

5MS & GS Program Consultative Forum #21

Tuesday, 5 May 2020

This meeting is recorded for the purpose of minute taking.

Agenda

No	Time (AEST)	Agenda item	Presenter
1	10:00 – 10:05	Welcome and Apologies	Peter Carruthers
2	10:05 – 10:10	Meeting Notes and Actions	Anne-Marie McCague
3	10:10 – 10:40	Program Update	Rowena Leung
4	10:40-11:00	AEMO Internal Systems Delivery: Settlements and Dispatch Date Change Proposal	Graeme Windley
5	11:00 – 11:05	Readiness Reporting Round 2	Greg Minney
6	11:05 – 11:15	Industry Risks and Issues Register - Covid-19 Risk – Readiness Report	Greg Minney and Anne-Marie McCague
7	11:15 – 11:45	Rule change: Proposed 12-month deferral	Numerous
	Break		
8	11:55 – 12:05	Readiness Workstream Update	Greg Minney
9	12:05 – 12:15	Systems Workstream Update	Graeme Windley
10	12:15 – 12:20	Forward Meeting Plan	Anne-Marie McCague
11	12:20 – 12:30	General Questions	Peter Carruthers
12	12:30	Meeting Close	Peter Carruthers

Welcome and apologies

Peter Carruthers

Meeting Notes and Actions

Peter Carruthers

Program Consultative Forum - Actions

Item	Action required	Owner	Update
20.3.1	AEMC to circulate the list of rule changes that would be impacted by the proposed 5MS rule change - to delay the 5MS implementation by 12 months to PCF members.	AEMC	The AEMC has completed an initial review of the implications of the proposed rule change. They have advised that this rule change is unlikely to have meaningful policy implications on other rule changes that have been made, but there are some legal drafting matters that will need to be accounted for when preparing the changes to the clauses in the NER. Further detail will be provided in the AEMC's consultation paper.
20.3.2	Participants to email the 5MS@aemo.com.au inbox with any questions to be considered as part of the impact analysis to be undertaken by each working group.	Participants	Ongoing – FAQ document circulated to Working Groups 27 April. Q&A Session moved to 7 May.
20.3.3	5MS working groups to consider and report back to the PCF the impact of the 12 month deferral on the workstreams.	AEMO	Ongoing – plan to be presented during PCF
20.3.5	AEMO to update the Industry Risks and Issues Register with Covid-19 risk taking into account the feedback on the wording of the risk description from the PCF.	AEMO	Complete – updated register available on 5MS website
20.7.1	AEMO to clarify previous communications about reallocations with Stanwell.	AEMO	Complete
20.12.1	AEMO to update the Procedures Working Group table that showed the effective dates and document names.	AEMO	Request has been considered. However the procedures table was developed for a point in time. The procedures workstream for 5MS is now complete and any procedural changes are monitored and tracked through the BAU channels.

Program Update

Rowena Leung

Program update and current activities



AEMO program

- Overall Amber, while the timelines are undergoing change and review.
- The AEMO Internal Metering Solution milestone “Build complete” will not complete by 30 June 2020.
- New Retail plan communicated to the PCF – [Retail Go Live now 9 March 2021.](#)
- The new Retail Go Live date does not compromise the date for Market Trial activities (non-withstanding the potential of a 12-month deferral).



Systems

- 5MS Reallocations successfully deployed in Production 01-04-2020, completed by a remote deployment team.
- Staging environment updated with Settlements Package 2 and combined Dispatch and Settlements Data Model Released 16 March 2020.
- Proposal for new Dispatch and Settlements system deployment dates to be discussed with the PCF 5 May 2021.



Readiness

- Readiness Survey #2 completed by Industry. Consolidated report to be released 7/5.
- Implementation scenario under proposed rule deferral underway to inform participant impact assessment.
- TFG held to clarify approach, timing and support requirements for key activities.

Changes to be discussed

- There are several changes to the 5MS Program timeline under discussion:
 - A. Changes to the Metering Solution Go-Live from 7-Dec-20 to 9-Mar-21
 - This is as a result of delays to the required internal systems build
 - B. Proposed changes to Settlements and Dispatch go-lives
 - Under consideration as a risk mitigation measure as a consequence of the Metering Solution go-live date change
 - C. Proposed 12 month deferral
 - The rule change request sent to AEMC by AEMO
 - Will be consulted on by AEMC before final determination
 - This proposal is not linked to changes A and B

Level 1 Milestones Change Report

Current as at 28-04-2020

Current L1 Milestone

ID	Stream	Milestone	Planned Date	Expected Date	%	Comments
L1-M6	Systems	AEMO Internal Systems Development – Build Complete	30 June 2020	See below	70%	Dispatch and Settlement on time. Metering solution development likely not to be fully complete by 30 June.

