

MEETING RECORD

MEETING:	WDR and Retail Workshop
DATE:	Friday, 6 November 2020
TIME:	10:30am – 12:30pm
LOCATION:	WebEx only
ATTENDEES:	Listed in section 10 below

Disclaimer – This document provides an overview of the main points of discussion at an industry forum convened by AEMO on 6 November 2020 to provide information and invite perspectives and feedback on matters relating to Wholesale Demand Response implementation. Readers please note that:

- This document is a summary only and is not a complete record of discussion at the forum.
- For presentation purposes, some points have been grouped together by theme and do not necessarily appear in the order they were discussed.
- The views expressed at the forum and reflected here are not necessarily those of AEMO.

1. Welcome (M. Bibby, slides 1- 5)

Attendees were welcomed to the meeting. AEMO noted that the meeting was being recorded for the purposes of preparing meeting notes.

2. Session overview (M. Bibby, 6-8)

AEMO noted that the workshop was for exploring the WDR impacts on retail systems. It set out the objectives for the session, namely:

- Develop a full list of WDR issues affecting retail lifecycle
- Identify potential mitigations and opportunities where feasible and within constraints of the national electricity rules (NER)
- Agree next steps

There were no questions or comments from attendees on this agenda item.

3. Overview of WDR mechanism rule (E. Brodie, slides 9-11)

AEMO provided an overview of the AEMC's WDR Mechanism rule, noting the go-live date of 24 October 2021 which drives the tight implementation timeframe. In response to a question from AGL, AEMO confirmed that WDR applies to large customers only.

AGL asked whether there is a single large customer or an aggregated customer for WDR. AEMO responded that WDR applies to large customers only, and this is based on large customer classification (based on jurisdictional levels) not NMI classification. For example, in Victoria, a large customer is a customer who consumes more than 40MWh per annum.

AGL stated that Victoria doesn't allow aggregation which AEMO couldn't confirm at the time.

ACTION 01: AEMO to investigate whether Victoria has different rules around aggregation.

Origin enquired whether small sites could be aggregated to participate in WDR. Similarly, Telstra asked whether large customers could be aggregated or whether data needed to be provided at the NMI level. AEMO noted that a "qualifying load" is set out under section 2.3.6 of the final rule: *"a load is a qualifying load if... no connection point associated with the load is a connection point for a small customer load."*

ACTION 02: AEMO to confirm aggregation permitted under the rules.

4. AEMO's WDR implementation program (N. Batie, slides 12-18)

AEMO ran through an overview of its WDR program, particularly heat maps of affected market systems, the new "portfolio management" system and the indicative program timeline. AEMO reiterated that **there are no schema changes required for WDR**.

4.1. Portfolio management system

AEMO introduced the 'portfolio management system' as the new application for WDR that will enable the DRSPs to manage their portfolio of NMIs. It confirmed that there will be an introduction to the portfolio management system at the next WDR CG and that this will be followed up with a deep dive session in late November.

4.2. Retail system updates for WDR

AEMO noted that its approach to updating retail systems is 'light touch' and mainly to include the new DRSP participant type. There will be a new system element (baselines) to manage "predictability of load" calculations and baselining calculations. This element will be "back of house" with no external access. It will feed into dispatch, settlements and portfolio management systems. In particular, the baselines system will work with portfolio management as the front end.

Endeavour asked whether there will be any changes to Meter Data Validation. AEMO responded that there will be no change, the MDM will do the same validation as it does today.

Origin enquired about impacts to NMI discovery. AEMO noted that there will be no new fields or content changes for NMI discovery. Origin clarified its question, and asked whether the DRSP role will be visible on a NMI as this will be important when a retailer acquires a new site. AEMO responded that a DRSP will hold a role on the NMI if it is participating in WDR. If role is not assigned to the NMI, then it is not participating in WDR.

Ready Energy asked about the application of baselines. AEMO noted that it was still working through its approach to baselining and that the WDR Technical Working Group was looking at it in detail.

Telstra queried whether DRSPs will be able to request Meter Data Validation. AEMO answered that DRSPs will have access to MDVs and will be able to send Verify Meter Data (VMD) requests to MDPs.

Nectra asked whether the introduction of the Portfolio Management System will have any impact on retailers who are not offering DR services. AEMO noted that the portfolio management system is only for DRSPs to manage their portfolios of NMIs.

