reallocations

Both the Web UI and the APIs will handle both 5 and 30min reallocations:

- Reallocations spanning before the Commencement Date (1/7/2021) will expect and provide 48 intervals (i.e. 30min).

- Reallocations spanning after the Commencement Date will expect and provide 288 intervals (i.e. 5min).

- Reallocations will be rejected if they span across the Commencement Date.

Reallocations APIs – functionality available in Staging

- New set of APIs to submit, authorise, search and retrieve reallocations.

Core	Support
• submitReallocation • authoriseReallocation • cancelReallocation • getReallocation • getReallocations	• getAgreementTypes • getCalendar • getCalendars • getParticipants • getProfileTypes • getReallocationSteps • getRegions • getMarketPriceCap

- Uses JSON files for input and output
- Messaging – errors and acknowledgements

Bidding - functionality able to be tested in Staging

Hamish McNeish

Bidding - functionality available in Staging

Objectives

- Allow participants to test submitting 5-minute bids to AEMO from their systems via FTP and/or APIs

- Allow participants to use the new Bidding Web UI and provide feedback

- Allow participants to receive and test the new Bidding Data Model reports (including Data Model database scripts)

Bidding - functionality available in Staging

Bidding

- Submit and view 5-minute bids via Web UI
- Submit 5-minutes bids via FTP and receive acknowledgement
- Submit 5-minute bids via API and receive acknowledgement
- Retrieve bids via APIs
- Receive data model 5-minute bidding reports
- Restrictions
  - APIs will be internet accessible only
- For Discussion:
  - Web UI and FTP for Submit 30-minute bids – these would be copied to 5-minute bids
  - Existing 30-minute bidding data model reports

Bidding - functionality available in Staging

Dispatch / 30-minute Pre-dispatch / 5-minute Pre-dispatch / PASA

- Will use 5-minute bids

- Receive existing data model reports

- Not Included:
  - 5-minute pre-dispatch FSIP
  - 7-day pre-dispatch
  - Mandatory Restrictions won't be exercised

Bidding APIs

- Detailed in the EMMS Dispatch Technical Specification
- New set of APIs to submit, and retrieve Bids.

Core	Support
• submitBids	• getBids • getBid • getSubmissions • getSubmission

- A Submission is a collection of Bids – relating to the FTP file or API submitBids request
- Uses JSON files for input and output

Retail – functionality available in Staging

Jim Agelopoulos

Retail – functionality available in Staging

Objectives

- Allow MDPs to confirm the connectivity of their test environments with the AEMO 5MS Staging Environment.

- Allow MDPs to confirm that MTRD CSV MDFF created by their systems for Market Settlements are able to pass new AEMO validations (30 min and 5 min).

- Allow MDPs to validate FTP hokey pokey protocol for MTRD exchange with the NEMMCO participant ID.

Retail – functionality available in Staging

Scope of functionality

- Manage hokey pokey message exchange for MTRD Transactions through their Participant inbox and outbox.
- Allow MDPs to send through the FTP protocol 5 and 30 minute MTRD Meter Data Notification in the MDFF meter reads format to AEMO.
- AEMO shall perform validations, and generate and return to the initiating MDP (via the FTP protocol) the following business documents and business signals, upon receipt of the MTRD Meter Data Notification:
  - a Hub Acknowledgment as a .ac1 file.
  - an ase:MessageAcknowledgement/@status="Accept" as a standalone .ack file acknowledgement.
  - an ase:MessageAcknowledgement/@status="Reject" as a standalone . ack file acknowledgement.
  - a bundled ase:MessageAcknowledgement/@status="Accept" and ase:TransactionAcknowledgement/@status="Reject" and as an .ack file acknowledgement
  - an ase:TransactionAcknowledgement/@status="Accept" as a standalone .zip file message
  - an ase:TransactionAcknowledgement/@status="Reject" as a standalone .zip file message
  - an ase:TransactionAcknowledgement/@status="Partial" as a standalone .zip file message

Retail – functionality available in Staging

Assumptions/Constraints

- Only message exchange for MTRD Meter Data Notification where the <To> Participant ID is 'NEMMCO' shall be supported

- Connectivity is only via AEMO's MarketNet

- Only the FTP protocol preference is supported

- Only the r38 schema for MTRD Meter Data Notification shall be supported

- Only NEM12 MTRD shall be supported

- Only one transaction per MTRD message shall be supported

- Standing Data shall be static and shall consist of a Production data snapshot

- B2M CATS, NMID, and MDM transactions (inclusive of RM reports) shall not be supported