Issues impacting the delivery of milestone L1-M6

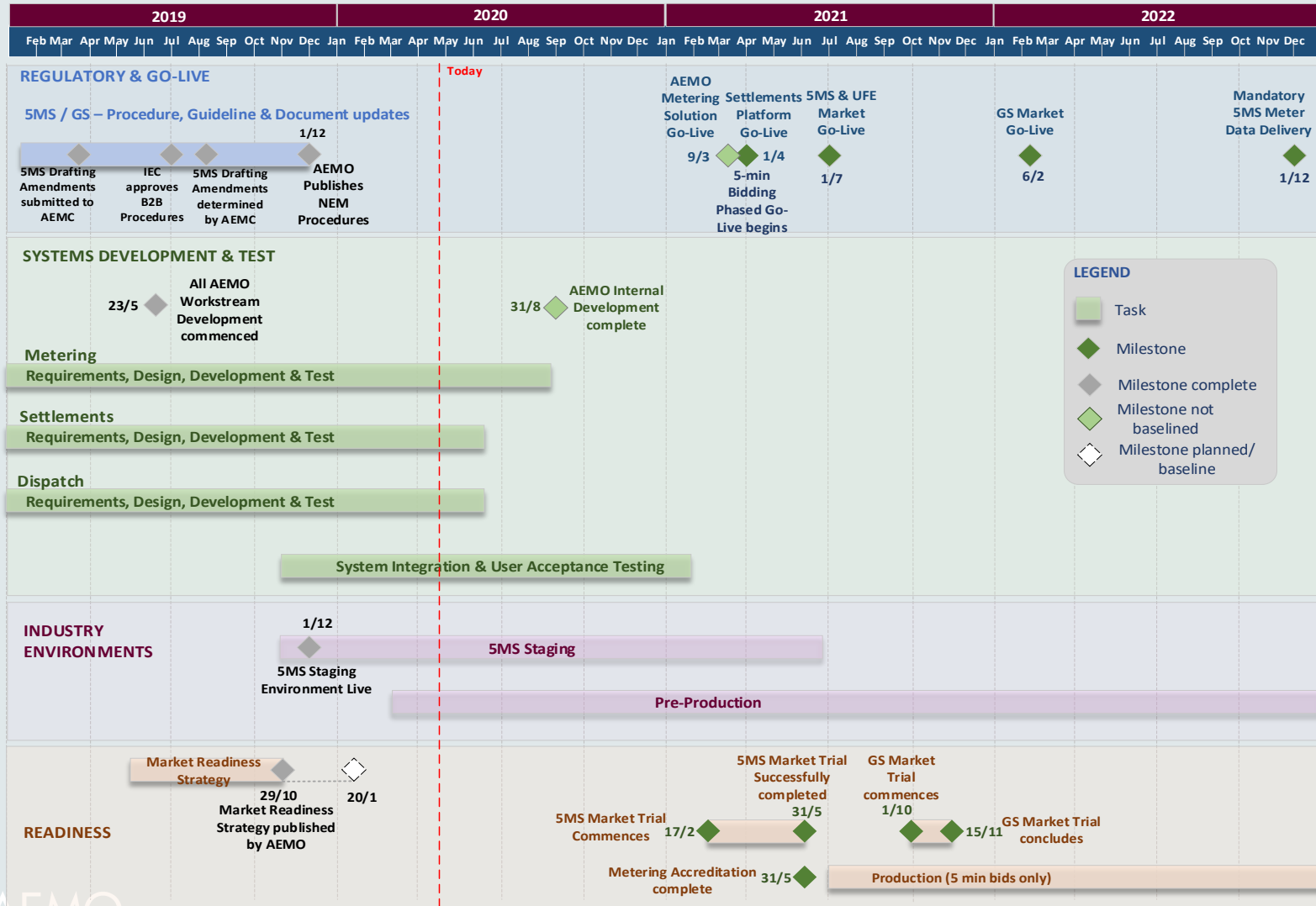
- Increase in complexity of the solution (under-estimation of effort in some areas)
- Technology issues which have impacted on productivity
- Security
- COVID-19

Mitigation & Consequence

- AEMO considered the approach of prioritising the functionality required for L1-19 AEMO Metering Solution Go-Live on 7 Dec 2020. However, it was determined that this approach would not return the program status to green.
- On this basis, AEMO has determined that the milestone L1-M6 should be rebaselined to 31 August 2020 and consequently, milestone L1-19 AEMO Metering Solution Go-Live should be rebaselined to 9 March 2021
- AEMO will discuss the impact of this on related milestones at the PCF on 5 May

