

WDR Consultative Group #06

Tuesday 17 November 2020

WebEx only

Please disconnect from your workplace VPN for WebEx call

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

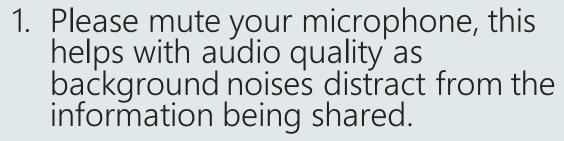
We acknowledge the Traditional Owners of country throughout Australia and recognise their continuing connection to land, waters and culture.

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



Online forum housekeeping







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**:

- 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.



Agenda

10:00am - 10:05am

10:05am - 10:10am

10:10am - 10:20am

12:25pm - 12:30pm

Indicative program schedule

Procedure change timelines and consultation update

Project and system document change timelines

NO

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9

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APPENDICES

TIME (AEDT)

Welcome

4	10:20am – 10:50am	Introduction to the Portfolio Management System	Kevin Gupta				
5	10:50am – 11:10am	Approach to market testing	Priti Zacharopoulos				
6	11:10am – 11:20am	Engagement on systems documentation	Armando Estrella				
	BREAK 11:20am – 11:30am						
7	11:30am – 12:20pm	 WDR Compliance: AER compliance overview Post-event dispatch compliance Baseline eligibility and compliance 	Rhiannon Davies (AER)Madison Pigliardo (AEMO)Katalin Foran (AEMO)				
8	12:20pm – 12:25pm	Stakeholder engagement and forward meeting plan	Emily Brodie				

AGENDAITEM

Notes, actions and feedback from previous meeting

Introduction to WDR settlement reports

General questions and close

RESPONSIBLE

Emily Brodie (Chair)

Emily Brodie

Christine Kang

Emily Brodie

Notes, actions and feedback from previous meeting

Emily Brodie



Responses to WDR CG #5 meeting actions

#	Topic	Action	Response
05.04.01	5MS/WDR concurrent implementation	WDR CG to provide feedback on the proposed concurrent implementation of 5MS and WDR, particularly where there are any concerns or identified gaps.	No feedback received.
05.04.02	5MS/WDR concurrent implementation	AEMO to follow up on the extent to which the 5MS and WDR schedules have been stress tested.	Five minute settlement schedule The 5MS/global settlement (GS) schedule was agreed in discussion with industry and is also the subject of a detailed risk register, a contingency plan and regular readiness reporting. This is a reflection of 5MS and GS being mandatory and highly complex reforms. WDR schedule The WDR timeline is still being finalised. The indicative WDR schedule considers: WDR regulatory requirements/dates MDR regulatory requirements/dates MDR release approach, AEMO has: Conducted an impact assessment Implemented standard project management controls for the release approach e.g. internal risk register. These

Responses to WDR CG #5 meeting actions

#	Topic	Action	Response
05.05.01	Technical working group	WDR CG to suggest any other topics or issues for discussion at the next TWG to inform their submissions to the Issues Paper.	No feedback received.
05.05.02	Technical working group	AEMO to confirm the date of the next TWG (mid-November)	Indicatively Monday 23 November
05.06.01	Forward meeting plan	WDR CG to provide any further other factors/issues that should be considered for planning the WDR CG 2021 meetings.	No feedback received.
05.06.02	Forward meeting plan	AEMO to present on industry testing and post-event dispatch compliance at the November WDR CG meeting.	Both topics are being presented at this meeting (WDR CG #6)



Introduction to WDR settlement reports

Christine Kang
Team Lead – NEM Settlements



WDR settlement reports

- 1. Settlement invoice
- 2. Settlement report (SR)
- 3. WDR NMI report **new**



1. Settlement Invoice

Description NNN,NNN,NNN Energy **Ancillary Services** NNN.NNN.NNN.NNN Settlement Residue Auction NNN.NNN.NNN.NNN Wholesale Demand Response NN.NNN,NNN.NN Market Fees TNSP Residue NN.NNN.NNN.NNN Smelter-Reduction NNN.NNN.NNN.NNN Security Deposits NNN,NNN,NNN.NN Reallocation NNN,NNN,NNN NN.NNN.NNN.NN Revision Adjustment Revision Interest NNN,NNN,NNN NNN,NNN,NNN Early Payment Interest NNN.NNN.NNN Other GST NNN,NNN,NNN NNN.NNN.NNN.NNN Reassignment Total NNN,NNN,NNN.NN

- **Trigger**: When prelim/final/revision 1/revision 2 are published and WDR activities were identified in that billing week
- Delivery method: Unchanged, via Settlements Direct portal



2. Settlement Report

Region	Quarter	DRSP	FRMP	WDR	WDR	WDR
10438	. 100			Reimbursement Rate (WDRRR)	Settlement Quantity (WDRSQ)	Trading Amount (\$
NNN1	N	NNNNNN	NNNNNN	\$xx.xx	XX.XX	\$xx,xxx.xx
NNN1	N	NNNNNN	NNNNNN	\$XX.XX	XX.XX	\$XX,XXX.XX

- **Trigger**: When prelim/final/revision 1/revision 2 are published and WDR activities were identified in that billing week
- Delivery method: Unchanged, via Settlements Direct portal



3. WDR NMI report

- New report with NMI and other variables used for settlement reconciliation
- WDR settlement equations are stipulated in the NER 3.15.6B
- **Trigger**: When prelim/final/revision 1/revision 2 are published and WDR activities were identified in that billing week
- Delivery method: Same as SR, via Settlements Direct portal



WDR NMI report parameters

- Settlement date
- TI Trading Interval
- Region
- TNI Transmission Node Identifier
- NMI National Metering Identifier
- DRSP PID Demand Response Service Provider Participant ID
- FRMP PID Financially Responsible Market Participant ID
- MRC Maximum Responsive Component (MW)
- MRCSQ Maximum Responsive Component Settlement Quantity (MWh)
- UWDRSQ Uncapped Wholesale Demand Response Settlement Quantity (MWh)

- CWDRSQ Capped Wholesale Demand Response Settlement Quantity (MWh)
- ME*DLF Metered Energy * Distribution Loss Factor (MWh)
- BSQ*DLF Baseline Settlement Quantity * DLF (MWh)
- RRP TLF Regional Reference Price Transmission Loss Factor
- RRP (\$ / MWh)
- WDRRR (\$ / MWh) Wholesale Demand Regional Reimbursement Rate
- WDRTA (\$) WDR Trading Amount
- Publication date time



Next steps

- Please provide any initial feedback on these three reports by COB 27 November 2020 to help in the design process
- AEMO will advise if there are any major changes to its approach
- Email: wdr@aemo.com.au



Introduction to the Portfolio management system

Kevin Gupta



Portfolio management system: Functionality

Participants will use the Portfolio Management system to:

- 1. View your portfolio of WDRUs & ASLs
- 2. Submit new application requests for AEMO's approval such as:
 - a) Classify new NMIs
 - b) Declassify existing NMIs
 - c) Aggregate
 - d) Disaggregate
 - e) Update baseline methodologies and parameters
 - f) Suspend NMIs or request to reinstate from suspension
- 3. Continue your application(s) from draft
- 4. View the status of your submitted requests
- 5. Request to withdraw your submitted requests
- 6. Self-assess your baselines associated to a NMI or by a Portfolio



Portfolio management system: Proposed timeline

Mid Nov 2020

Introduction to PMS at WDR CG



External stakeholders to provide feedback

Sep/Oct 2021

Information session on how to use portal

External-facing PM portal opens











Late Nov 2020

Detailed PMS walkthrough with participants (if stakeholders are interested)

Jun/Jul 2021

Internal-facing
PMS ready to
receive registration
applications



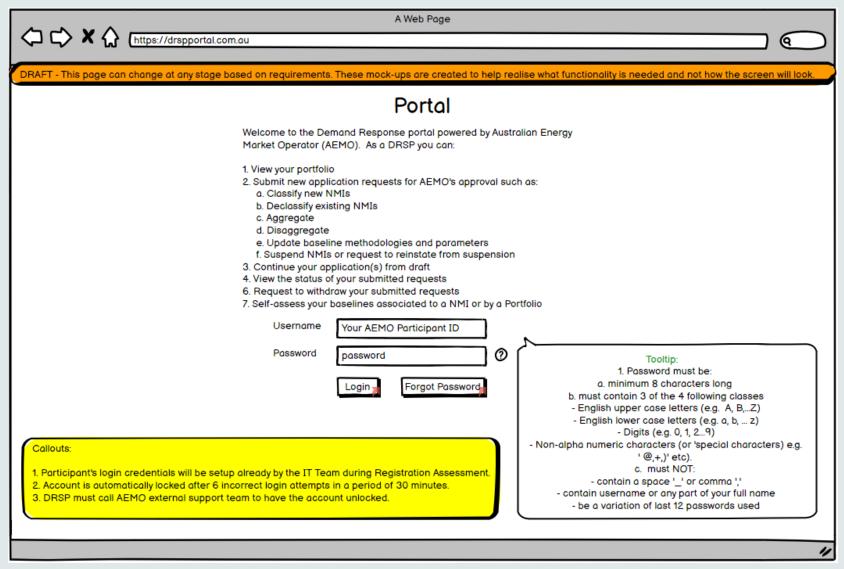
PMS mock-up screens

- Mock-ups disclaimer:
 - All mock-ups are draft and are subject to change at any stage based on requirements
 - These mock-ups are created to visualise the functionalities needed and not how the final screens will look
 - Final screens will evolve incrementally as development progresses
- AEMO is seeking <u>early feedback</u> from participants on mock-up screens.
 This is to allow feedback to be discussed and, where appropriate, catered for in timelines, requirements and design.



