

WDR Consultative Group #12

Tuesday 15 June 2021

Microsoft Teams only

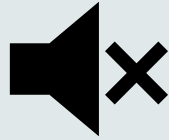
Please disconnect from your workplace VPN for the call

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

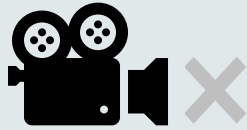
*We acknowledge the
Traditional Owners of country
throughout Australia and recognise
their continuing connection to
land, waters and culture.*

*We pay our respects to their
Elders past, present and emerging.*

Online forum housekeeping



1. Please mute your microphone, this helps with audio quality as background noises distract from the information being shared.



2. Video is optional, but having it turned off helps with webinar performance and minimises distractions.



3. We ask that you utilise the Chat function for any questions or comments you may have if you are unable to use audio.



4. If you have dialled in via phone, could you please email your name and organisation to WDR@aemo.com.au for our records.



5. Be respectful of all participants and the process.

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**:

1. Ensure that discussions are limited to the matters contemplated by the agenda for the discussion
2. Make independent and unilateral decisions about their commercial positions and approach in relation to the matters under discussion with AEMO
3. 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:

1. Which customers they will supply or market to
2. The price or other terms at which Participants will supply
3. Bids or tenders, including the nature of a bid that a Participant intends to make or whether the Participant will participate in the bid
4. Which suppliers Participants will acquire from (or the price or other terms on which they acquire goods or services)
5. 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.⁴

AGENDA

#	TIME	TOPIC	PRESENTER
1	10:30am – 10:35am	Welcome	Ruth Guest (Chair)
2	10:35am – 10:40am	Notes, actions and feedback from previous meeting	Emily Brodie
3	10:40am – 10:50am	5MS program update	Ruth Guest
4	10:50am – 10:55am	Stakeholder update	Emily Brodie
5	10:55am – 11:05am	WDR industry risk register	Emily Brodie
6	11:05am – 11:15am	WDR contingency	Emily Brodie
7	11:15am – 11:25am	WDR program scope changes	Ruth Guest
8	11:25am – 11:30am	Technical specification updates	Armando Estrella
9	11:30am – 11:55am	Q+A	Ruth Guest Greg Ruthven Katalin Foran Stephen Harrison
10	11:55am – 12:00pm	General questions and closing	Ruth Guest
APPENDICES			
A	Indicative program schedule		
B	Project and system document changes		

Notes, actions and feedback from previous meeting

Emily Brodie

Responses to WDR CG #11 meeting actions

#	Topic	Action	Response
11-02-01	Update on potential 5MS impacts on WDR.	WDR CG to provide feedback on slide 10 of the meeting pack by writing to wdr@aemo.com.au	Complete
11-03-01	WDR industry risk register	WDR CG to review the risk register and provide feedback on any aspect of it by Tue 1 June by writing to wdr@aemo.com.au	No responses received
11-03-02	WDR industry risk register	AEMO to review the risk register and any WDR CG feedback for consideration at the next WDR CG meeting.	To be discussed at this meeting WDR CG #12
11-12-01	Portfolio Management System update and stakeholder feedback session	WDR CG to provide feedback on the Portfolio Management System to wdr@aemo.com.au	No responses received

5MS program update

Ruth Guest

Approach to managing 5MS impacts to WDR

Mar/Apr

Monitor likely 5MS Retail system deployment date

May 2021

If 5MS retail system deployed on 31 May, then it is possible that 24 June PMS release may go ahead as planned.

