

WDR Consultative Group #01

Tuesday 23rd June 2020

WebEx only

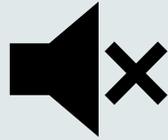
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**PLEASE NOTE THIS MEETING WILL BE RECORDED FOR THE
PURPOSE OF PREPARING MINUTES**

*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.

Agenda

NO	TIME (AEDT)	AGENDA ITEM	RESPONSIBLE
1	10:00am – 10:05am	Welcome	Ruth Guest (Chair)
2	10:05am – 10:15am	Wholesale Demand Response rule change overview	Mitchell Shannon (AEMC)
3	10:15am – 10:50am	AEMO's WDR project: <ul style="list-style-type: none">High-level summary and people	Ruth Guest
		<ul style="list-style-type: none">Stakeholder engagement approach	Emily Brodie
		<ul style="list-style-type: none">High-level program schedule	Chris Espinoza
4	10:50am – 11:10am	Approach to developing the WDR guidelines	Greg Ruthven
BREAK 11:10am – 11:15am			
5	11:15am – 11:50am	Approach to updating procedures: <ul style="list-style-type: none">Settlements and prudentials	Katalin Foran
		<ul style="list-style-type: none">Retail	Gareth Morrah
		<ul style="list-style-type: none">B2B	Gareth Morrah
		<ul style="list-style-type: none">System Operations	Gareth Morrah
		<ul style="list-style-type: none">Demand-side participation	Magnus Hindsberger
6	11:50am – 11:55am	Forward meeting plan	Emily Brodie
7	11:55am – 12noon	General questions and close	Ruth Guest

Wholesale Demand Response: Overview of rule change

Mitchell Shannon

Australian Energy Market Commission

History of demand response mechanisms in the NEM

Power of choice (2012)

Recommended the development of a new demand response mechanism in the NEM to reward businesses and factories for changes in volume or time of consumption scheduled through the wholesale market.

Demand response mechanism rule change request (2015)

The COAG Energy Council submitted a rule change proposing the introduction of AEMO's demand response mechanism.

Reliability frameworks review (2018)

In July 2018, the Commission published the final report for the *Reliability frameworks review*. It recommended a rule change be submitted to consider a wholesale demand response mechanism that would be transparent and scheduled.

AEMO's demand response mechanism design (2013)

In late 2013, upon request by the COAG Energy Council, AEMO developed a detailed market design for a demand response mechanism

Demand response mechanism rule change request – final rule (2016)

In November 2016, the Commission decided not to introduce the proposed demand response mechanism.

Wholesale demand response mechanism rule change request (2018)

The AEMC received three rule change requests proposing the introduction of a wholesale demand response mechanism.

Consultation paper

The AEMC received three rule change requests that relate to facilitating wholesale demand response, from:

1. the Total Environment Centre (TEC), The Australia Institute (TAI) and the Public Interest Advocacy Centre (PIAC)
2. the South Australian Government
3. the Australian Energy Council (AEC).

The consultation paper was published on 15 November 2018. It covered the three rule change requests.

First draft determination

A draft determination on the three rule change requests was published on 18 July 2019.

Under the draft determination:

- a wholesale demand response mechanism was introduced, allowing demand response service providers (DRSPs) to participate directly in the wholesale market.
- DRSPs would bid customers' demand reductions into the spot market as a scheduled participant.
- DRSPs would be settled in the wholesale market for the wholesale demand response they have provided.
- Only large customers were eligible to participate in the mechanism.

Second draft determination

The Commission published a second draft determination and second draft rule for the *Wholesale demand response mechanism* rule change on 12 March 2020.

This followed an extension of time for making the final determination from 5 December 2019 to 11 June 2020. This extension was given after AEMO provided supplementary information on implementing the proposed mechanism.

The second draft determination was largely consistent with the first draft determination, except the design was:

- Less complex and better integrated into AEMO's existing systems
- Lower cost
- Able to be introduced earlier.

Final determination

- The final determination and final rule was published on 11 June 2020.
- The final rule introduces a wholesale demand response mechanism, which will commence on 24 October 2021.