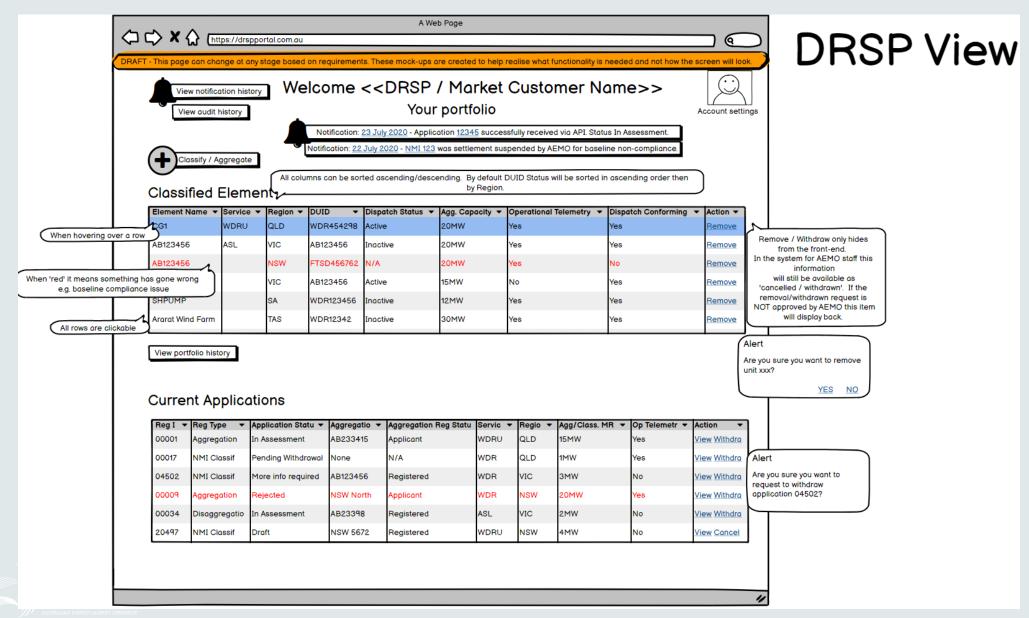
PMS mock-up screens: Login page

Current as of 01 Nov 20

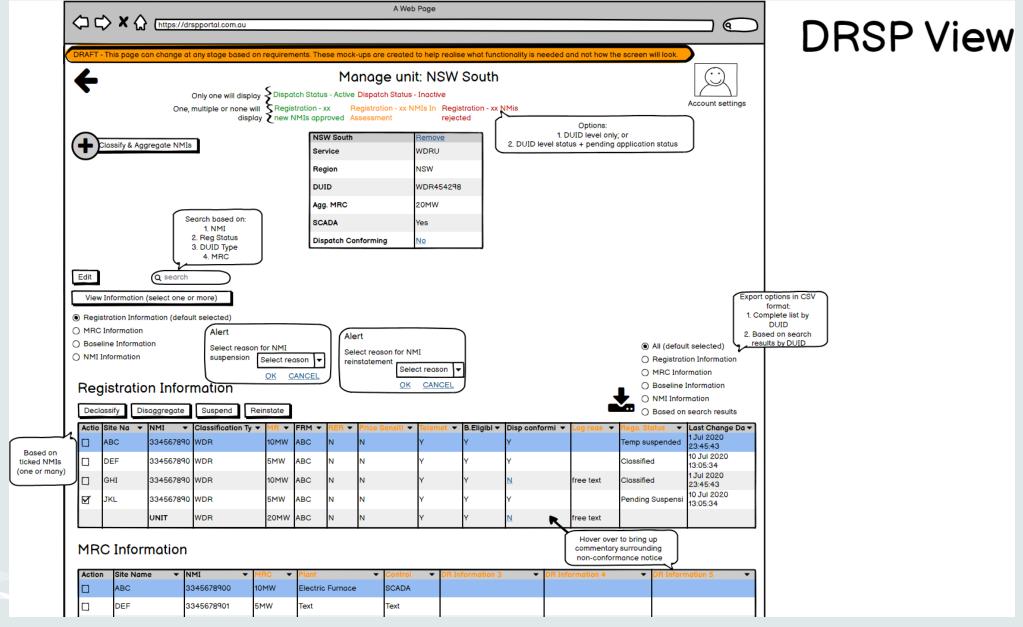




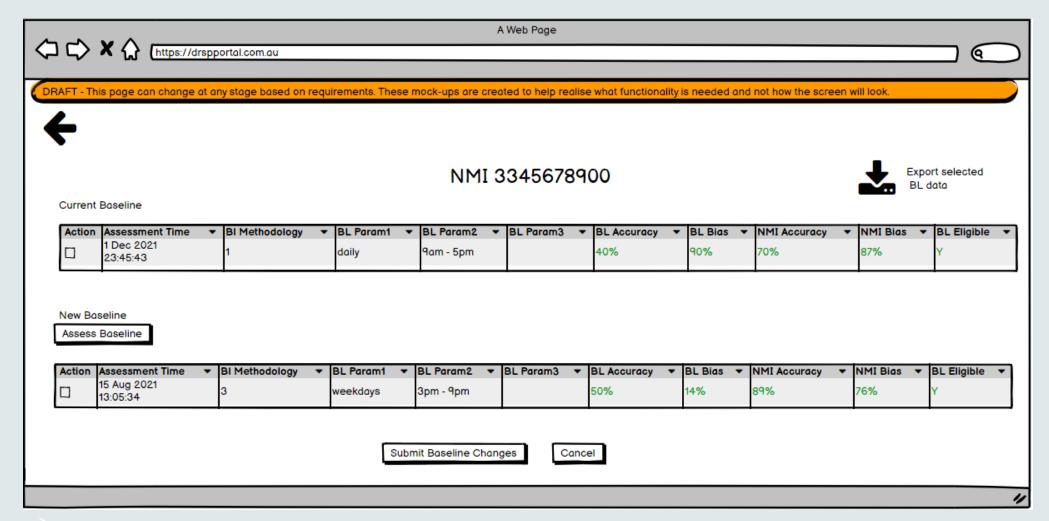
DRSP landing page



DRSP aggregation view

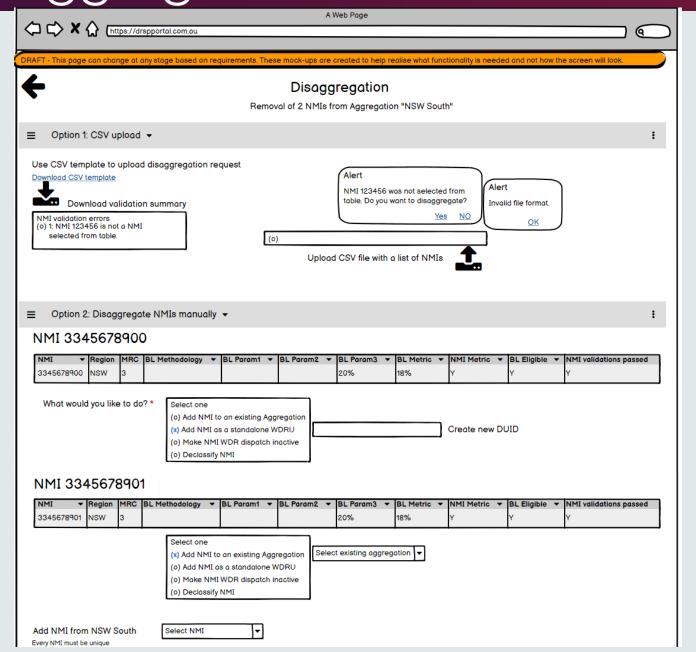


DRSP baseline view





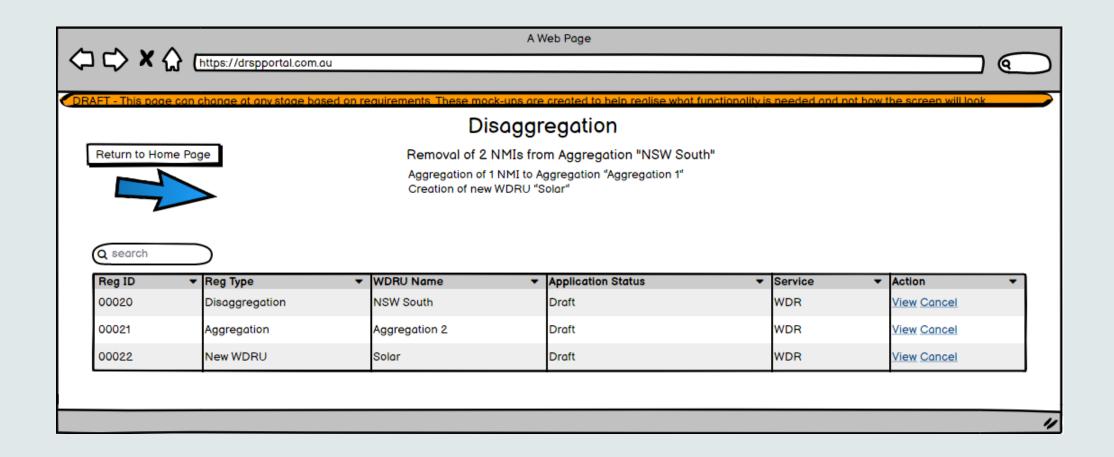
DRSP disaggregation function **Current as of 01 Nov 20**





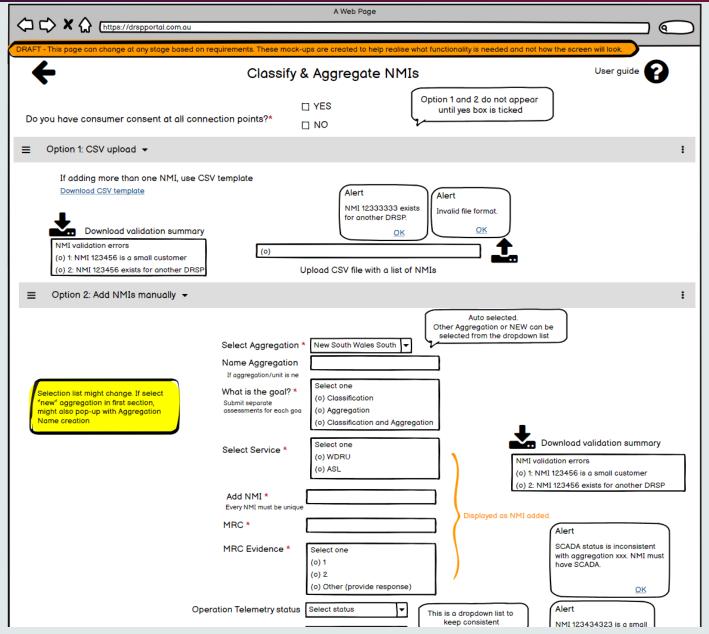
DRSP disaggregation view

Current as of 01 Nov 20





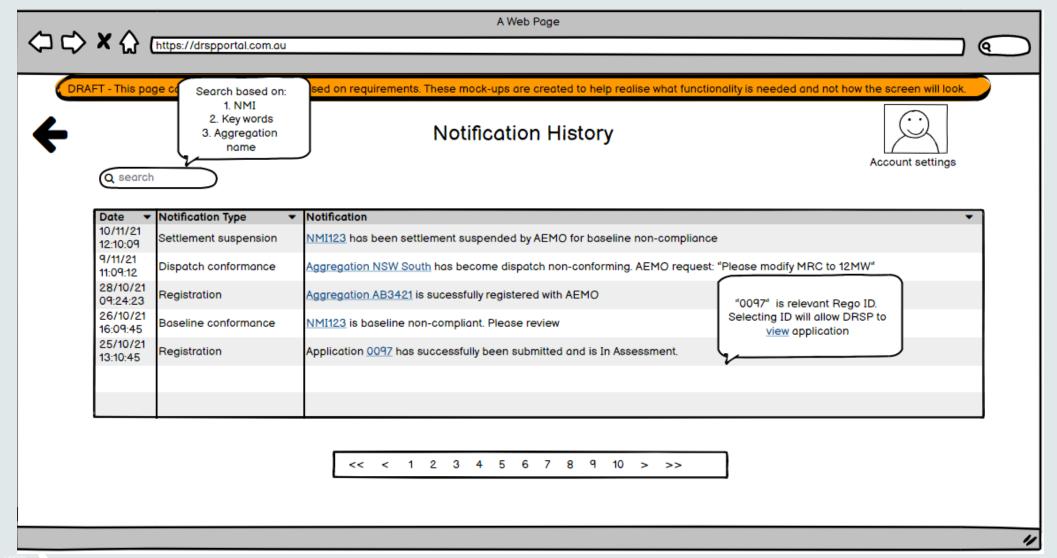
DRSP classify and aggregate function (subsequent applications)





DRSP portfolio notification history view

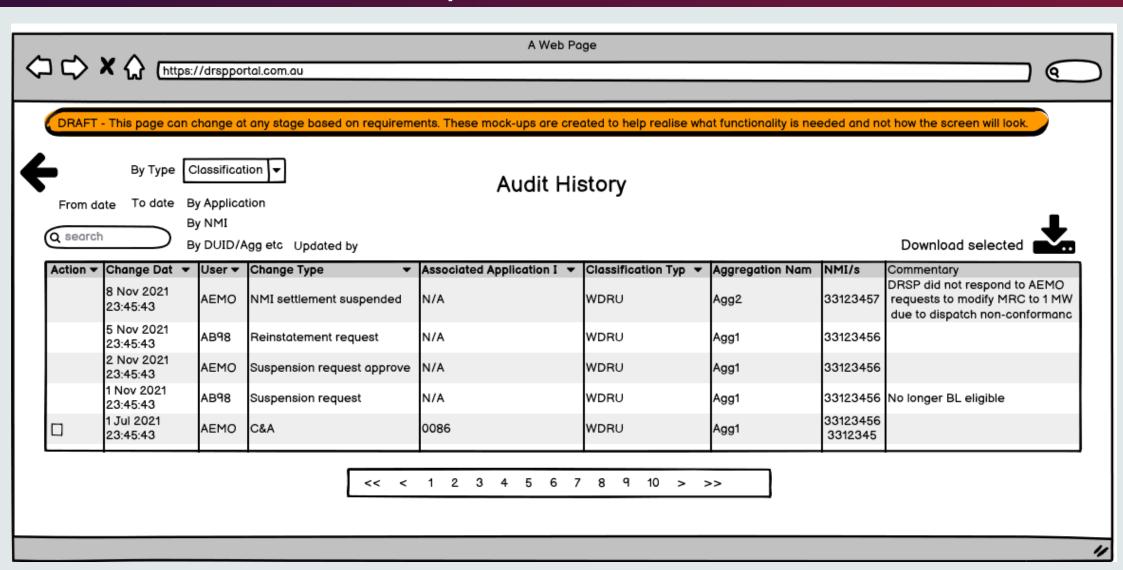
Current as of 01 Nov 20





DRSP audit history view

Current as of 01 Nov 20





Portfolio management system: Next steps

- By COB Fri 20 Nov: If interested, please nominate people from your organisation to attend the detailed PMS walkthrough via wdr@aemo.com.au
 - Suitable nominees will have experience in using AEMO's systems or systems similar to the Portfolio management system described.
 - Note: This meeting is to receive information from participants and not all feedback provided may be implemented due to time and effort restrictions.
- Thu 26 Nov (TBC): Detailed Portfolio Management System walkthrough and questionnaire with participants.
- Tue 15 Dec: Please provide feedback on Portfolio Management process or mock-up screens to wdr@aemo.com.au



Approach to market testing

Priti Zacharopoulos WDR Test Manager



WDR testing: Objectives

- To validate whether the updates made to participants' market interfacing systems and AEMO's market systems comply with the relevant WDR rule and procedural arrangements
- To ensure WDR end-to-end processes implemented by AEMO meet requirements
- To ensure that there are no defects introduced from WDR changes (via regression testing).