5MS & GS Program Timeline

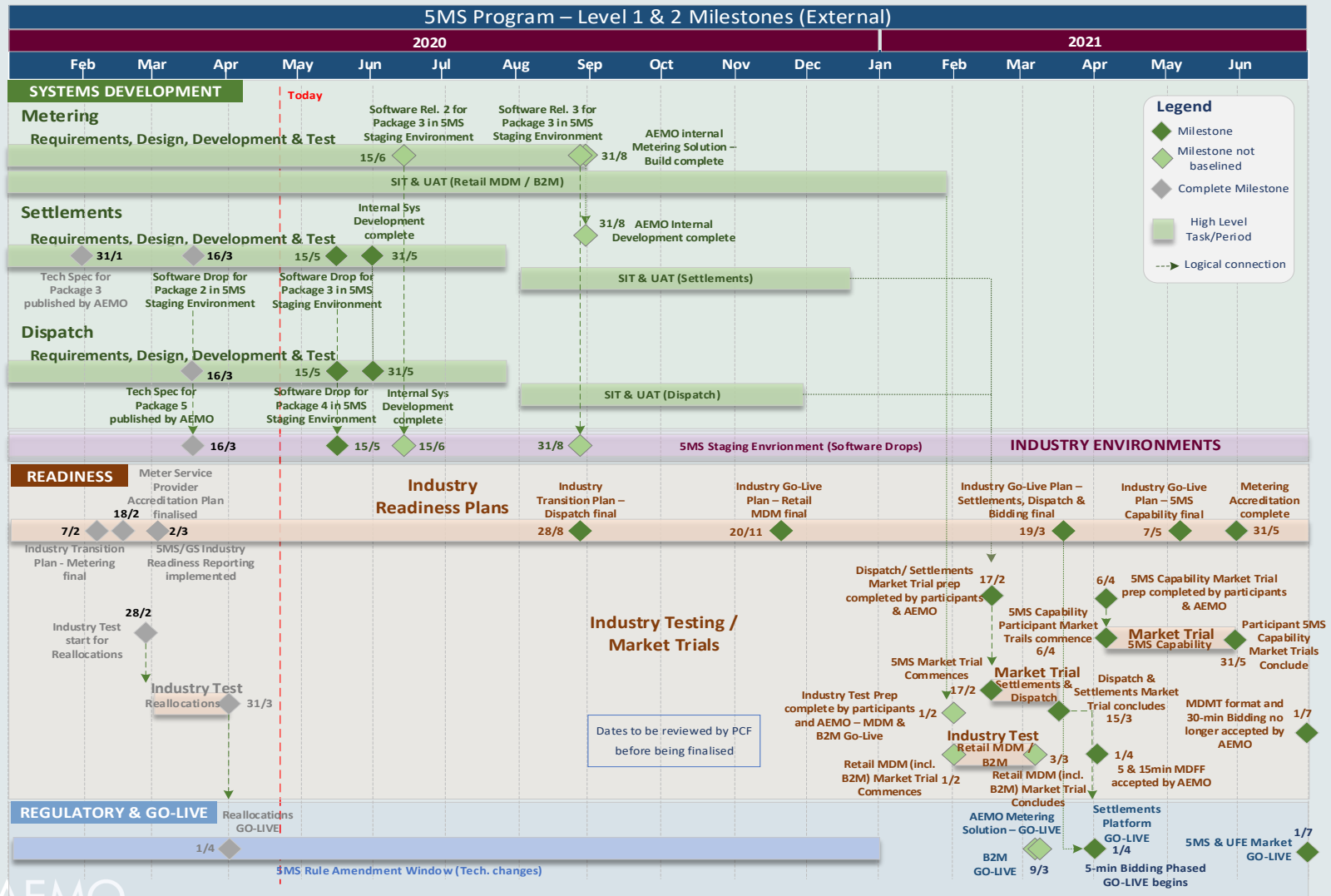
Current as at 28-04-2020



5MS Program Timeline (Jan '20 to Jul '21)

Level 1 and External Level 2 Milestones

Current as at 28-04-2020



Changes to Milestones

ID	Milestone	Target Date	Expected Date	Owner
L1-M6	AEMO Internal Systems Development – Build Complete	30-Jun-2020	31-Aug-2020	AEMO
L1-19	AEMO Metering Solution Go-Live	07-Dec-20	09-Mar-21	AEMO
L2-M7	AEMO internal metering solution – build complete (internal)	30-Jun-2020	31-Aug-2020	AEMO
L2-M8	Software Release 3 for Package 3 in 5MS Staging Environment	31-Jul-2020	31-Aug-2020	AEMO
L2-M11	Market Trial preparation completed by participants for MDM and B2M Go-Live	22-Oct-2020	01-Feb-2021	Participants
L2-M12	Market Trial preparation completed by AEMO for MDM and B2M Go-Live	22-Oct-2020	01-Feb-2021	AEMO
L2-RE29	Retail MDM (incl. B2M) Market Trial Commences	22-Oct-2020	01-Feb-2021	AEMO
L2-RE30	Retail MDM (incl. B2M) Market Trial Concludes	19-Nov-2020	03-Mar-2021	AEMO
L2-M24	B2M Go-Live	17-Mar-2020	09-Mar-2021	AEMO
L2-M10	5 min and 15 min MDFF accepted by AEMO	01-Feb-2021	01-Apr-2021	AEMO

Next Steps

- AEMO has determined that moving the L1-19 AEMO Metering Solution Go-Live to 9 March 2021 returns the overall 5MS Program to Green
- This approach has been endorsed by the 5MS Program Steering Committee
- AEMO intends to implement this change. However, we will consider participant impacts and work with participants to mitigate impacts where possible
- The approach will be discussed at the TFG and RWG
- AEMO asks the PCF to liaise with their RWG reps and submit any impact of this change by **22 May 2020**

AEMO Internal Systems Delivery: Settlements and Dispatch Date Change Proposal

Graeme Windley

Proposal & Rationale

- AEMO proposes to change the systems deployment dates for Dispatch and Settlements solutions, and requests feedback from the PCF (see next slides).
- The proposal is triggered by the program decision to move the Retail solution Go Live date out to 9 March 2021, not the potential of the 12-month industry go live deferral rule change to pass.
- The current approach has the Retail solution being deployed three weeks before the Settlements and Dispatch solution deployments on 1 April 2021. It doesn't consider:
 - The risk of three significant cutovers all in a similar time.
 - The solution going first (Retail) carries the most technology risk with it.
 - If the software is ready to be deployed and all entry criteria to deployment is met, AEMO should look to deliver the changes and close down program streams.

Next Steps

- AEMO considers this approach to mitigate risks associated with having three go-lives close together
- At this point, AEMO is reviewing this approach and its impacts internally
- AEMO is asking the PCF their view prior to coming to a final decision on this approach
- PCF members are requested to liaise with RWG reps and provide an impact assessment by **22 May 2020**

Dispatch Solution: Deployment Proposal

AEMO is considering:

- Bringing forward the Pre-Prod deployment date by six weeks (from 29-Nov-2020 to 15-Oct-2020);
- Bringing forward the Systems deployment to 23-Nov-2020 (not the 5-min bidding activation, which will remain 01-Apr-2020).

Impacts of the Change

- No Change to the Production Bidding timeline within the 5MS program – the 01-Apr-2021 change will become a configuration adjustment rather than a systems deployment.
- Pre-Production will have both 30-min Bidding capability and 5-min Bidding capability available from mid-October (date & timing TBC).
- The Pre-Production deployment will represent changes in the “Transition Phase” i.e. 5-min bidding is accepted, and 5-min reporting available, but 30-min market settlement pricing provided.
- The new 5-min market operation will be applied in Pre-Production at the time of 5-min Market Trials (as per the Readiness workstream).

Benefits of Change

- Enables Dispatch systems deployment work to proceed before other system deployments, which have undergone more fundamental changes.
- Enables participant testing of 5-min bidding and the Transition Phase outside the summer period.
- Removes the deployment from Q1 2021, which will contain a number of systems changes.

