

WDR Consultative Group #13

Tuesday 20 July 2021

Microsoft Teams only

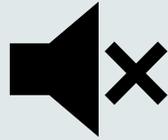
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**PLEASE NOTE THIS MEETING WILL BE RECORDED FOR THE
PURPOSE OF PREPARING MINUTES**

*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	Oliver Derum
3	10:40am – 10:50am	WDR registration release	Ruth Guest
4	10:50am – 11:00am	5MS update	Ruth Guest
5	11:00am – 11:05am	DNSP update	Dor Son Tan (ENA)
6	11:05am – 11:15am	AER – update on WDR participation guidelines	Rhiannon Davies (AER)
7	11:15am – 11:30am	WDR Testing/Industry test plan	Ruth Guest & Priti Zacharopolous
8	11:30am – 11:40am	WDR industry risk register/contingency	Oliver Derum
9	11:40am – 11:45am	Stakeholder update	Oliver Derum
10	11:45am – 11:55am	Refresher on information available on website	Oliver Derum
11	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

Oliver Derum

Responses to WDR CG #12 meeting actions

#	Topic	Action	Response
12.05.01	WDR industry risk register	WDR CG to review the risk register and provide feedback on any aspect of it by Fri 2 July by writing to wdr@aemo.com.au	No responses received
12.05.02	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 #13
12.06.01	WDR Contingency plan	WDR CG to provide feedback on the proposed Contingency Plan via wdr@aemo.com.au by Tue 6 July	One response received. For discussion at item 8.
12.08.01	WDR endorsement process	AEMO to keep the group updated on the WDR endorsement process.	ENA to present to this meeting.

WDR Registration release

Ruth Guest

WDR Release 1 Activity

- All activities implemented against plan and within the regulatory timeframes.
- Registration opened for business 24 June 2021
 - NEW Portfolio management system - functionality to upload, validate, assess and classify NMIs. Internal facing only.
 - Registration manager client changes to accommodate a DRSP and WDR unit
 - MSATS configuration changes to include a new DRSP role in NMI standing data
 - B2B changes to accommodate new DRSP role
 - Registration documentation – application forms, guides, CSV templates published
- ENA guide for DNSP endorsement of aggregations
 - Update from ENA in this meeting

5MS Update

Ruth Guest

5MS update

- 5MS currently expects to meet 1 October 2021 rule commencement date.
- 5MS will likely submit a precautionary rule change request as part of their risk management strategy. A Market Start Notice will be issued no later than 1 September confirming the 5MS rule commencement date. An alternative date will only be advised as a last resort.
- At the most recent Regulatory Implementation Roadmap forum, AEMO proposed 29 November 2021 as a potential alternative 5MS commencement date, should a contingency event occur.
- AEMO is proposing that 29 November rule commencement contingency scenario would include the bundling of 5MS, global settlements (soft start), electricity and gas B2B changes, customer switching and WDR. No changes were proposed to the global settlements hard start or other planned initiatives. Industry feedback is sought on the proposed approach to bundling by 16 July to StakeholderRelations@aemo.com.au

5MS and WDR

- WDR will be adopting the 5MS staging environment to convert to the WDR SIT environment in mid-July
- WDR will need to plan outages in the 5MS staging environment ahead of the 19 July date to prepare the environment for SIT
- Timelines are tight for WDR SIT
 - E2E testing requires a significant amount of interface work
 - PMS – Registration (calling on registration data)
 - PMS – MSATS (sending CRs, calling on MSATS standing data)
 - PMS – Baselines (calling on baseline eligibility, PoL/baseline calculation outcomes)
 - PMS – Settlements (sending DUID:NMI mapping data)
 - Baselines - Settlements (RM49 metering data)
 - Dispatch – Settlements (dispatch events for settlements & baseline runs)
- These timelines need to be met to allow for sufficient industry test time

DNSP update

Dor Son Tan (ENA)