Definitions: Types of market testing

MARKET TESTING

Industry testing

- Self-testing of functionality such as connectivity, and/or coordinated multiparty testing of functional scenarios
- Status quo

Invitation industry testing

 Coordinated testing of business process scenarios with a select number or subset of participants with systems ready for testing.

Market trial

 Coordinated multi-party endto-end testing of business process scenarios

Increasing coordination and complexity



Proposed WDR testing: Considerations

In proposing the appropriate test type for WDR, AEMO considered:

- The ability to meet WDR testing objectives
- Affected participant types:
 - DRSPs that choose to participate (either from the commencement date or a later time)
 - Retailers (FRMPs) that are required to fund WDR at their NMIs, noting that WDR only applies to large electricity customers
 - Distributors
 - Market Ancillary Service Providers.
- Necessary testing scope/coverage
- Regulatory and project timeframes
- Proximity of 5MS/GS and "customer switching" implementations:
 - WDR implementation has been consciously planned to dovetail with 5MS implementation where feasible
 - AEMO assessed options for combining 5MS and WDR development and test activities, but this was not possible (see <u>WDR CG #5 discussion</u>). In order to meet WDR regulatory timeframes, participants will need to complete WDR Testing after the 5MS Market Trial.
- Resourcing (internal and external).

Proposed WDR testing type: Industry testing by invitation

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		Pros		Cons		Recommendation
Market trial	•	Would meet the proposed WDR test objectives through an end-to-end trial involving all market participants – thoroughly tests all aspects, including regression.	•	Time consuming and resource intensive Involves all market participants type irrespective of whether they are affected by WDR (WDR is not a mandatory change).	•	Not recommended
Invitation industry testing	•	Would meet the proposed WDR test objectives by testing end-to-end business scenarios with a select group of affected participants Those unaffected by the change do not need to participate Less time consuming and resource intensive than market trials.	•	Not covering every regression scenario Requires a level of coordination.	•	RECOMMENDED
Industry testing	•	Minimal coordination required Participants can run tests at their discretion.	•	Potentially would not meet WDR test objectives as possible insufficient test coverage in	•	Will occur at participants' discretion

AEMO's pre-prod environment.

Proposed WDR testing approach

Element	Description				
Timing	September 2021 (ahead of 24 October go-live)				
Eligibility	 Participants can take part in industry testing: If they have been registered as a DRSP, <u>and</u> Once their systems are ready and connected to AEMO's pre-production environment. 				
Environment	AEMO pre-production				
Testing types	Invitation industry testing and industry testing				
Test cases	Participants will be supplied with documentation which will enable them to create their own test cases. Guidance can be provided by the AEMO test team.				
Test and defect management tool	PractiTest: Participants will be given the required level of access to this tool which has a web interface.				
Non-functional testing	Non-functional testing (e.g. performance, security) will be done by AEMO before market testing starts				



Proposed test scope

Participant type	Test Coverage
Demand Response Service Providers – new!	 Functional test scenarios: Registration Classification/Aggregation De-registration Trigger Baseline methodology calculations Exercise Portfolio Management functionality/features Bidding Dispatch Settlements Receive reports Receive invoices
Retailers	Send/receive reportsNMI Discovery
Distribution Network Service Providers	 Receive and process standing data updates with new participant category (DRSP)
Market Ancillary Service Providers who become DRSPs	Exercise Portfolio Management functionality/features



Proposed WDR Industry testing: Detailed timeline

Nov 2020

Discuss with and seek early feedback from WDR CG Mar 2021

WDR CG feedback AEMO finalises WDR Test Late Jun 2021

Publish
draft WDR
Test Plan
for
comment

Late Jul 2021

AEMO finalises WDR Test Plan 24 Oct 2021

WDR golive







Strategy













Feb 2021

Publish
draft WDR
Test
Strategy
for
comment

Dec 2020 to Aug 2021

AEMO internal and non-functional testing

Mid July 2021

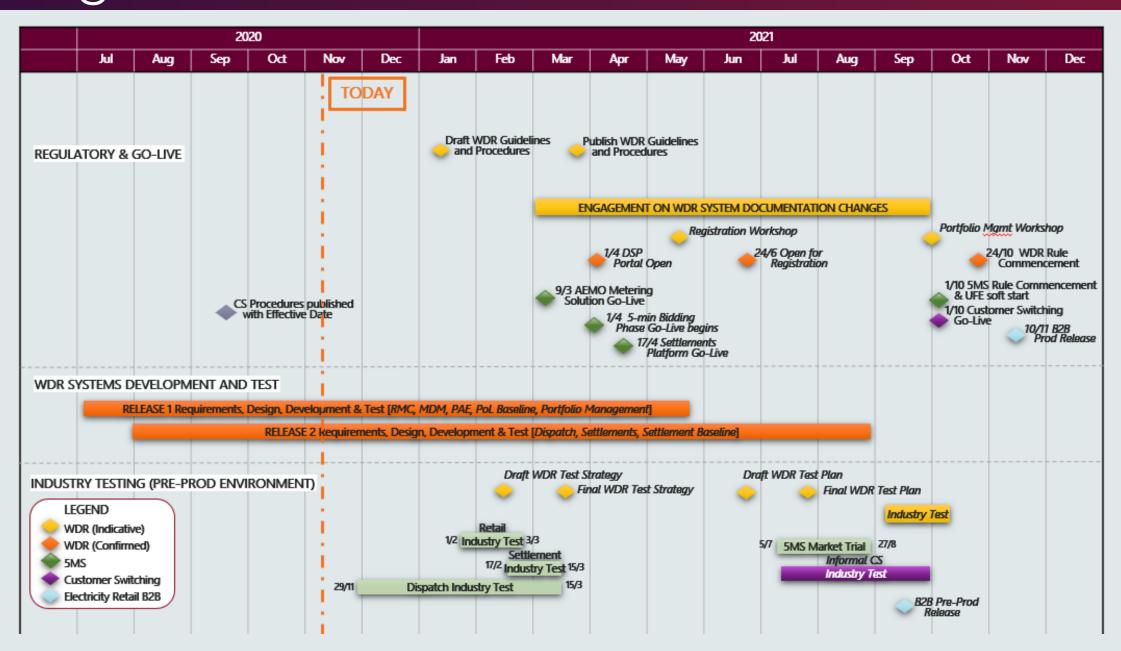
WDR CG feedback on draft WDR Test Plan Sep 2021

Invitation and industry testing



Proposed WDR Industry testing: High-level timeline

Current as of 10 Nov 20



Resources

AEMO resources involved include:

- WDR Test Manager and Test Lead
- Business SMEs
- BA Lead
- Tech Lead
- Developer SMEs
- Environment and Release Manager

Industry/participant resources include:

- Test Managers
- Business SMEs



Next steps

- Fri 18 Dec: WDR CG to provide any initial feedback to wdr@aemo.com.au
- Feb 2021: AEMO to provide WDR CG with draft WDR Testing strategy



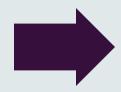
Engagement on systems documentation

Armando Estrella WDR Technical Lead



Proposed engagement approach for WDR systems documentation changes

Publish early version of system document



- AEMO to release early version of document to WDR CG (and any other relevant forums) for comment
- Stakeholders have 10-15 business days for comment

Publish updated system document

AEMO to:

- Consider stakeholder feedback and prepare updated document
- Publish updated document
- Provide debrief to WDR CG on the extent to which feedback was adopted.



High level impact assessment: Wholesale - EMMS

Description

A Company of the Comp	1		
	 Updates on some tables in the following schemas: Registration Dispatch, P5Min, PD, PASA Settlements, Billing Any PMS data to be published via DM (TBA) - e.g. NMI Baselines 	High	All participants
Explains the packages, tables, and reports in the Electricity Data Model.	Updates to the DM report document	High	All participants

A set of applications to replicate, manage, and monitor data between AEMO's Wholesale Updates to the online help based for the new Data Data Interchange (DI) All Energy Market Systems and participants' local Medium

Model version. DBMS conforming to the Electricity or Gas Data Models.

participants **FRMPs**

High **DRSPs** Online help with context-sensitive help helping Updates to the online help based on the new **FRMPs** participants navigate the EMMS Markets Medium Portfolio Management UI. **DRSPs** Portal.

