

NEM Reform Implementation Forum

Meeting #12
27 June 2023



1. Welcome

We acknowledge the Traditional Owners of country throughout Australia and recognise their continuing connection to land, waters and culture.

We pay respect to their Elders past, present and emerging.

Agenda

#	Time	Topic	Presenter
1	1:00–1:05pm	Welcome	Greg Minney
2	1:05–1:10pm	Actions & Feedback from Previous Meeting	Greg Minney
3	1:10–1:20pm	2023 Release Summary	Greg Minney
4	1:20–1:35pm	May 2023 Release Summary <ul style="list-style-type: none"> • May Release Lessons Learned • Progress and Deliverable update • SAPS Delivery and Implementation Update 	Chris Fleming Jim Agelopoulos Greg Minney
5	1:35–2:05pm	August - October 2023 Release <ul style="list-style-type: none"> • Pre Production Refresh • IESS ADC – Progress Summary (09 Aug 2023) <ul style="list-style-type: none"> • Industry Testing approach • Go Live Criteria & Checkpoint / contingency • Go live plan / Comms plan • FFR – Progress Update <ul style="list-style-type: none"> • Go Live Criteria / Contingency / Comms plan (Registration release) • October release – industry testing, go live criteria draft • MT PASA – Progress Summary and Industry Test prep • 5MLP (ICF060) Progress Summary <ul style="list-style-type: none"> • Industry Testing Approach – August and October 	Greg Minney / Chris Fleming Emily Brodie Greg Minney / Carla Ziser Greg Minney Jim Agelopoulos

#	Time	Topic	Presenter
6	2:05–2:20pm	November 2023 <ul style="list-style-type: none"> • November Release Progress summary • November Scope confirmation • Metering Exemptions – Consultation Update 	Jim Agelopoulos
7	2:20–2:35pm	June 2024 Release <ul style="list-style-type: none"> • Progress Update Retail Procedures • BDU Model Design/ Settlement Changes / AEMO Checkpoint • Next steps 	Greg Minney Emily Brodie Emily Brodie
8	2:35–2:40pm	Other Initiatives <ul style="list-style-type: none"> • IDAM,IDX & Portal Consolidation 	Ulrika Lindholm
9	2:40–2:45pm	Upcoming Engagements	Ulrika Lindholm
10	3:45–3:00pm	General Questions & Other Business	Greg Minney

Appendix A:

Competition law meeting protocol and AEMO forum expectations

“Please note that this meeting will be recorded by AEMO and may be accessed and used by AEMO for the purpose of compiling minutes. By attending the meeting, you consent to AEMO recording the meeting and using the record for this purpose. No other recording of the meeting is permitted”

2. Actions & Feedback from Previous Meeting

Actions

(Item = Meeting # – Agenda # – Reference)

Item	Topic	Action	Responsible	Status
11.4.0.2	Progress and Deliverable update	AEMO are seeking feedback and suggested improvements on the May Release Implementation process via NEMReform@aemo.com.au .	Participants	Closed
11.4.0.1	Progress and Deliverable update	AEMO to consider a lessons learnt on the May Release Implementation process.	AEMO	Closed

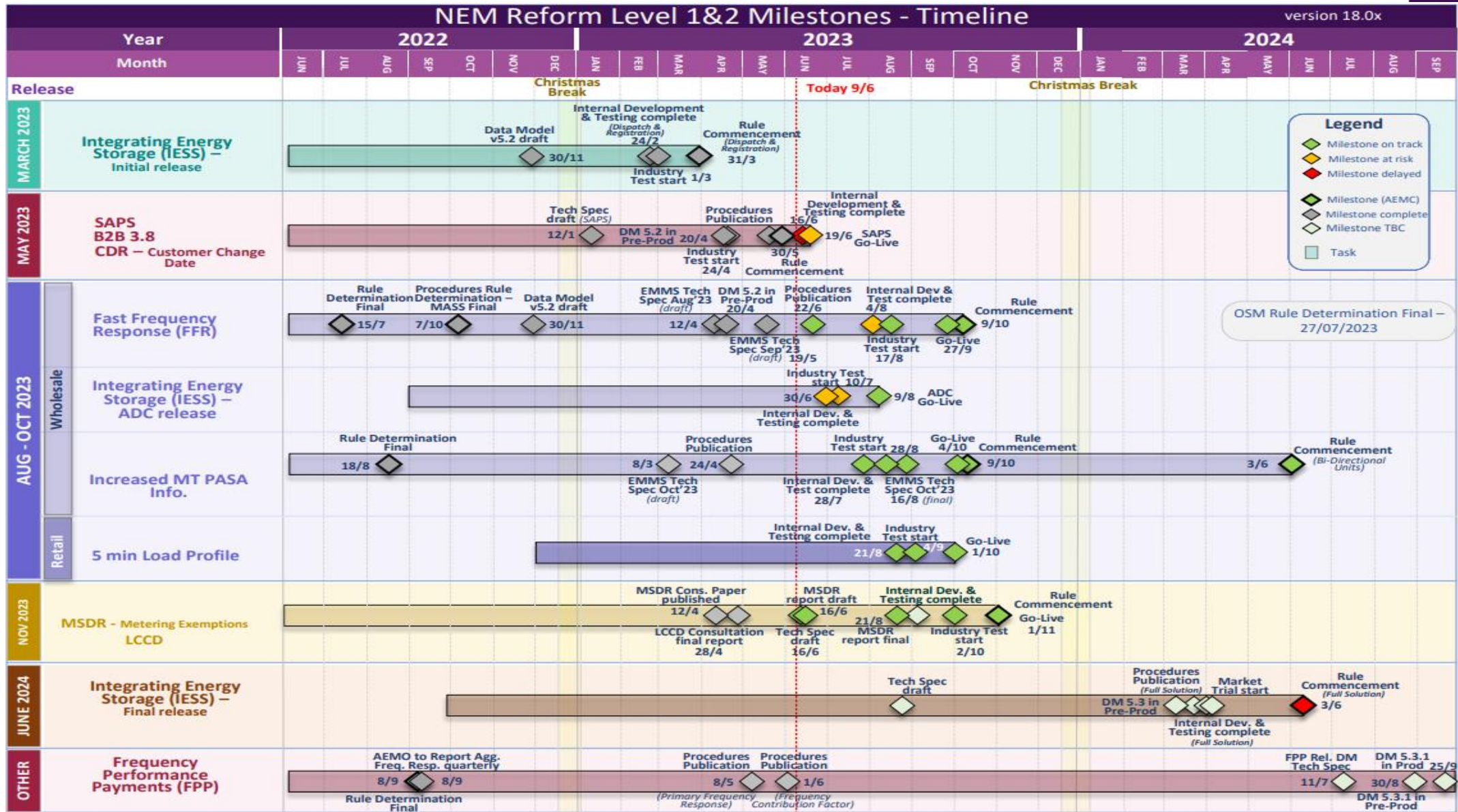
BDU Actions (Item = Meeting # – Agenda # – Reference)

Item	Topic	Action	Responsible	Status
BDU – 1	IESS BDU Options Summary	AEMO to update options summary with a cost column indicating High/Medium/Low cost of eligible implementation options	AEMO	Closed Refer to agenda item 7
BDU – 2	IESS BDU Options Summary	AEMO to consider providing written narrative outlining logic of the selection of option D.	AEMO	Closed Refer to agenda item 7

The latest meeting minutes and materials are available on the [Implementation Forum](#) webpage.

3. 2023 Release Summary

Release Summary milestones



4. May 2023 Release



May Release Lessons Learnt

Chris Fleming

May Release Lessons Learned

Lessons Learned Feedback Session run on 8th June. Key feedback:

Timelines

- Project timeframes were generally too compressed
- Tech specs and Schema details need to be released earlier in the project life cycle
- Defined Industry Test period was reduced and participants were not able to complete all test cases
- Final go-live decision was late due to a severity 2 incident, triage process for incidents is under review

Communications

- More information requested on incidents and general progress during the implementation window
- Escalation process for incidents to be reviewed
- Consider additional communications channels over the go-live window
- Q&A sessions were well attended and positively received

Technical

- Schema change information to be more concise and centralised
- Numerous issues clearing outboxes
- Issues also encountered with B2B schema settings not saving

AEMO responses can be found on the Lessons learned pack [AEMO | NEM Reform Implementation Forum](#)

Any further feedback on the May Release Implementation can be sent via NEMReform@aemo.com.au