AEMO's WDR project: High-level summary and people

Ruth Guest

WDR project high-level summary: Design elements

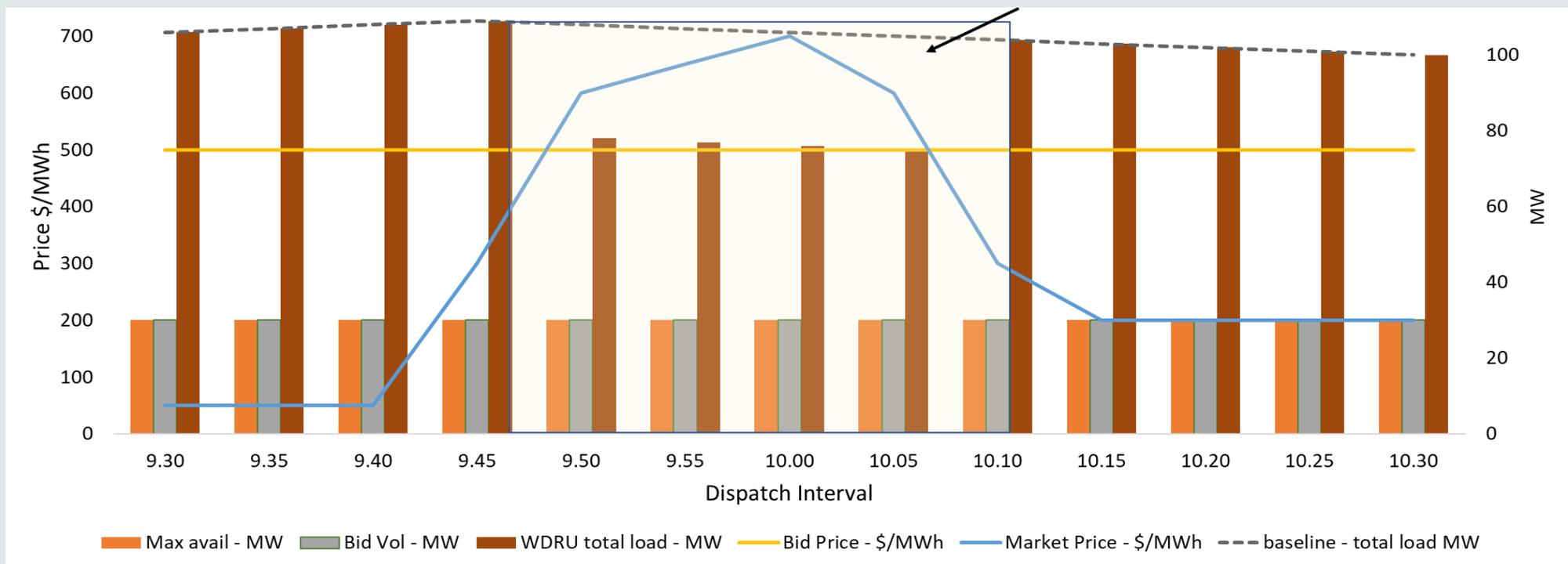
- Demand response in the market ahead of a fully integrated 2 SM design
- Implement by October 2021
- Design priorities:
 - A third-party registered participant
 - WDR capability registered into the market
 - WDR participation in dispatch through standard bidding and dispatch processes
 - WDR telemetry and metering requirements for system operations and visibility
 - WDR visible to market participants and AEMO
 - Simple baseline methodology
 - WDR funded by FRMP
 - WDR in short-term and pre-dispatch forecasting processes
 - WDR performance assessment and compliance based on the available data

WDR project high-level summary: Implementation

Area	Key artefacts
Registration	<ul style="list-style-type: none">• DRSP registration - capability• WDRU classification - eligibility• Aggregation and portfolio management
Settlements	<ul style="list-style-type: none">• DRSP and FRMP settlement• WDR dispatch event trigger• Calculations and reporting
Baselining	<ul style="list-style-type: none">• Eligibility testing• Baseline determination• Compliance
Prudentials	<ul style="list-style-type: none">• DRSP prudential risk• Credit support management• Daily assessment
Dispatch and forecasting	<ul style="list-style-type: none">• WDR energy modelled as a response• Bidding, dispatch and telemetry• Post event compliance
Demand side participation	<ul style="list-style-type: none">• DRSP data requirements
Retail Systems	<ul style="list-style-type: none">• Include DRSP role