Markets Portal online help (PMS updates)

online help Guide to Portfolio User guide on how Participants will navigate New user guide Management System the new Portfolio management web page. (PMS)

New API guide

Portfolio Management APIs

Summary of changes

Medium

Medium

FRMPs DRSPs FRMPs

DRSPc

Affected

stakeholders

Priority

Portfolio Management API specification in submitting DRSP **API Technical** participants' portfolio data. Specification API guide providing context information on Portfolio Management

Document

A PI Guida

New API specification

High level impact assessment: Retail – MSATS/eMDM

Document	Description	Summary of changes	Priority	Affected stakeholders
MSATS Technical Specification	Describes the technical changes required to participant's systems for the WDR Metering Datastream	New data, ie "Role", through existing channelOthers TBA	High	Retailers/FRMPs DRSPs
Updated MSATS guides New eMDM guide	Creates/updates guides based on changes to the Retail System for WDR.	Updates on Reconciliation ReportsOthers TBA	High	Retailers/FRMPs DRSPs



Indicative 2021 engagement timetable

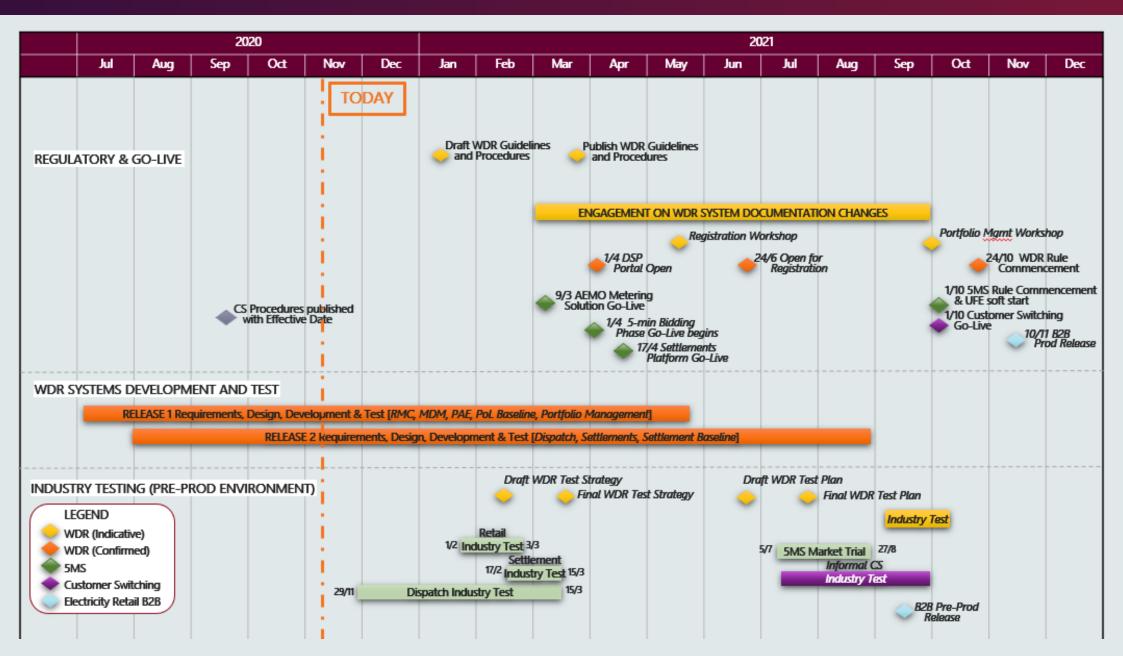
Document	Early version released	Comments due	Updated version published
Guide to Portfolio Management System (PMS)	April	April	May
Markets Portal online help (PMS updates)	April	April	May
MSATS Technical Specification	April	April	May
EMMS Technical Specification	March	April	April

Document	Early version released	Comments due	Updated version published
EMMS Data Model Report	August	September	End of September
Data Interchange (DI) online help	August	NA	September
Portfolio Management API Technical Specification	July	August	September
Portfolio Management API Guide*	July	August	September
Update MSATS/eMDM guides	June	July	September



Indicative timeline

Current as of 10 Nov 20



BREAK





WDR compliance



WDR compliance agenda

	ltem	Responsible
1	AER overview	Rhiannon Davies (AER)
2	Post-event dispatch compliance	Madison Pigliardo
3	Baseline eligibility and compliance	Katalin Foran





Introduction to the role of the AER

Rhiannon Davies, Senior Analyst, Compliance and Enforcement Branch

17 November 2020

About the AER

- The AER protects the interests of household and small business consumers by enforcing the Retail Law. Our retail energy market functions cover NSW, SA, Tasmania, the ACT and Queensland.
- We enforce the laws for the National Electricity Market and spot gas markets in southern and eastern Australia. We monitor and report on the conduct of market participants and the effectiveness of competition.
- We also regulate electricity networks and covered gas pipelines, in all jurisdictions except WA. We set the amount of revenue that network businesses can recover from customers for using these networks.
- The AER's objectives, that is the steps we will take to achieve the outcomes, are:
 - protect vulnerable consumers while enabling consumers to participate in energy markets,
 - effectively regulate competitive markets through monitoring and reporting, enforcement and compliance,
 - deliver efficient regulation of monopoly infrastructure while incentivising networks to become platforms for energy services
 - use our expertise to inform debate about Australia's energy future and support the energy transition

The AER's approach to compliance and enforcement

- The AER's approach to compliance and enforcement is underpinned by the objectives of the national energy laws, that is: to promote efficient investment in and efficient operation and use of energy services for the long term interests of consumers with respect to price, quality, safety, reliability and security of supply of energy.
- The national energy laws and rules set out a range of obligations on businesses participating in the energy markets.
- It is the responsibility of businesses to be aware of all their obligations under the national energy laws and rules and to ensure they have the proper policies, systems and procedures in place to ensure they are complying with those obligations.
- We will assist businesses to understand the general nature of their obligations under the
 national energy laws and rules. However we expect businesses to seek independent legal
 advice as they consider appropriate in order to understand their own compliance obligations.
- We expect businesses to have comprehensive and effective compliance programs and systems in place to manage their obligations.
- We expect businesses to self-report and cooperate with us when compliance issues arise.
- We are committed to driving a high level of compliance within the energy industry and will use the most appropriate compliance tools available to achieve our compliance objectives.

The AER's approach to compliance

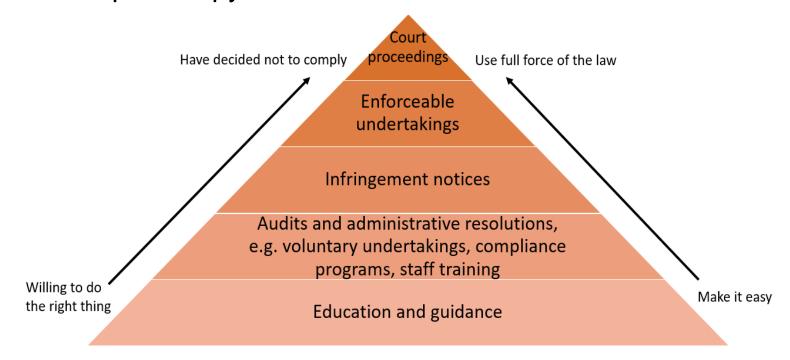
- The AER uses a wide range of information sources and monitoring tools to assess levels of compliance and identify potential breaches of the national energy laws and rules, including:
 - Stakeholder intelligence
 - Information requests via voluntary and compulsory notices
 - Market surveillance
 - Business reporting
 - Audits
 - Targeted compliance reviews and projects.
- The AER's approach to compliance focusses on preventing and addressing consumer harm and ensuring the effective operation of the energy markets and the efficient operation of networks.

