

May 2022 Readiness Working Group #2

Tuesday, 14 December 2021

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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
- 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

Greg Minney

Agenda

#	Time	Торіс	Presenter
1	10:00 – 10:05	Welcome and Agenda	Greg Minney
2	10:05 – 10:10	Actions	Anne-Marie McCague
3	10:10 - 10:20	Program Update	Greg Minney
4	10:20 – 10:30	MCPI & MSDR update	Blaine Miner
5	10:30 – 10:40	Approach to GS Transition (Update)	Paul Lyttle
6	10:40 – 10:50	Industry Test Focus Group Update	Tui Grant
7	10:50 – 11:00	UFE Focus Group Update (UFE FG)	Greg Minney
8	11:00 – 11:15	Industry Risk and Issues	Greg Minney
9	11:15 – 11:20	Forward Plan and Other Business	Greg Minney
10	11:20 - 12:00	Questions	Greg Minney
11	12:00	Meeting Close	Greg Minney



Actions

Anne-Marie McCague

Actions

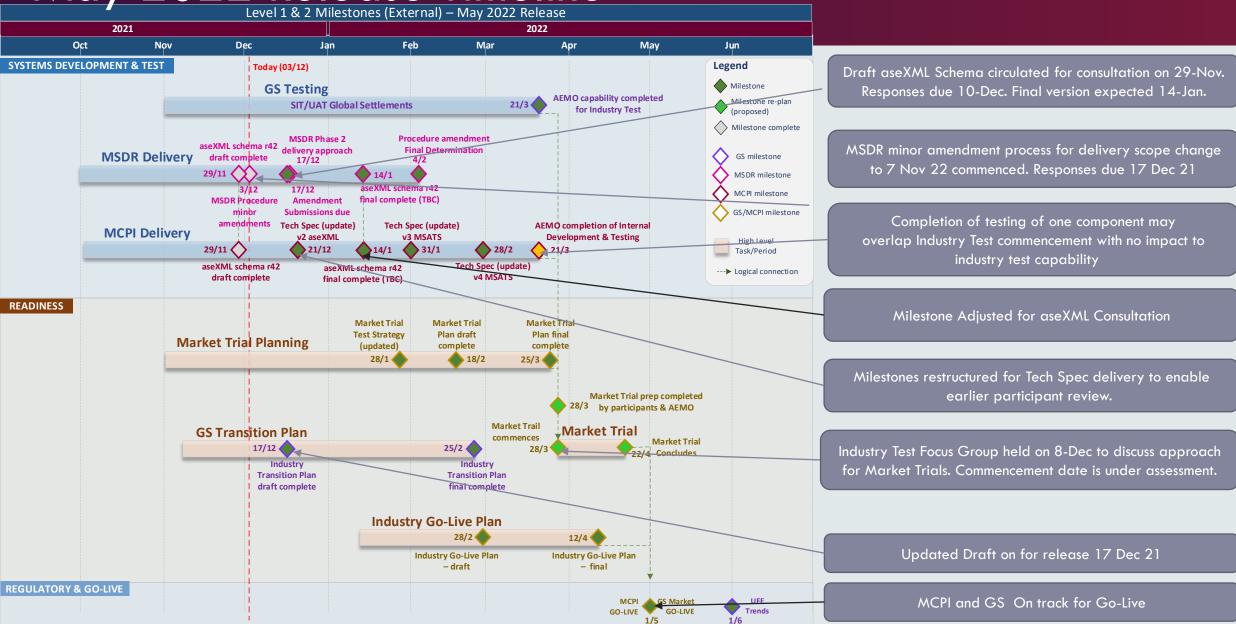
ID	Status	Action	Comment
1.3.1	Closed	AEMO will share the r42 schema approach to industry via May 2022 webpages on its website.	AEMO maintains a webpage for the aseXML Schema. https://aemo.com.au/en/energy-systems/market-it-systems/asexml-standards/asexml-schemas
1.4.1	Closed	ICF inclusions and exclusions to be included in this meeting notes document.	Circulated with RWG meeting notes
1.4.2	Closed	A further update of r42 schema changes to be provided to industry when the draft is approved by the ASWG.	Update was circulated to RWG on 29 Nov 21
1.4.3	Closed	AEMO to provide an update on technical questions around the changes for 1 May as part of May 2022 Readiness Working Group #2 on 14 December 2021.	Update to be provided on the MSDR project during this session plus approach for MSDR FG
1.4.4	Closed	AEMO to provide a single document on scope for 1 May 2022.	Will distribute Functionality Deployment Matrix which will be the key delivery scope document.
1.4.5	Closed	AEMO is in the process of replanning as part of the split of MSDR delivery between 1 May 2022 and 7 November 2022. Dates for market trials ahead of 7 November 2022 will be provided when replanning activities are complete.	Industry test will be documented as part of the delivery approach for MSDR due on 17 Dec 21
1.5.1	Closed	RWG to notify AEMO of changes to membership lists as a result of discontinuing the TFG.	Further changes can be made at anytime by contacting GSMSDR@aemo.com.au
1.5.2	Closed	RWG to give feedback on dates and scope for May 2022 market trials, currently planned to run from 28 March 2022 to 22 April 2022.	To be discussed at IT FG on 8 Dec