AEMO will establish an alternative process for assessing baseline eligibility

Jun 2021

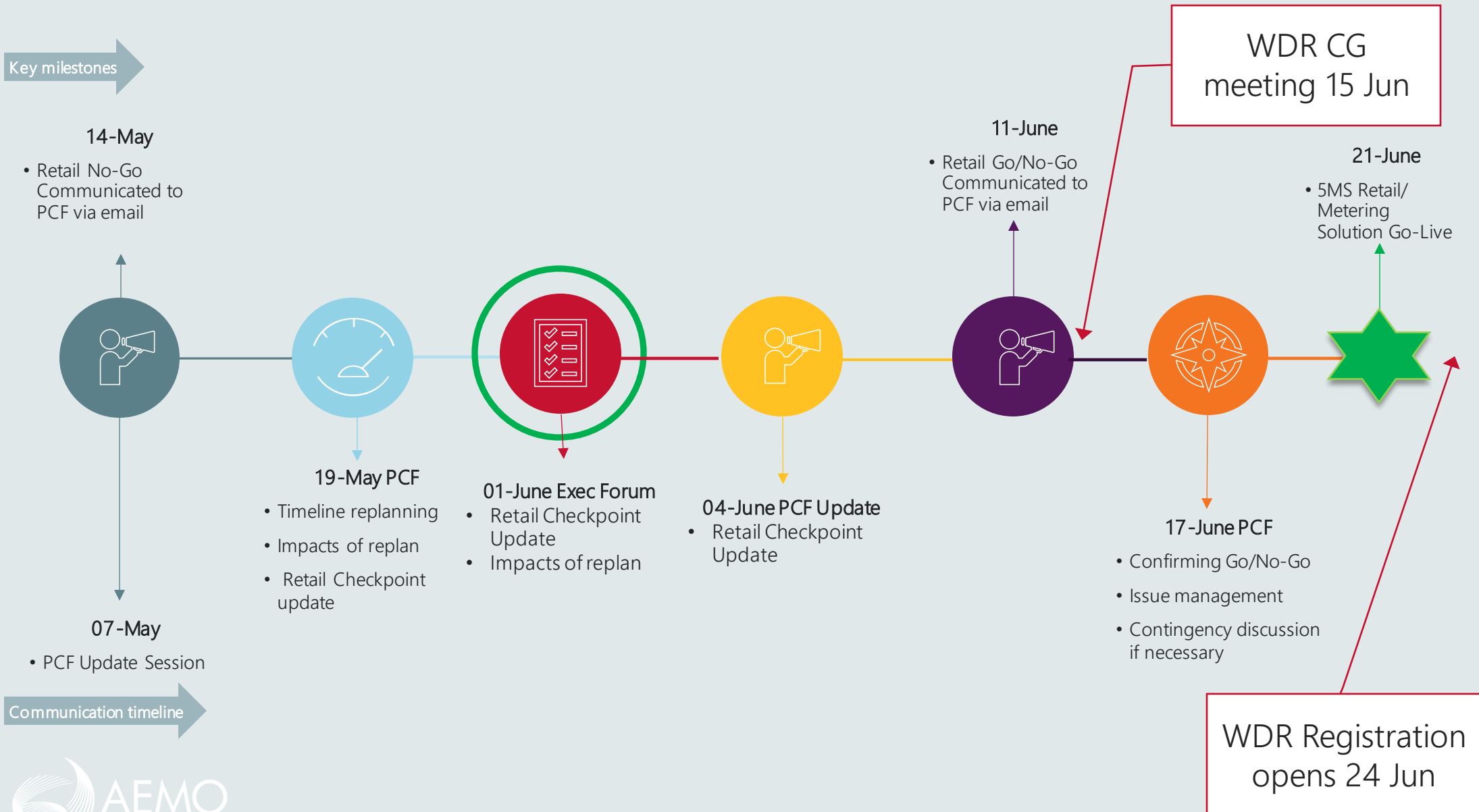
Continue to plan for 24 June PMS go-live as per latest 5MS updates.

AEMO will:

- Publish registration forms and guides as planned
- Revert to WDR CG with alternative plans if 24 June PMS go-live is under duress
- Work to understand DRSP application timing, to ensure any delays minimise impacts.