The AER's enforcement powers

- The AER has the power to take enforcement action in relation to serious breaches of the national energy laws and rules.
- Our enforcement options include infringement notices (current maximum penalty of \$20,000 per breach) and the institution of court proceedings in relation to civil penalty provisions (current maximum penalty of \$100,000 per breach).
- New penalties for breaches of civil penalty provisions are expected to come into force in 2021, with a new maximum penalty of \$10,000,000.
- When taking enforcement action, the AER seeks to:
 - stop the unlawful conduct of the business in question
 - deter offending conduct both in the specific business and in the industry more generally
 - ensure future compliance with the law
 - encourage the effective use of compliance programs
 - penalise offenders, where warranted.
- The factors the AER considers when deciding what, if any, enforcement action is warranted is set out in our <u>Compliance & Enforcement Policy</u>

The AER's approach to compliance

- The AER has a range of tools available to achieve compliance
- The use of these tools informed by range of factors (such harm and attitude to compliance) and are proportionate
- Education and guidance are foundational
- AER compliance pyramid:



Approximate timeframes for the AER's WDR participant guideline consultation

- March 2021 Notice of consultation/issues paper published on AER website
- 25 business days' consultation for written submissions
- 20 business days' consultation via meetings (upon request)
- July 2021 Draft participant guide published on AER website
- 10 business days' consultation
- October 2021 Final participant guideline published on AER website

Contact us

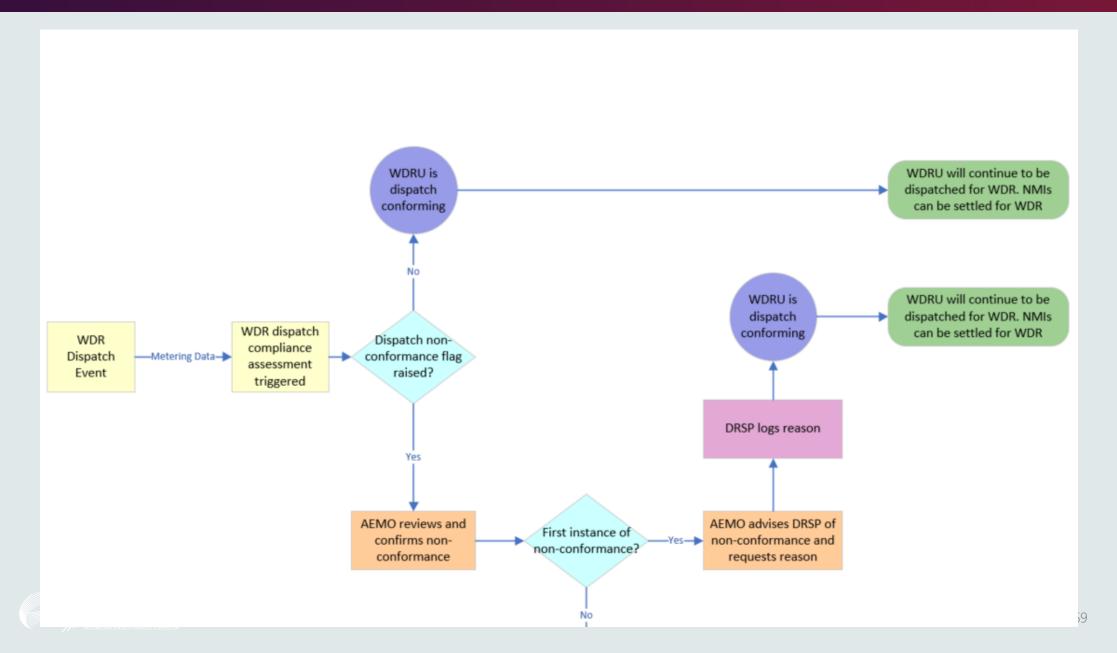
- AERCompliance@aer.gov.au
- www.aer.gov.au

WDR compliance: 2. Post-event dispatch compliance process flow

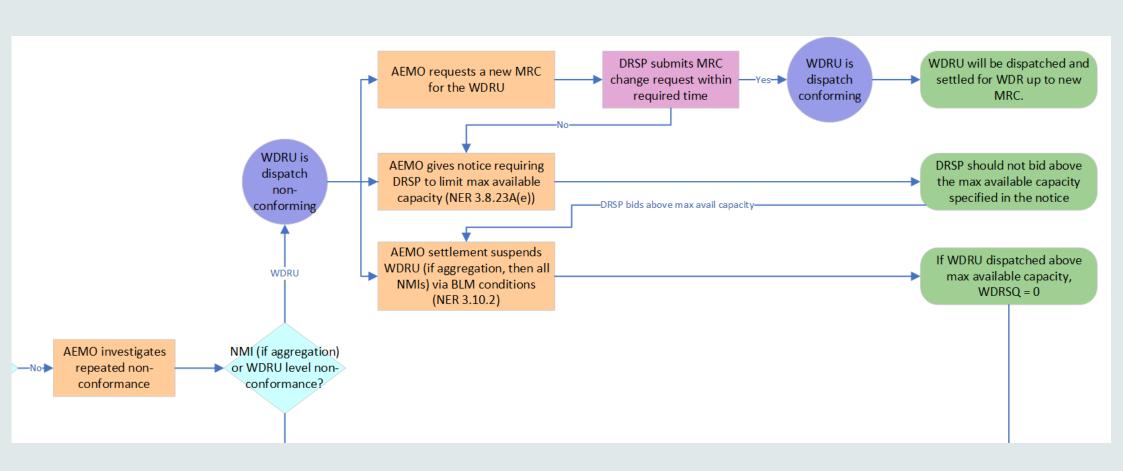
Madison Pigliardo, AEMO



Post-event dispatch compliance: Process start

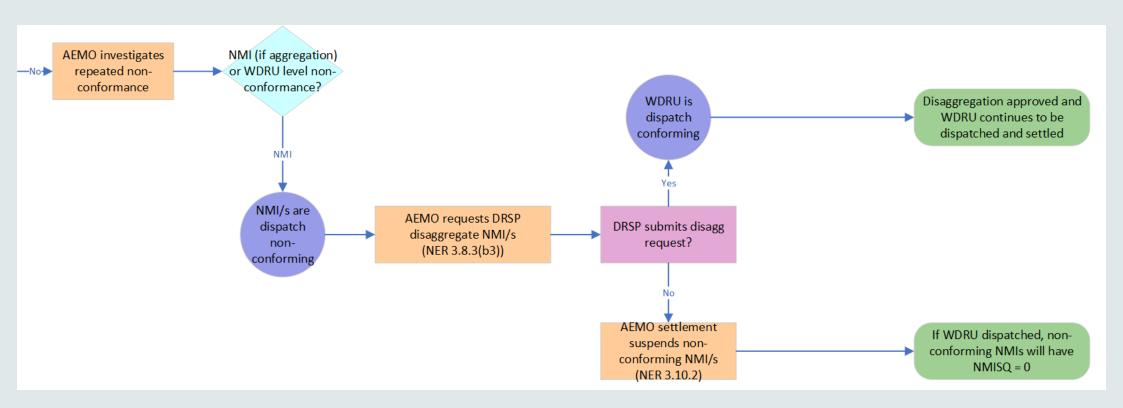


WDRU non-conformance



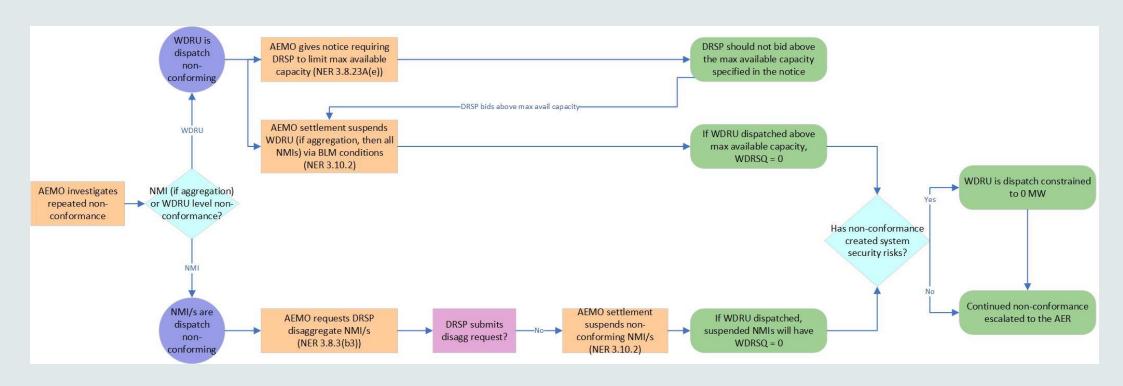


NMI non-conformance





Repeated non-conformance





2. Proposed Error Triggers

MRC	Small Error		Large Error		Gross Error	
	Trigger	Intervals	Trigger	Intervals	Trigger	Intervals
MRC ≥ 30	MAX(6, MIN [3% MWO, 2*ROC])	6	MAX(6, MIN [5% MWO, 4*ROC])	3	(50% MWO)	1
5 <mrc<30< td=""><td>MAX(1, MIN [3% MWO, 2*ROC])</td><td>6</td><td>MAX(1, MIN [5% MWO, 4*ROC])</td><td>3</td><td>(50% MWO)</td><td>1</td></mrc<30<>	MAX(1, MIN [3% MWO, 2*ROC])	6	MAX(1, MIN [5% MWO, 4*ROC])	3	(50% MWO)	1
MRC ≤ 5	-		-		(50% MWO)	1

Considerations:

 Uncertainty threshold will be added to each error trigger to account for potential baseline inaccuracy

Gross error trigger only applies to intervals which are not the first interval

of a dispatch event

Abbreviation	Meaning
MWO	Bid unit availability (MW)
ROC	Ramp rate (MW/min)



Proposed timeline: Post-event dispatch compliance framework

AEMO begins drafting dispatch compliance framework Submissions due on draft framework

Provide CG with submissions update/concerns raised

WDR go-live











Dispatch compliance draft published

Final dispatch compliance framework published

AEMO internal documentation finalised



WDR compliance 3. Baseline eligibility and compliance

Katalin Foran, AEMO



Background

- In order to participate in WDR, energy usage of a NMI must be relatively predictable.
 - A 'baseline' is the <u>expected</u> amount of energy used (or exported) at a connection point <u>in normal operations</u>.
 - Baselines are usually calculated based on meter readings from the same time of day over recent days or weeks.
- Under the Rules, AEMO must develop:
 - One or more baseline methodologies (BMs): the method used to calculate a baseline
 - Related baseline settings parameters that allow for 'tuning' the BM, specific to a NMI
 - Baseline methodology metrics scores for accuracy and bias which are used to check that a NMI's consumption is relatively predictable (for eligibility and compliance).