Settlements Solution: Deployment Proposal

ID	Stream	Milestone	Planned Date	Proposed Change	%	Comments
L1-SX	Systems	Settlements Platform Go Live	01-Apr-2021	<u>15-Feb-2021</u>	80%	AEMO is currently producing like-for-like invoicing

Impacts of the Change

- The Settlements deployment is a capability deployment, enabling both 30-min and 5-min market delivery. The market will remain settled at a 30-min cadence until the 5-min Settlement Go Live.
- The Pre-Production environment will have the new solution deployed in early December 2020 (date & timing TBC). It will produce 30-min settlement reporting
- The Staging deployment will host 5-min settlement reporting, which will remain enabled for participant testing as per the purpose of the Staging environment.
- The Staging environment can also produce 30-min Settlements reports via the new solution for verification, removing a dependency for Industry Testing over the summer period.
- The new 5-min market operation will be applied in Pre-Production at the time of 5-min Market Trials (as per the Readiness workstream).

Benefits of Change

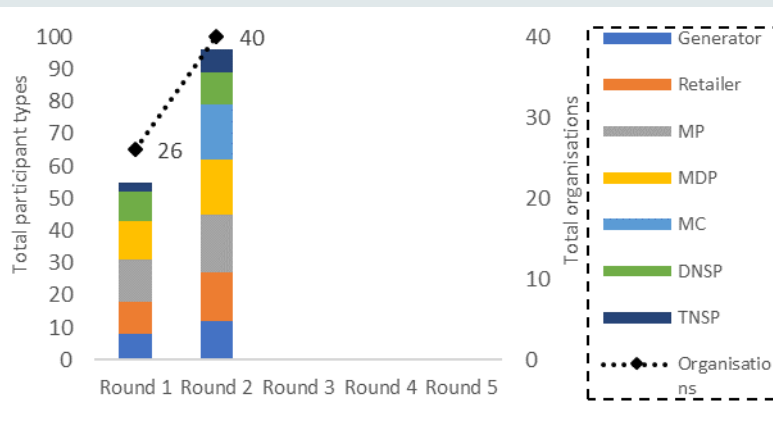
- Enables Settlements solution deployment work to complete before the Retail Production deployment begins. The Retail solution will have undergone a more fundamental change.
- Enables participant testing of the 30-min like-for-like solution outside the summer period but also an extended period of >2 months within the Pre-Production environment.
- Removes the Pre-Production deployment from Q1 2021, reducing system changes within that timeframe.

Readiness Reporting Round 2

Greg Minney

Readiness Report Round 2 – Initial assessment

Round 2 Readiness Survey conducted 14th to 23rd April.
Report due 6th May for discussion at RWG meeting



Significant increase in participation rate across all participant categories reflects round 1 follow up actions and addition of MC category

Some first time respondents still in process of establishing project teams
Impact of COVID-19 reflected in a number of participant responses, with 40% of participant indicating a level of impact

Certainty around rule change process highlighted in a number of participant responses to confirm project delivery timing

General level of project progression, particularly across retailer and generator segments between survey

Assessment to be expanded in consultation with RWG

Industry Risks and Issues Register

Anne-Marie McCague

Approach to review

- The proposed 12 month deferral makes it difficult to meaningfully review the Industry Risks and Issues register, as there are at least 2 scenarios: no deferral and 12 month deferral
- Approach for today's PCF:
 - Review the critical risks and new issues
 - Circulate Industry Risks and Issues Register to PCF with proposed updates on risks that the intended resolution date has passed or is due in the short-term
- Propose to undertake a more thorough review of the risks once clarity on the proposed deferral is available

Industry Risks and Issues Register

Issues

ID	Owner	Title	Residual Rating	Trend	Actions
I08	PCF	There are a number industry changes including rule changes that need to be implemented in the coming years. This is putting pressure on Industry resources and systems and creating risk on participants' 5MS implementation programs	Significant	Up	<p>Consultative Group has now been established to cover this topic.</p> <p>This issue will be closed for 5MS as it will be managed through that group.</p>

Risks

ID	Owner	Title	Residual Rating	Trend	Actions
R25	PCF	Risk of the spread of Coronavirus impacting organisations resulting in an impact to 5MS program readiness	Critical	Up	Question added to the Industry Readiness Questionnaire. Discussed on next slide.

Covid-19 Risk – Responses from Industry Readiness Reporting

- Initial views from responses to Readiness Reporting Round 2
 - 80% of respondents have implemented mitigation measures within their program and organisation for the management of COVID-19 risks
 - Approx. 40% have noted current or potential impacts to 5MS / GS programs
 - In a number of cases impact to vendor programs (if any) has not been confirmed
 - Potential impacts have included:
 - Project staff availability and productivity
 - Impact to physical meter replacement activity
 - Vendor delivery
 - Resource diversion to address response to business operational requirements

Rule change: proposed 12-month deferral

Numerous

Rule Change Process – AEMC update

- To be provided during the PCF

Impact to 5MS Program

- AEMO has reviewed the potential impact of the proposed 12 month deferral on the 5MS Program
- This review confirmed that the proposed deferral does not cause an impact to the approach or timeline for development activities
- Changes to timeline described in previous sections is not a result of the proposed 12 month deferral and will not be impacted by the final determination
- Systems Impacts:
 - The Reallocations deployment would need to be reversed and redeployed with Reallocations effective from 1 July 2022
 - AEMO must ensure access to 5-minute functionality throughout the longer transition to account for the 'deploy-now' and 'defer' participant approaches. A combination of Pre-Prod and Staging is likely to be provided.
- However:
 - The systems will be deployed according to the described functionality, in-line with current systems timeframes – as mentioned Retail MDM timeline adjustment is not related to the 12-month deferral.
 - The backwards-capable design allows AEMO to independently switch on 5MS Capabilities without further releases of software (aside from when the bidding engine formally switches over to a 5-min market).

