



Five-minute settlement and global settlement

April 2021

Market Readiness Report - Round 7

Summary Report

5MS GS Market Readiness Report - Round 7

Key Observations:

- One MSP is reporting on track against compliance obligations but amber against AEMO MTP readiness criteria due to minimal schedule contingency. AEMO discussing contingency approach with the MSP.
- Multiple Victorian DNSPs/MPs have reported that some cross boundary supplies may not be installed until April 2022. They did note that larger cross boundary supplies would be prioritised to reduce the impact on UFE calculations. Impact assessment currently being undertaken.
- Multiple Victorian DNSPs reported the delivery of 5min Non-Contestable Unmetered Load metering data as being 'at-risk' or 'late' compared to MTP timelines, with current indications suggesting that data will be delivered in time to support 1 October requirements.
- Two Participants (one Retailer and one TNSP) are starting to callout that their ability to process and reconcile 5min metering data is 'at-risk'.
- Two MPs reported a 'late' status for MTP activities relating to S41 - MP accreditation update (for 1 Oct 2021).
- Two-thirds of participants reported at least 50-74% completion of their overall programs.
- All Generator respondents reported as "on track", however one key participant did not respond to the survey (16/17 planning to utilise bidding transition period)
- Initial Generator 5MS bidding service implementations planned for April
- AEMO's new Bidding Platform was successfully deployed into Production on 1 April 2021, as scheduled, commencing bidding transition period
- AEMO's new Retail Platform continues to be reported as 'at-risk' and in leadup to planned go-live on 31 May
- Two participants raised the risk that MSATS may not be able to process the expected significant change request volumes in a timely and effective manner.

5MS GS Essential Industry Capabilities

Essential capability	Relevant participants	Reporting criteria met	Number of participants					
			On Track	At Risk	Late	Not responded	Remediation Plan?	Escalation Required?
Generators and MNSPs are able to submit 5-min offers	Generators / MNSPs	Yes	14	0	0	4	No	No
All essential meters* are able to produce, store and deliver 5-min data	MPs/ MCs/MDPs	No	30	1	0	0	Yes	No
The 5-minute bidding and dispatch solution is deployed, including the web bidding interface	AEMO	Yes	1	0	0	0	No	No
The Metering Data Management (MDM) solution is deployed	AEMO	No	0	1	0	0	Yes	No
The 5-minute settlements solution is deployed	AEMO	Yes	1	0	0	0	No	No

* Essential meters are defined as transmission connected types 1-4 meters

* Please see background section at the start of this report for more information on the reporting criteria for essential industry capabilities

#	Status	Action	Comments
7.1	Open	AEMO to discuss contingency approach with MSP.	One MSP is reporting on track against compliance obligations but amber against AEMO MTP readiness criteria due to minimal schedule contingency.
7.2	Open	Applicable DNSPs/MPs/MCs to provide additional information to help assess the potential consequences of cross boundary supplies not being installed by 1 Oct 2021.	Multiple Victorian DNSPs/MPs/MCs reported that some cross boundary supplies may not be installed until April 2022. Larger cross boundary supplies would be prioritised for completion.
7.3	Open	Applicable DNSPs to provide additional information to help assess the potential consequences of NCONUML 5min metering data not being delivered by 1 Oct 2021.	Multiple Victorian DNSPs reported the delivery of NCONUML 5min metering data as being 'at-risk' or 'late'

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Actions log - Round 7			
#	Status	Action	Comments
7.4	Open	AEMO to follow up with the applicable Participants to confirm their remediation approach regarding their potential inability to process and reconcile 5min metering data by 1 Oct 2021.	One Retailer, one Generator and one TNSP have reported 'at-risk' for the processing and reconciliation of 5min metering data. These are not Participants who have called out issues previously in this area.
7.5	Open	AEMO to follow up with MPs responding that 'S41 - MP accreditation update (for 1 Oct 2021)' is 'late' to confirm remediation and consider if escalation is required	Two MPs reported a 'late' status for MTP activities relating to S41 - MP accreditation update (for 1 Oct 2021).
7.6	Open	AEMO to follow up with MDP responding that S24 - Tier 1 basic metering data, S22 - Type 7 metering installations and S23 - Non-contestable unmetered loads. is 'late' to confirm delivery timing	One MDP reported a 'late' status for MTP activities relating to S24 - Tier 1 basic metering data, S22 - Type 7 metering installations and S23 - Non-contestable unmetered loads.
7.7	Open	RWG to consider the risk associated to Meter Read Type Codes being updated prior to 1 Oct 2021.	One participant raised a risk relating to Meter Read Type Codes being updated to four characters prior to the 1 Oct 2021 procedure effective date. The participant noted that not all receiving participants of CATS 3xxx transactions will be able to process new four character values prior to their internal project code deployments.
7.8	Open	RWG to consider the risk associated to the significant volume of expected CATS CR transactions resulting from MTP, MSDR, BAU and other activities.	Two participants raised the risk that MSATS may not be able to process significant change request volumes in a timely and effective manner. One of the participants suggested that a more holistic view of upcoming change requests should be established by AEMO in order to manage and mitigate this issue.
7.9	Open	AEMO to follow up with participant to confirm progress and readiness status	One key participant in the generator/ MNSP capability has yet to provide a readiness response