Wholesale Demand Response DNSP Endorsement Process

Informal guideline overview

WDR Consultative Group meeting #13

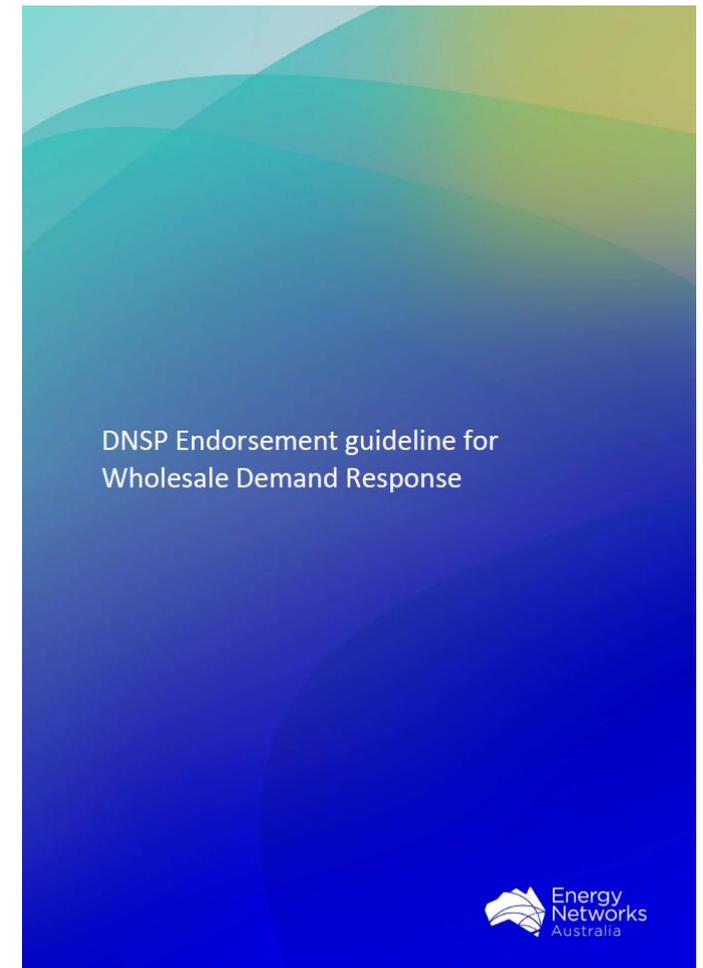
Background & Objective

Background

- » The AEMO Wholesale Demand Response (WDR) Guidelines comes into effect on 24 June 2021
- » The implementation of the Wholesale Demand Response Mechanism (WDRM) begins 24 October 2021
- » It was highlighted that an inconsistent approach to DNSP Endorsement could be a barrier to wider adoption of the WDRM

Objective of the informal guideline

- » The objective of this informal guideline is to provide:
 - A nationally consistent approach for DNSP endorsement process with respect to WDR
 - Alignment with relevant standards, guidelines and industry practice
 - Not a prescriptive guideline



General expectations of parties

Demand Response Service Providers (DRSP)

- » Honest and complete information is shared with the DNSP
- » Provide any other reasonable requests for information that may help with the assessment process
- » Make staff available to discuss the application
- » Notify the DNSP when proceeding directly for aggregation with AEMO

Distribution Network Service Provider (DNSP)

- » Transparency around the application process, forms, applicable fees, contact details and jurisdictional considerations
- » Use best endeavours to finalise it's assessment within the 25 business day timeframe
- » Make staff available to discuss the application
- » Notify the DRSP of the likely outcome of assessment and any conditions that may arise

Process overview



Summary points

- » A large cross section of DNSPs from the NEM have committed to consistency. We also undertook work with an active DRSP and AEMO to review the document.
- » Whilst forms and templates may differ, the DNSPs have agreed to a consistent set of expectations as outlined
- » The process is largely captured as shown in the figure, with greater detail on each section within the document
- » Timeframes are in accordance with the AEMO WDR Guideline document
- » It's expected that things will change as we use the process and learn more, but I think this is a good starting point for the industry