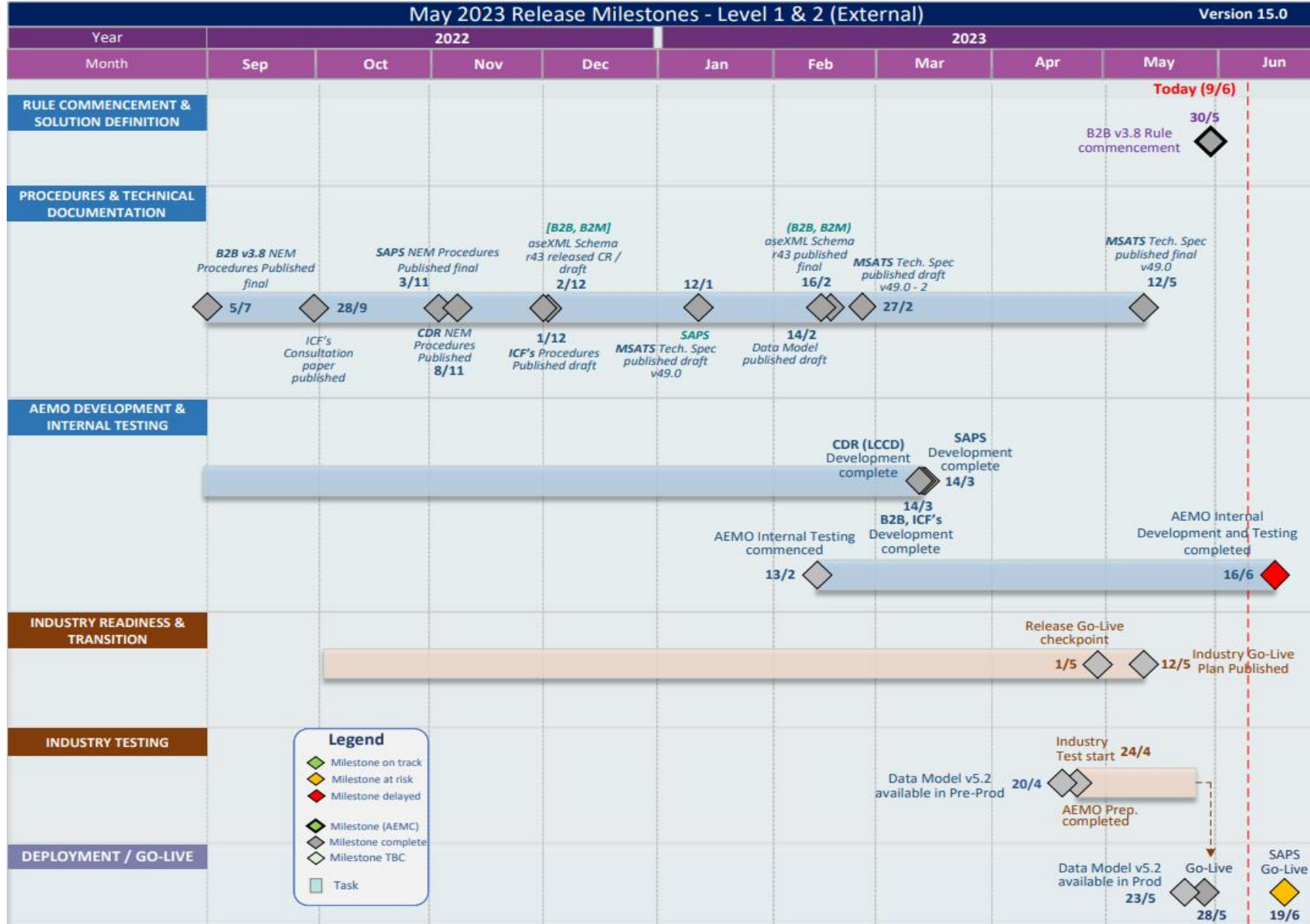
Progress and Deliverable update

Jim Agelopoulos

Milestone Review

May 2023 Release Milestones - Level 1 & 2 (External)

Version 15.0



Release Commentary

- SAPS May software release successfully deployed 18 June
- SAPS “Go-Live” planned 19/6, with phased introduction by DNSPs
- May release hypercare period to end 30 June
- Lessons learned session held for May Release on 8 June

Deliverable Update (Retail)

Deliverable	Content	Status	Initial Release	Final Release
B2B v3.8 & Other ICFs (MSATS Release 49.0)				
MSATS Technical Specification (v49.0)	Describes the projects and enhancements planned by AEMO from a participant perspective and includes the related changes to participants' IT systems	Final Published	12-Jan-23 27-Feb-23 06-Apr-23	15-May-23
B2M Mapping to aseXML	New guide detailing the mapping between the MSATS B2M procedures and the aseXML schema. An updated B2M Mapping to aseXML document was published in early May 2022 for participants.	Final published	05-Dec-22	02-May-23
Guide to MSATS B2B	Provides information about the B2B e-Hub functions available in MSATS. Latest version provides details of the new Shared Fuse One Way Notification	Final published	19-Oct-21 (previous version)	26-May-23
aseXML schema (r43)	The aseXML r43 schema will be the current XML version for B2B and B2M following the May 2023 Release. The changes in r43 include: B2M updates supporting Stand alone Power Systems, Consumer Data Right and Retail ICFs, while the B2B changes include a new transaction type for Shared Fuse One Way Notifications.	Final published	02-Dec-22	16-Feb-23

The Markets Portal Help is accessible from the following places on AEMO’s website:

- New: AEMO’s public website. [Click Here](#)
- Existing: Requires a MarketNet connection. [Click Here](#)

Deliverable Update (Wholesale)

Deliverable	Content	Status	Initial Release	Final Release
SAPS, MT PASA, IESS – ADC & Fast Frequency Response				
EMMS Data Model 5.2	Update to various tables to support SAPS, MT PASA, IESS ADC, Settlements, Billing and Fast Frequency Response initiatives for the August to October 2023 Release.	Revision Published	14-Feb-23 21-Mar-23	23-May-23



SAPS Delivery and Implementation Update

Greg Minney

SAPS Implementation

- SAPS “go-Live” date 19 June
 - Updates deployed 18th June for final Retail Release
 - SAPS Capability fully deployed to production
- SAPS Rollout
 - Deployment and activation of SAPS in production in line with DNSP processes for activation
 - Impacted parties notified as part of establishment process
 - Registration and establishment processes involve pre-prod update prior to migration to prod

5. August – October 2023 Release

August – October release

Four major deployments included in this release:

1. IESS – Aggregated Dispatch Conformance (**9 August**)
2. Fast Frequency Response (**9 August** and **9 October**)
3. Increased MT PASA information (**4 October** and **9 October**)
4. 5MLP – Updates to 5 Minute Load Profile Calculation (**1 October**)



Pre-Prod Refresh Planning

Greg Minney / Chris Fleming

Pre-Prod Refresh Planning

- Wholesale and Retail preproduction environments to support improved data currency for Industry testing of the ADC, FFR, 5MLP and MT PASA initiatives
- Planned outage dates are:
 - Wholesale outage **Friday 30 June** to **Wednesday 5 July**
 - Retail (MSATS and eMDM) Outage **3 July** to **7 July**, with Data cut being **2 July**.
- In addition to standard support hub notification NEMReform@aemo.com.au will email completion notification to Implementation forum