On track

5MS program approach to Retail Status Updates



Next steps

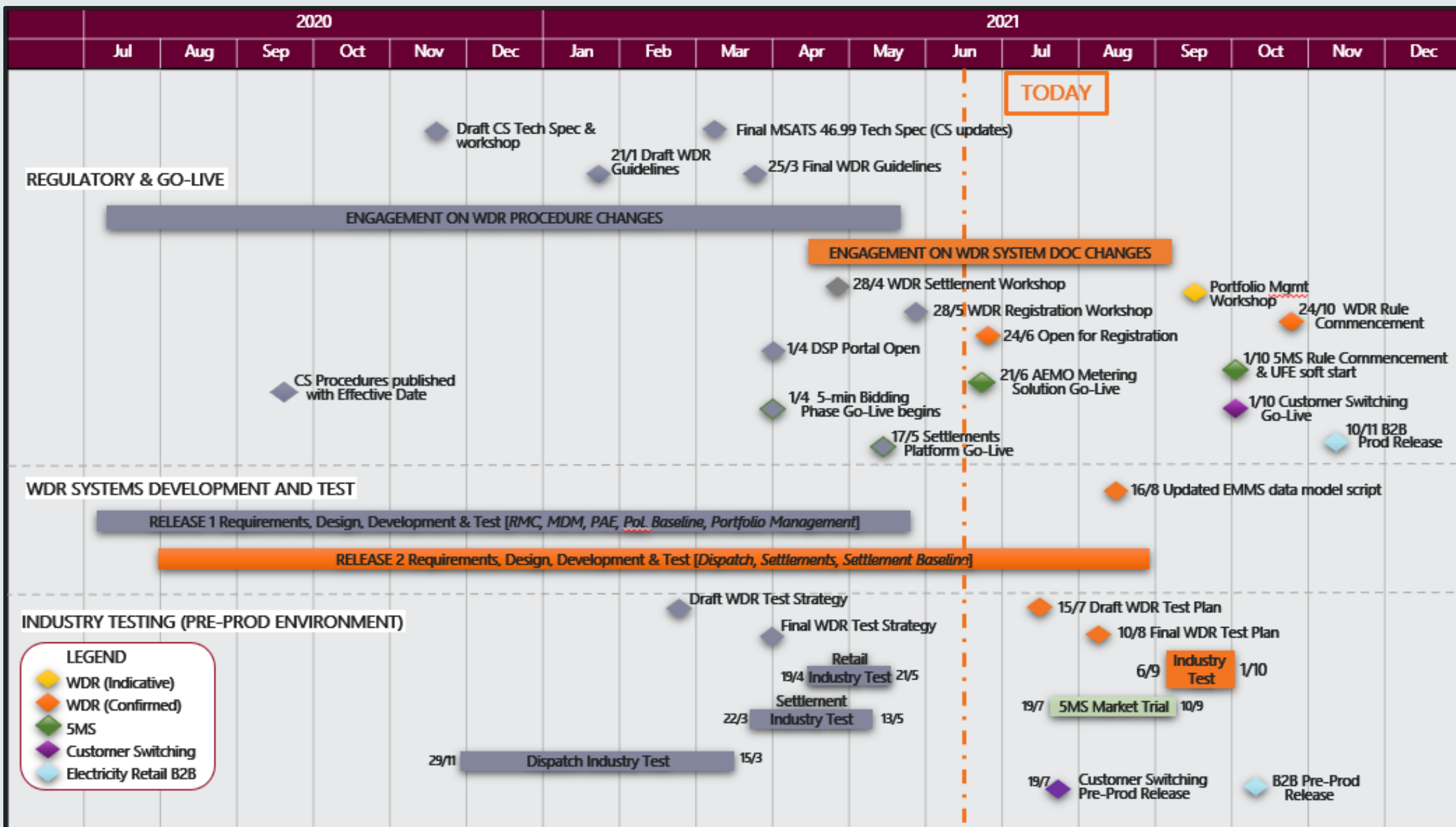
- Go/no-go decision Fri 11 June
 - If 'no-go', AEMO still aiming to meet 1-Oct-21 5MS commencement date by compressing timeline
- WDR CG discussion Tue 15 June
- If needed, 5MS Program Consultative Forum will discuss contingency options on Thu 17 June
- AEMO will debrief the WDR CG on 5MS program direction and any impacts to WDR via email on Thu 17 June
- WDR contingency discussion at this WDR CG #12 meeting