5MS GS Market Readiness Report - Round 7

Actions log - Round 6			
#	Status	Action	Comments
6.1	Closed	AEMO to confirm progress and status of non-responding TNSP's readiness activities	TNSP on-track
6.2	Closed	AEMO to seek clarification from generator reporting 'late' and if remediation action is successful	Participant reporting as 'on-track' in Round 7 survey
6.3	Closed	AEMO to monitor status of MDP reporting that their overall program is 'at risk' in round 7 of readiness reporting	Participant reporting as 'on-track' in Round 7 survey
6.4	Closed	AEMO to follow up with TNSP reporting 'at risk' to understand timing of remediation	Participant reporting as 'on-track' in Round 7 survey
6.5	Closed	RWG to consider if risks raised by respondents in readiness reporting should be captured as industry risks	Completed
6.6	Closed	AEMO to follow up with MP/MC with essential meters reporting a 'late' status to confirm timing of remediation	Participant reporting as 'on-track' in Round 7 survey
6.7	Closed	AEMO to clarify 5-minute bidding go-live approach with generators that are not planning to utilise the bidding transition period, and establish level of industry risk	Completed
6.8	Closed	AEMO to follow up with MP responding that 'S09 - New and replacement SAMPLE meters' is 'at risk' to confirm status and if remediation is required.	Participant reporting as 'on-track' in Round 7 survey
6.9	Closed	AEMO to follow up with MP responding that 'S01 - BULK/ Wholesale Meters', 'S02 - Type 1 - 3 Meters', and 'S03 - Subset of type 4 meters - TNI, Market Generator or SGA' is late to confirm timing on remediation and if escalation is required	Participant reporting as 'on-track' in Round 7 survey
6.10	Closed	AEMO to follow up with MP responding that 'S15 - Cross Boundary meters (KNOWN)' and 'S20 - New and replacement SAMPLE Meters' is 'at risk' to confirm status and if remediation is required.	Participant reporting as 'on-track' in Round 7 survey
6.11	Closed	AEMO to follow up with MP responding that 'S41 - MP accreditation update (for 1 Oct 2021)' is 'late' to confirm remediation and consider if escalation is required	Participant reporting as 'on-track' in Round 7 survey
6.12	Open	AEMO to follow up with MDP responding that 'S24 - Tier 1 basic metering data' is 'late' to confirm delivery timing	Participant still reporting as 'late' in Round 7 survey. Action 7.6 raised in this report to continue engagement with effected Participant.
6.13	Closed	AEMO to follow up with MDP responding that 'S14 - Type 1-3, subset of Type 4' is 'at risk' to confirm status and if remediation is required.	Participant reporting as 'on-track' in Round 7 survey
6.14	Closed	AEMO to follow up with MDP responding that 'S37 - Interval meter datastreams' is 'at risk' to confirm status and if remediation is required	Participant reporting as 'on-track' in Round 7 survey
6.15	Open	AEMO to follow up with MDP responding that 'S36 - Tier 1 basic meter datastreams' is 'late' to confirm status and if remediation is required	Participant still reporting as 'late' in Round 7 survey. Action 7.6 raised in this report to continue engagement with effected Participant.
6.16	Closed	AEMO to follow up with MDP responding that 'S27 - Non-contestable metered loads' is 'late' to confirm status and if remediation is required	AEMO met with participant, and confirmed that activities will be completed before 1 October 2021
6.17	Closed	AEMO to follow up with MC responding that 'S01 - BULK/Wholesale Meters', 'S02 - Type 1-3 Meters', 'S03 - Subset of type 4 meters, TNI, Market Generator or SGA' is 'late' to confirm remediation plans and if escalation is required	Participant reporting as 'on-track' in Round 7 survey
6.18	Closed	AEMO to follow up with MC responding that 'S02 - Type 1-3 Meters' is 'at risk' to confirm remediation plans and if escalation is required	Participant reporting as 'on-track' in Round 7 survey

Five-minute settlement and global settlement

April 2021

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Supplementary Information

Background

To monitor the industry's level of readiness for the various SMS and GS transitional activities and commencements, AEMO will co-ordinate readiness reporting across the industry in accordance with the Readiness Reporting Plan.¹ NEM participants are invited to submit readiness information on a periodic basis through a Readiness Assessment Questionnaire. The results from these surveys are presented in this Market Readiness Report.