AER update on WDR participation guidelines

Rhiannon Davies and Pip Eastgate (AER)

Industry Testing

Ruth Guest and Priti Zacharopolous

Industry testing (1/2)

- AEMO recognises the importance of industry testing to allow participants to test the new data model, reporting and any customisation they have implemented
- WDR programme is aiming to be in preprod by **Mon 27 Sep 2021**
- Timing is based on assumptions:
 - WDR cannot do code drops into pre-prod during 5MS market trial
 - Risk that 5MS market trial will run late
 - WDR SIT E2E UAT needs to be substantially completed
- Aiming to commence industry testing **Mon 4 Oct 2021**

Industry testing (2/2)

- Due to truncated timelines, the limited number of DRSPs likely to be in pre-prod and confidentiality considerations, the **test strategy** is being updated.
- Primary target is prospective DRSPs, FRMPs and DNSPs:
 - Allow testing of data model changes and new reports
- DRSPs in process of registration will also be able to access and exercise all functionality.
 - With exception of external facing PMS which may not be available until 24 October.
- DRSPs will have ongoing access to pre-prod to test out their bidding capabilities post go live.

Test strategy: proposed updates

AEMO is proposing to:

- Set up a dummy AEMO DRSP in preprod
- Establish multiple DUIDs in RMC
- Aggregate multiple NMIs to each WDRU/DUID in PMS to ensure a cross section of FRMPs and DNSPs
- Provide information on the NMI:DUID mapping ahead of time to the relevant FRMP / DNSPs
- Provide an indicative timeframe of the planned dispatch events, and update as required
- Create several WDR dispatch events in the first week of industry test
- Run a preliminary settlement in the second week of industry test to capture the main processes
- Liaise directly with at least one DRSP, FRMP and DNSP to ensure data is delivered and reported as expected
- Prospective DRSPs may undertake their own industry testing at any time, e.g. schedule dispatch events as they require.

DISCUSSION: What else will be useful to test in pre-prod ahead of 24 Oct 21 go-live, noting timeframes will be limited?



Industry Testing: Next steps

- Updated test strategy will be published for review by 31st of July with a view to publishing a final version by 15th of August
- FRMPs and DNSPs taking part in industry test to be identified by 30th of August
- Test data sets and Test workbook to be developed and distributed by mid-September
 - WDR will follow the same framework as 5MS and use the Test Workbook to record details about the scenarios and data. Hence a separate Test Plan will not be required.
- AEMO to update the industry through the WDR CG on timelines for industry test planning
- AEMO to review how best to manage demands of industry test and potential remediation work in pre-production

Please update AEMO on your interest in formally working with AEMO during the industry test period to validate the data model and reporting functionalities.

Email: WDR@AEMO.com.au

WDR industry risk register

Oliver Derum

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 – July 2021

The following changes are proposed to industry risks

Risk ID	Risk Name	Proposed change
R1	AEMO business and operations not ready for WDR registration opening on 24 June 21	Close – registration has been successfully opened by AEMO
R7	AEMO business and operations not ready for WDR rule commencement on 24 Oct 21	Add additional mitigation: Prioritise and sequence delivery of PMS functionality, which may mean external facing aspects are delayed beyond go live. Business work around to ensure no impact on classification requests.
R14	WDR Industry Testing Phase impacted by 5MS Market Trial date extension or issues with the Pre-Production environment	Open
R15	5MS commencement delayed	Open

Industry contingency review – July 2021

The following changes are proposed to contingencies

Cont ID	Risk ID	Contingency scenario	Proposed change
C6	R14	WDR Industry Testing Phase impacted by 5MS Market Trial date change/s	Open
C7	R1	AEMO business and operations not ready for WDR registration opening on 24 Jun 21	Close