Stakeholder update

Emily Brodie

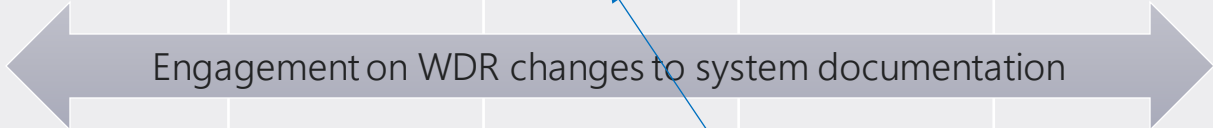
Indicative program schedule

Current as of 9 JUN 21



Looking forward

MONTH:	Mar ✓	Apr ✓	May ✓	Jun	Jul	Aug	Sep	Oct
KEY EVENTS	25 Mar: Final WDR guidelines published	1 Apr: Demand-side participation information portal opens		24 Jun: Open for WDR registration	5MS market trial	5MS market trial	5MS market trial WDR industry testing	1 Oct: 5MS starts 24 Oct: WDR starts
WDR CG	<ul style="list-style-type: none"> Update on MDM release Update on WDR participation guidelines (AER) Update on draft Baseline Eligibility, Compliance and Metrics Policy 	<ul style="list-style-type: none"> Update on Final WDR Industry testing strategy 	<ul style="list-style-type: none"> Update on <i>final</i> Baseline Compliance Eligibility & Metrics Policy 	<ul style="list-style-type: none"> Discussion on <i>draft</i> Industry testing plan 5MS update Q&A on any aspect of WDR 	<ul style="list-style-type: none"> Update on <i>final</i> Industry testing plan 5MS update Update on <i>draft</i> Industry testing plan 	<ul style="list-style-type: none"> 5MS update Update on <i>final</i> Industry testing plan 	<ul style="list-style-type: none"> 5MS update 	<ul style="list-style-type: none"> Final WDR CG (if needed)
OTHER	Q&A on final WDR Guidelines	Workshop: WDR settlement	Workshop: Registration, classification & aggregation		Q&A on registration, classification & aggregation	Q&A on Industry testing	Q&A on Industry testing Workshop: Portfolio management system	



Upcoming WDR engagement

Meeting	Meeting Date
WDR CG #13	Tue 20 Jul 21
WDR CG #14	Tue 17 Aug 21
WDR CG #15	Tue 21 Sep 21

Proposed agenda for July WDR CG meeting:

- Administrative matters
- 5MS update
- WDR Industry test plan update
- MSATS technical specification update
- Debrief on WDR registration opening



Please provide agenda suggestions at any time to WDR@aemo.com.au

WDR industry risk register

Emily Brodie

WDR CG Feedback

- No feedback received this month – AEMO assumes this indicates that the Industry risk register content is suitable (to date)

Industry risk register review – June 2021

Review area	Register ID	Proposed change
Current issues	I1 (R14)	Add new issue: <ul style="list-style-type: none"> WDR Industry Testing Phase impacted by 5MS Market Trial date change/s
“High” or “critical” risks	R 15	See new risks below
New risks	R 14 R 15	Add 2 new risks: <ul style="list-style-type: none"> WDR Industry Testing Phase impacted by 5MS Market Trial date change/s 5MS commencement delayed
Existing risks that have been identified as requiring review	n/a	n/a

Proposed changes

Add 2 new risks:

RISK ID	Risk Name	Category	Risk Description	Likelihood	Consequence	Impact Date	Risk rating	Resolution / Mitigations
R14	WDR Industry Testing Phase impacted by SMS Market Trial date change/s	Testing	If there are delays to the SMS Market Trial, then potential code deployments restrictions in the pre-production environment will have an impact on WDR Industry Testing timelines.	Likely	Minor	6-Sep-21	Medium	Review WDR invitation industry testing strategy (scope and timeline) considering WDR commencement date.
R15	SMS commencement delayed	Market reform	If SMS commencement is delayed, then October WDR commencement will need to be delayed because WDR is settled on a 5-min basis.	Possible	Moderate	1-Oct-21	High	Monitor SMS program implementation and contingency actions so that have earliest indication of a delay. Follow SMS program lead as WDR is dependent on SMS. If SMS program opts for a rule change to delay commencement, then WDR will also need to consider a rule change to delay WDR commencement.