WDR project high-level summary: Dispatch illustration

- Bid price is that price at which the WDRU is prepared to reduce consumption by the bid volume (30 MW)
- Reduction target goes from zero to 30 MW
- The DRSP reduces the consumption of responsive component of the WDRU to achieve the dispatched response
- The baseline is determined post event as the counterfactual for settlement and dispatch performance
- Good dispatch performance and baseline outcomes will show a WDRU reduction in metered consumption of 30 MW



WDR project high level summary: Procedures and documents

Significant number of affected procedures and guides

Rules consultation	Engagement
Wholesale Demand Response Guidelines	Power System Data Communication standard
Intervention, Direction and Clause 4.8.9 instructions (SO_OP_3707)	Dispatch (SO_OP_3705)
B2B Procedure: Meter Data Process	Pre-Dispatch (SO_OP_3704)
CATS Procedures	Short Term Reserve Assessment (SO_OP_3703)
Metrology Procedure: Part A	Glossary (SO_OP_2000)
Metrology Procedure: Part B	Load Forecasting (SO_OP_3710)
Service Level Procedure (ENM)	Power System Security Guidelines (SO_OP_3715)
Service Level Procedure (MDP)	Treatment of Dispatchable Loads in the NEM (Guide to Scheduled Load)
Service Level Procedure (MP)	Publication of HistDemand Data - Business Specification
WIGS Procedures	Operation of the Intervention Price Provisions in the NEM
Spot Market Operations Timetable	Standing Data for MSATS
NEM Settlement Estimates Policy	B2B Accreditation and Revocation
Credit Limits Procedures	NMI Procedures
Market Suspension Compensation Methodology	B2B Guide
Demand Side Participation Information Guidelines	B2B Procedure: Technical Delivery Specification
	Settlement Estimation Guide
	Baseline compliance guideline

WDR key contacts

Stakeholder
Engagement Lead

Emily Brodie

Project Business
Lead

Ruth Guest

Project Manager

Chris Espinoza

WDR Guidelines
Lead

Greg Ruthven

Retail and
Operations Lead

Gareth Morrah

Demand Side
Participation Lead

Magnus Hindsberger

Settlements and
Prudentials Lead

Katalin Foran



Contact us via wdr@aemo.com.au

AEMO's WDR project: Stakeholder engagement approach

Emily Brodie

Stakeholder engagement approach (1)

Choice and transparency

- Flexible range of engagement opportunities depending on participants' goals, timeframes and resources
- Recognises that different aspects of the WDR implementation program can require different approaches and that stakeholder needs can change over time
- Provides publicly-available, detailed and timely information on WDRM implementation

Stakeholder engagement approach (2)

For NEM participants or intending NEM participants who will be participating in or impacted by WDR.

Engagement option	Purpose	Level of involvement	Information
WDR CG	<ul style="list-style-type: none"> Provide co-ordinated view of WDRM implementation Enable two-way dialogue between AEMO and industry to identify, address and resolve WDR implementation issues 	<ul style="list-style-type: none"> Monthly meetings, ~2 hours duration plus time for preparation and responding to actions June 2020 to ~October 2021 	Meeting packs and notes: <ul style="list-style-type: none"> distributed to WDR CG members published on website
Technical working group/s	<ul style="list-style-type: none"> Provide expertise on specific elements of WDR implementation 	<ul style="list-style-type: none"> Anticipate only needing one TWG for pre-consultation on WDR guidelines ~2-4 meetings TBC as required, likely 2-4 hours duration, plus time for preparation and responding to actions 	Meeting packs and notes: <ul style="list-style-type: none"> distributed to WDR CG members distributed to TWG members published on website
Procedures and guidelines consultations (rules-based)	<ul style="list-style-type: none"> Formal consultation 	<ul style="list-style-type: none"> Provide submissions to consultation papers and draft determinations as desired. Consultation periods are >2 weeks 	<ul style="list-style-type: none"> Consultation timing provided to WDR CG in advance to assist in planning
Dedicated mailbox	<ul style="list-style-type: none"> Provide coordination point for WDR implementation program Connect participants with the correct AEMO representative to assist with questions or suggestions 	<ul style="list-style-type: none"> As needed Participant driven 	<ul style="list-style-type: none"> Distribution of program information Two-way exchange of feedback Confidential email exchanges between AEMO and participants
One-to-one meetings	<ul style="list-style-type: none"> Provide guidance, where appropriate and feasible, 	<ul style="list-style-type: none"> As needed Participant driven 	<ul style="list-style-type: none"> Confidential discussion
Q & A sessions	<ul style="list-style-type: none"> Provide AEMO SME assistance on specific WDR implementation topics 	<ul style="list-style-type: none"> 30-60mins as needed. Will be guided by WDR CG on appropriate content and timing. 	<ul style="list-style-type: none"> No agenda, pack or notes Opportunity for participants to ask questions.