Ready Energy asked whether there are options to use disaggregated energy data i.e. not just the whole of meter - but sub metering of actual controlled loads.

ACTION 03: AEMO to establish whether the use of disaggregated energy data is an option under the WDR mechanism.

An attendee enquired about whether there would be changes to wholesale NMI and meter registrations [as a result of WDR]. AEMO confirmed that there will be no change to the wholesale NMI registration process. DRSP registration is a new type of registration.

Origin Energy asked whether specific WDR unit information can be found through the MSATS discovery process, particularly the type of unit and its capacity. AEMO noted that this is an area that is still under consideration. However, aside from the role, WDRU information wouldn't be kept in MSATS.

ACTION 04: AEMO to clarify what WDR information will be available to various participant types.

Telstra queried whether all retailers be impacted as their meter data will no longer match wholesale settlement data and they will need to understand what is happening in Portfolio Management Systems to understand the difference. AEMO noted that the WDR settlement process is settled on actual metering data not the baseline. Retailers will only pay for energy used. They will be reimbursed by the DRSP for the "wholesale demand regional reimbursement rate (WDRRR) calculated", which is charged to the DRSP based on the difference between the baseline energy and the metered energy.

AGL enquired whether registration is visible in MSATS/NMID. AEMO confirmed that registration is only visible when the DRSP is allocated to that NMI. [Participants] won't see all registrations, only whether a single NMI is assigned as a WDRU or part of a WDR aggregation.

Endeavour Energy asked whether DRSPs should update the retail operational contact list (ROCL) as part of their registration process. AEMO noted that it hadn't contemplated this to date and that ROCL isn't mandatory. Telstra suggested that it would be sensible to add DRSP to the ROCL so that issues can be addressed efficiently between participants

ACTION 05: AEMO to consider its approach to including DRSPs on ROCL.

Endeavour Energy asked if WDRUs are allowed to be aggregated if they are not all within the same network area or NEM region. AGL suggested that aggregation would need to be at the TNI because of global settlements. AEMO confirmed that aggregations can occur across TNIs because settlement occurs at the NMI. However aggregations are subject to system security assessments and there could be reasons why an aggregation would be rejected on system security grounds e.g. constraint management. If no such reasons arise, then aggregation across a region is possible.

Ready Energy noted that changes to retail systems should have to encompass all WDR - not just C&I, in anticipation of when the residential/SME customer protections [and potentially the proposed 'two-sided market'] are finalised. AEMO noted that such rule changes have not yet occurred.

5. Update: WDR Retail procedures consultation (G. Morrah, slides 19-20)

AEMO provided a summary of the current retail procedures consultation that addresses WDR changes. It is seeking submissions on the issues paper by 17 November.

AGL asked whether the DRSP is churnable and if so should objection and timing rules be considered. AEMO confirmed that a DRSP can change but there can be no objections. AEMO also noted that churn can only occur once a load has been classified. The 'old' DRSP will declassify the load and then the 'new' DRSP will apply to classify the load through the portfolio management system. AEMO referred attendees to the classification/declassification process flow in the meeting pack appendix. AGL noted that it will be very complex for AEMO to assess every load every time a DRSP changes. AEMO clarified that classifying load includes an assessment of whether the DRSP/load has the right communications and system controls. As a load gets taken up by a new DRSP, these checks need to be performed again. AEMO noted that some aspects of the classification assessment are fairly automated and therefore more straightforward. AGL enquired whether classification processes could be streamlined if DRSPs used common providers, particularly as smaller customer sizes enter the market and there would likely be more complexity. AEMO acknowledged that there could be an opportunity for streamlining but this would be more appropriately considered when a rule was made to include small customers in demand response.

EnergyAustralia queried how retailers will be notified of their customers' being dispatched. AEMO responded that this aspect is still under consideration.

ACTION 06: AEMO to clarify retailer notification process relating to their customers' WDR dispatch.

6. Workshop: WDR impacts on retail systems (M. Bibby & J. Krizmanic, slides 21-34)

AEMO presented the "retail lifecycle" and the key changes required to implement the WDR mechanism.

6.1. WDR and embedded networks

In response from a question from Telstra, AEMO confirmed that NMIs on embedded networks can participate in WDR so long as they meet all the WDR requirements.