For more detail on baselines, please see <u>WDR Technical Working Group #1</u> meeting pack



Update: Initial consultancy findings

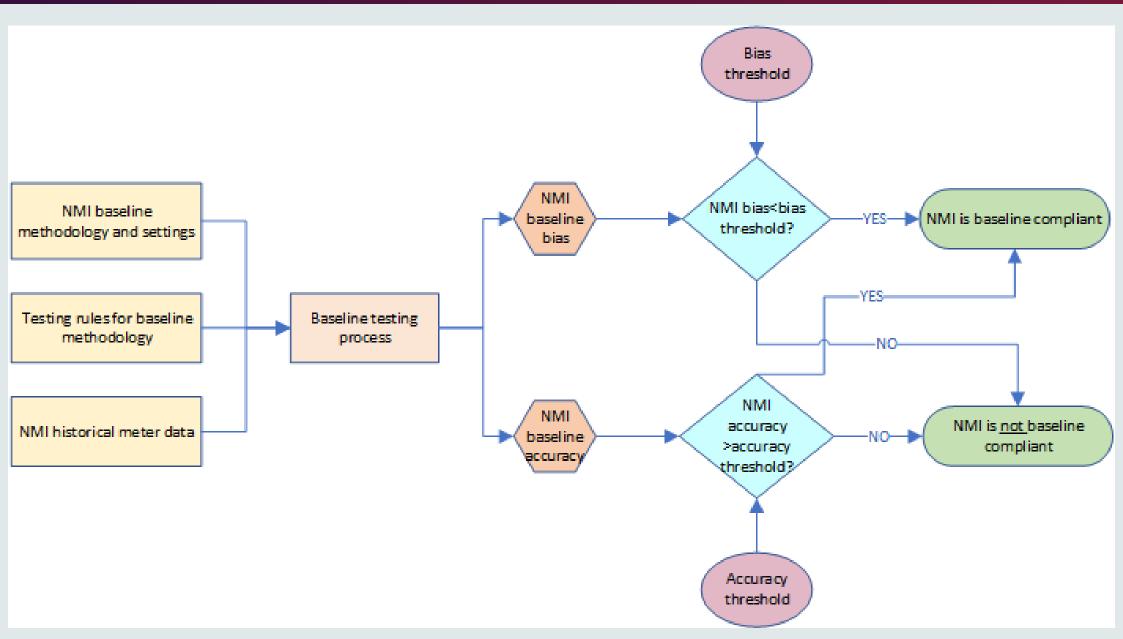
Oakley Greenwood were engaged by AEMO to:

- 1. Test the efficacy of a variety of "RERT-like" BMs with commonly accepted adjustment approaches. Initial findings are that:
 - RERT-like baseline methodology is suitable for WDR
 - There is a degree of confidence that there will be enough NMIs that can meet metric thresholds to participate in WDR (should they choose to)
- 2. Provide information which AEMO requires to specify the accuracy and bias threshold.
- 3. Provide input into the operationalisation of the baseline function.

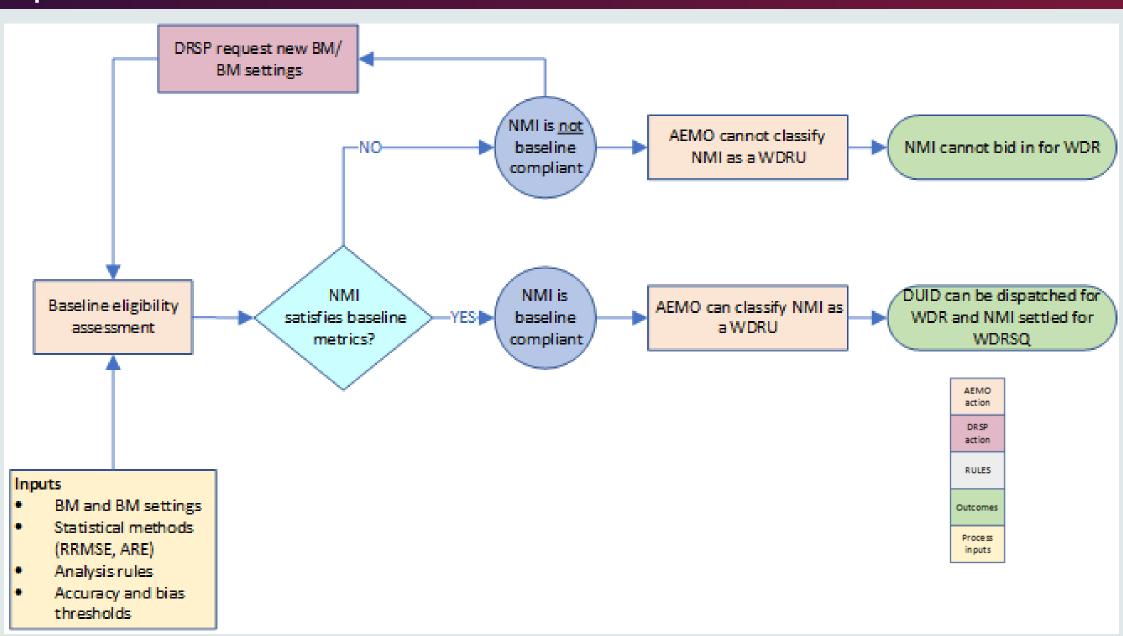
This work is in progress and will be discussed further in the WDR compliance section.



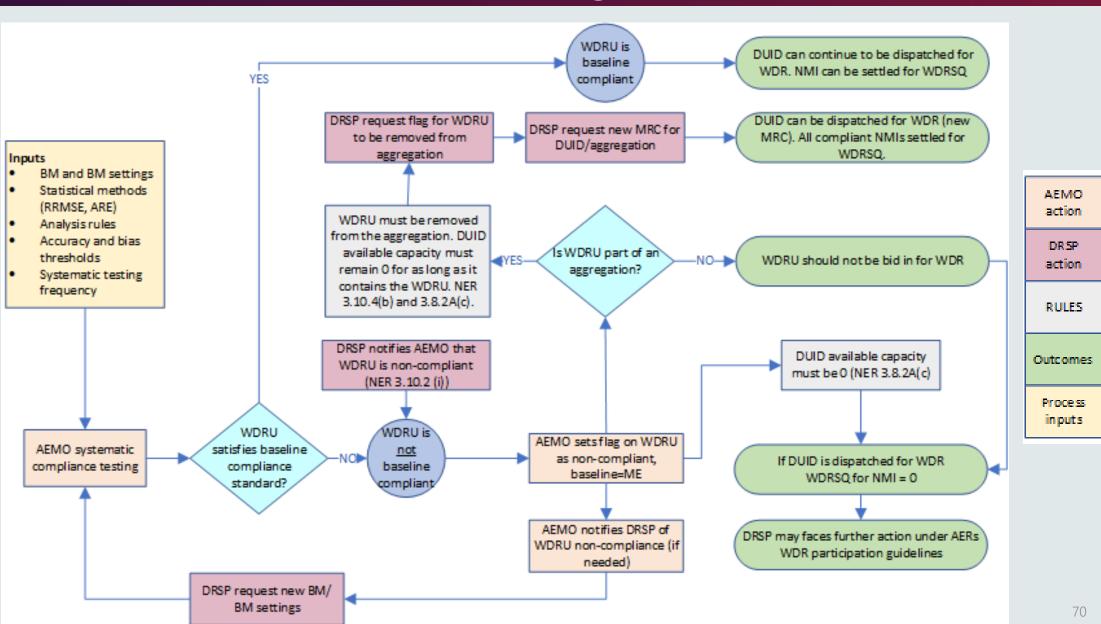
Baseline testing – generic process



Baseline eligibility assessment process flow - WDRU classification



Baseline compliance testing process flow - systematic testing



Next steps

17 Nov 20

WDR CG#6

Discuss baseline compliance process flow



Issues paper: Baseline Eligibility, Compliance and Metrics Policy







23 Nov 20

WDR TWG #3

- More detail on results
- Baseline methodology metrics



Consultation: Baseline Eligibility, Compliance and Metrics Policy

Stage	Indicative dates	
Consultation paper	Early December 2020	
Round #1 consultation	January 2021	
Draft policy	February 2021	
Round #2 consultation	March 2021	
Final policy	April 2021	