Stakeholder engagement approach (3)

For anyone who is interested in WDR and its implementation.

Engagement option	Purpose	Level of involvement	Information
Information sessions	<ul style="list-style-type: none"> Provide high-level, transparent, timely information on WDRM implementation 	<ul style="list-style-type: none"> 1-2 hours every 3-4 months 	Meeting packs and notes: <ul style="list-style-type: none"> distributed to attendees published on website
NEM WCF and Consumer Forum	<ul style="list-style-type: none"> Provide high level updates on WDR implementation 	<ul style="list-style-type: none"> 10-15minutes at quarterly meetings 	Meeting packs and notes: <ul style="list-style-type: none"> distributed to NEM WCF members published on website
Dedicated project web pages	<ul style="list-style-type: none"> Provide detailed, transparent, timely information on WDRM implementation 	<ul style="list-style-type: none"> As needed Participant driven 	<ul style="list-style-type: none"> Publicly available information Detailed, transparent, timely information on WDRM implementation

WDR CG overview

WDR CONSULTATIVE GROUP

Providing a co-ordinated view of WDR project elements

TWO-WAY FEEDBACK

Technical Working Group
WDR Guidelines

Electricity Retail Consultative Forum
Retail/metering procedures

Information Exchange Committee
B2B procedures

NEM Wholesale Consultative Forum
System operations procedures

Forecasting Reference Group
Demand side participation guidelines

WDR CG:
Project schedule

FORMAL
CONSULTATION

Procedures and
guidelines
consultations
(under NER 8.9)

WDR-CG objectives

- To enable effective consultation between AEMO and stakeholders on matters relating to the WDRM's implementation
- To provide stakeholders and AEMO with the opportunity to raise and address issues relating to document changes and development required as a result of the WDRM rule
- To provide stakeholders with an opportunity to share information and insights that will contribute to achieving WDRM objectives

WDR-CG scope

The following activities are the core scope of the WDR-CG:

- Consider issues and provide feedback for relevant documentation changes. This applies specifically to the procedure changes and guideline and methodology development that are required by and as a result of the WDRM rule
- Monitor progress of relevant WDRM documentation changes and development
- Contribute to and provide feedback on the development of WDR system and settlement reconciliation reporting, including consideration of system testing/market trial
- Monitor progress of project milestones
- Provide guidance to and oversight of WDRM working group
- Facilitate discussions on program issues.

Specific technical working groups may be formed as required to contribute to the areas above. For example, to contribute to the development of the WDR guidelines required by the WDRM rule.