Add 1 new issue:

ISSUE ID	Status	Work Stream	Issue Name	Category	Issue Description	Date raised	Date last updated	Actions
I1	Open	Testing	WDR Industry Testing Phase impacted by SMS Market Trial date change/s	Testing	As a result of delays to the SMS Market Trial, potential code deployments restrictions in the pre-production environment are impacting on WDR Industry Testing timelines.	1-Jun-21		AEMO to consider and recommend an alternative WDR to the WDR CG

WDR contingency plan

Emily Brodie

Context

- Industry discussion is occurring to plan for 5MS contingency events
 - Contingency planning involves defining the actions to be taken if an identified risk event should occur despite having applied risk mitigations. Contingency responses are designed to lessen the impact of the risk once it happens.
- Given the probable knock-on effects from 5MS to WDR, AEMO considers targeted WDR contingency planning is needed.
- A proposed Contingency Plan is linked to the WDR Industry Risk and Issue Register for WDR CG consideration.

Purpose

- In relation to WDR implementation, the WDR contingency plan:
 - Provides coordinated guidance for AEMO and NEM participants on contingency responses should a key industry readiness risk eventuate
 - Is the basis for participants to develop and maintain their own contingency plans.

Proposed industry contingency plan

Identifies the minimum criteria for WDR to commence:

- AEMO must be ready by providing market systems (bidding, metering, settlements) to support WDR.
- Participants do not need to make any changes for WDR to be operational

WDR IN INDUSTRY CONTINGENCY PLAN										MINIMUM CRITERIA FOR WDR:			
Provides coordinated guidance for AEMO and NEM participants on contingency responses should an industry readiness risk eventuate										AEMO must be ready by providing market systems (bidding, metering,			
Is the basis for participants to develop and maintain their own contingency plans													
Contingency ID	Risk ID	Status	Work Stream	Contingency scenario	Category	Contingency scenario description	Likelihood	Consequence	Affected stakeholders	Triggers	Monitoring mechanism	Response	
C1	R7		AEMO readiness	AEMO business and operations not ready for WDR rule commencement on 24 Oct 21	AEMO readiness	Bidding or dispatch not ready	Unlikely	Moderate	DRSP	Lead time required for a rule change (TBC)	Monitor SMS program decisions	Delay WDR commencement: - Rule change if significant time required - AER Letter of No Action if insignificant time required	WDR CG to provi
C2						Baselines or settlement not ready	Unlikely	Moderate	DRSP, FRMP		- Delay or - TO BE CONFIRMED: WDR to go-live with manual settlement until WDR settlement in place	AEMO to investi duration of WDR	
C3						PMS Release 2 not ready	Unlikely	Moderate	DRSP		WDR to go-live with manual assistance on registration changes		
C4						Dispatch compliance not ready	Unlikely	Minor	AEMO, DRSP		WDR to go-live with manual compliance checks		
C5						Demand forecasting not ready, degraded forecasting performance	Unlikely	Moderate	AEMO		WDR to go live with WDR regional thresholds (dispatch constraints) applied to both SCADA and non-SCADA WDR capacity.		
C6	R14	Testing		WDR Industry Testing Phase impacted by SMS Market Trial date change/s	Testing	As a result of delays to the SMS Market Trial, code deployment restrictions in the pre-production environment prevent WDR Industry Testing before WDR commencement on 24 Oct.	Almost Certain	Minor	AEMO, DRSP, FRMP	SMS program changes the SMS Market Trial dates	Regular SMS/WDR program meetings (within AEMO)	Optional Industry testing delayed until after WDR go-live. On request and after go-live, AEMO could facilitate test scenarios between participants. AEMO to provide training sessions to participants after WDR go-live.	
C7	R1	AEMO readiness		AEMO business and operations not ready for WDR registration opening on 24 Jun 21		Registration changes, baseline system or PMS not ready	Rare	Moderate	AEMO, DRSP	Registration, baseline and PMS releases behind schedule	Monitor WDR program implementation	Delay registration opening until AEMO is ready to receive applications. Discuss timing and mitigation options with WDR CG.	WDR is current 21)
C8													
C9													