IESS – Aggregated Dispatch Conformance

09 Aug 2023

Emily Brodie

IESS (ADC) milestones and progress

RELEASE COMMENTARY

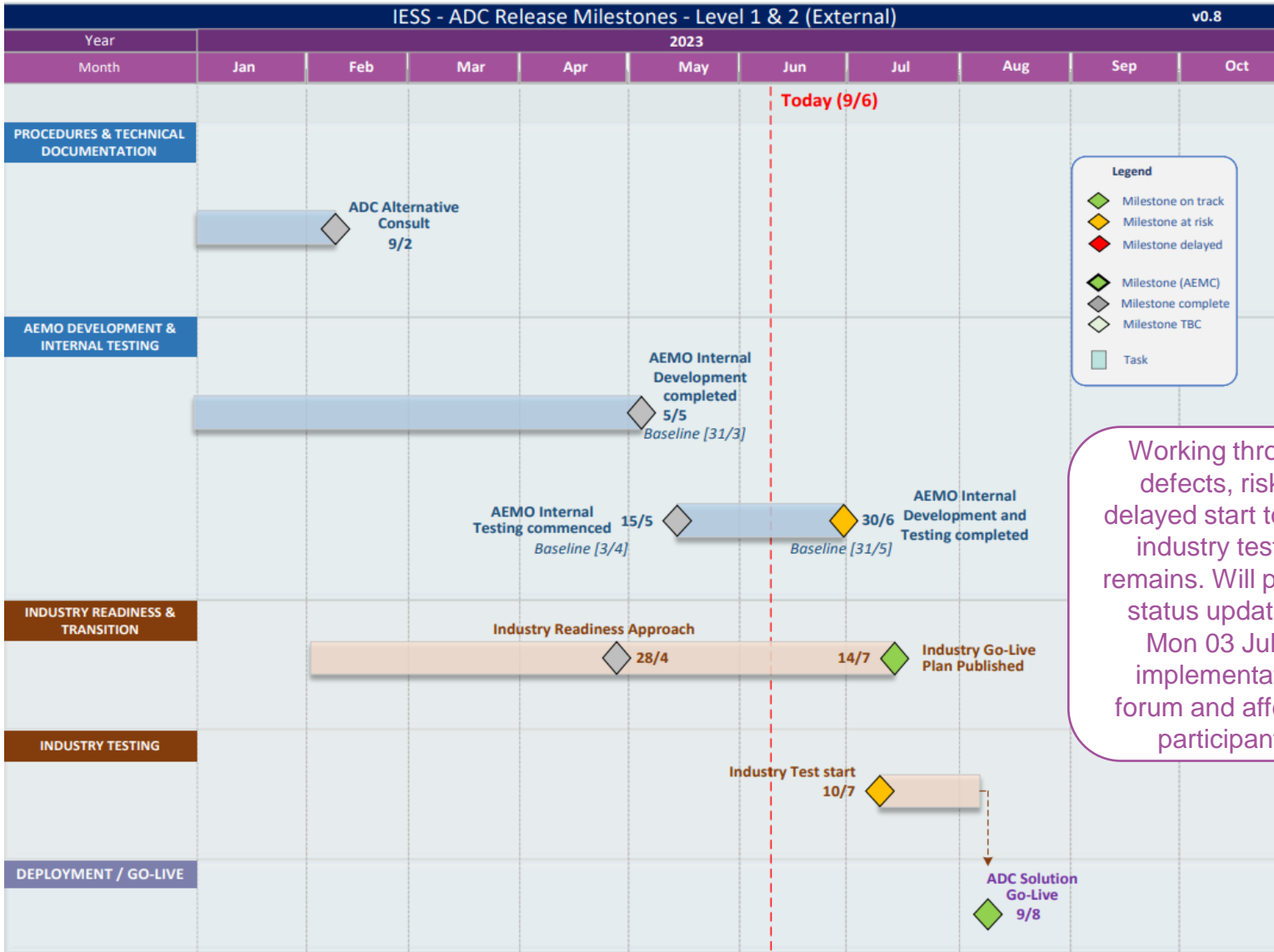
- AEMO must be ready - systems, processes, support
- Individual participant / participant category readiness is **not** a dependency for go-live
- ✓ [Dispatch Procedure](#) consultation complete. *New version has been published which includes template for conformance market notices for aggregates*
- ✓ [EMMS tech spec](#) complete
- ✓ No further changes to market interface required for ADC implementation

Internal AEMO development and testing remains behind schedule:

- Internal testing (SIT / UAT) schedule being confirmed to meet critical path for Industry Test with clearing of key defects the priority
- Risk to commencement of Industry Test if key tests not completed
- Position update to be provided at Implementation forum 27th June

- Invitation Industry Test approach being refined with engagement of Aggregates and BESS
- Release *draft* go-live plan (including FFR August components) for comment 21 Jun 2023.

Working through defects, risk of delayed start to ADC industry testing remains. Will provide status update on Mon 03 Jul to implementation forum and affected participants



Go-live criteria management: Industry checkpoint for August 2023 release

INDUSTRY CHECKPOINT PURPOSE:

To provide assurance of implementation/rule commencement preparations ahead of the industry test period, allowing time for finalising AEMO’s and participants’ business preparations.

Update to be provided on 27 June in session

INITIATIVE	AGGREGATED DISPATCH CONFORMANCE (09 Aug 2023): Aggregate Systems can apply to opt-in to Aggregated Dispatch Conformance	
CRITERIA	DESCRIPTION	STATUS: START DATE FOR INDUSTRY TEST AT RISK
Go-live criteria	<ul style="list-style-type: none"> AEMO solution tested in-line with requirements for: <ul style="list-style-type: none"> Enabling Aggregate Systems to register for and participate in ADC Conformance monitoring of Target Aggregates AEMO business ready to support ADC registration, dispatch and monitoring. 	<ul style="list-style-type: none"> SIT execution complete. UAT completion at risk. Target completion Fri 30 Jun 2023. Updated position to be provided at Implementation Forum All business readiness preparations are completed or on target for completion for 9/8 commencement.
	Optional participation for Aggregate Systems i.e. participant readiness activity is not a pre-requisite for go-live.	n/a
CONTINGENCY	Defer registration for ADC until go-live criteria are met.	No current indication that contingency will be needed.

ADC invitation testing approach

NOTE: ADC changes are minor for existing BESS and 'ADC' participants:

- AEMO will enable ADC for certain participants in its systems
- Affected participants will see small changes in dispatch conformance reports.



August 2023 release: ADC

DRAFT Industry test and go-live communications

#	AEMO actions	Industry impacts and actions	Planned Time (Market Time)	Communication Channel/s
1	<p>Prepare pre-production environment</p> <p>AEMO will implement changes to its Registration and Dispatch systems in the pre-production environment.</p>	n/a	Prior to Mon 10 Jul 2023	n/a
2	<p>Industry test period starts</p> <p>AEMO notifies Target Aggregates and existing Aggregate Systems that industry test period has opened.</p>	<ul style="list-style-type: none"> Target Aggregates and existing Aggregate Systems can choose to undertake ADC test activities. 	Mon 10 Jul 2023	<ul style="list-style-type: none"> Email to affected participants ITWG support Q&A sessions during test period
3	<p>Prepare production environment</p> <ul style="list-style-type: none"> AEMO will implement changes to its Registration and Dispatch systems in production. AEMO notifies existing Aggregates and BESS they will be placed on aggregate conformance and need to subscribe to new DISPATCH_CONFORMANCE reports to reconcile conformance status. 	<ul style="list-style-type: none"> Target Aggregates and existing Aggregate Systems prepare for ADC go-live. 	Prior to Wed 09 Aug 2023	<ul style="list-style-type: none"> Support Hub Notification Email to NEM Reform Implementation Forum members and impacted participants.
4	<p>ADC go-live</p> <ul style="list-style-type: none"> AEMO notifies Target Aggregates and existing Aggregate Systems that new ADC arrangements are operational AEMO notifies stakeholders when ADC registration opens 	<ul style="list-style-type: none"> Target Aggregates and existing Aggregate Systems are advised that the new ADC arrangements are operational. Stakeholders are advised that AEMO has opened ADC registration 	Wed 09 Aug 2023	<ul style="list-style-type: none"> Email to NEM Reform Implementation Forum members and impacted Participants. A notification will be posted on the IESS project website. “NEM Reform Announcement” e-newsletter to subscribers of newsletter
5	<p>Participant support</p> <p>AEMO to facilitate ADC industry Q&A session if there is sufficient demand from Participants</p>	Participants to advise AEMO if ADC Q&A required.	Aug/Sep 2023 (date TBC)	<ul style="list-style-type: none"> NEM Reform Implementation Forum ies@ieso.com.au

Next steps

- To participate in ADC industry testing, please contact us via NEMReform@aemo.com.au at any time
- AEMO will also provide email reminders about signing up for industry testing prior to 10 Jul 2023
- [Subscribe](#) to updated NEM reports: DISPATCH_CONFORMANCE to reconcile conformance status prior to 09 Aug 2023 (EMMS Data Model 5.2)