WDR-CG participation & expectations

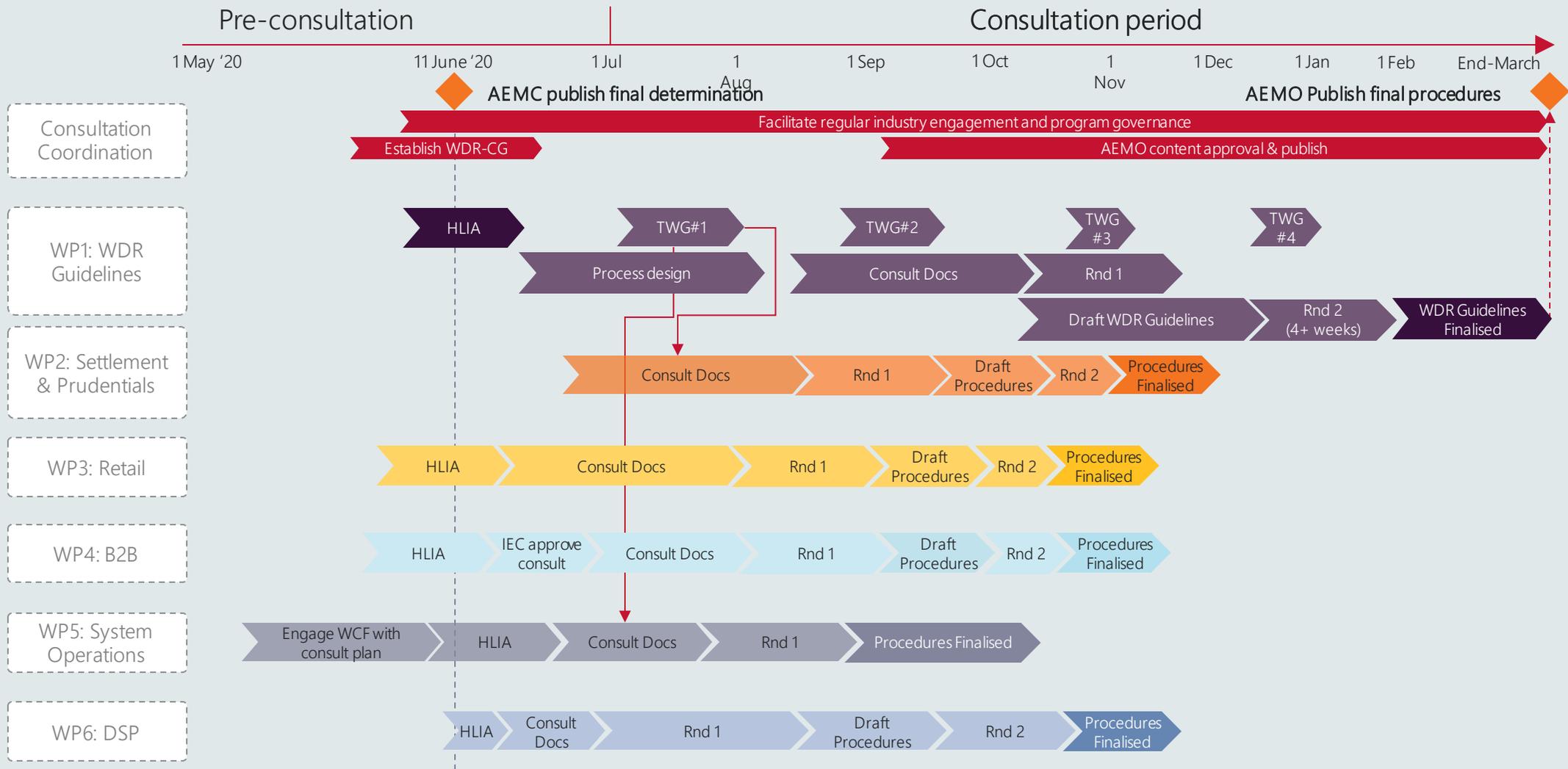
AEMO expects WDRM-CG members to:

- Have a thorough understanding of the NEM and the WDRM program
- Have a detailed understanding of their own program's timelines, deliverables and business impacts and how their program interfaces with AEMO's program
- Be prepared to participate in discussion and provide detailed responses to matters under discussion
- Have the authority to consider consultative group matters and provide official views and commitments on behalf of their business
- Provide consultative group outcomes back into their business.

Work package summary

Work Package (WP)	Forum	Impact
WP1: WDR Guidelines	<ul style="list-style-type: none">• WDR CG• Technical working group	High
WP2: Settlement & Prudentials	<ul style="list-style-type: none">• WDR CG	Low
WP3: Retail	<ul style="list-style-type: none">• Electricity Retail Consultative Forum	Low
WP4: B2B	<ul style="list-style-type: none">• Information Exchange Committee• B2B WG	Low
WP5: System Operations	<ul style="list-style-type: none">• NEM Wholesale Consultative Forum	Low
WP6: Demand Side Participation	<ul style="list-style-type: none">• Forecasting Consultation WG	Low