Approach to Assessment of Industry Impact

- To support participant impact assessment and response to proposed rule change the AEMO program will:
 - Develop “deferral scenarios” incorporating transition, participant testing, and metering transition approaches reflecting the proposed deferral
 - Engage the RWG and TFG (and associated focus group) to agree the scenarios
 - TFG engagement scheduled for 06-May
 - RWG session scheduled 14-May
 - Provide input as required to AEMC for development of rule change consultation paper
- Principles to reflect:
 - Continuation of AEMO internal program
 - Industry start dates to reflect proposed deferral
 - Support ability of participants to continue their programs where feasible

Readiness Scenarios

- The 5MS Readiness Workstream has identified scenarios to discuss with the TFG and RWG
- Transition (RWG):
 - Focus on AEMO Platform Deployment and timing
 - Transition windows for participant capability deployment
 - This will be as the timeline described in this pack
- Testing (RWG):
 - Focus on timing, indicative scope and approach for each industry and market testing phase
 - Participant capability testing opportunity pre and post AEMO system deployments
- Metering Transition Plan (TFG):
 - Metering transition activities extended to reflect deferral timeframes but reflect opportunity to continue programs if participant chooses
 - Capability Availability Dates
 - Transition end dates in line with assumed rule and procedure dates
 - Highlight those activities that require participant to participant agreement to proceed

Break

Readiness Workstream Update

Greg Minney

Readiness papers - timelines

Readiness paper	RWG/ITWG/FG engagement	Draft paper	Consultation	Comments due	Final paper
Industry readiness contingency plan	Nov-2019	20-Dec	6 weeks	31-Jan-2020	8 May 2020
MSP accreditation update plan	Oct-2019	29-Nov	11 weeks	31-Jan-2020	21-Feb-2020
Bidding and dispatch transition plan	Jun-2020	10-Jul	3 weeks	31-Jul-2020	28-Aug-2020

Industry Transition and Go-live Strategy and Industry Test and Market Trial Strategy to be reissued to incorporate changes arising from L1-M6 milestone shift

Workstream engagement

- Contingency Planning
 - Finalised paper undergoing review prior to issue
 - Industry feedback considered – no fundamental changes to draft
 - Final paper to consider updated definition of essential meters
 - RWG/PCF to consider critical mass and critical capability
 - Final paper to be issued
- Metering Transition Plan
 - TFG conducted 6 April 2020
 - Focus of activity:
 - Increase clarity and understanding of activities in the MTP
 - Confirm those areas where:
 - AEMO support may be required by participants
 - Implementation approaches to activities need elaborating
 - Share plans and approaches across impacted participants
 - Support ongoing participant work programs
 - MP meter installation plans provided by impacted MPs
 - Focus on installation and configuration of T1,2,3,4* meters
 - Will form the basis of progress reporting

Workstream engagement

RWG

- Next meeting will consider participant impacts resulting from:
 - Shift of L1-M6 and associated milestones,
 - Proposed 12 month Deferral Scenario
 - Transition and go live approach
 - Industry test and Market Trials – timing and scope
 - Metering Transition Plan – to be considered by TFG

ITWG

- Will confirm approach and scope of approach to Industry Testing and Market Trials under revised implementation plan and deferral scenario

Metering Accreditation Update Plan

- Pre-accreditation meetings have commenced
- Majority of participants have now provided initial feedback on their planned scope of change and implementation timings

Current as at 28-04-2020



- Milestone complete
- Milestone on track
- Milestone at risk
- Milestone not achieved

Level 2 Milestones – Readiness

Current as at 28-04-2020

Domain	Initiative	2019												2020												2021											
		Q1			Q2			Q3			Q4			Q1	L2-RE32	Q2			Q3			Q4			L2-M12	L2-RE29	L2-D8	L2-RE30	Q2			Q3			Q4		
Readiness																																					
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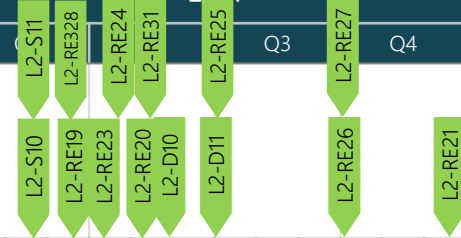
Key Milestones (Program)

ID	Milestone	Target Date	Expected Date	Owner	Status
L2-RE11	Metering Service Provider Accreditation Plan Finalised	13-Mar-2020	18-Feb-2020	AEMO	Completed
L2-S12	Reallocations Go-Live	01-Apr-2020	01-Apr-2020	AEMO	Completed
L2-RE32	Industry Test for Reallocations Concludes	31-Mar-2020	31-Mar-2020	AEMO	Completed
L2-RE22	Industry Transition Plan – Dispatch final complete	28-Aug-2020	28-Aug-2020	AEMO	
L2-M11	Market Trial preparation completed by participants for MDM and B2M Go-Live	22-Oct-2020	01-Feb-2021	Participants	
L2-M12	Market Trial preparation completed by AEMO for MDM and B2M Go-Live	22-Oct-2020	01-Feb-2021	AEMO	
L2-RE29	Retail MDM (incl. B2M) Market Trial Commences	22-Oct-2020	01-Feb-2021	AEMO	
L2-RE30	Retail MDM (incl. B2M) Market Trial Concludes	19-Nov-2020	03-Mar-2021	AEMO	
L2-RE18	Industry Go-Live Plan Retail MDM finalised	20-Nov-2020	20-Nov-2020	AEMO	
L2-M24	B2M Go-Live	17-Mar-2020	09-Mar-2021	AEMO	
L2-M10	5 min and 15 min MDFF accepted by AEMO	01-Feb-2021	01-Apr-2021	AEMO	
L2-D7	Dispatch Market Trial preparation completed by participants	17-Feb-2021	17-Feb-2021	Participants	
L2-D8	Dispatch Market preparation completed by AEMO	17-Feb-2021	17-Feb-2021	AEMO	