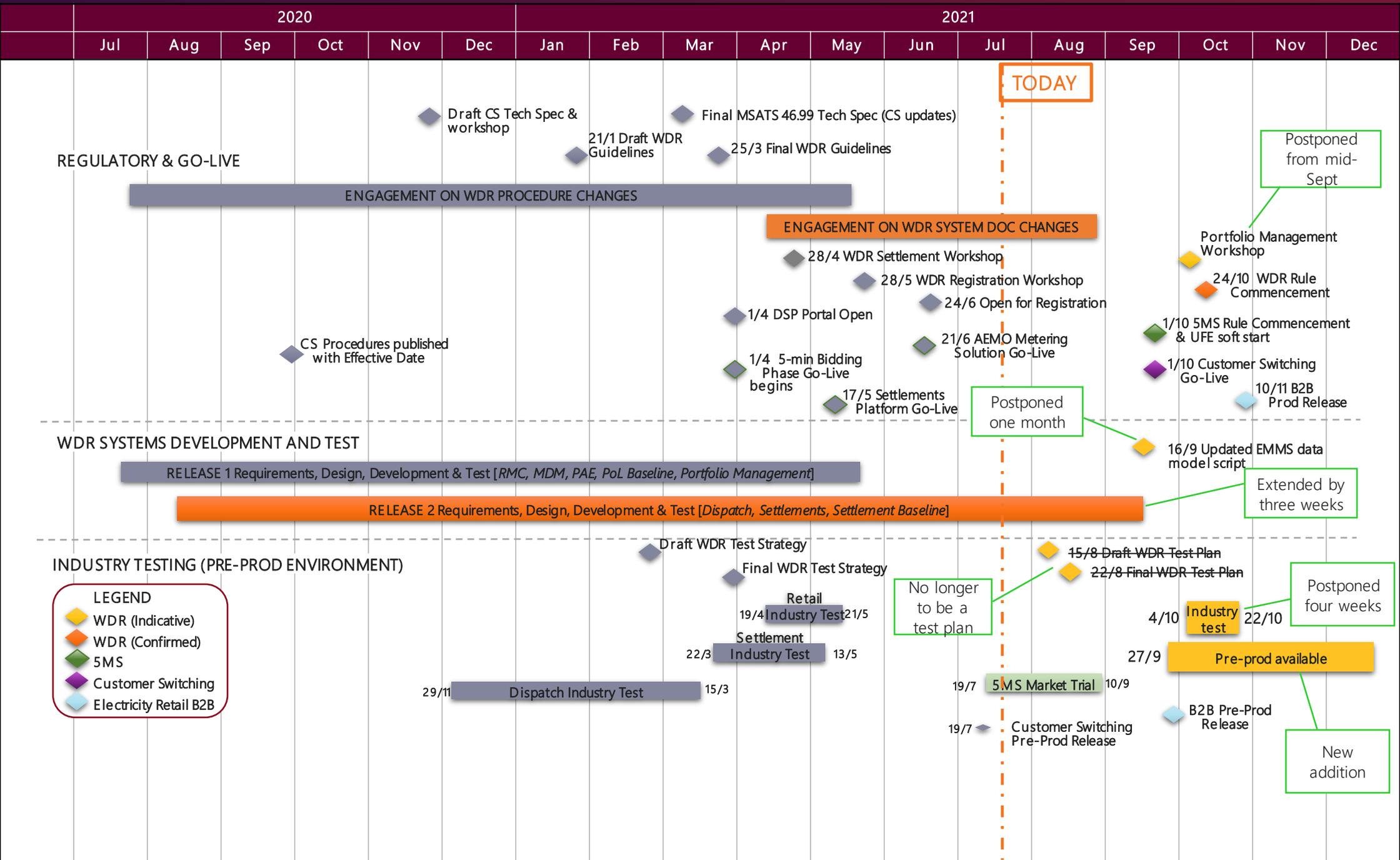
There are no proposed changes to issues.

Stakeholder update

Oliver Derum

Indicative program schedule

Current as of 14 JUL 21



MSATS technical specification

- One respondent provided feedback on the draft WDR changes to the MSATS **tech spec** – mainly clarifications
- Updated MSATS tech spec will be released on Fri 23 July. You will be notified via:
 - Email direct to WDR stakeholders
 - AEMO support hub bulletin (if registered to receive these)
- Website updates are currently delayed – the updated tech spec will be published on the web the following week
- New or updated MSATS/eMDM **guides** are being developed and draft versions are on track to be released for WDR CG feedback mid-August.