Indicative Consultation Schedule



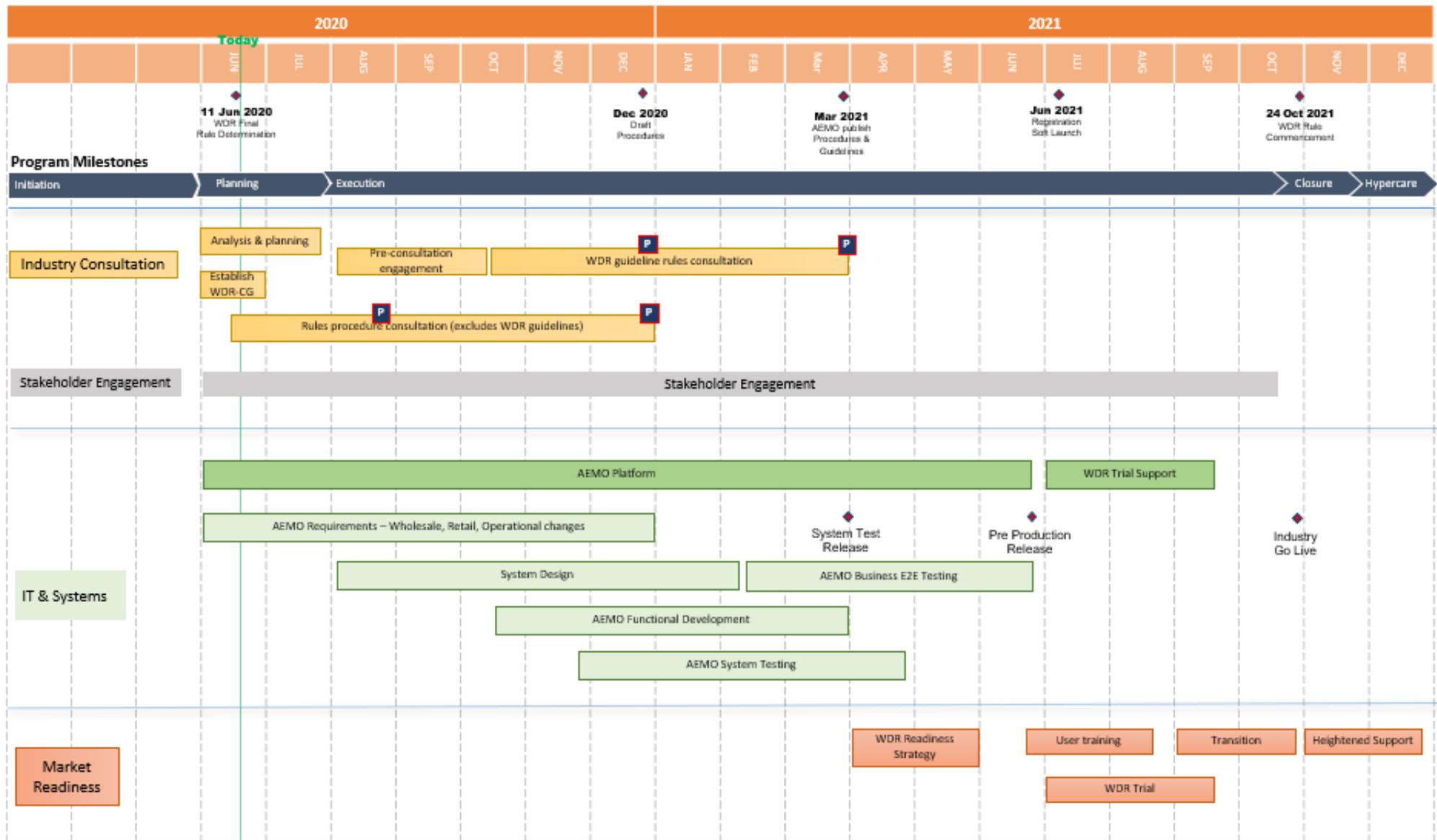
Seeking WDR CG feedback

- Engagement approach
- Draft WDR CG terms of reference

AEMO's WDR project: High-level program schedule

Chris Espinoza

Program overview (DRAFT)



Approach and assumptions

- The Program Overview is in a Draft state. In the next period, the project team will focus on planning industry facing deliverables e.g. tech specs.
- WDR project team is acutely aware of the changes from other NEM reforms e.g. from 5MS. WDR program is monitoring for dependencies and implementation efficiencies.
- Short time to deliver WDR means a keen focus on running the Program efficiently. AEMO's view is that it is appropriate to develop requirements up front in parallel with consultations with contingency for re-write.
- A significant number of procedures only require minor updates to accommodate WDR. To be discussed in later agenda items.