May 2022 Program Update

Greg Minney

May 2022 Release Timeline
Level 1 & 2 Milestones (External) - May 2022 Release



May 2022 Milestone List (1/3)

ID	Description	Workstream	Date	Owner	Update
L2-MS/MC- 01	Draft aseXML Schema r42 (includes MSDR and MCPI) presented to ASWG	MSDR / MCPI	12-Nov-21 29 Nov 21	AEMO	r42 draft issued 29 November, consultation closes 10 December
L2-MS-02	MSDR Procedure minor amendments process commences	MSDR	03-Dec-21	AEMO	Complete
L2-MS/MC- 03	Final aseXML Schema r42	MSDR / MCPI	10-Dec-21 14-Jan- 22 (TBC)	AEMO / ASWG	Revised date for r 42 schema finalisation, post consultation which closes 10 th December. Release Date subject to consultation feedback.
L2-RE40	Industry Transition Plan - GS (Draft update)	GS	17-Dec-21	AEMO	On track for release. Approach update included in this RWG
L2-MS09	MSDR Procedure minor amendments submissions due	MSDR	17-Dec-21	Participants	
L2-MS05	MSDR Phase 2 delivery approach	MSDR	17-Dec-21	AEMO	On-Track, will result in expanded MSDR Delivery milestones
L2-MC04	Tech Spec update v2 — MCPI CR Processing - aseXML edits	МСРІ	13-Jan-22 21Dec-21	AEMO	MCPI CR processes only, BUT deliverables addressed under separate milestones
New	Tech Spec update v3 – MCPI CR Processing - MSATS Config Changes	МСРІ	31 Jan -22	AEMO	MCPI CR processes only, BUT deliverables addressed under separate milestones
New	Tech Spec update v4 – MCPI CR Processing - MSATS Code Changes	МСРІ	28 Feb-22	AEMO	MCPI CR processes only, BUT deliverables addressed under separate milestones
L2-RE37	May Release Industry Test Strategy	GS / MCPI	28-Jan-21	AEMO / Participants	Incorporate feedback from ITWG re scope and approach
L2-MS10	MSDR Procedure amendment Final Determination	MSDR	04-Feb-21	AEMO	May be finalised earlier 9

May 2022 Milestone List (2/3)