ADDITIONAL RESOURCES

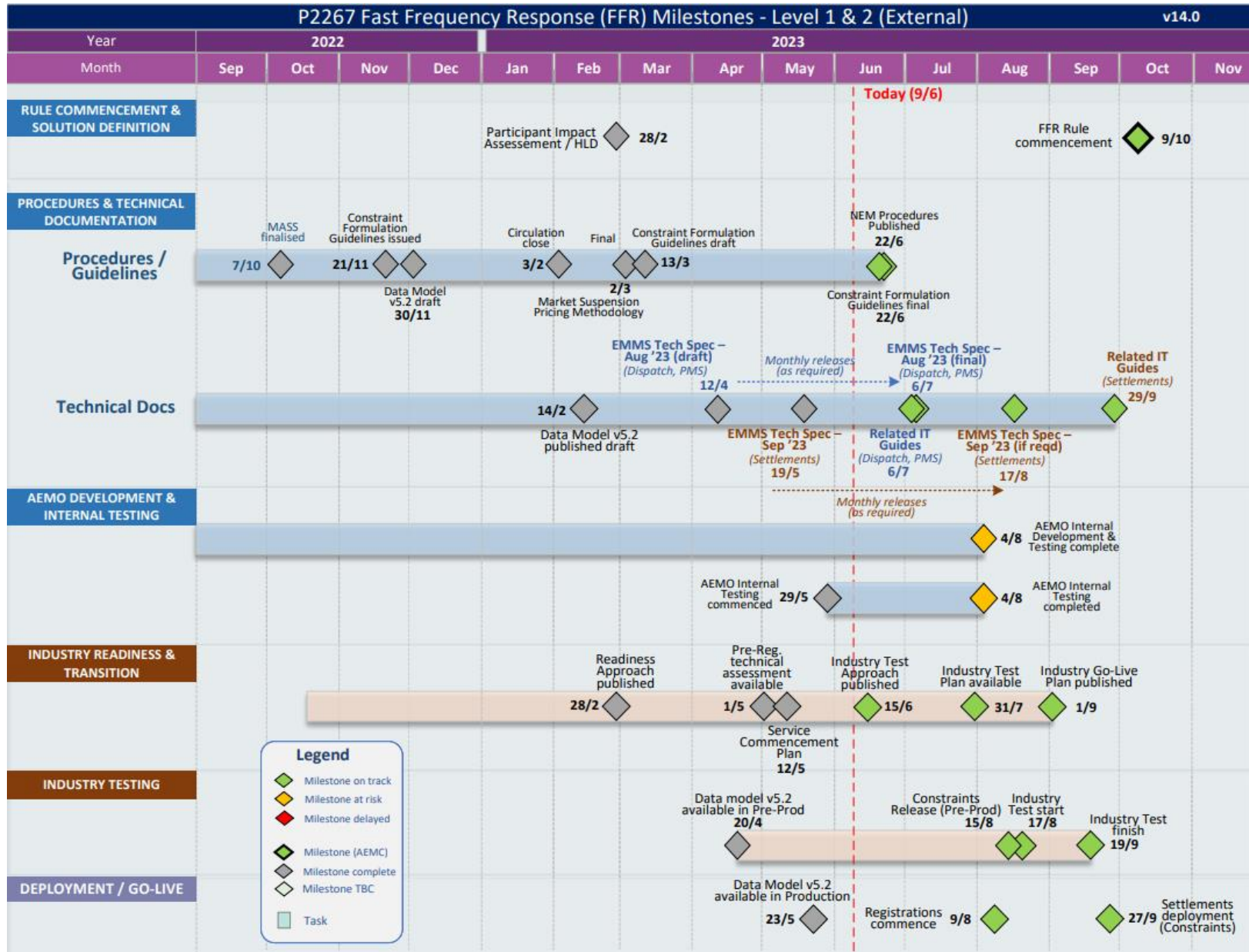
- [ADC fact sheet](#)
- [Dispatch procedure](#) – updated for ADC
- [IT change and release management information](#)
- [IESS Project webpages](#)



Fast Frequency Response

Greg Minney /Carla Ziser

FFR Milestones and progress



Release Commentary

- FFR will involve multiple deployments to enable progressive uptake of data and support participant registration and offers ahead of 9th Oct Rule commencement
- EMMS Data Model deployed to pre-prod 20/4, Prod 23/5
- Updated Technical Spec for PMS, Dispatch API, Bidding and Markets Portal updates published 19/5
- [Supporting information](#) available for participants to understand technical requirements for registration.
- Pre-Registration technical assessments underway, to provide provisional confirmation of VF FCAS maximum capacity
- AEMO development is in progress, noting some schedule pressures in relation to Integration and UAT testing completion for Phase 1 release (Registrations, dispatch) with Phase 2 (Settlements) currently on track
- Release *draft* go-live plan (including ADC) for comment 21 Jun 2023.
- Proposed industry test approach outlined to ITWG

Go-live criteria management: Industry checkpoint for August 2023 release

INDUSTRY CHECKPOINT PURPOSE:

To provide assurance of implementation/rule commencement preparations ahead of the industry test period, allowing time for finalising AEMO’s and participants’ business preparations.

INITIATIVE	FAST FREQUENCY RESPONSE – REGISTRATIONS (09 Aug 2023): Eligible providers can register to participate in VF FCAS	
CRITERIA	DESCRIPTION	STATUS: UAT AT RISK
Go-live criteria	<ul style="list-style-type: none"> AEMO solution tested in-line with requirements for enabling interested, eligible participants to register for VF FCAS AEMO business ready to support VF FCAS registration. 	<ul style="list-style-type: none"> SIT execution mostly passed, UAT behind schedule UAT execution at risk. Target completion remains at Fri 30 Jun 2023, to support Industry Test commencement including registrations from 9/8 All business readiness preparations are completed or on target for completion in line with 9/8 commencement
	Optional participation for interested, eligible providers i.e. participant readiness activity is not a pre-requisite for go-live.	n/a
CONTINGENCY	Defer registration for VF FCAS until go-live criteria are met.	No current indication that contingency will be needed.

August 2023 release: FFR

DRAFT go-live communications

#	AEMO actions	Industry impacts and actions	Planned Time (Market Time)	Communication Channel/s
1	Prepare pre-production environment AEMO will implement changes to its Registration and Dispatch systems in the pre-production environment.	<ul style="list-style-type: none"> N/A 	Prior to Mon 10 Jul 2023	<ul style="list-style-type: none"> N/A
3	Prepare production environment <ul style="list-style-type: none"> AEMO will implement changes to its wholesale systems in production. 	<ul style="list-style-type: none"> N/A 	Prior to Wed 09 Aug 2023	<ul style="list-style-type: none"> Support Hub Notification Email to NEM Reform Implementation Forum members and interested participants.
4	VF FCAS go-live <ul style="list-style-type: none"> AEMO notifies Participants that Registrations open for VF FCAS services. 	<ul style="list-style-type: none"> Interested, eligible providers can submit registration application/s to participate in VF FCAS. 	From Wed 09 Aug 2023	<ul style="list-style-type: none"> A notification will be posted on the FFR Initiative webpage. “NEM Reform Announcement” NEM Reform e-newsletter to subscribers of newsletter AEMO Communication newsletter article Announcement at following Implementation Forum, PCF and EWCF
5	Participant support AEMO to facilitate FFR registration Q&A session if there is sufficient demand from Participants	<ul style="list-style-type: none"> Participants to advise AEMO if FFR Registration Q&A required. 	Aug/Sep 2023 (date TBC)	<ul style="list-style-type: none"> AEMO Communication newsletter article Announcement at following Implementation Forum, PCF and EWCF Email to NEM Reform Implementation Forum members and interested participants.

Approach for Industry Testing

Objectives

To optionally provide participants the opportunity to:

- prove their updated systems against AEMO's market systems.
- test end-to-end scenarios of updated processes and procedures.
- to contribute to their assessment of overall industry readiness for rule commencement.

Approach

Industry test allows industry participants to further test their system with AEMO's.

In particular to:

- perform pre-prod demonstration of ability to submit bids for Very Fast FCAS as part of the Registration process to provide the new very fast FCAS services. (Applicants established in Pre-prod to perform this demonstration.) Submit and verify FCAS bids via the FTP, API, or Markets Portal 'Energy & FCAS 5min Bids' capability.
- ingest pre-dispatch and dispatch instructions, FFR enhancements to Wholesale Data Interchange MMS Data Model (DISPATCH, P5MIN, PREDISPATCH, TRADING_DATA, FORCE_MAJEURE packages).
- regression test bid, dispatch, and Wholesale Data Interchange functionality (participating and non-participating providers for the new services).
- test bidding processes and automated energy/FCAS trading tools are working correctly.
- ingest Settlement changes for generators and load market customers showing recovery calculations for the new service i.e., Settlement reports and data model via Wholesale Data Interchange (Settlement and Billing packages) and download via Settlements Direct (Markets Portal application).

Participating in Fast Frequency Response industry testing

- FFR Industry Test Approach (Dates Indicative):
 - 9th August – FFR Services registration commences
 - Once registered participants can submit offers (effective 4/9 to mimic 9/10)
 - Existing FCAS participants can perform testing of offers
 - 28th August – Pre-dispatch to include FFR offers
 - 3rd Sept – 5min Pre-dispatch to include FFR Offers
 - 4th Sept – FFR Offers included in Dispatch Instructions
 - 15th / 18th Sept – Settlement run(s) (data approach and settlement week 36 TBC)
- EMMS Data Model 5.2 currently available in Pre-prod supports FFR. Data population commences as per dates above

Industry Test Plan will be released and communicated via the [NEM Industry Testing Working Group \(ITWG\)](#) by 31 July 2023.

Those interested in FFR Industry Test participation are encouraged to join the ITWG.