Readiness criteria

Participants' level of readiness will be assessed through general readiness criteria, specific readiness criteria, and also their status against the Metering Transition Plan (MTP).²

Criteria	Overview	Response options	Results presentation
General Readiness Criteria	Criteria related to the level of program establishment of participant programs.	Participants are asked to provide Yes / No responses to a set of program establishment questions e.g. if funding is secured.	All Yes and No responses are presented in a bar chart. All responses are unweighted.
Specific Readiness Criteria	Criteria that tracks the implementation of specific market commencement requirements for each participant type. Hence, each participant type will have their own set of specific readiness criteria e.g. generators' ability to submit 5 min bids by 1 October 2021, retailers ability to receive and reconcile 5 minute data.	Participants (including AEMO) are asked to report their status towards fulfilling these requirements by market commencement (on track, at risk or late), and also report on progress in 25% increments.	Participants' status and progression towards specific criteria are illustrated in a bar chart. Each segment of the bar represents 25% progress. The bar will progressively fill with solid colours as the criteria is completed. The bar chart will be coloured red, amber or green based on if the criteria is on track, at risk or late. All responses are unweighted.
Metering Transition Plan Status	Status monitoring of defined activities in the MTP. The MTP outlines the expected activities, responsibilities, timeframes, as well as other necessary elements required for completion of the SMS and GS metering transition.	Participants are asked to provide their status towards completing activities by the transition end date for each defined sub-category in the MTP (Complete, On track (started), On track (not started), At risk, Late, n/a). Given that a sub-category has multiple activities supported by various participant types, respondents were only expected to provide status reporting for activities that were relevant to their participant type.	All responses are presented in a bar chart. All responses are unweighted.

Participant industry coverage

The approach to gauging industry coverage for each readiness report is described below for each participant type.

Participant type	Industry coverage methodology	Data source
Generator	Generator respondents' capacity / NEM capacity	AER 2019 state of the market report - generation capacity data
Retailer	Retailer respondents' settlement vol. / NEM vol.	AEMO settlement data - 2019 calendar year
MP	MP respondents' total type 1-4 NMIs/ total type 1-4 NMIs	AEMO metering data
MDP	MDP respondents' total type 1-4 NMIs/ total type 1-4 NMIs	AEMO metering data
MC	MC respondents' total type 1-4 NMIs/ total type 1-4 NMIs	AEMO metering data
DNBP	Number of DNBP survey respondents / Total DNBP	AER 2019 state of the market report - DNBP data
TNSP	Number of TNSP survey respondents / Total TNSP	AER 2019 state of the market report - TNSP data

¹ Readiness documents, including the Industry Readiness Reporting Plan, and Metering Transition Plan can be accessed at: <https://www.aemo.com.au/initiatives/major-programs/nem-five-minute-settlement-program-and-global-settlement/readiness-workstream/key-readiness-documents>

² Ibid

Essential industry capabilities for SMS and GS commencements

The essential minimum capabilities for SMS and GS commencements are described below for each relevant participant type.

Essential capability	Relevant participants	Reporting Criteria
Generators and MNSPs are able to submit 5-min offers	Generators / MNSPs	a) Generators representing >80% of regional load are responding to Industry Readiness Surveys, and; b) Generators representing >80% of regional load are reporting 'On-track' to be able to submit 5-minute granularity offers
All essential meters* are able to produce and store 5-min data	MPs	a) 100% of MPs associated to essential metering are responding to Industry Readiness Surveys, and; b) 100% of MPs associated to essential metering are reporting 'On-track' for all applicable MTP activities
All essential meters* are able to produce and store 5-min data	MCs	a) 100% of MCs associated to essential metering are responding to Industry Readiness Surveys, and; b) 100% of MCs associated to essential metering are reporting 'On-track' for all applicable MTP activities
All essential meters* are able to deliver 5-min metering data	MDPs	a) 100% of MDPs associated to essential metering are responding to Industry Readiness Surveys, and; b) 100% of MDPs associated to essential metering are reporting 'On-track' for all applicable MTP activities (S01)
The 5-minute bidding and dispatch solution, including the web bidding interface is deployed	AEMO	a) AEMO reporting 'On-track' for all Bidding/Dispatch reporting criteria and milestones
The Metering Data Management (MDM) solution is deployed	AEMO	a) AEMO reporting 'On-track' for all MDM Milestones
The 5-minute settlements solution is deployed	AEMO	a) AEMO reporting 'On-track' for all Settlement Milestones