Level 2 Milestones – Readiness

Current as at 28-04-2020

Domain	Initiative	2019												2020												2021											
		Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4		
Readiness																																					
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec



Key Milestones (Program)

ID	Milestone	Target Date	Expected Date	Owner	Status
L2-S10	Settlements Market Trial preparation completed by participants	17-Feb-2021	17-Feb-2021	Participants	
L2-S11	Settlements Market Trial preparation completed by AEMO	17-Feb-2021	17-Feb-2021	AEMO	
L2-RE28	Dispatch and Settlements Market Trial concludes	15-Mar-2021	15-Mar-2021	AEMO	
L2-RE19	Industry Go-Live Plan Settlements, Dispatch & Bidding finalised	19-Mar-2021	19-Mar-2021	AEMO	
L2-RE23	5MS Capability Market Trial preparation completed by participants	06-Apr-2021	06-Apr-2021	Participants	
L2-RE24	5MS Capability Market Trial preparation completed by AEMO	06-Apr-2021	06-Apr-2021	AEMO	
L2-RE31	5MS Capability Market Trial commences	06-Apr-2021	06-Apr-2021	AEMO	
L2-RE20	Industry Go-Live Plan – 5MS Capability final complete	07-May-2021	07-May-2021	AEMO	
L2-D10	5MS Capability Market Trial concludes	31-May-2021	31-May-2021	AEMO	
L2-D11	30-min Bidding no longer accepted by AEMO	01-Jul-2021	01-Jul-2021	AEMO	
L2-RE25	MDMT format no longer accepted by AEMO for interval meters	01-Jul-2021	01-Jul-2021	AEMO	
L2-RE26	GS Market Trial preparation completed by participants	01-Oct-2021	01-Oct-2021	Participants	
L2-RE27	GS Market Trial preparation completed by AEMO	01-Oct-2021	01-Oct-2021	AEMO	
L2-RE21	Industry Go-Live Plan – GS Capability final complete	21-Dec-2021	21-Dec-2021	AEMO	

- Milestone complete
- Milestone on track
- Milestone at risk
- Milestone not achieved

Systems Workstream Update

Graeme Windley

SWG #21 Update

Most attended and engaged SWG yet – 100 personnel on the call at peak and three hours 15 mins in length. For the detailed discussion refer to the SWG #21 pack available [here](#).

aseXML Schema Release 39

- Multiple participants raised concerns about both Customer Switching and 5MS changes released in the same schema, although the industry go live dates are not connected. Therefore both changes must be ready to accept the schema.
- The schema is designed to enable the receipt of new fields, not stopping current processing (noting the need for regression testing).
- AEMO is to schedule a session for concerned participants to discuss.

A number of questions raised about Customer Switching – discussion with PCF on the reasoning.

Impact of Retail solution delay discussed, largely to provide clarity surrounding what will be delivered when.

5MS Staging Environment Update

Dispatch	Settlements	Metering
<p><u>DROP ONE – 29 November 2019</u> Submit 5-Min Bids, via new web interface, API and/or FTP Bidding Data Model changes as per technical specifications released July 2019 Case Loaders for PASA, Dispatch, 5-minute Pre-Dispatch & 30-minute Pre-Dispatch data</p>	<p><u>DROP ONE – 1 November 2019</u> Reallocations: available at both 30 and 5-min intervals New Web UI Calendar selection Alerts</p>	<p><u>DROP ONE – 1 December 2019</u> Test connection to Staging Test MDFF validations Validate data exchange</p>
<p><u>DROP TWO – 15 May 2020</u> Administrative Price Cap (calculated on a 5-min basis over the past seven days) Pricing DDL (provides the NEM report configuration; pricing will be in 5-min not 30-min)</p>	<p><u>DROP TWO – 15 March 2020</u> Settlements 30-min: R1, R2, PF and F runs all completed, tax invoices – RCTIs, Statements and Reconciliations available for the runs delivered Data interchange files produced 5-min to come</p>	<p><u>DROP TWO – 15 June 2020</u> Test MTRD CSV MDFF created for NEM Settlements and TUOS billing against new AEMO validations for NEM13 and NEM12 (30 min, 15 min and 5 min). Test MDMT CSV MDMF created for NEM Settlements against AEMO validations for Basic, Interval and Profile meters. Validate FTP or API message exchange with the NEMMCO participant ID for MTRD and MDMT MeterDataNotifications. Confirm AEMO ingested meter reads.</p>
	<p><u>DROP ONE – 1 November 2019</u> Prudentials (content TBC)</p>	<p><u>DROP THREE – 31 August 2020</u> TBC</p>
Drop Two Status : On track	Drop Three Status : On track	Drop Two Status : On track