Fast Frequency Response Go-Live

for market commencement on 9 October

- An Industry Go Live Plan (Final) that covers VF FCAS market commencement on 9 Oct 2023, will be published on 1 Sep 2023. Will include approach for decision on Market Readiness
- Indicative Go Live criteria below with Status checkpoint to be provided 30 July:

INITIATIVE	FAST FREQUENCY RESPONSE – Market Start (09 October 2023): Eligible providers can register to participate in VF FCAS
CRITERIA	DESCRIPTION
Go-live criteria	<ul style="list-style-type: none"> • Solution readiness: AEMO solution tested in-line with requirements and available for Industry Test • AEMO Business Readiness: AEMO business ready to support VF FCAS market commencement. • Market Readiness: Sufficient participants registered to provide service
	Optional participation for interested, eligible providers i.e. participant readiness activity is not a pre-requisite for go-live.
CONTINGENCY	Defer commencement of VF FCAS markets until go-live criteria are met, including deferral of solution implementation

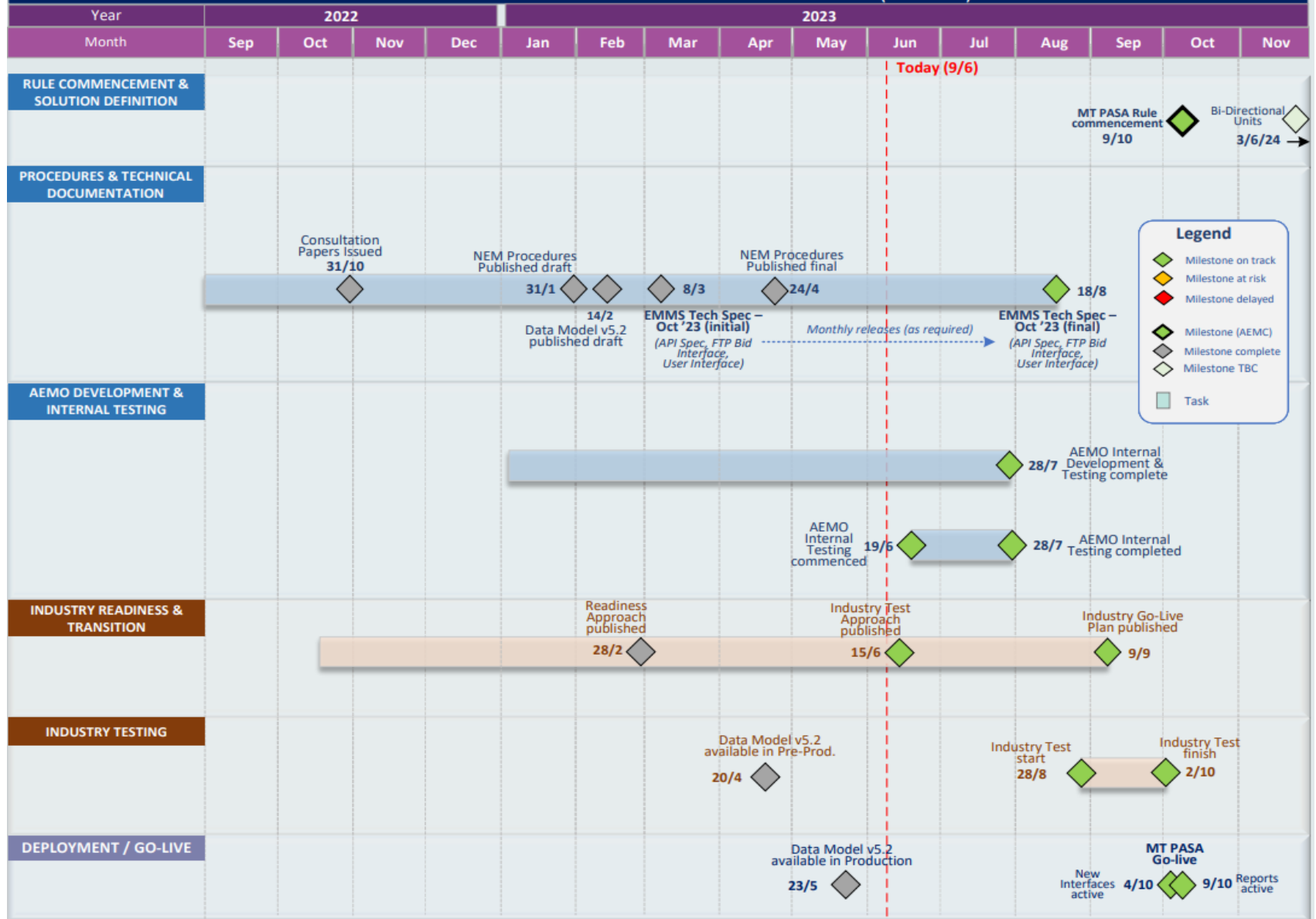


Increased MT PASA Information

Greg Minney

MT PASA Milestones and progress

P2276 Increased MT PASA Info Milestones - Level 1 & 2 (External) version 12.0



Release Commentary

- Procedures draft consultation response period completed; no departure from proposed approach noted
- AEMO IT Design and development in progress and on track
 - SIT in progress and on schedule for completion
- EMMS Data Model release to Pre-production 20/4, production 23/5
- Technical Spec updates released as required.
- Industry Testing for Individual participant confirmation of their updates

MT PASA: Indicative high-level impacts



The information presented here is general in nature. AEMO encourages industry participants to undertake their own due diligence to assess energy market reform impacts on their respective organisations.

AFFECTED MARKET SYSTEMS & PROCESSES	INDICATIVE PARTICIPANT CHANGE IMPACTS	AFFECTED PARTICIPANTS (TBC)												
		Generator	Sch. Load	SGA	IRP	FRMP	TNSP	DNSP	MC	MDP	MP	ENM	MSRP	Vendors
REGISTRATION														
BIDDING & DISPATCH	<p>LOW for those:</p> <ul style="list-style-type: none"> Scheduled generation unit and scheduled bi-directional units required to supply additional data fields. <i>Optional</i> for TNSP and Scheduled Load participants. 	✓	✓				✓							
RETAIL & METERING														
SETTLEMENTS														

Generator	Generators
Sch. Load	Scheduled loads
SGA	Small generation aggregators
IRP	Integrated resource providers

FRMP	Financially responsible market participant
TNSP	Transmission network service provider
DNSP	Distribution network service provider
MC	Metering coordinator

MDP	Metering data provider
MP	Metering provider
ENM	Embedded network manager
MSRP	Market SAPS resource provider

MT PASA Industry test approach

- MT PASA Capability for offer submission available in pre-prod from 28/8
- Participants will be able to submit offers via FTP, Web and API
- Data Model 5.2 supports MT PASA reporting

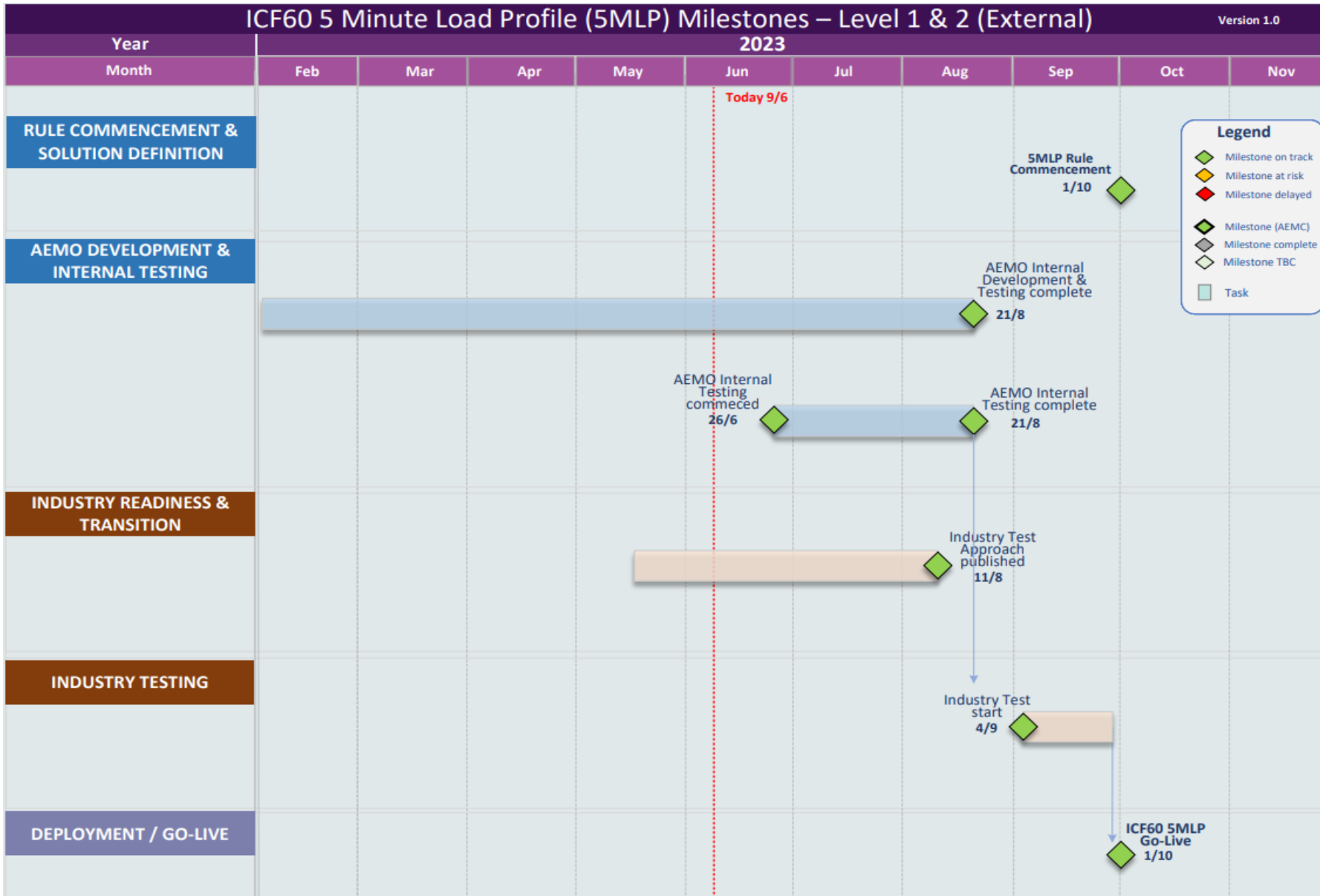
5MLP (ICF060)