- B2B message exchange shall not be supported

Transition Focus Group Debrief

Blaine Miner

Transition Focus Group Debrief

- First TFG meeting held in Melbourne on the 30 Aug 2019, face-to-face meeting

- Strong attendance and good engagement/participation
  - Balanced representation from all Participant Types

- Agenda:
  - Role of the transition focus group
  - Transition background and overview
  - Strategy for industry testing and market trials
  - Metering and metering data transition planning

- TFG meeting pack is available on AEMO's website

- Next TFG to occur in Sydney on Monday 23 Sept 2019
  - Focus will be on progressing the Metering and Metering Data Transition Plan

Transition Focus Group Debrief

Agenda Item	Content	Key takeaways and Actions

Role of the transition focus group	- TFG Objectives
	- TFG Scope
	- Expectations of members
	- Immediate deliverables
	   - Industry test and market trial strategy
	   - Transition and go-live strategy
		None noted

5MS and GS transition	- Context and background - Transition Principles - Diagram - Staged transition – system implementations - Diagram - Market systems and metering transition - Industry testing and market trials - Indicative Participant impacts by release	Benefits and drawbacks of a phased transition versus a 'big bang'. Concerns regarding new MDM platform being introduction just before summer. - Balances the time required for development, AEMO testing and transitional activities Visibility of MSP/DNSP rollout plans for Industry planning purposes. Contingency planning for key readiness scenarios would be required as part readiness management of transition. Action: AEMO to consider approaches to providing industry with confidence around the new MDM go-live Action: AEMO to include customer transfer scenario risk Action: AEMO to include B2B and MC in 'Participant Impact' table

Transition Focus Group Debrief

Agenda Item	Content	Key takeaways and Actions

Strategy for industry testing and market trials	- Proposed testing for each of the software go-live dates
	- Participant effort and input related to each of the proposed testing phases
	- Scope definition of each test phase
	- AEMO's 3 types of testing
	  - Industry testing
	  - Invitation industry testing
	  - Market Trials
		Discussion relating to the 5MS staging environment. Testing focus group will do a "deep dive" into draft Test Strategy, planning sessions and reporting.
		Concerns that the MDM market trials are planned for after the MDM go-live.
		- Participants wanted to have visibility of the results of AEMO testing of MDM solution.
		Action: AEMO to provide Staging Release Definition through RWG packs
		Action: AEMO to send the Market Trials Test Strategy to TFG as well as RWG

5MS and GS metering transition	- Refresher on 5MS and GS metering and metering data obligations - Proposed metering and metering data transition approach - Metering and metering data transition activities - AEMO worked through the first subcategory with the group to 'test' the proposed framework	The need for transparency regarding MP's work plans. The introduction of new MSATS codes - Need to consider participants' ability to process the CR notifications Members were generally comfortable with the proposed transition plan framework. Action: AEMO to update the framework to include the items suggested by the TFG Action: TFG to provide additional feedback on the metering transition framework Action: AEMO to schedule the next TFG meeting, focussing on the metering transition.

Forward meeting plan

Greg Minney

Upcoming RWG Meetings – Content and Discussion Items

- Seeking feedback for proposed content/topic areas

Meeting Date	Meeting	Proposed Content
Tue, 22 Oct 19	RWG #5	• Market readiness strategy – RWG feedback • Readiness reporting – criteria, process and summary reporting • Approach to accreditation update plan

Fri, 15 Nov 19	RWG#6	• RWG feedback on
		
		   – Industry testing and market trials strategy
		
		   – Transition and go-live strategy

Tue, 10 Dec 19	RWG#7	• Interim readiness reporting - round #3 results • Readiness issues and risks session

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Upcoming meetings

Meetings and forum dates:
http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Five-Minute-Settlement

SEPTEMBER

Su	Mo	Tu	We	Th	Fr	Sa
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	31	1	2	3	4

OCTOBER

Su	Mo	Tu	We	Th	Fr	Sa
29	30	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	31	1	2

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

Focus Groups
Dispatch
Metering
Settlements
Reconciliation
Transition
Other
Information Sessions

National Public Holiday
State Public Holiday

Current as at 30-08-2019

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General questions

Greg Minney