Systems Workstream – Dispatch & Operations

Current as at 28-04-2020

5 MINUTE SETTLEMENT SYSTEMS TRACKING	TIMING									
	Internal HLIA	Focus/Group	SWG Engagement	External HLIA	Draft Tech Spec	Final Tech Spec	User Guides	SMS Staging	Preprod	Production
DISPATCH and OPERATIONS										
PACKAGE 1 - Bidding FTP and API										
Transition	Aug-18	Oct-18	Aug-18	Nov-18	Dec-18	2-Apr-19	31-Oct-19	29-Nov-19	Nov-20	Mar-21
Bidding Data Model	Aug-18	-	Sep-18	Mar-19	Dec-18	2-Apr-19	31-Oct-19	29-Nov-19	Nov-20	Mar-21
Bidding Format	Aug-18	-	Sep-18	Nov-18	Dec-18	2-Apr-19	31-Oct-19	29-Nov-19	Nov-20	Mar-21
PACKAGE 2 - Bidding Web UI										
Bidding Web UI and APIs	Aug-18	Nov-18	Dec-18	Jan-19	Mar-19	31-Jul-19	16-Dec-19	29-Nov-19	Nov-20	Mar-21
PACKAGE 3 - Dispatch, Pre-dispatch and PASA										
Dispatch	Aug-18	-	Oct-18	Nov-18	Oct-18	2-Apr-19	-	29-Nov-19	Nov-20	Mar-21
Predispatch P30/7DAY	Aug-18	-	Oct-18	Nov-18	Oct-18	2-Apr-19	-	29-Nov-19	Nov-20	Mar-21
Predispatch P5	Nov-18	Oct-18	Nov-18	TBC	TBC	TBC	-	TBC	Nov-20	May-21
ST and PD PASA	Aug-18	-	Oct-18	Nov-18	Oct-18	2-Apr-19	31-Oct-19	29-Nov-19	Nov-20	Mar-21
PACKAGE 4 - Pricing and Miscellaneous										
Trading Price / Price Revision	Aug-18	-	Feb-19	Nov-18	Mar-19	31-Jul-19	-	15-May-20	Nov-20	May-21
Administered Pricing and CPT	Aug-18	-	Feb-19	Dec-18	Mar-19	31-Jul-19	-	15-May-20	Nov-20	May-21
Suspension Pricing	Sep-18	-	Feb-19	Dec-18	Mar-19	31-Jul-19	-	15-May-20	Nov-20	May-21
Negative Residue Management	Sep-18	-	Feb-19	Dec-18	Jun-19	31-Jul-19	-	15-May-20	Nov-20	May-21
RERT	Oct-18	-	-	-	-	-	-	-	-	-
PACKAGE 5 - Full Data Model										
Full Data Model	Sep-18	Ongoing	Ongoing	Apr-19	Ongoing	31-Jan-20	16-Mar-20	29-Nov-19	Nov-20	May-21





Level 2 Milestones - Dispatch

Current as at 28-04-2020

Domain	Initiative	2019												2020												2021											
		Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4		
Dispatch																																					
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec

Key Milestones (Program)

ID	Milestone	Target Date	Expected Date	Status
L2-D1	Final technical specifications for Package 1 published by AEMO	2-Apr-2019	2-Apr-2019	Complete
L2-D2	Final technical specifications for Package 2 published by AEMO	31-Jul-2019	31-Jul-2019	Complete
L2D12	Final technical specifications for Package 4 published by AEMO	31-Jul-2019	31-Jul-2019	Complete
L2-D3	Software drop for Packages 1,2 & 3 in 5MS Staging Environment	29-Nov-2019	29-Nov-2019	Complete
L2-D13	Final technical specifications for Package 5 published by AEMO	31-Jan-2020	16-Mar-2020	Complete
L2-D5	Software drop for Package 4 in 5MS Staging Environment	15-May-2020	15-May-2020	
L2-D4	Development completed (internal)	31-May-2020	31-May-2020	

-  Milestone complete
-  Milestone on track
-  Milestone at risk
-  Milestone not achieved

5. MDFF Acceptance date adjusted to align with revised MDM Go-Live date.
Production date aligned with Production milestone "L2-M10 New MDFF format accepted by AEMO" tracked via Readiness Stream.

Systems Workstream - Metering

Current as at 28-04-2020

5 MINUTE SETTLEMENT SYSTEMS TRACKING	TIMING									
	Internal HLIA	Focus/Group	SWG Engagement	External HLIA	Draft Tech Spec	Final Tech Spec	User Guides	SMS Staging	Preprod	Production
METERING										
PACKAGE 1 - Metering Data & Metrology										
MDFF • MDFF Specification NEM12 NEM13 v20	Aug-18	Oct-18	Oct-18	Nov-18	Jan-19	Apr-19	-	1-Dec-19	22-Oct-20 01-Feb-21	01-Feb-21 09-Mar-21
PACKAGE 2 - MSATS & SLPs										
Transition • MSATS Technical Specification	Aug-18	Sep-18	Aug-18	Nov-18	31-May-19	30-Sep-19	-	-	-	-
Meter Data - MDFF and MDMF • MDM File Format and Load Process (User Guide) • MSATS Technical Specification	Aug-18	Oct-18	Sep-18	Nov-18	31-May-19	30-Sep-19	-	1-Dec-19	22-Oct-20 01-Feb-21	01-Feb-21 09-Mar-21
PACKAGE 3 - Miscellaneous										
B2M via API • MSATS Technical Specification	Oct-18	-	Apr-19	9-May-19	31-May-19	30-Sep-19	31-Jul-20	N/A	22-Oct-20 01-Feb-21	07-Dec-20 09-Mar-21
MSATS Browser (LVI) changes • MSATS Technical Specification	Aug-18	-	May-19	9-May-19	28-Jun-19	30-Sep-19	31-Jul-20	31-Jul-20 15-Jun-20	22-Oct-20 01-Feb-21	07-Dec-20 09-Mar-21
MSATS Report changes • MSATS Procedures MDM Procedure • MDM File Format and Load Process (User Guide) • MSATS Technical Specification General Process & Document Clean-up	Oct-18	-	Apr-19	Apr-19	28-Jun-19	30-Sep-19	-	31-Jul-20 31-Aug-20	22-Oct-20 01-Feb-21	07-Dec-20 09-Mar-21

1. New 'Release 2' Staging software drop to expose additional functionality at earlier date in Staging environment

2. Revised 'Release 3' Staging software drop to expose remaining end-state functionality in Staging environment

3. Pre-Production date(s) adjusted during April '20 AEMO replan. Date aligned with "L2-M12 Industry test preparation completed by AEMO for MDM and B2M Go-Live" milestone tracked via Readiness Stream.