Approach to developing the WDR guidelines

Greg Ruthven

Scope of WDR guidelines – clause 3.10.1(a)

WDR guidelines must be made by no later than 21 June 2021

	Description
1	Requirements for classification & aggregation of WDRUs
2	Process for developing baseline methodologies, including new proposals
3	Process to apply baseline methodology and baseline settings to a WDRU
4	Process to change the maximum responsive component of a WDRU
5	Arrangements for providing details applicable to a WDRU (baseline methodology/settings, maximum responsive component)
6	Telemetry and communications equipment requirements
7	Methodology for regional non-SCADA telemetered thresholds
8	Any other WDR Guidelines items, which may include: <ul style="list-style-type: none">- Baseline methodology metrics- Baseline compliance testing

Approach and indicative timing

Approach		Indicative key dates
Overall approach	<ul style="list-style-type: none"> Rules consultation 2 formal consultation rounds <ul style="list-style-type: none"> Consultation paper with detailed process explanation Extended 2nd round consultation on draft guideline 	Jul 20 to Mar 21
Considerations/issues	<ul style="list-style-type: none"> New processes and guidelines Christmas/New Year break 	
Pre-consultation	New WDR technical working group	2 meetings between late Jul & Sep

Stage	Indicative key dates
Consultation paper	Oct 20
Round #1 consultation	Nov 20
Draft procedures	Dec 20
Round #2 consultation	Jan/Feb 21
Final guidelines	Mar 21

Technical working group

- First meeting – late July/early Aug
- Draft terms of reference
 - Scope of group: provide input into design of new processes that will be described in consultation paper, documented in WDR guidelines
 - Potential to discuss technical matters raised in submissions
 - Attendees expected to have thorough understanding of NEM and WDRM program; be prepared to engage in discussions on new processes
- Call for nominations:
 - Open from Tue 23 June to Tue 7 July
 - Sought via WDR CG, NEM WCF and AEMO communications e-newsletter.

BREAK

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Approach to updating procedures: Settlements and prudentials

Katalin Foran

Settlements and prudentials: Affected procedures (1)

Affected procedures*	Impact
Credit Limits Procedures	TBD: system impact may be minimal, but depending on how we treat prudential requirements for DRSPs procedural/process impacts may be higher.
NEM Settlement Estimates Policy	Low: process impact/terminology update only, no systems impact.

*AEMO may include additional procedures if required.

Approach - Credit Limits Procedures		Indicative key dates
Overall approach	<ul style="list-style-type: none"> Rules consultation 2 consultation rounds 	Jul to Dec 20
Considerations/ issues	<ul style="list-style-type: none"> What is the appropriate level of credit support for DRSPs given negative DR in Rules? If credit support requirements for DRSPs > \$0, how will DRSPs be integrated into current procedures/processes? Are there any consequential changes to credit support requirements/processes for retailers? 	
Pre-consultation	Discuss high-level approach with WDR CG	Jul to Dec 20

Settlements and prudentials: Affected procedures (2)

Approach - NEM Settlement Estimates Policy		Indicative key dates
Overall approach	<ul style="list-style-type: none"> Rules consultation 1-2 consultation rounds (TBC depending on complexity of updates) 	Jul to Dec 20
Considerations/ issues	Terminology update only.	
Pre-consultation	Most likely not required.	

Stage	Indicative key dates
Consultation paper	Late Aug 20
Round #1 consultation	Mid Oct 20
Draft procedures	Mid Nov 20
Round #2 consultation	Late Nov 20
Final procedures	Mid Dec 20

Approach to updating procedures: Retail

Gareth Morrah

Retail: Affected procedures

*AEMO may include additional procedures if required.

	Affected procedures*	Impact
1	CATS Procedures	Low: Review and add new DRSP Participant Role as required
2	Metrology Procedure: Part A	Low: Review and add new DRSP Participant Role as required
3	Metrology Procedure: Part B	Low: Review and add new DRSP Participant Role as required
4	Service Level Procedure (ENM)	Low: Review and add new DRSP Participant Role as required
5	Service Level Procedure (MDP)	Low: Changes to paragraphs to allow the DRSP to be a participant entitled to metering data.
6	Service Level Procedure (MP)	Low: Review and add new DRSP Participant Role as required
7	WIGS Procedures	Low: Review and add new DRSP Participant Role as required
8	Retail Markets Glossary & Framework	Low: Addition of DRSP Participant Role and any other associated terminology editioning or changes as a result of other Procedure/SLP updates.
9	Standing Data for MSATS	Low: Review and add new DRSP Participant Role as required
10	NMI Procedures	Low: Review and add new DRSP Participant Role as required