Next steps

- WDR CG to provide feedback on the proposed Contingency Plan by Tue 6 July
- AEMO to:
 - Issue updated Contingency Plan that reflects feedback (where appropriate)
 - Support regular evaluation of Contingency Plan at WDR CG meetings (or out of session when necessary)

WDR program scope changes

Ruth Guest

WDR program scope changes

1. Baseline calculation data
2. Flooring negative settlement
3. Predictability of Load calculator

De-scoping baseline calculation data report

- In the WDR settlement workshop, AEMO indicated that it would provide a baseline calculation data report to DRSPs and FRMPs.
- This report provides intermediary calculation data to allow a trading interval (TI) baseline to be reconciled.
- Owing to project constraints, AEMO has had to de-scope this from WDR project delivery.
 - The report data is stored in the baseline system within the retail platform. A solution for delivering the information through the wholesale reporting functionality is no longer in scope.
- Participants are able to elicit the information from first principles.
- AEMO will be able to download a report should a participant have questions about any baseline value.

Determining baseline calculation data from first principles

BASELINE CALCULATION DATA		PRIMARY SOURCE
Settlement ID	References corresponding settlement run	Settlement reconciliation reports
Days excluded from calculation and reason	Dates and reason for exclusion e.g. DR event day	<ul style="list-style-type: none"> • Available to DRSP through PMS. • Not available to FRMP
Historical days included in calculation	Dates and meter data for TIs in historical days	Baseline methodology register
TIs used for the adjustment window calculations	Meter data, per adjustment window TI	NMI meter data reports
TIs in the DR event	<ul style="list-style-type: none"> • Meter data, per TI • Unadjusted baseline, per TI • Uncapped adjustment value, per TI • Adjustment value, per TI • Adjusted baseline value, per TI i.e. Final value used in settlement 	<ul style="list-style-type: none"> • NMI meter data reports • Baseline methodology • Baseline methodology • Baseline methodology • Baseline methodology

Flooring negative settlement

CHANGE

- AEMO is implementing a 'floor' mechanism for 'negative DR' settlement
- Negative DR occurs when the baseline is lower than the consumed energy at the connection point
- DRSP will **pay** the WDRSQ at (RRP-WDRRR)
 - FRMP will **receive** this payment
- WDRM rule requires AEMO to impose a settlement cap that is equivalent to the MRC value in energy:

$$\text{WDRSQ} \leq \text{MRCSQ}$$

- AEMO will also floor WDR negative settlement at the equivalent WDR positive settlement cap:

$$\text{WDRSQ} \geq -\text{MRCSQ}$$

Flooring negative settlement

PURPOSE

- To avoid inappropriate and disproportionate DRSP prudential risk and potential liabilities.

RATIONALE

- A flooring mechanism is consistent with the AEMC's policy in the WDRM determination (Section C.4.2):
 - *The Commission... [considers] maintaining the prospect of negative settlement is important. Retaining negative settlement means DRSPs are exposed to the overs and unders of baseline inaccuracy and the ability of the DRSP to provide demand response relative to a baseline. This should balance the settlement outcomes experienced by DRSPs and retailers.*
- AEMO'S role includes promoting the development and improving the effectiveness of the NEM's operation and administration. In this case, AEMO is doing so by limiting:
 - Negative financial consequences in cases of error/malfeasance
 - Perverse financial outcomes which could arise in the absence of a floor to the negative settlement of demand response being equivalent to the cap on the positive settlement
- Implementation of a floor is very low cost
- Application of the floor is considered to be an unlikely and infrequent occurrence.