4. Production date(s) adjusted during April '20 AEMO replan. Date aligned with "L1-19 AEMO Metering Solution - Go-Live" milestone tracked via Readiness Stream.

Level 2 Milestones – Metering

Current as at 28-04-2020

Domain	Initiative	2019												2020												2021											
		Q1			Q2			Q3			L2-M4	Q4			Q1			Q2			L2-M8	Q3			Q4			Q1			Q2			Q3			Q4
Metering																																					
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec

Key Milestones (Program)

ID	Milestone	Target Date	Expected Date	Status
L2-M1	AEMO internal metering solution – solution design complete (internal)	31-May-2019	17-Jun-2019	Complete
L2-M2	Final technical specifications for Package 1 published by AEMO	30-Jun-2019	30-Apr-2019	Complete
L2-M3	Final technical specifications for Package 2 published by AEMO	30-Sep-2019	30-Sep-2019	Complete
L2-M4	Final technical specifications for Package 3 published by AEMO	30-Sep-2019	30-Sep-2019	Complete
L2-M5	Software Release 1 for Packages 1 & 2 in 5MS Staging Environment	01-Dec-2019	01-Dec-2019	Complete
L2-M6	Software Release 2 for Package 3 in 5MS Staging Environment	15-Jun-2020	15-Jun-2020	New Staging milestone to release subset of end-state functionality earlier.
L2-M7	AEMO internal metering solution – build complete (internal)	30-Jun-2020	31-Aug-2020	Date adjusted post AEMO Apr '20 replanning.
L2-M8	Software Release 3 for Package 3 in 5MS Staging Environment	31-Jul-2020	31-Aug-2020	Date adjusted post AEMO Apr '20 replanning.

- Milestone complete
- Milestone on track
- Milestone at risk
- Milestone not achieved

Systems Workstream - Settlements

Current as at 28-04-2020

5 MINUTE SETTLEMENT SYSTEMS TRACKING	TIMING									
	Internal HLIA	Focus/Group	SWG Engagement	External HLIA	Draft Tech Spec	Final Tech Spec	User Guides	5MS Staging	Preprod	Production
SETTLEMENTS										
PACKAGE 1 - Reallocations										
Reallocations	Dec-18	Nov-18	Dec-18	Mar-19	31-Jul-19	15 Oct 19	1-Nov-19	1-Nov-19	1-Mar-20	1-Apr-20
PACKAGE 2 - Settlements and Billing										
Settlements	Oct-18	Nov-18	Dec-18	Mar-19	30-Aug-19	20 Dec 19	-	16 Mar 20	Nov-20	Apr-21
Billing	Oct-18	Nov-18	Dec-18	Mar-19	30-Aug-19	20 Dec 19	-	16 Mar 20	Nov-20	Apr-21
PACKAGE 3 - Prudentials and Estimation										
Prudentials	Sep-18	Nov-18	Dec-18	Mar-19	31-Oct-19	31 Jan 20	15 May 20	15 May 20	Nov-20	Apr-21
Estimation	Oct-18	Nov-18	Dec-18	Mar-19	31-Oct-19	31 Jan 20	-	15 May 20	Nov-20	Apr-21
Full Data Model	Refer DISPATCH									





Level 2 Milestones – Settlements

Current as at 28-04-2020

Domain	Initiative	2019				2020				2021			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Settlements					L2-S1 L2-S2	L2-S3	L2-S4	L2-S6	L2-S7 L2-S5				
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec

Key Milestones (Program)

ID	Milestone	Target Date	Expected Date	Status
L2-S1	Final technical specifications for Package 1 published by AEMO	15-Oct-2019	15-Oct-2019	Complete
L2-S2	Software drop for Package 1	01-Nov-2019	01-Nov-2019	Complete
L2-S3	Final technical specifications for Package 2 published by AEMO	15-Dec-2019	16-Dec-2019	Complete
L2-S4	Final technical specifications for Package 3 published by AEMO	31-Jan-2020	31-Jan-2020	Complete
L2-S6	Software drop for Package 2 in 5MS Staging Environment	16-Mar-2020	16-Mar-2020	Complete
L2-S7	Software drop for Package 3 in 5MS Staging Environment	15-May-2020	15-May-2020	On Track
L2-S5	Development completed (internal)	31-May-2020	31-May-2020	

-  Milestone complete
-  Milestone on track
-  Milestone at risk
-  Milestone not achieved

Forward Meeting Plan

Anne-Marie McCague

Proposed Executive Forum Agenda

- Next Executive Forum scheduled for 11 June 2020
- Proposed agenda:
 - Actions from previous meeting
 - Issues and critical risks
 - Program update – changes to milestones
 - Proposed 12 month deferral
 - Update on Readiness Report Round 2

Forward Meeting Agenda

June Agenda

- Proposed 12 month deferral
- Industry Risks and Issues Register (TBC)
 - Discussion on risks and issues that should be escalated to the Executive Forum
- Changes to milestones
- Stakeholder Engagement Survey Report

Next meeting: 2 June 2020

To add items to the agenda, please contact us at 5MS@aemo.com.au

Upcoming meetings

<https://aemo.com.au/initiatives/major-programs/nem-five-minute-settlement-program-and-global-settlement>

Current as 30 April 2020

MAY

Su	Mo	Tu	We	Th	Fr	Sa
26	27	28	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	3	4	5	6

JUNE

Su	Mo	Tu	We	Th	Fr	Sa
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	10	11

JULY

Su	Mo	Tu	We	Th	Fr	Sa
28	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	3	4	5	6	7	8

Forums/Working Groups
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
General Q&A session
National Public Holiday
State Public Holiday*

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

General Questions

Peter Carruthers

Meeting Close

Peter Carruthers