Upcoming WDR engagement

Meeting	Meeting Date
WDR CG #14	Tue 17 Aug 21
WDR CG #15	Tue 21 Sep21
PMS workshop	Sept (TBC)
WDR CG #16	Tue 19 Oct 21

Proposed agenda for August WDR CG meeting:

- 5MS market trial and customer switching industry testing
- Risks/issues/contingency
- 5MS update
- EMMS Data model script
- Should the August meeting proceed?

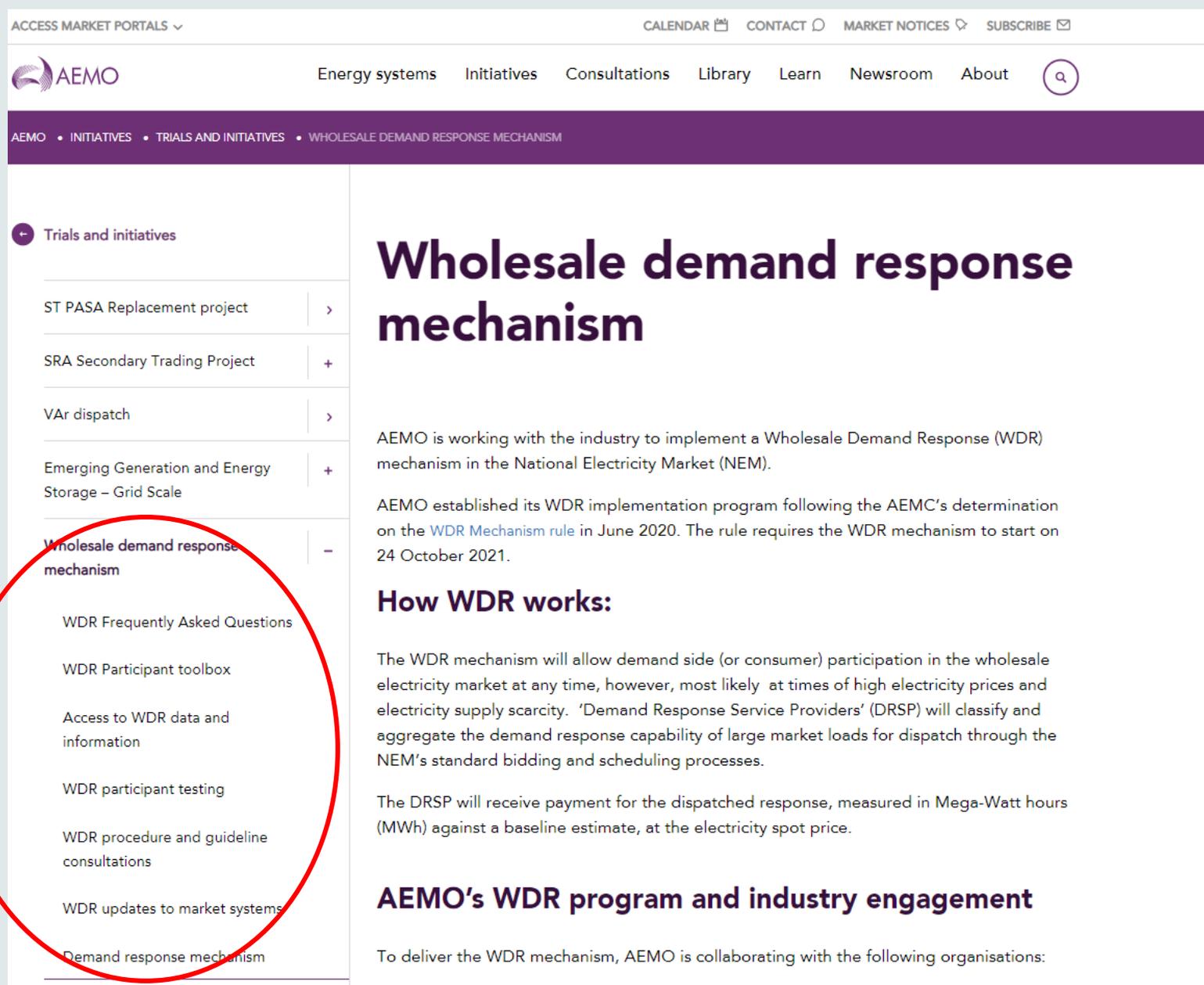


Please provide agenda suggestions at any time to WDR@aemo.com.au

Refresher on website content

Oliver Derum

Web material



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AEMO • INITIATIVES • TRIALS AND INITIATIVES • WHOLESALE DEMAND RESPONSE MECHANISM

Trials and initiatives

- ST PASA Replacement project >
- SRA Secondary Trading Project +
- VAr dispatch >
- Emerging Generation and Energy Storage – Grid Scale +
- Wholesale demand response mechanism -**

- WDR Frequently Asked Questions
- WDR Participant toolbox
- Access to WDR data and information
- WDR participant testing
- WDR procedure and guideline consultations
- WDR updates to market systems
- Demand response mechanism

Wholesale demand response mechanism

AEMO is working with the industry to implement a Wholesale Demand Response (WDR) mechanism in the National Electricity Market (NEM).

AEMO established its WDR implementation program following the AEMC’s determination on the [WDR Mechanism rule](#) in June 2020. The rule requires the WDR mechanism to start on 24 October 2021.

How WDR works:

The WDR mechanism will allow demand side (or consumer) participation in the wholesale electricity market at any time, however, most likely at times of high electricity prices and electricity supply scarcity. ‘Demand Response Service Providers’ (DRSP) will classify and aggregate the demand response capability of large market loads for dispatch through the NEM’s standard bidding and scheduling processes.