* Essential meters are defined as transmission connected types 1-4 meters

Disclaimer

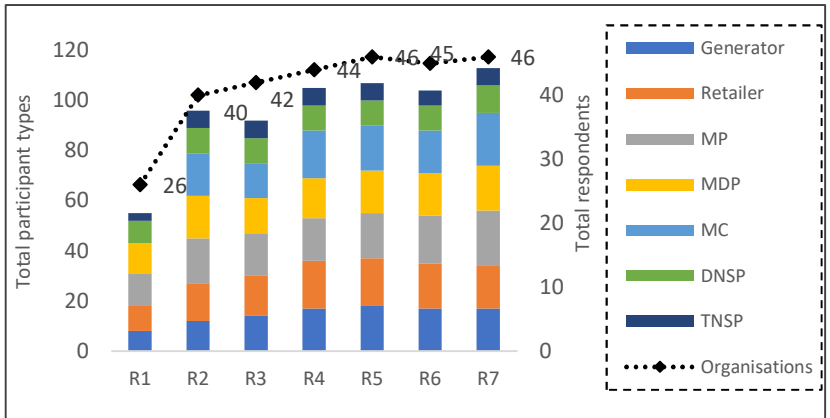
This market readiness report has been prepared by AEMO at the request of the industry for the purpose of tracking and monitoring the industry's level of readiness for SMS and GS. This report contains self-reported readiness information provided by participants, and may not be free from errors or omissions. Accordingly, to the maximum extent permitted by law, AEMO makes no representation or warranty, express or implied, as to the currency, accuracy, reliability or completeness of the information published here; and are not liable (whether by reason of negligence or otherwise) for any statements, opinions or other matters contained in or derived from this information, or any omissions from it, or in respect of a person's use of the information.

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Submissions

Strong survey coverage, with 45 respondents representing 83.7 -100% of the industry. Response rate across all participant types provides representative industry coverage. Drop in Retailer coverage noted, due to one major retailer not submitting readiness report

	This round	Prev. round	Δ (#)	Trend
Respondents	46	45	1	↑
Participant types	113	104	9	↑
Generator	17	17	0	-
Retailer	17	18	-1	↓
MP	22	19	3	↑
MDP	18	17	1	↑
MC	21	17	4	↑
DNSP	11	10	1	↑
TNSP	7	6	1	↑



Industry coverage

	% Industry coverage	Industry coverage methodology
Generator	94.5%	Generator respondents' capacity / NEM capacity
Retailer	83.7%	Retailer respondents' settlement vol. / NEM vol.
MP	100.0%	MP respondents' total type 1-4 NMIs/ total type 1-4 NMIs
MDP	100.0%	MDP respondents' total type 1-4 NMIs/ total type 1-4 NMIs
MC	100.0%	MC respondents' total type 1-4 NMIs/ total type 1-4 NMIs
DNSP	100.0%	Number of DNSP survey respondents / Total DNSPs
TNSP	100.0%	Number of TNSP survey respondents / Total TNSPs

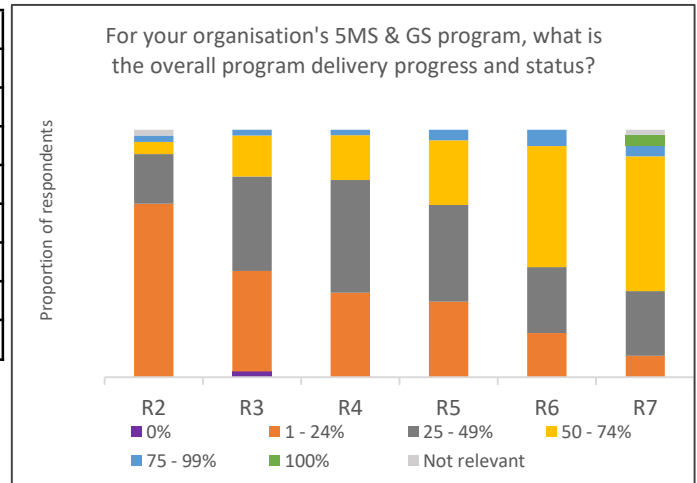
#	Topic	Observation / Actions
1	Response rate, All participant types	46 organisations responded to the seventh round of readiness reporting, with the total 'Participant types' rising by nine. Response rates across all participant types provides strong industry coverage.
2	Response rate, All participant types	Coverage across the industry for all participant types ranges from 83.7% to 100%, this exceeds the 80% coverage threshold for reporting against essential criteria.