ID	Description	Workstrea m	Date	Owner	Update
L2-MC06	User Guides Updates (CR processing)	MSDR	-(TBC)	AEMO	Will not be issued for MCPI / May release, all changes incorporated into release for MSDR/
L2-RE38	Market Trial Plan - Draft	GS / MCPI	18-Feb-22	AEMO/ Participants	In line with Test Strategy
L2-RE41	Industry Transition Plan -GS (Final)	GS	28-Feb-22	AEMO	
LZ-KE4Z	AEMO capability completed for Market Trial / Industry Test	GS / MCPI	21-Mar-22	AEMO	
TBC	MCPI/MSDR Data Transition Plan	MCPI/ MSDR	TBC	AEMO	New milestone, for bulk updates and timings
ТВС	MCPI/MSDR Data Transition Plan	MCPI/MSDR	ТВС	AEMO	New milestone to provide approach for bulk update interfaces
L2-MC07	AEMO completion of Internal Development and testing	МСРІ	21-Mar-22	AEMO	
L2-RE39	Market Trial Plan - Final	GS / MCPI	25-Mar-22	AEMO/ Participants	
L2- RE26/27	Market Trial Preparation completed	GS / MCPI	28-Mar-22	AEMO/ Participants	Analysis in progress to confirm earlier start date
L1-18	Market Trial Commencement	GS / MCPI	28-Mar-22	AEMO / Participants	
L2-RE21	May Release Go-Live Plan - Final	GS / MCPI	12-Apr-22	AEMO	

May 2022 Milestone List (3/3)

ID	Description	Workstrea m	Date	Owner	Update
L1-20	Market Trial Completion	GS / MCPI	22-Apr-22	AEMO/ Participants	
L1-5	GS and MCPI Go Live	GS / MCPI	01-May-22	AEMO/ Participants	
L1-23	Trends in UFE Report	GS	01-Jun-22	AEMO	
L1-24	Guidelines for UFE Reporting Framework	GS	01-Mar- 23	AEMO	



MCPI & MSDR Update

Blaine Miner

Consultation Update

- Consultations
 - ASEXML r42
 - Draft published to AEMO's website for comment Monday 29 Nov 2021
 - Comments closed Friday 10 Dec 2021
 - Feedback now being considered by the ASWG
 - MSDR Date Change Minor Amendment
 - Consultation published to AEMO's website Friday 3 Dec 2021
 - Submissions close Friday 17 Dec 2021
 - Final Determination to be published by Friday 4 Feb 2022
 - Retail Electricity Market Procedures October 2021 (REMP)
 - Consolidation of GS, MCPI, MSRD and ERCF items
 - Draft report published, including associated Procedures, to AEMO's website Monday 6 Dec 2021
 - Closing Date for Submissions Tuesday 21 Dec 2021
 - Final Determination to be published by Monday 31 Jan 2022
 - Outcome of the Minor Amendment process will be reflected in the REMP Final Determination Procedures

MSDR Focus Group

- Purpose
 - To provide a forum for Industry and AEMO to consider key milestones, transitions and mechanisms associated to the successful implementation of MCPI and MSDR
- Membership:
 - Open to all participants, with a focus on those areas directly impacted by MCPI and MSDR
 - The expectation is that all nominated members will be familiar with the concepts, obligations and requirements of MCPI and MSDR
- Meeting frequency
 - As required
- Nominations now open
 - Nominations close 14 Jan 2022
 - First meeting expected to occur the last week of Jan 2022
- Areas of focus include:
 - Participant obligations
 - MCPI go-live (1 May 2022)
 - Schema go-live (1 May 2022)
 - Establishment and execution of the Data Transition Plan
 - Population of fields associated to existing NMIs
 - Development of the User Guide
 - MSDR go-live (proposed to be 7 Nov 2022)



Approach to Global Settlements Transition

Paul Lyttle

Suggested scope

- Summary of approach as previously communicated and any updates from current round of testing
- Flag updated draft for distribution 17th December
- Are we going to take feedback on approach post this draft? My suggestion would be this is refresh/confirmation of approach – not expecting to change fundamentals

Flag issue of draft plan update

Global Settlement Process

What does the Global Settlement Rule change mean to participants

- Every connection point that generates, consumes or transfers energy within the NEM will be registered and provide reads
- AEMO will settle the NEM to each NMIs reads for each FRMP
 - This means the Local Retailer (LR) will no longer be responsible for energy registered for their Local Area