Endeavour Energy queried how the DNSP will get visibility of a WDRU on a market child NMI. AEMO noted that it was seeking advice and will provide the answer back to the WDR/DNSP forum. AGL noted that there may also be a visibility issue for the parent retailer.

ACTION 07: AEMO to clarify whether DNSPs and parent retailers will have visibility of a WDRU on a market child NMI.

Viotas enquired whether a parent NMI owner would need to approve the embedded customer to participate. AEMO didn't believe this was necessary but will clarify. Telstra suggested it would be the LNSP or ENM.

ACTION 08: AEMO to clarify whether a parent NMI owner would need to approve the embedded customer to participate.

6.2. NMI role assignment

Intellihub enquired whether the DRSP role will come back through an MC data discovery process. AEMO confirmed this would be the case and is included in the procedures.

In relation to NMI role assignment (slide 26), Endeavour Energy asked if participants can tell if a WDRU is part of an aggregation. AEMO confirmed that this functionality wouldn't be available in MSATS, but may possibly be available through Portfolio Management System. Endeavour Energy asked whether DNSPs will have access to the PM system.

ACTION 09: AEMO to clarify if and how participants (including FRMPs and DNSPs) can tell if a WDRU is part of an aggregation.

6.3. Meter data provision

AGL asked about meter data provision in the case of small customer aggregations. It noted that the retailer has an obligation to supply small customer meters. In the case where a DRSP wants better data or faster/more real time data, the retailer may not want to supply a new meter. AEMO noted that this would need to be a consideration if/when there was a rule change to enable small customer WDR aggregations.

Powerlink asked whether the 3-day response requirement for faulty meter replacement is affected. AEMO confirmed that MSATS meter replacement obligations have not changed. In the situation where meter replacement takes weeks (e.g. resulting from a high voltage meter outage), AGL queried whether the DRSP would have that site available and what impacts there would be from poorer metering quality. AEMO suggested that here substituted data was used, there may be no payment to the DRSP.

ACTION 10: AEMO to provide guidance on WDR impacts from estimated or substituted data.

Ready Energy asked about the use of sub-metering of individual loads and/or generation (additional disaggregated energy monitoring) rather than just using the low level "net" import/export of a standard meter. AEMO confirmed that MSATS only records revenue metering data and check metering data i.e. only relates to market meters.

6.4. Notification processes

Origin enquired about notification processes when a FRMP is organising to disconnect a site (e.g. for non-payment). It queried whether a notification will be sent to the DRSP as well as the customer. AGL noted that the combined lags of the disconnection process and MSATS update process could mean that without notification, a DRSP could be trying to schedule a disconnected site. Telstra added that potentially AEMO would also not be aware of the disconnection and that this could be a problem for the system.

In respect of planned outages, AEMO confirmed that a question was asked in the issues paper on the use of PINs for DRSPs. AEMO recommends that participants provide feedback to that question via the consultation process. Vector queried whether DNSPs will need to advise of network outages. AEMO advised that this was also part of the consultation around PINs.

AGL asked whether AEMO would notify DRSPs of meter problems if they issue an exemption. AEMO suggested it was up to the MC or the FRMP to advise the DRSP. AGL responded that the FRMP doesn't have an interest in advising and it wouldn't be a FRMP responsibility. Viotas advised that DRSPs will be monitoring their loads. SAPN stated that the customer at site will need to be involved in the process and should be the one advising the DRSP of any outages or activities at site that would prevent them from providing the demand response. Telstra queried whether meter data going to be visible to DRSPs.

ACTION 11: AEMO to clarify what data DRSPs have visibility over.

6.5. Removal of DRSP role

AGL asked whether you'll see 'DRSP' or 'No DRSP' via NMI discovery. AEMO confirmed this is the case. Origin queried whether 'No DRSP' will be assigned to all other NMIs. AEMO responded that 'No DRSP' will only apply to specific NMIs that previously had the role assigned. AEMO also confirmed that timestamping applies so participants will be able to see data for the time splice that they held the appropriate role.

Origin queried whether the 'old' DRSP has to get a WDRU declassified before a 'new' DRSP can re-apply for classification, or whether the 'new' DRSP apply to reclassify just like a new retailer can raise a change request for transfer. AGL observed that having sequential de-classification/classification processes means there would be a gap as declassification would need to complete before classification could start. Telstra noted that this approach is a problem because there is no incentive for the 'old' DRSP to declassify in a timely manner. This would be amplified where a contract finishes on 31 December as it is important to have WDR available in the summer period. Origin and Viotas concurred. Plus ES stated that "at a minimum the current DRSP should know about the proposed new DRSP registration".