Jim Agelopoulos

5MLP Timelines

ICF60 5 Minute Load Profile (5MLP) Milestones – Level 1 & 2 (External)

Version 1.0



Release Commentary

- AEMO testing has commenced and is scheduled to run until mid-Aug
- Industry Test will run from 4 Sept to 28 Sept
- Proposed Industry Test for participant feedback
- Effective date for 5MLP in production is 1/10

5MLP

- Procedure effective date for 5MLP change is 1 October
- No changes to technical specifications are required to support this change
- Industry Testing period to run from 4 Sept to 28 Sept
- Confirmed Testing approach
 - Validation of 5MLP changes in Preprod to be via RM Reporting based on 183 days data in the following sequence:
 - Baseline runs with weights (current profiling methodology)
 - Baseline runs without weights (current profiling methodology)
 - Run with new methodology (without weights)

6. November 2023 Release



November Release Progress Summary

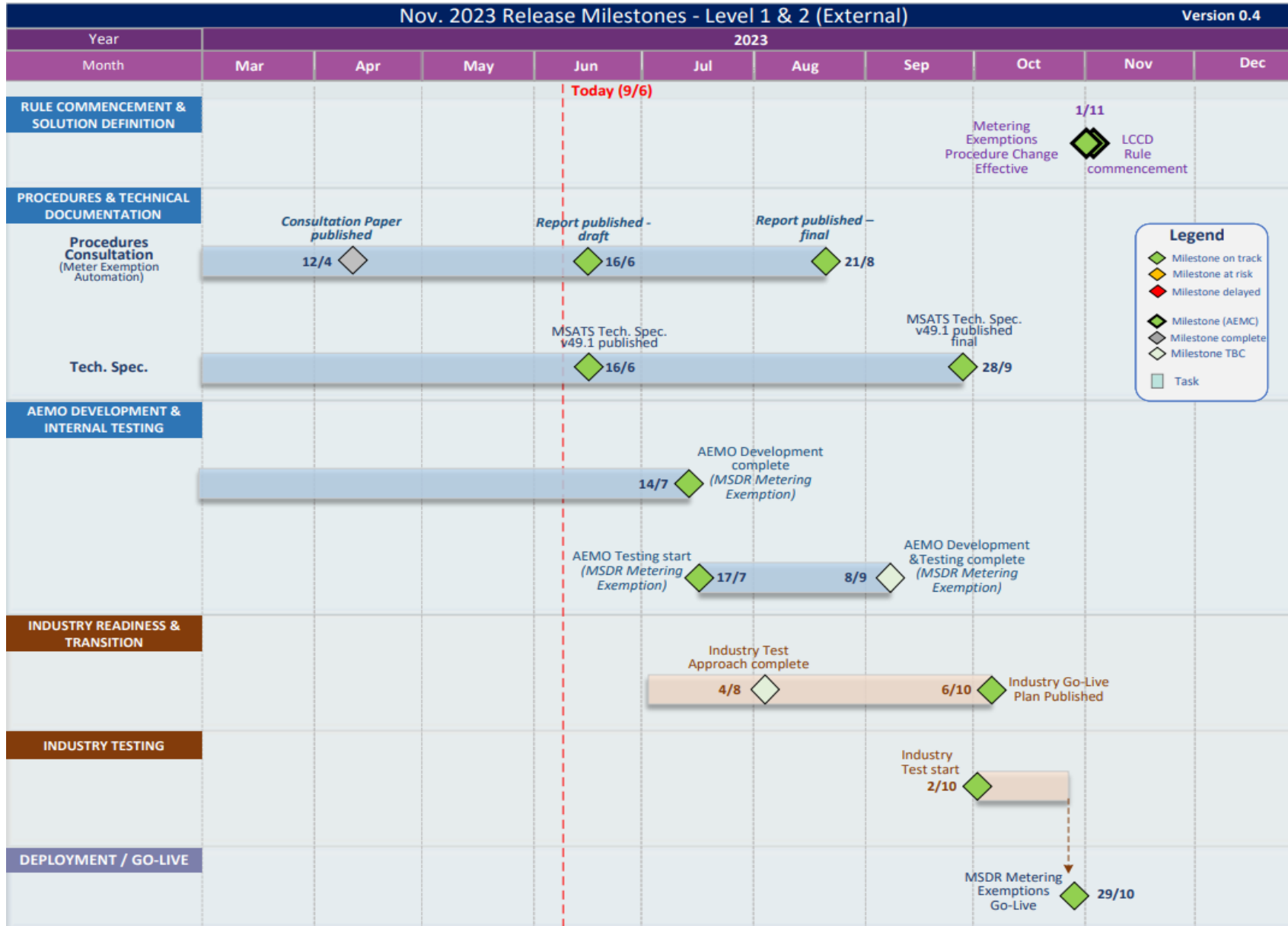
Jim Agelopoulos



November 2023 Timelines

Nov. 2023 Release Milestones - Level 1 & 2 (External)

Version 0.4



Release Commentary

- Metering Installation Exemption Automation Draft report was published on schedule on 16/06
- Draft MSATS Technical Specification for the November release published 19/06
- MSATS development for Meter Exemptions is nearing completion
- Effective date for LCCD in pre-prod is 1/09
- Industry Test Start date for Meter Exemptions 2/10
- LCCD effective date 01/11 in production
- CDR Tranche 3 Retailers with >10k customers 01/11

November Release Scope

CDR

- LCCD go-live 1 November. Available for Industry Test in pre-prod from 1 September.
- CDR APIs available to Small Retailers that become accredited as data recipients from 15 November 2023. No formal Industry Test. Registration and pre-prod testing is via the BAU process.

MSDR

- MSDR Compliance Holiday end effective from 7 November. Enforcement of Change Request mandatory field validations for:
 - ConnectionConfiguration mandatory for CR5000 series.
 - CRs 3004, 3005, 3050, 3051, 3080, 3081, 3090, 3091 where ElectricityMeter/Status is Current.
- UnstructuredAddress no longer searched when undertaking NMI Discovery or returned for: CATS Reports (C1, C4, C7), MSATS Snapshot Report.
- Industry test to align with Metering Exemptions – 2 October to 28 October .

Metering Exemptions

- New functionality on the MSATS portal supported by APIs. Available from 1 November.
- Automation of the exemption process by creating MSATS interfaces which participants can use to apply for exemptions, and for extensions to the current exemption applications.