How does AEMO intend to support the change

- AEMO will create a new Participant Id of "GLOPOOL"
- The GLOPOOL participant id will be assigned to each Connection Point with a direct connection to each Local Area
 - This Includes:
 - Updating the LR participant id for all distribution direct connected NMIs
 - Updating the FRMP participant id for all boundary load NMIs
 - Updating the FRMP and LR Participant ids for all cross boundary NMIs
 - What is excludes from the updates:
 - Any NMIs that are directly connected to the transmission network, these will have a LR participant ID of '%POOL'
 - Any Embedded Network Child NMIs, these will have a value in the embedded network child field
- The update of the LR Participant Code to GLOPOOL effectively changes all Tier1 NMIs (FRMP = LR) to Tier2 NMIs (FRMP <> LR)

Participant change approach

AEMOs approach for updating to the GLOPOOL participant id was released as a in Feb 2021.

- An updated version will be released on 17 December 2021
- A Final Version is scheduled for release in Feb 2022

Update Approach

- Pre update:
 - Request participants to stop raising NMI Create change requests
- On 2 May 2022 AEMO will update the LR for all NMIs directly connected to a Distribution Network with a start date of 1 May 2022
 - No market notifications will be set to Participants.
- On completion of the LR role change the relevant FRMP changes will be processed with a start date of 1 May 2022
 - · Notifications will be provided for the FRMP role change.
- Post Update:
 - Advise participants NMI Creations can resume.
- A reconciliation report will be produced for each Participant Id, who had registered to receive the reconciliation file
 - Details of registration process will be provided at a later date
 - Reconciliation files will be provided to Participant Ids within 3 days of the completion of the update process.
- Participants to determine the best option for them to update their internal systems.
 - Perform a system update of their system and reconcile using the file.
 - Update their systems using the reconciliation file as an input
 - Process system updates using another method.



Industry Test Focus Group Update

Tui Grant

ITWG/ Market Trial Planning

- Industry Test Focus Group (ITFG) held on 8-Dec-21 to discuss approach to Market Trial
- Registration for Market Trials to be circulated
- Market Trial Test Strategy will be circulated on 28 Jan 22
 - Scope of Market Trial to focus on GS Invoicing, GS Transition and update, Selected transaction for schema update,
 - Industry/Bi-lateral testing approach for MCPI changes, metering delivery scenarios re LR/FRMP post GS go-live
 - AEMO to progress investigation of Market Trial commencement week earlier (GS transition to run from 27 March) and alignment of data refresh results to be communicated with ITWG in Jan



UFE Focus Group Update

Greg Minney

UFE Focus Group Update

- Second meeting of the UFE FG held Friday 3 Dec 2021
- Well attended with 50+ participants joining the session
- Agenda
 - Key Issues for Industry
 - 5MLP Spikes,
 - Metering Data Quality
 - Progress on Areas since Go Live
 - Interpretation of settlement and RM Reports particularly in relation to "Negative" UFE
 - Local area Reviews:
 - identification of Standing Data anomalies resulting in strange patterns in UFE
 - · Local Areas (eg NSWGRID, QLDGRID) that were not expected to have UFE Calculated
 - AEMO short Term Priorities
 - Resolution of major data quality issues as part of Settlement revision cycle
 - Completion of Local Area analysis to identify major issues
 - Supporting completion of residual Participant led population activities
 - MDP liaison to achieve improved metering data quality and completeness
- Next meeting to be scheduled for late Jan
 - RWG / UFE Focus Group members to forward key agenda items

Status of Global Settlement data updates

Below is a list of Participant related changes – Scheduled for UFE soft start 1/10/2021

- Create NMIs and activate datastreams, this includes:
 - Non Contestable Unmetered Loads NCONUML (102,332 registered)
 - Tier 1 Basic NMIs and Datastreams (460 currently with NO registered datastreams)
 - Cross Boundary connection points XBOUNDRY (39 complete, 13 need standing data update, 48 Still to be registered = 100)
- Standing Data Updates
 - Update Boundary loads from WHOLESAL to BULK (941 complete, approx. 272 need standing data update)
 - Update WHOLESAL NMIs connected to a distribution network to DWHOLSAL (None identified)
 - Update GENERATR NMIs to NREG where the FRMP Participant ID ends in "SGA" (15 Active, 1 Inactive, 90 Greenfield)
- 5 Minute Meter Data
 - Update the Read Type Code all 5 minute capable meters to have a 4th character of 'A'
 - Deliver 5 Minute reads for all of the following connection types:
 - COMMS1
 - COMMS2

121 with incorrect RTC code.