ACTION 12: AEMO to consider classification/de-classification processes, particularly around timely declassification.

6.6. Discussion

AEMO posed the following questions:

- a) What gaps are there in the retail lifecycle identified above?
- b) What impact will there be on participants' if AEMO implements MSATS configuration changes:

- late May 2021 in pre-production, followed by production in June 2021
- early October 2021 in pre-production, followed by production in late October 2021

With respect to gaps, Origin noted that B2B aspects were missing from the retail lifecycle. AGL agreed.

In relation to timing, AGL suggested pre-production in early October may not allow processes to be completed for WDR commencement (24 October).

Telstra enquired about the duration of the classification process. AEMO responded that it has 5 business days to consider the completeness of the application and a further 15 business days to determine whether the load should be classified as a WDRU. AEMO also noted that it has an obligation under NER 11.125.2C to have guidelines and determinations in place four months prior to WDR commencement so that applications can be made before the commencement date. AEMO confirmed that the classification process has a dependency on the WDR guidelines which are due to be finalised in March 2021.

Alinta and Ausnet supported an October pre-production release.

Ergon asked what B2B transactions are available to / required by DRSPs. AEMO confirmed that the current proposal is for PMD, VMD and meter data and the PIN is an open question in the WDR Retail consultation currently underway.

Origin noted the 5MS market trials in June/July and suggested that MSATS configuration changes shouldn't occur before then.

7. Next steps (E. Brodie, slides 35-37)

AEMO outlined the next steps in relation to WDR impacts on retail systems. Attendees were asked to confirm via email if they would like to join the WDR "retail" mailing list.

ACTION 13: Attendees to email wdr@aemo.com.au to confirm joining the WDR/Retail mailing list.

ACTION 14: Attendees to consider making a submission to the WDR retail procedures issues paper.

ACTION 15: Attendees to provide feedback on WDR retail system impacts.

8. General questions and close (M. Bibby, slides 38-41)

Attendees were thanked for their attendance



9. ACTION ITEMS RAISED

ITEM	TOPIC	ACTION REQUIRED	RESPONSIBLE	DUE BY
01	Overview of WDR mechanism rule	AEMO to investigate whether Victoria has different rules around aggregation.	AEMO	11 Dec 20
02		AEMO to confirm aggregation permitted under the rules.	AEMO	Complete
03	AEMO's WDR implementation program	AEMO to establish whether the use of disaggregated energy data is an option under the WDR mechanism.	AEMO	11 Dec 20
04		AEMO to clarify what WDR information will be available to various participant types.	AEMO	11 Dec 20
05		AEMO to consider its approach to including DRSPs on ROCL.	AEMO	11 Dec 20
06	WDR Retail procedures consultation	AEMO to clarify retailer notification process relating to their customers' WDR dispatch.	AEMO	11 Dec 20
07	Workshop: WDR impacts on retail systems	AEMO to clarify whether DNSPs and parent retailers will have visibility of a WDRU on a market child NMI.	AEMO	11 Dec 20
08		AEMO to clarify whether a parent NMI owner would need to approve the embedded customer to participate.	AEMO	11 Dec 20
09		AEMO to clarify if and how participants (including FRMPs and DNSPs) can tell if a WDRU is part of an aggregation.	AEMO	11 Dec 20
10		AEMO to provide guidance on WDR impacts from estimated or substituted data.	AEMO	11 Dec 20
11		AEMO to clarify what data DRSPs have visibility over.	AEMO	Complete



ITEM	TOPIC	ACTION REQUIRED	RESPONSIBLE	DUE BY
12		AEMO to consider classification/de-classification processes, particularly around timely declassification.	AEMO	Complete
13	Next steps	Attendees to email wdr@aemo.com.au to confirm joining the WDR/Retail mailing list.	Attendees	Ongoing
14		Attendees to consider making a submission to the WDR retail procedures issues paper.	Attendees	17 Nov 20
15		Attendees to provide feedback on WDR retail system impacts.	Attendees	20 Nov 20

DRAFT



10. ATTENDEES

NOTE: some attendees who joined through WebEx and phone may not have been identified. Please advise via email to WDR@aemo.com.au if you attended the meeting but have not been noted above.