Retail: Affected procedures

Approach		Indicative key dates
Overall approach	<ul style="list-style-type: none"> Rules consultation 2 consultation rounds 	Jul to Dec 2020
Considerations/issues	Bundling consultations with other market changes Packaging procedures	
Pre-consultation	Electricity Retail Consultative Forum (ERCF)	Meetings held once a quarter

Stage	Indicative key dates
Consultation paper	17 Jul 20
Round #1 consultation	21 Aug 20
Draft procedures	18 Sep 20
Round #2 consultation	2 Oct 20
Final procedures	13 Nov 20

Approach to updating procedures: B2B

Gareth Morrah

B2B: Affected procedures

Affected procedures*	Impact
B2B Procedure: Meter Data Process	Low: inclusion of DRSP as a B2B party, PMD transaction

*AEMO/IEC may include additional procedures if required.

Approach		Indicative key dates
Overall approach	<ul style="list-style-type: none"> Rules consultation 2 consultation rounds 	TBA – IEC process
Considerations/issues	<ul style="list-style-type: none"> IEC has governance over B2B procedures. IEC briefed at the last meeting (May) 	
Consultation	<ul style="list-style-type: none"> Information Exchange Committee B2B Working Group 	IEC meets each quarter.

Stage	Indicative key dates
Consultation paper	TBA
Round #1 consultation	TBA
Draft procedures	TBA
Round #1 consultation	TBA
Final procedures	TBA

Approach to updating procedures: System operations

Gareth Morrah

System operations: Affected procedures

Affected procedures*	Impact
Power System Security Guidelines (SO_OP_3715)	Low: procedural only
Intervention, Direction and Clause 4.8.9 instructions (SO_OP_3707)	Low: include an ancillary service load in the definition of scheduled plant.
Spot Market Operations Timetable	Low: DRSP's obligation and timeline, AEMO's obligation to publish information in relation to WDR

Approach		Indicative key dates
Overall approach	<ul style="list-style-type: none"> Rules consultation 1 or 2 consultation rounds 	Jul to Dec 2020
Considerations/issues	If changes are minor or administrative, may only require single round of consultation	
Pre-consultation	NEM Wholesale Consultative Forum	

*AEMO may include additional procedures if required.

System operations: affected procedures

Stage	Indicative key dates
Consultation paper	17 Jul 20
Round #1 consultation	21 Aug 20
Draft procedures	18 Sep 20
Round #2 consultation	2 Oct 20
Final procedures	13 Nov 20

Approach to updating procedures: Demand-side participation

Magnus Hindsberger

Demand-side participation: Affected procedures

*AEMO may include additional procedures if required.

Affected procedure*	Impact
Demand Side Participation Information Guidelines	Low: terminology updates and minor additions to data collection requirements to allow WDR forecasts to be developed for use in MTPASA and ESOO.

Approach		Indicative key dates
Overall approach	<ul style="list-style-type: none"> Rules consultation 2 consultation rounds 	July to Dec 20
Considerations/issues	<ul style="list-style-type: none"> Requesting future DSP to be tagged as likely WDR source to help forecasting WDR for MTPASA/ESOO. The consultation will be bundled with changes relating to RRO and will consider rationalising with DER register data collection to ensure AEMO capture all the information required, but only once between the two processes. 	
Pre-consultation	Forecasting Reference Group	26 Aug 20

Demand-side participation: Indicative dates

Stage	Indicative key dates
Consultation paper	16 Jul 20
Round #1 consultation	20 Aug 20
Draft guidelines updates	17 Sep 20
Round #2 consultation	1 Oct 20
Final guidelines	29 Oct 20

Forward meeting plan

Emily Brodie

Upcoming WDR CG meetings

Meeting	Meeting Date
WDR CG #2	Tue 21 Jul 20
WDR CG #3	Tue 18 Aug 20
WDR CG #4	Tue 22 Sep 20
WDR CG #5	Tue 20 Oct 20
WDR CG #6	Tue 17 Nov 20
WDR CG #7	Tue 15 Dec 20

- **Discussion:** What topics or issues do members wish to have on future WDR CG agendas?



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

General questions

Ruth Guest