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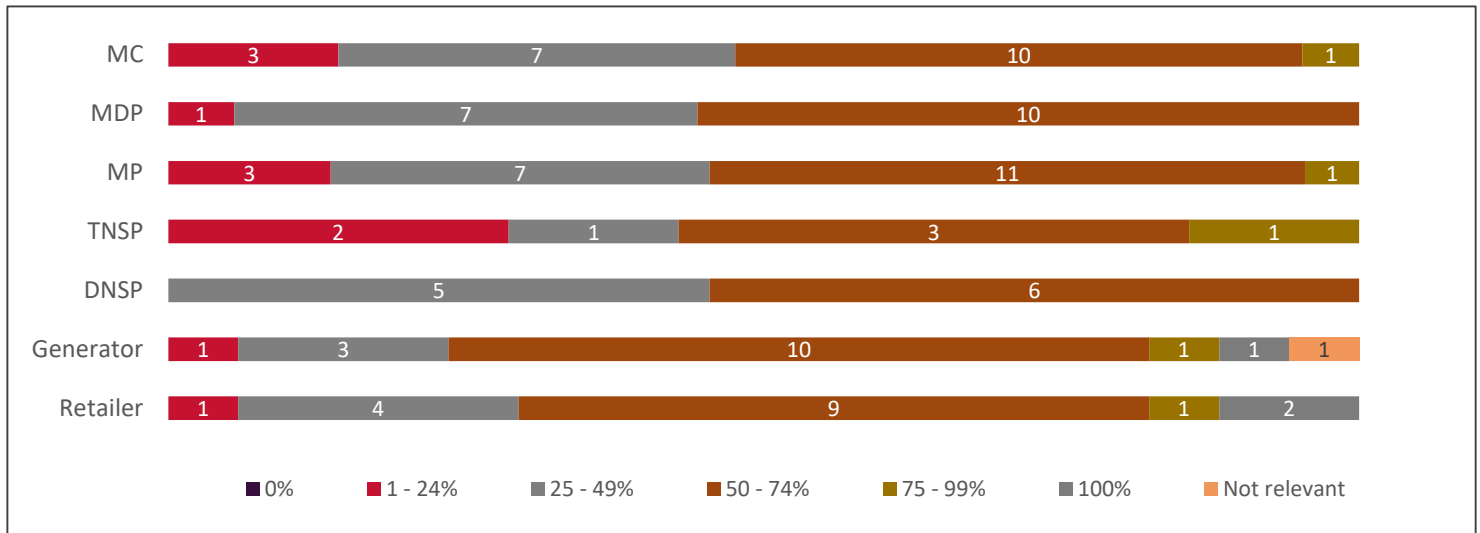
Overall program delivery progression, by reporting round

Almost two thirds of participants are now reporting that they are at least 50-74% progressed with their overall program, increasing from 56% in the previous round. A number of participants are engaged in Industry and bi-lateral testing with increases noted in the retail sector this period

	Round 2	Round 3	Round 4	Round 5	Round 6	Round 7
0%	0%	2%	0%	0%	0%	0%
1 - 24%	70%	40%	34%	30%	18%	9%
25 - 49%	20%	38%	45%	39%	27%	26%
50 - 74%	5%	17%	18%	26%	49%	54%
75 - 99%	3%	2%	2%	4%	7%	4%
100%	0%	0%	0%	0%	0%	4%
n/a	3%	0%	0%	0%	0%	2%
Total	100%	100%	100%	100%	100%	100%



Participants' overall program delivery progression, by participant type - Round 7