Predictability of Load calculator

- Now unable to host the PoL workbook on AEMO's website as it poses an unanticipated security risk.
- Will distribute the tool to participants on request:
 - 1) Participant to contact AEMO's WDR team via web template (6 fields)
 - 2) WDR team sends the tool as an encrypted zip file to the participant
 - 3) WDR team telephones participant and provides zip file password over phone
 - 4) WDR maintains a register of participants with the tool so that updated versions can be forwarded to them
- The web page will contain an explanation of the PoL calculator as well as an "inactive" version of spreadsheet (no code, macros, or functionality) so that participants can visualise what they are requesting.

WDR endorsement process update

Ruth Guest

Update

Context

- WDR guidelines provide for DNSPs to 'endorse' distribution-connected WDR aggregations >5MW at a single TNI
- ENA has been coordinating work on developing a timely and consistent endorsement process for DRSPs to use prior to applying to classify aggregations with AEMO

UPDATE

- ENA expects to have a final draft for public circulation in the coming weeks.

Technical specification update

Armando Estrella

EMMS technical specification

Area of change	Changes in June release	Indicative changes in next release (early-July)
WDR	<ul style="list-style-type: none">• Details about the WDRM PoL Calculate tool.• New chapter, Reports, listing non-Data Model related report changes.• Updates to Data Model tables based on participant feedback.	<ul style="list-style-type: none">• NMI:DUID table details in the Data Model chapter• PMS UI (screenshot and some context info on what participants can do with this portal).
Other	<ul style="list-style-type: none">• Adds NETWORK package updates to Data Model.• Old reports discontinued – added to both Reports chapter and the Data Model section.	<ul style="list-style-type: none">• No further changes anticipated for this release

- Note that updates to the EMMS technical specification occur when:
 - Planned changes are needed e.g. market reform, technology change etc.
 - Development or testing uncovers a necessary change
- Given the rapid pace of change in the NEM, AEMO is considering bundling tech spec changes into monthly releases.

MSATS technical specification

- On track to release to stakeholders for their feedback in mid-June
- One new chapter for WDR, minor changes to allow for DRSP participant role.

General questions

Ruth Guest

WDR contact and information



Mailbox

wdr@aemo.com.au



WDR program information

<https://aemo.com.au/initiatives/trials-and-initiatives/wholesale-demand-response-mechanism>



WDR stakeholder engagement options

<https://aemo.com.au/consultations/industry-forums-and-working-groups/list-of-industry-forums-and-working-groups/wdr>