- COMMS3
- COMMS4 where the NMI Class Code is GENERATOR or NREG
- COMMS4C where the NMI Class Code is GENERATOR or NREG
- COMMS4D where the NMI Class Code is GENERATOR or NREG

1 with incorrect RTC code.



Industry Risks and Issues Review

Greg Minney

Approach to the risk review

- Relevant risks from the 5MS Industry Risks and Issues Register have been carried over
- Two participants provided their identified risks and these have been included in the following slides
- Approach for today's session:
 - Is this risk relevant for May 22 go-live?
 - Do we have appropriate controls in place?
 - Is the rating appropriate?
- Risks raised relating to Nov 22 go-live will be managed through the MSDR FG to ensure that the RWG focuses on the May release

Readiness Risks

ID	Description	Inherent Rating	Controls/Comments	Residual Rating
R1	Small participant readiness Small participants are not adequately engaged due to resource limitations, resulting in small participants not having the ability or the information to execute their programs.	Likelihood: Possible Consequence: Minor Rating: Medium	 AEMO completed a number of rounds of small participant mailouts Relevant FRMPs will have started to see UFE as a line item on their bill and should be aware of the changes Rule commencement does not require a critical mass of participant readiness 	Likelihood: Unlikely Consequence: Minor Rating: Low
R2	Resources Constraints over summer period There is a risk that there will be resource constraints over the summer period, particularly given the impact of covid and the intensity of 5MS, Customer Switching & WDR commencements. This could impact participant delivery plans for 1 May 2022	Likelihood: Possible Consequence: Moderate Rating: Significant	 Participants to manage their resource schedule and implementation plans Industry Test and Market Trials have been scheduled after the summer period where aligned resource delivery is required Scope of MSDR delivery removed from May release 	Likelihood: Unlikely Consequence: Moderate Rating: Medium
R3	The AEMO business and operations are not ready for GS and MCPI on 1 May 22 The AEMO business may not be ready to deliver the full extent of the 5MS deliverables by 5MS and GS rule commencement	Likelihood: Possible Consequence: Major Rating: Significant	 L1 and L2 milestones have been established. Updated milestones pack is published monthly on the 5MS/GS webpages. GS rule commencement is incremental to 5MS implementations, Business 	Likelihood: Unlikely Consequence: Major Rating: Medium

timings

resources are in place supporting current settlement processes

manage impacts on production operations

• AEMO to report monthly on progress, risks and issues through RWG.

• Transition approaches to be tested with industry during Market Trial

· Cutover Planning including trial transitions to prove expected timings and

• Industry Go-Live Plans to be developed to establish production operation

• Participants to manage their resource schedule and implementation plans

including business processes and resource training, results in failure of Go Live for 5MS and GS Program Risk of AEMO cutover failure Likelihood: Possible There is a risk that AEMO systems will not go-live as scheduled Consequence: Major with the planned cutover window resulting in an impact to Rating: Significant participants' processes and market operations

Resource constraints due to volume of market change There is a risk that the key resources needed to focus on the

including 5MS and re-platforming of AEMO systems.