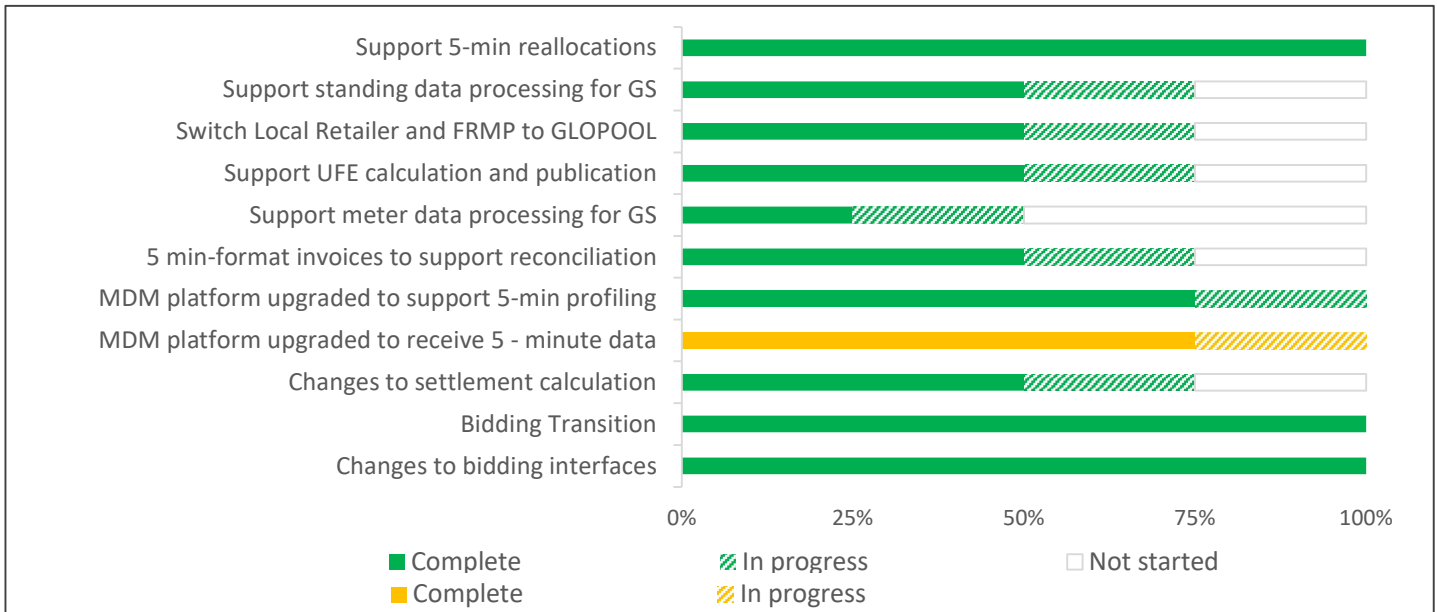
#	Topic	Observation / Actions
3	Overall Participant Program Progress	Almost two thirds of participants are now reporting that they are at least 50-74% progressed with their overall program, increasing from 56% in the previous round. However, one participant is reporting that their overall program is 'At-risk'. Vast majority of participants are on track to participate in market trials.

5MS GS Market Readiness Report - Round 7

#	Topic	Observation / Actions
4	Raised risks	<p>One participant raised a risk relating to Meter Read Type Codes being updated to four characters prior to the 1 Oct 2021 procedure effective date. The participant noted that not all receiving participants of CATS 3xxx are able to process new additional values prior to internal project code deployments.</p> <p>Action 7.2: RWG to consider if risks raised by respondents in readiness reporting should be captured as industry risks</p>
5	Raised risks	<p>Two participants raised a risk that MSATS may not be able to process 5MS/GS, BAU and other industry initiative related change requests in a timely and effective manner. One of the participants suggested that a more holistic view of upcoming change requests should be established by AEMO in order to manage and mitigate this issue</p> <p>Action 7.3: RWG to consider if risks raised by respondents in readiness reporting should be captured as industry risks</p>

5MS GS Market Readiness Report - Round 7

AEMO Readiness Criteria



#	Topic	Observation / Actions
6	AEMO Readiness Criteria	AEMO's new Bidding Platform was successfully deployed into Production on 1 April 2021, as scheduled. AEMO's new Retail Platform remains at-risk with platform go-live scheduled for 31 May and is being closely monitored by the PCF

5MS GS Essential Industry Capabilities

Essential capability	Relevant participants	Reporting criteria met	Number of participants					
			On Track	At Risk	Late	Not responded	Remediation Plan?	Escalation Required?
Generators and MNSPs are able to submit 5-min offers	Generators / MNSPs	Yes	14	0	0	4	No	No
All essential meters* are able to produce, store and deliver 5-min data	MDPs	No	30	1	0	0	Yes	No
The 5-minute bidding and dispatch solution is deployed, including the web bidding interface	AEMO	Yes	1	0	0	0	No	No
The Metering Data Management (MDM) solution is deployed	AEMO	No	0	1	0	0	Yes	No
The 5-minute settlements solution is deployed	AEMO	Yes	1	0	0	0	No	No

* Essential meters are defined as transmission connected types 1-4 meters

* Please see background section at the start of this report for more information on the reporting criteria for essential industry capabilities

#	Topic	Observation / Actions
7	Essential meters, MP, MC, MDP	Participant reporting Late status in previous report now reporting on track
8	Essential meters, MP, MC, MDP	One MSP is reporting on track against compliance obligations but amber against AEMO MTP readiness criteria due to minimal schedule contingency. Action 7.1: AEMO to follow up to discuss contingency approach with the MSP
9	AEMO Capability	AEMO's 5-minute bidding and dispatch solution was deployed, including the web bidding interface, on 1 April 2021.
10	AEMO Capability	AEMO's Metering Data Management (MDM) solution continues to be reported as 'at-risk' and is being closely monitored via the PCF.
38	Generators and MNSPs	One key participant in the generator and MNSP capability is yet to provide a readiness response Action 7.9: AEMO to follow up with participant to confirm progress and readiness status

5MS GS Market Readiness Report - Round 7

COVID-19 Response

Compared to your response in the previous reporting round (February 2021), have recent developments in the COVID-19 situation or your program's response changed your ability to implement 5MS and GS?