Name	Company
Sukesh Kaul	Actew AGL
Pratap Sanga	Active Utilities
Samuel Martin	AEMC
Anne-Marie McCague	AEMO
Austin Tan	AEMO
Blaine Miner	AEMO
Emily Brodie	AEMO
Greg Minney	AEMO
Greg Ruthven	AEMO
Hayley George	AEMO
Jackie Krizmanic	AEMO
Meghan Bibby	AEMO
Michelle Norris	AEMO
Neil Batie	AEMO
Sue Richardson	Agility CIS
Dan Mascarenhas	AGL
Kyle Auret	AGL
Mark Riley	AGL
Mike Stockley	AGL
Anders Sangkuhl	Alinta
Ramitha Purushotham	Alinta
Shaun Cupitt	Alinta
Soham Roy Chaudhuri	Alinta
Craig Eadie	Aurora Energy
Kevin Boutchard	Aurora Energy
Shane Howlett	Aurora Energy
Alex Moran	Ausgrid
Wayne Turner	AusGrid
Con Michailides	AusNet Services
Neville Lewis	AusNet Services
Rebecca Neatnica	AusNet Services
Damien Tillig	Brave Energy
Sarah Grundy	Brave Energy
Emma Jacobs	DELWP
Trenton Gilbert	DNV GL

Name	Company
Dino Ou	Endeavour Energy
Hannele Lahti	Energex
Nicole Bright	Energex
Jason Tod	Energy Action
Mussan Larnach	Energy Intelligence
Steve Blair	Energy Q
Travis Boyle	Energy Queensland
Andrew Fooks	EnergyAustralia
Cameron Bath	EnergyAustralia
Jo Sullivan	EnergyAustralia
Jon Ham	EnergyAustralia
Andrea Wold	EnergyQ
Jane Hutson	EnergyQ
Peter Wall	EnergyQ
David Oliver	Enerven
Aaron Finn	Engie
Greg Budek	Ergon
Ingrid Farah	Ergon
Daniel Hoolihan	Ergon Energy Retail
Baz King	ERM Power
Sharleen Flanagan	ERM Power
Graeme Ferguson	Essential Energy
Jeff Roberts	Evo Energy
Mohitesh Sharma	Evo Energy
Alex Leemon	FloPower
Vin Nadgir	Gentrack
Quang Trinh	Globird Energy
Ben Friebe	HSN Tech
Christine Lu	Infigen
Natalie Junge	Infigen
Robert Lo Giudice	IntelliHUB
Warren Van Wyk	IntelliHUB
Mac Leung	Jemena
Mark Reid	Lumo
Steven Thomson	Manildra
Mark Lee	Momentum
Justin Stute	Mondo
Hannah Heath	Nectr
Neha Navani	Neighbourhood Energy
Andrew Mair	Next Business Energy

Name	Company
Ciro Barbieri	Origin Energy
Kamal Kisto	Origin Energy
Martin Vyhnalek	Origin Energy
Randall Brown	Origin Energy
Shaun Cole	Origin Energy
Frank Ochel	Origin Energy
Manoj Parameswaran	Origin Energy
Marian Vasjuta	Origin Energy
Suvarna Govender	Origin Energy
Boris Kobal	Plus ES
Helen Vassos	Plus ES
Peter Meywes	Pooled Energy
Greg Szot	Powercor
Trent Smith	Powercor
Alastair Andrews	Powerlink
Dean Knight	Powerlink
Karel Mallinson	Powerlink
Haiden Jones	Powershop
Tim Ryan	Ready Energy
Christophe Bechia	Red Energy
Nick Gustafsson	Red Energy
David Woods	SA Power Networks
Keith Powell	Select Solutions
Hilary Newstead	SIMEC Energy
Aakash Sembey	Simply Energy
Anthony O'Connell	Simply Energy
Chris Reilly	Stanwell
Adrian Honey	Tas Networks
David Sales	Tas Networks
Chris Murphy	Telstra
Emma Fagan	Tesla
Dev Kanda	Unknown
Paul Greenwood	Vector Metering
Michael Zammit	Viotas
Wayne Farrell	Yurika