The DRSP will receive payment for the dispatched response, measured in Mega-Watt hours (MWh) against a baseline estimate, at the electricity spot price.

AEMO’s WDR program and industry engagement

To deliver the WDR mechanism, AEMO is collaborating with the following organisations:

WDR Frequently Asked Questions

General

What is Wholesale Demand Response (WDR)? [↻](#)

How does WDR compare to other demand response options? [↻](#)

How is AEMO's WDR implementation affected by the National Electricity Rules? [↻](#)

Demand Response Service Provider (DRSP)

What is a demand response service provider (DRSP)? [↻](#)

Wholesale Demand Response Unit (WDRU)

How is a WDRU different from being a scheduled load? [↻](#)

What is the maximum responsive component (MRC)? [↻](#)

What WDRU information can I see and in what timeframes? [↻](#)

Is direct metering of WDRU possible? For example, for a battery or air conditioning system? [↻](#)

Miscellaneous

What changes are being made to AEMO's retail systems? [↻](#)

Why does my site need telemetry when AEMO doesn't currently see my changes in demand? [↻](#)

How does my network connection agreement relate to WDR? [↻](#)

Can I make a late submission to a WDR consultation or provide feedback after its due? [↻](#)

There is too much jargon! Help? [↻](#)

Exploring participant toolbox

WDR Participant toolbox

This section assists market participants in identifying the high-level activities they need to undertake to implement WDR. It also leads to the key information needed to make the relevant changes.

Demand response service provider



Retailers



Distribution network service providers



Interrelationship of WDR and FCAS



WDRM Predictability of Load (PoL) Calculator



 **DISCUSSION:** What else will be useful to be included on the website? Mail your suggestions to wdr@aemo.com.au or bring it up during this meeting.