R4

R5

Likelihood: Possible Consequence: Major upcoming rule changes are not able to do so due to these Rating: Significant ongoing production defects as a result of recent changes

Rating: Medium TBC based on industry discussion

Likelihood: Unlikely

Consequence: Major

aseXML Schema r42 May Risks

ID	Description	Inherent Rating	Controls/Comments	Residual Rating
R6	Insufficient time for industry development for r42 The industry consultation for r42 will push to beyond 10-Dec-21 and therefore into the end of year shutdown period. There is a (low) risk that the industry will not pick up the final r42 files in time for internal development and testing ahead of market trials.	Likelihood: Unlikely Consequence: Minor Rating: Low	• Functionality testing of new / changed fields beyond Shared Isolation Point Field not required prior November 7 release	Likelihood: Unlikely Consequence: Minor Rating: Low
R7	There is a risk that the schema cannot be sufficiently tested in May-22 as participants won't be ready to test all fields in the schema as/if a sufficient number of participants by role (FRMP, DNSP, MDP) is not ready to engage in testing. Specific focus needs to also be on 'negative testing', i.e. AEMO to not update fields even if provided.	Likelihood: Unlikely Consequence: Minor Rating: Low	• The only field to be communicated for May-22 is the Shared Isolation Point Field. Other changes will not be activated in B2M process prior to 7 th November	Likelihood: Unlikely Consequence: Minor Rating: Low
R8	Late changes to the schema or procedural documents may result in rework and put regulatory timeline at risk	Likelihood: Unlikely Consequence: Moderate Rating: Medium	 R42 schema has undergone extensive consultation through the ASWG and an open industry consultation. It is not expected that there will be additional changes post the final version being issued for the May release. Procedure consultations took place in 2019 and a consolidation process is due for completion on 31-Jan-21. 	Likelihood: Unlikely Consequence: Minor Rating: Low
R9	Inconsistencies between schema and procedural documents may cause confusion, delays and rework and put regulatory timeline at risk	Likelihood: Unlikely Consequence: Minor Rating: Low	 Risk for May is low as only changes is the Shared Isolation Point Flag. Risk for November may be higher. 	Likelihood: Unlikely Consequence: Minor Rating: Low

Issues

ID	Description	Actions	Rating
11	Schema update to r42 at same time as data update for Global Settlements role field from "LR" to "GLOPOOL" for all NMIs adds to risk of Go-Live activities	AEMO to understand the dependencies for participants. Both changes are required for MCPI and GS delivery.	TBC

Next Steps

- Industry Risks and Issues Register will be updated and published on the website
- Key risks will be reviewed on a monthly basis with new risks and issues being added as the arise
- Risks related to the Nov-22 go-live will be discussed through the MSDR FG
- RWG to provide any additional feedback on risks to GSMSDR@aemo.com.au



Forward Planning & Other Business

Greg Minney

Indicative RWG Topic Schedule

Month	RWG
November	✓ Scope and governance confirmation ✓ Plan on a page/Milestone review ✓ Discuss key dependencies, risks and issues
December	 ✓ Confirmation of key risks, issues and dependencies ✓ Test Strategy and trial approach ✓ Approach to GS Transition ✓ Progress updates
January	 Review milestone progress Review GS Transition Plan Tech Spec Approach (For MCPI) Nov-22 Plan
February	 Review milestone progress, risks and issues Tech Spec Review / questions Discuss key topics Consider escalating items
March	 Review milestone and transition plan progress Review risk and issues Discuss the proposed Industry Go-Live Plan Review and endorse Release Test Strategy/Plan
April	 Review milestone and transition plan progress Receive Industry Testing Planning Update Finalise Industry Go-Live Plan
May	Go Live

Indicative Focus Group Topic Schedule

Month	Industry Testing FG	UFE FG	MSDR FG
November	N/A	✓ Complete	N/A
December	✓ Market Trial scope and timing	✓ Complete	N/A
January	N/A	 Industry status on GS data population and provision Local Area Assessments / negative UFE 	Scope and approach for MSDR FG
February	Develop Test Strategy/Plan	 Industry status on GS data population and provision Local Area Assessments / negative UFE 	• TBC
March	Conduct participant testing	Off market approaches	• TBC
April	Complete participant testing		• TBC

Upcoming Meetings



WORKING GROUPS

Readiness (RWG)

FOCUS GROUPS

UFE (UFE FG)

Industry Testing (ITFG)

MSDR (MSDR FG)

OTHER

Q&A session

National Public Holiday

State Public Holiday

AEMO Holiday Closure

*Relevant state has been marked in a comment for VIC, NSW, QLD & SA only.



Questions