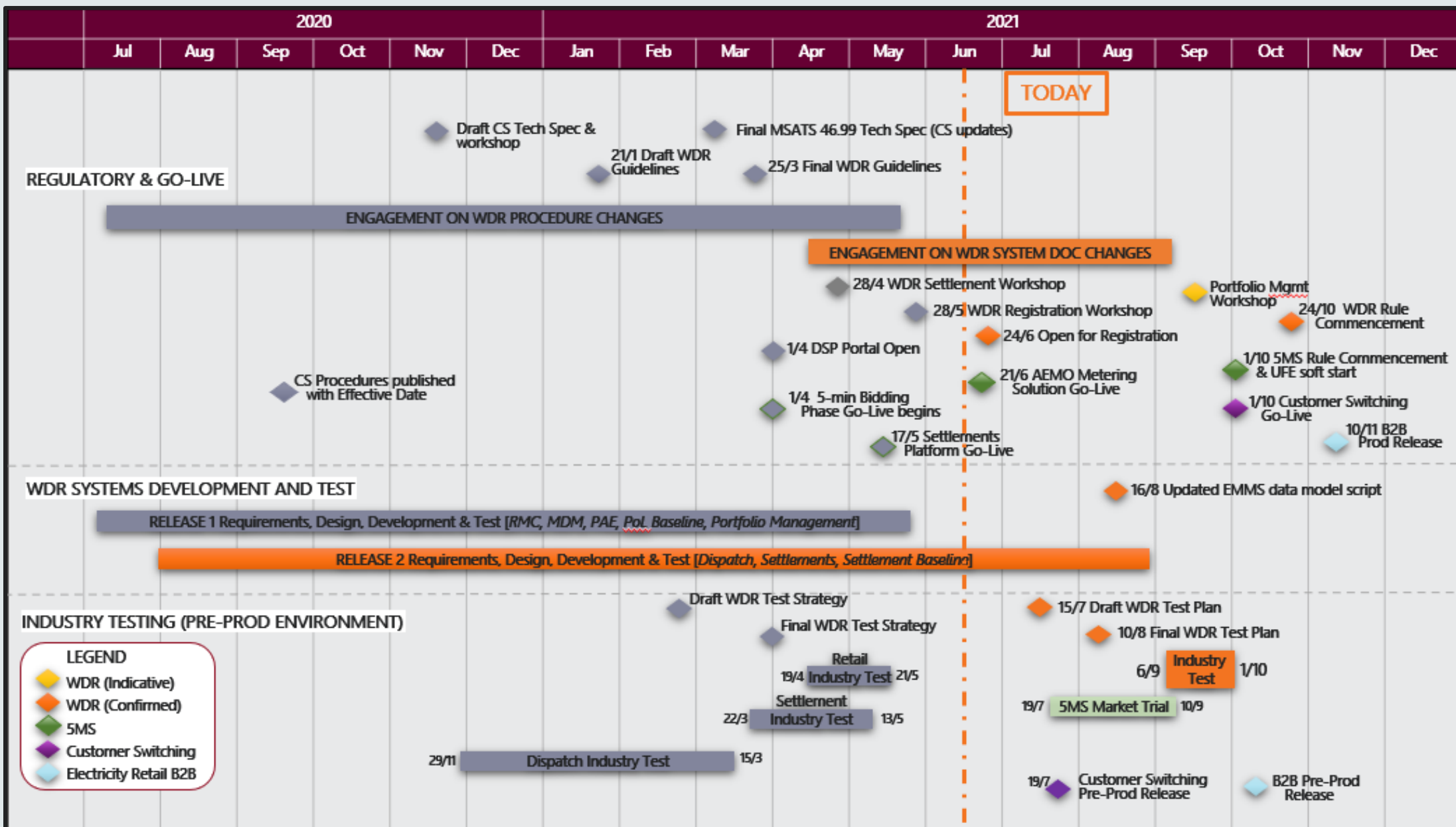
Thank you for your
participation!

APPENDIX A

Indicative program schedule

Indicative program schedule

Current as of 9 Jun 21



APPENDIX B

Project and system document changes

Project and system document change timelines

Current as of 11 MAY 21

Area	Document	Early version released	Comments due	Updated version published
DISPATCH CONFORMANCE	Post-event dispatch conformance policy	01 Apr 2021	22 Apr 2021	25 May 2021
TESTING	WDR Industry test strategy	25 Feb 2021	11 Mar 2021	01 Apr 2021
	WDR Industry test plan	15 Jul 2021	30 Jul 2021	10 Aug 2021
WHOLESALE – EMMS	EMMS technical specification	Apr 2021	mid May 2021	31 May 2021
	Data Interchange (DI) online help	Aug 2021	n/a	Sep 2021
PORTFOLIO MANAGEMENT SYSTEM	Guide to Portfolio Management System (PMS)	mid Aug 2021	late Aug 2021	mid Sep 2021
	Markets Portal online help (PMS updates)	mid Aug 2021	late Aug 2021	mid Sep 2021
RETAIL – MSATS/eMDM	MSATS technical specification	mid Jun 2021	early Jul 2021	mid Jul 2021
	New or updated MSATS/eMDM guides	early Aug 2021	mid Aug 2021	early Sep 2021

EMMS Data Model script: WDR updates



The Electricity Data Model is the definition of the interface to participants for NEM wholesale data published by AEMO. A database conforming to the Electricity Data Model can contain a local copy of all current participant-specific data recorded in the main NEM database.

Detailed information on the packages, tables and reports in the Electricity Data Model are set out in supporting guides:

<https://www.aemo.com.au/energy-systems/market-it-systems/electricity-system-guides/wholesale-it-systems-software>