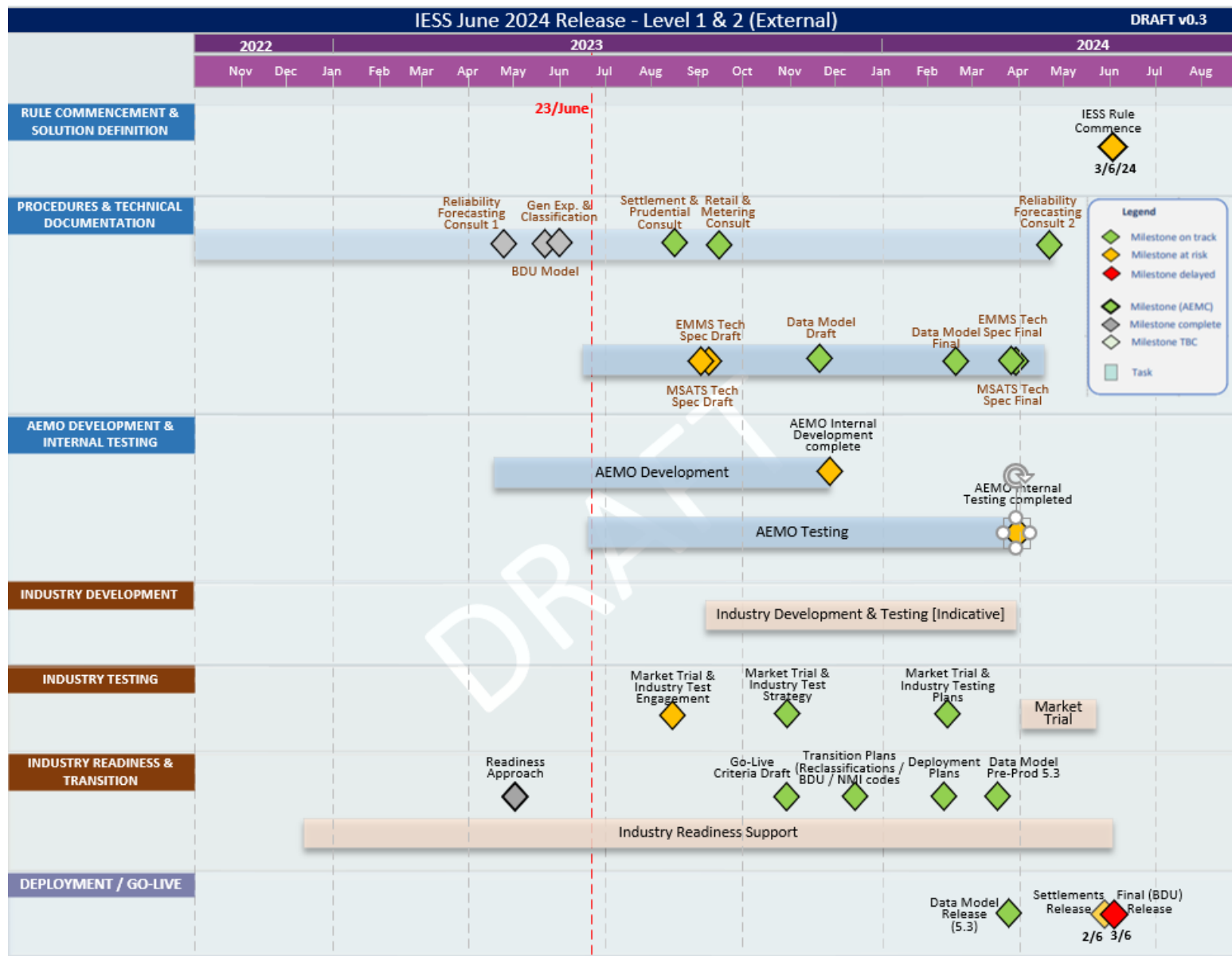
Metering Exemptions - MSDR

- Procedure consultation has been published on the [AEMO's website](#).
- Draft Procedure has been published

Stage	Date
Consultation paper published	12 April 2023
Submissions due on consultation paper	12 May 2023
Draft report published	16 June 2023
Submissions due on draft report	17 July 2023
Final report published	21 August 2023

7. June 2024 Release

June 2024 - IESS Final Release



RELEASE COMMENTARY

- [Procedures consultation](#) in progress via EWCF/ ERCF*
- BDU model information session held Wed 31 May.
- AEMO development and testing completion milestone rated amber with resourcing and schedule considerations to be addressed to return to green
- Participant impact feedback (particularly on IESS Settlements) is being assessed and will be discussed in this session.
- Following milestones being defined and confirmed:
 - Draft technical documentation
 - Industry readiness support
 - Industry Testing and participant development support
 - Transition and go-live plans

*Electricity wholesale / retail consultative forums



IESS Settlement Changes Update

Emily Brodie

Update

1. Update on response to feedback
2. Issue: IESS settlement impacts
3. Transition options suggested by participants
4. Transition option raised by AEMO
5. Participant support option being considered

Update on response to feedback

At the 30 May Implementation Forum AEMO committed to the following actions about implementing IESS Settlement changes.

	ACTION	AEMO RESPONSE
1	AEMO to consider transition options (including those suggested by participants) for discussion at either Implementation Forum or dedicated workshop.	<ul style="list-style-type: none"> • AEMO is raising a transition approach to mitigate participant impacts at go-live for consideration. • Please see next section.
2	AEMO to: <ul style="list-style-type: none"> • Reassess tech spec and data model timing. • Engage with participants on development needs, including consideration of if/when a support environment is provided • Manage the risk of AEMO delays by monitoring against agreed milestones (visible to industry) and will include contingency planning in discussion with industry. 	AEMO to provide next PCF (Wed 12 Jul) with update on feasibility of earlier implementation support, e.g. tech specs, data model, development environment.
3	AEMO to consider content and timing for another dedicated IESS settlements workshop, including agenda items proposed by participants.	An IESS Settlements workshop is being considered for 19 July. <ul style="list-style-type: none"> • Likely agenda topics: Overview of changes, Industry transition approach, Q&A. • Likely channels of communication to maximise awareness: AEMO's Settlement Managers contact list, Implementation Forum, IESS' mailing list and AEMO Communications newsletter. • Resource to be published on the IESS Participant Toolbox.

Issue: IESS settlements impacts

- From recent feedback, AEMO understands that participants use data from SETGEN and SETCP settlement tables for:
 - Settlement statement reconciliation
 - Other operational areas e.g. trading, forecasting, strategy etc.
- IESS changes to these tables are a significant impact to participants and AEMO
- AEMO has considered IESS settlement transition options (including those suggested by participants) to lessen the impact of IESS settlement changes.

Transition options suggested by participants

OPTIONS		AEMO RESPONSE / ANALYSIS
Participant suggestions for IESS settlements transition:		
1	Backload historical data into new table structures to support testing	Historical data could not be recalculated for the new rule, just forced into the new table structure in a way that may not always be consistent.
2	Provide data models at least 6-12 months ahead of market trials. Current planning sees data model in pre-prod mid March ahead of June go live.	<ul style="list-style-type: none"> AEMO to provide next PCF (Wed 12 Jul) with update on feasibility of earlier implementation support. See also slide below on possible additional support
3	Provide a view that mimics the old tables for a period to allow transition (e.g. 1 year)	<ul style="list-style-type: none"> Not technically possible to populate <u>all</u> deprecated tables within the settlements database given processing constraints and new data format. The provision of data for <u>a few</u> data model settlement tables may be possible, with several limitations as discussed on the next slides.
4	Update the 'proposed to be deprecated' tables in parallel to the new for a period to allow transition (e.g. 1 year)	As above.

Transition option raised by AEMO (1/2)*

*Adaption of participant suggestion that AEMO “provide a view that mimics the old tables for a period to allow transition.”

SUGGESTED APPROACH:

- Data model legacy settlements report could continue to populate setcpdata, setgendata and setsmallgendata from the data in the new table structure
- Would remain in place only until the following data model release, 6-12 months after the IESS data model go-live
- Other deprecated tables such as setcpdataregion, energy_customer_summary and billingcpdata would **not** continue to be updated from IESS commencement
- All market battery reads would be populated to setgendata once current dual NMI configuration is replaced by the IESS single NMI/DUID structure
- Generator exports (field EXPENERGY in setgendata) would be populated with ACE, so would not reconcile with the DLF adjusted meter read, due to the impact of UFEA
- Fields in the legacy tables that do not have equivalent fields in the new tables, for example CPRRP (= RRP * TLF) in setcpdata, would no longer be populated.

Transition option raised by AEMO (2/2)