- No change
- Minor change
- Major change

Early Delivery of 5-minute Data

Are you intending to enter into agreements to deliver or receive metering data in sub-multiples of a trading interval (NER Chapter 7.10.5)?



- Yes - Intend to initiate an agreement
- Yes - Willing to join an agreement
- No

Participants intending to enter into agreement to deliver or receive metering data in sub-multiples of a trading interval, by participant type.



- Retailer
- DNSP
- TNSP
- MDP

Bidding Transition Period

Does your organisation plan to commence 5-minute bidding during the bidding transition period (1 Apr 2021 to 30 Sep 2021) ?



- Yes
- No

Does your organisation plan to utilise the 5MS Bidding Service pre-production environment for industry testing?



- Yes
- No

Early Delivery of 5-minute Data

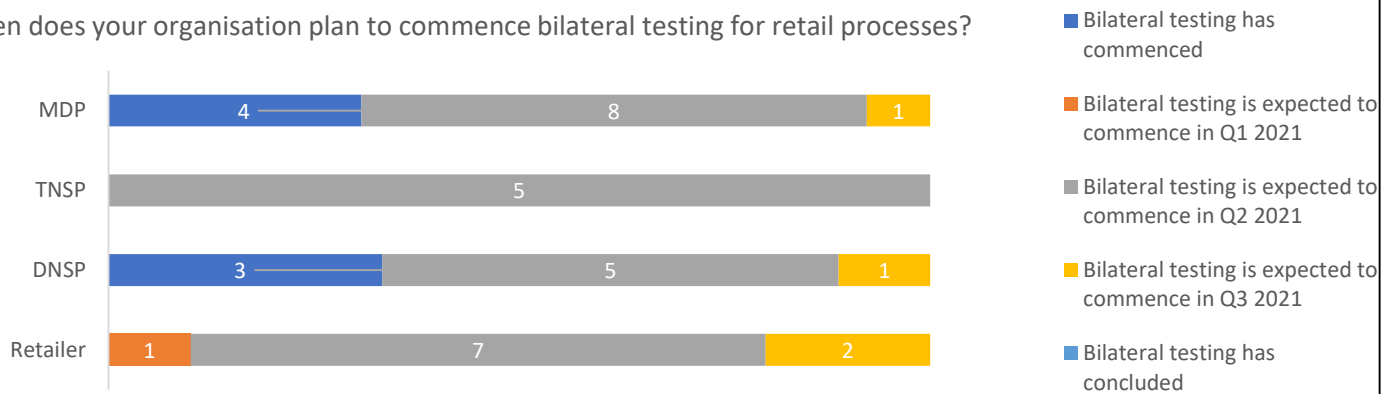
#	Topic	Observation / Actions
11	COVID-19 Response, All participants	Compared to the previous round of reporting, one participant reported experiencing minor changes in their ability to implement 5MS and GS due to COVID-19.
12	Bidding Transition Period, Generators	Vast majority of generators who responded to the survey reported that they plan to participate in the bidding transition, 16 out of 17 generators.

Bilateral testing for retail processes

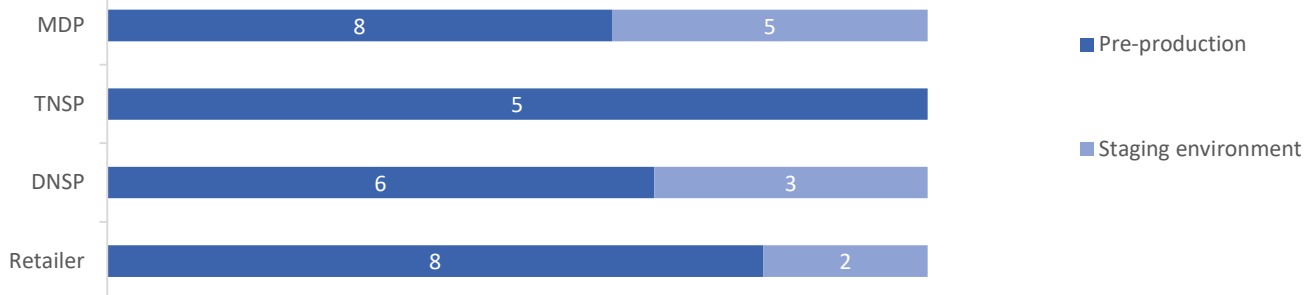
Does your organisation intend to conduct bilateral testing for retail processes?