Stakeholder engagement and forward agenda

Emily Brodie



Upcoming WDR meetings

Meeting	Meeting Date	
WDR Guidelines TWG #3	Mon 23 Nov	
Portfolio Management System walkthrough	Thu 26 Nov	
WDR/DNSP forum	Fri 11 Dec	
WDR CG #7	Tue 15 Dec	

Indicative agenda for December WDR CG meeting:

- Administrative matters
- Procedure consultation updates
- What to expect in the *DRAFT* WDR Guidelines
- Approach to WDR industry readiness



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



Upcoming WDR meetings

WDR technical working group

- **Timing:** 10:30am 12:30pm AEDT, Mon 23 November
- Purpose: Discussion on WDR baselines and WDR guidelines issues paper

WDR Portfolio Management System walkthrough

- Timing: 2:30pm 4:30pm AEDT, Thu 26 November
- **Purpose:** Detailed Portfolio Management System walkthrough and questionnaire with participants.
- Nominations: to wdr@aemo.com.au by Fri 20 Nov

DNSP forum

- **Timing:** 10:30am 12:30pm AEDT, Fri 11 December
- **Purpose**: Forum for sharing information on and discussing potential WDR impacts on distribution networks.



WDR contact and information



Mailbox

wdr@aemo.com.au



WDR program information

https://aemo.com.au/initiatives/trialsand-initiatives/wholesale-demandresponse-mechanism



WDR stakeholder engagement options

https://aemo.com.au/consultations/ind ustry-forums-and-working-groups/listof-industry-forums-and-workinggroups/wdr



General questions

Emily Brodie



Thank you for your participation!

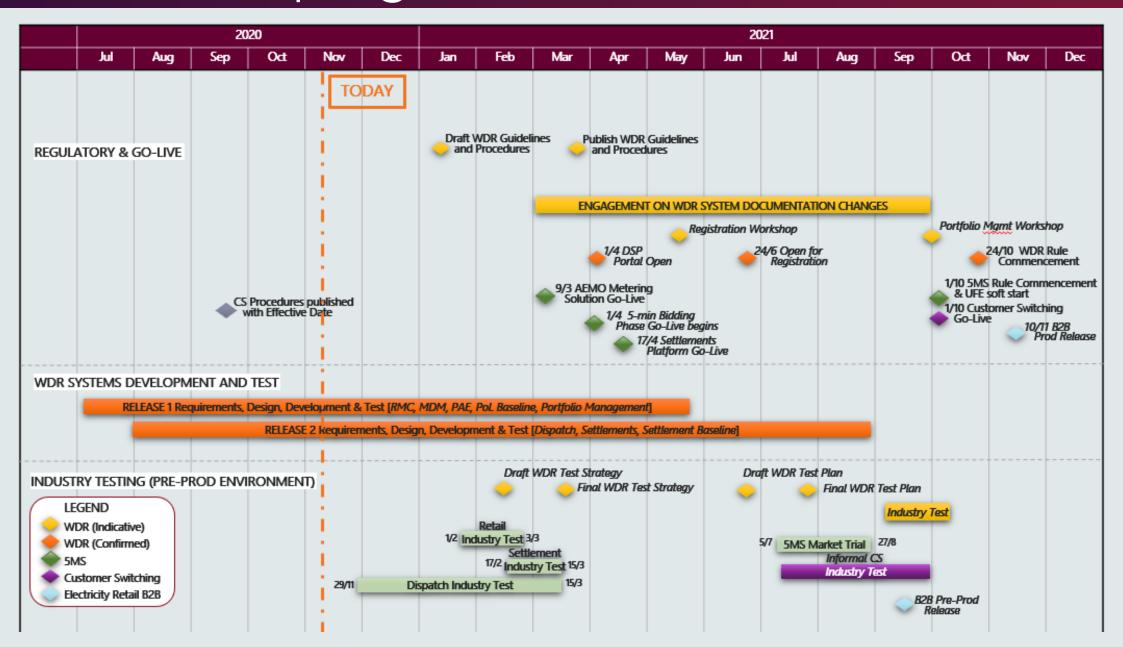


APPENDIX A Indicative program schedule



Indicative program schedule

Current as of 10 Nov 20



APPENDIX B Procedure changes



WDR procedure consultation update

Work package	Status	Next milestone	Date
WDR guidelines	Issues paper out for consultation	Submissions due	Fri 27 Nov
Settlements and prudentials: • Credit Limit Procedures	Preparing draft determination	termination AEMO to publish draft determination	
Settlements and prudentials:NEM Settlement Estimates Policy	Issues paper out for consultation	Submissions due	Fri 18 Dec
Retail and B2B	Issues paper out for consultation	Submissions due	Tue 17 Nov
Market and system operations	Issues paper out for consultation	Submissions due	Tue 17 Nov
Demand-side participation information guidelines	Draft determination and draft guidelines out for consultation	Submissions due	Wed 25 Nov



Procedure change timelines

Hoceane change inhelines						
Procedure package	Consultation Paper	Round 1 Consultation	Draft			
DR Guidelines	Thu 22 Oct 2020	Fri 27 Nov 2020	Thu 14 Jan 2021			

Fri 16 Oct 2020

Fri 18 Dec 2020

Tue 17 Nov 2020

Tue 17 Nov 2020

Wed 30 Sep 2020

Jan 2021

Fri 04 Sep 2020

Thu 05 Nov 2020

Mon 12 Oct 2020

Fri 09 Oct 2020

Wed 26 Aug 2020

Early Dec 2020

Settlements and

Settlements and

Market & System

Demand-side

Baseline Eligibility,

<u>quidelines</u>

Policy

Estimations

quide

CLP

Prudentials procedure –

<u>Prudentials procedure -</u>

Retail procedures & B2B

Operations procedures

participation information

Compliance and Metrics

Round 2 Consultation

Fri 12 Feb 2021

Fri 04 Dec 2020

Thu 04 Feb 2021

Tue 02 Feb 2021

Fri 29 Jan 2021

Wed 25 Nov 2020

Mar 2021

Thu 12 Nov 2020

Fri 15 Jan 2021

Tue 15 Dec 2020

Fri 11 Dec 2020

Wed 11 Nov 2020

Feb 2021

Final

Thu 25 Mar 2021

Fri 15 Jan 2021

Thu 04 Mar 2021

Tue 16 Mar 2021

Fri 12 Mar 2021

Fri 18 Dec 2020

Apr 2021

APPENDIX C Project and system document changes



Project and system document

change timelines					
Area	Document	Early version released			
DISPATCH COMPLIANCE	Post-event dispatch compliance framework	Jan 2021			
TESTING	WDR Test Strategy	Feb 2021			
	WDR Test Plan	Jun 2021			
	EMMS Technical Specification	Mar 2021			

EMMS Data Model (DM) Report

Data Interchange (DI) online help

Portfolio Management API Guide*

New/Updated MSATS/eMDM guides

MSATS Technical Specification

WHOLESALE - EMMS

RETAIL – MSATS/eMDM

Guide to Portfolio Management System (PMS)

Portfolio Management API Technical Specification*

Markets Portal online help (PMS updates)

Updated version

published

Apr 2021

Mar 2021

Jul 2021

Apr 2021

Sep 2021

Sep 2021

May 2021

May 2021

Sep 2021

Sep 2021

May 2021

Sep 2021

Comments due

Feb 2021

Mar 2021

Jul 2021

Apr 2021

Sep 2021

n/a

Apr 2021

Apr 2021

Aug 2021

Aug 2021

Apr 2021

Jul 2021

Aug 2021

Aug 2021

Apr 2021

Apr 2021

Jul 2021

Jul 2021

Apr 2021

Jun 2021