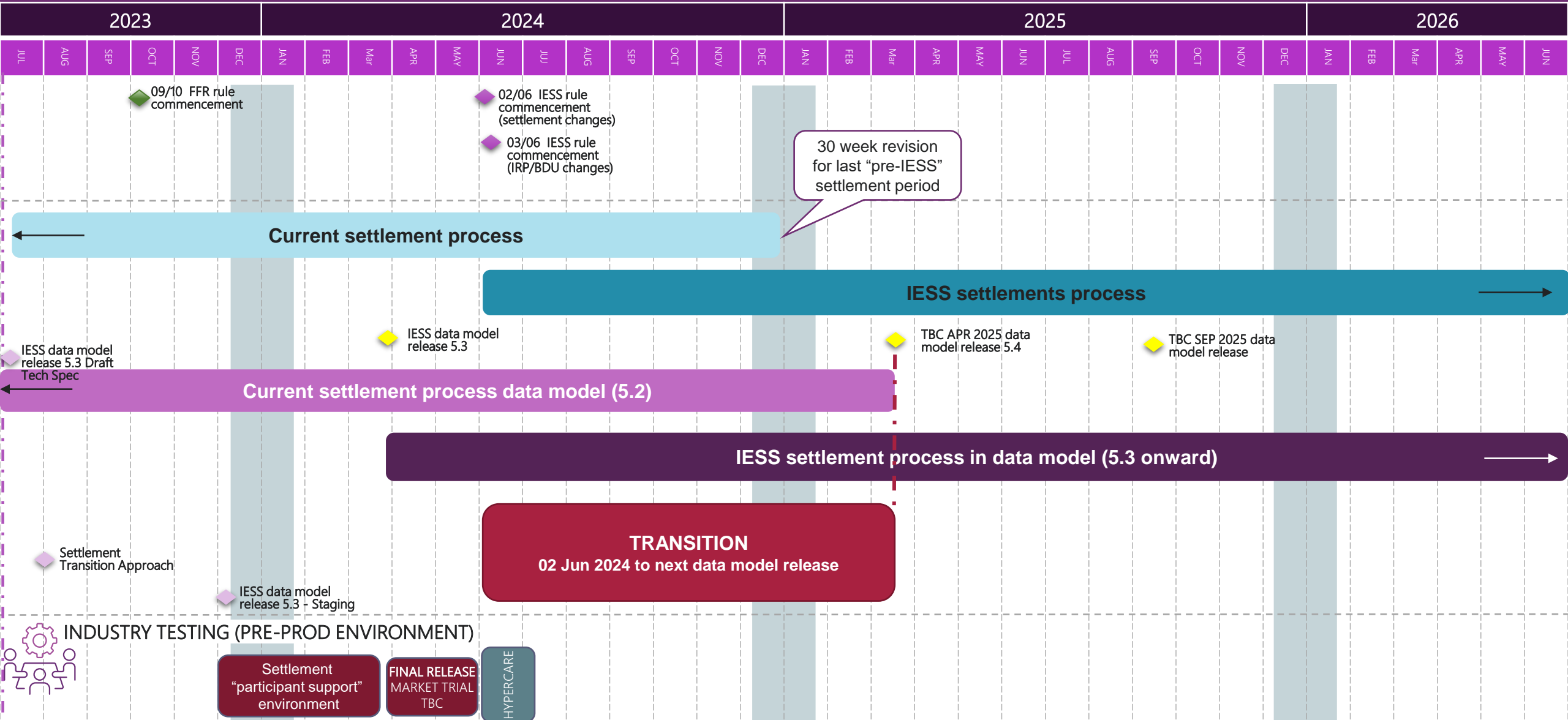
BENEFITS

- Allows participants more time to implement IESS settlement changes
- Allows participants to use data from the 'old' tables that would be closely aligned with the 'new' IESS settlement information (ACE/ASOE)

DRAWBACKS

- Would not allow participants using the 'old' tables to reconcile against the new IESS settlement statements
- Participants would need to carefully assess and understand the data impacts on any downstream processes that are dependent on the 'old tables'
- From IESS commencement, AEMO Settlements team would not be able to provide reconciliation support to participants using the 'old' tables:
 - AEMO will not have visibility of the 'old' data model for settlements
 - Any questions raised will be answered in the context of the new IESS settlement database structure

INDICATIVE possible IESS settlement transition option



Participant support option being considered

- AEMO is investigating the potential for an IESS settlements “participant development” environment:
 - Would provide a static view of populated settlement table data structures supporting data model 5.3
 - Would allow participants to test data ingestion processes and downstream data processing using new data structures
 - Would not necessarily replicate production settlement runs.

IESS settlements: Next steps

- AEMO to explore value of transition approach and development environment with participants before a decision is made to proceed (given the significant extra development and testing work required)
 - 1to1 conversations with some participants in June/July
 - Hold IESS settlement workshop ~19 Jul 2023
- Participants to consider pros and cons of transition approach and development environment for their business
- Participants to provide feedback to AEMO by **Fri 28 Jul** via any of:
 - iess@aemo.com.au
 - 1to1 conversation
 - Workshop



IESS BDU Changes Update

Emily Brodie

BDU implementation: Next steps

Over the past few months, AEMO has sought detailed feedback from stakeholders on the implementation design and industry transition for the Bidirectional Unit (BDU) model.

Wed 31 May	IESS project provided an overview of feedback received and resulting responses, including adjustments to the BDU model design.
Fri 30 Jun	AEMO to publish a BDU final design and transition info pack: <ul style="list-style-type: none">• Allows participants to plan and scope their BDU implementation• Supports early conversations with vendors• Does not have sufficient technical detail for development certainty.
Wed 12 Jul	AEMO to provide PCF with update on feasibility of earlier implementation support, e.g. tech specs, data model, development environment.

Note: AEMO received a request from some participants on Mon 19 June to engage further on the costs, benefits and timing of the BDU model. We will respond to this request in parallel with the items above.

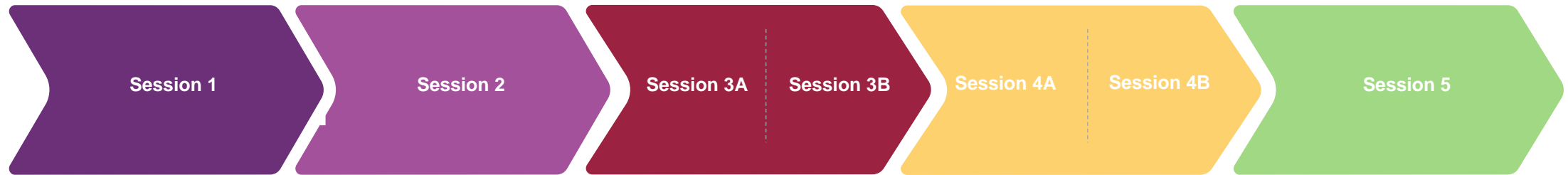
8. Other initiatives





Strategic / Foundational Initiatives

Ulrika Lindholm

Industry Consultation – update

- Discovery phase and Target state workshops completed with supportive and constructive interactions to date
- Interactions suggests:
 - the nature of content is more technical than expected
 - participants are looking to understand detailed implications before a transition has been discussed
- AEMO team is working through additional feedback, especially on IDX, to ensure the focus group aligns on the target state prior to moving on to the next phase of the consultation.
- To access presentations from past session, visit the Focus Group [webpage](#).



Session	Introduction – IDX, IDAM & PC ✓	Discovery Workshops – IDAM and PC ✓	Target State Discussion	Transition Strategy	Conclusions and Business Case
Agenda	<ul style="list-style-type: none"> • Introduce initiatives • Outline workshop plan 	<ul style="list-style-type: none"> • Pain points and benefits • Survey 	<ul style="list-style-type: none"> • Concept walkthrough ✓ • <i>Additional survey</i> ✓ 	<ul style="list-style-type: none"> • Transition Strategy • Impacts & Benefits 	<ul style="list-style-type: none"> • Summary • Options
Audience		 	 	 	

Consultation update - schedule

FOR NOTING: Schedule change

Session	Original date	New date
Session 4A: Transition Strategy for Technical Focus Groups	19 June	20 July
Session 4B: Transition Roadmap for Business Focus Groups	26 June	26 July
Session 5: Conclusions and Business Case	10 July	17 August

If you are a nominated member of the Foundational & Strategic Focus Group, and you have NOT received updated calendar invitations, please reach out to us at

NEMReform@aemo.com.au.

9. Upcoming Engagements

Upcoming Engagements

June						
S	M	T	W	T	F	S
				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	

July						
S	M	T	W	T	F	S
						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					

August						
S	M	T	W	T	F	S
		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		

September						
S	M	T	W	T	F	S
					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

NEM Reform Program Forums
Program Consultative Forum
Reform Delivery Committee
Reform Delivery Committee - Collab W.
Implementation Forum
Electricity Wholesale Consultative Forum
Electricity Retail Consultative Forum
Industry Testing Working Group
AEMO Consumer Forum
Placeholder - Executive Forum
NEM Reform General Stakeholder Briefing & Implementation Roadmap Briefing
Initiative Specific Meetings
NEM Reform Foundational and Strategic initiatives
May Go-Live Criteria
Other
National Public Holiday
State/Territory Public Holiday

Note - Please note that the FPP participant impact focus group will be held on 30 June. Please forward your request to FPPConsultation@aemo.com.au

To learn more about these events, please visit AEMO's [Industry meeting calendar](#) or contact the program at NEMReform@aemo.com.au.

10. General Questions & Other Business



NEMReform@aemo.com.au



[AEMO | Implementation Forum](#)



Appendix A: Competition law meeting protocol

AEMO Competition Law - Meeting Protocol

AEMO is committed to complying with all applicable laws, including the Competition and Consumer Act 2010 (CCA). In any dealings with AEMO regarding proposed reforms or other initiatives, all participants agree to adhere to the CCA at all times and to comply with this Protocol. Participants must arrange for their representatives to be briefed on competition law risks and obligations.

Participants in AEMO discussions **must**:

- Ensure that discussions are limited to the matters contemplated by the agenda for the discussion
- Make independent and unilateral decisions about their commercial positions and approach in relation to the matters under discussion with AEMO
- Immediately and clearly raise an objection with AEMO or the Chair of the meeting if a matter is discussed that the participant is concerned may give rise to competition law risks or a breach of this Protocol

Participants in AEMO meetings **must not** discuss or agree on the following topics:

- Which customers they will supply or market to
- The price or other terms at which Participants will supply
- Bids or tenders, including the nature of a bid that a Participant intends to make or whether the Participant will participate in the bid
- Which suppliers Participants will acquire from (or the price or other terms on which they acquire goods or services)
- Refusing to supply a person or company access to any products, services or inputs they require

Under no circumstances must Participants share Competitively Sensitive Information. Competitively Sensitive Information means confidential information relating to a Participant which if disclosed to a competitor could affect its current or future commercial strategies, such as pricing information, customer terms and conditions, supply terms and conditions, sales, marketing or procurement strategies, product development, margins, costs, capacity or production planning.



For more information visit

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