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>

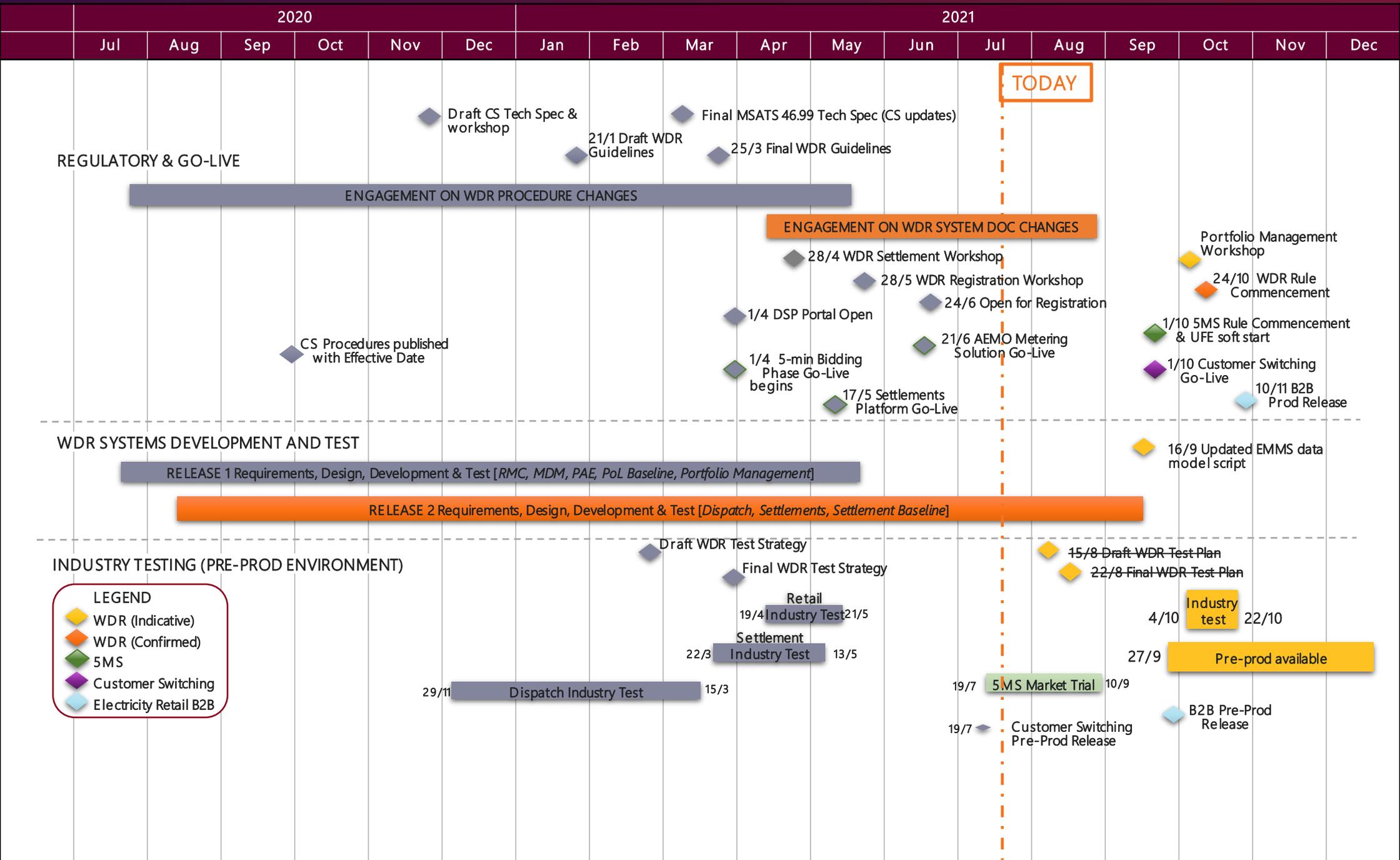
Thank you for your
participation!

APPENDIX A

Indicative program schedule

Indicative program schedule

Current as of 14 JUL 21



LEGEND

- ◆ WDR (Indicative)
- ◆ WDR (Confirmed)
- ◆ 5MS
- ◆ Customer Switching
- ◆ Electricity Retail B2B

APPENDIX B

Project and system document changes

Project and system document change timelines

Current as of 12 JULY 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>