When does your organisation plan to commence bilateral testing for retail processes?



In which environment does your organisation plan to conduct bilateral testing for retail processes?



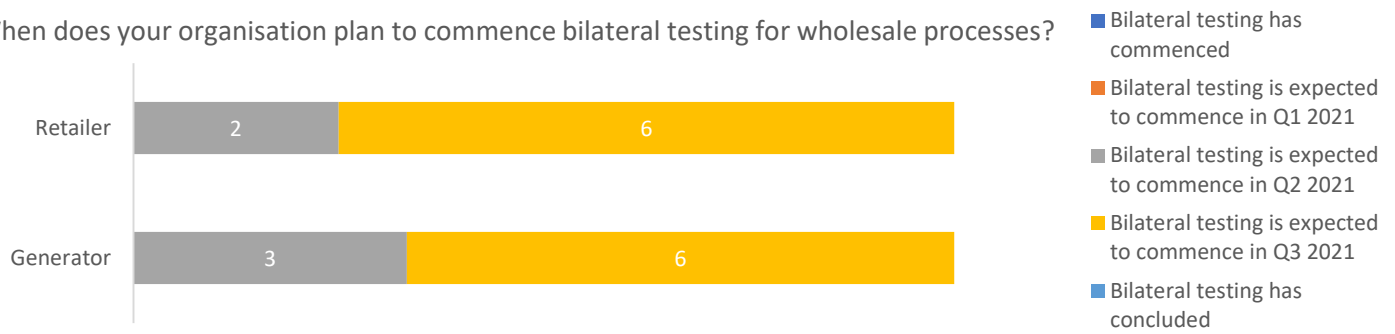
#	Topic	Observation / Actions
13	Bilateral testing, (Retailer, DNSP, TNSP, MDP)	Over 70% of responding Participants intend to conduct bilateral testing for retail processes.
14	Bilateral testing, (Retailer, DNSP, TNSP, MDP)	Most participants planning on commencing bilateral testing in Q2 2021, however, some have already commenced testing and some plan on delaying their testing to Q3 2021.
15	Bilateral testing, (Retailer, DNSP, TNSP, MDP)	Majority of Participants plan on using the Pre-production environment to perform their testing.

Bilateral testing for wholesale processes

Does your organisation intend to conduct bilateral testing for wholesale processes (e.g. bidding, settlements)?



When does your organisation plan to commence bilateral testing for wholesale processes?



In which environment does your organisation plan to conduct bilateral testing for wholesale processes?



#	Topic	Observation / Actions
16	Bilateral testing, (Retailer, Generator)	Just over half of generators (9 out of 17) and just under half of retailers (8 out of 17) intend to conduct bilateral testing for wholesale processes.
17	Bilateral testing, (Retailer, Generator)	No participant has commenced bilateral testing for wholesale processes, with an even split of participants commencing in Q2 2021 and Q3 2021.
18	Bilateral testing, (Retailer, Generator)	All responding retailers and generators plan to use the pre-production environment to conduct their bilateral testing.

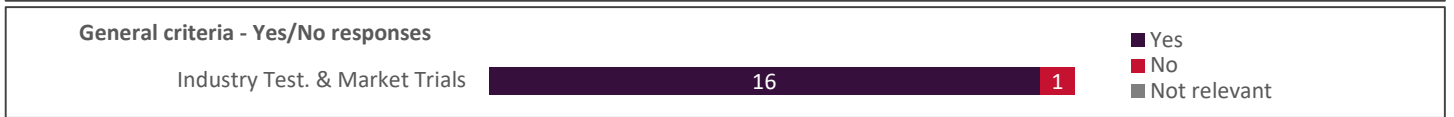
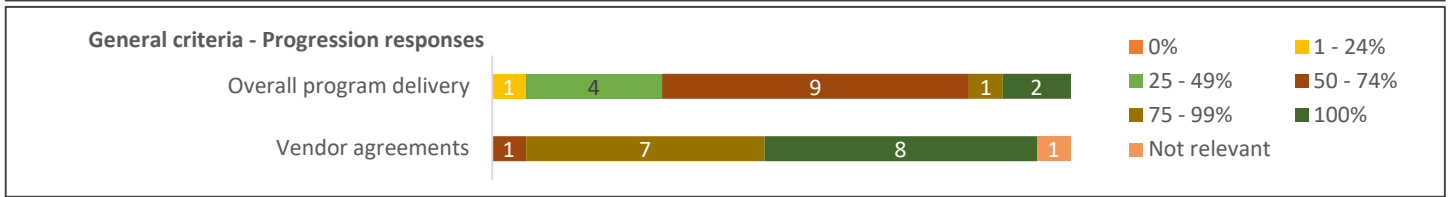
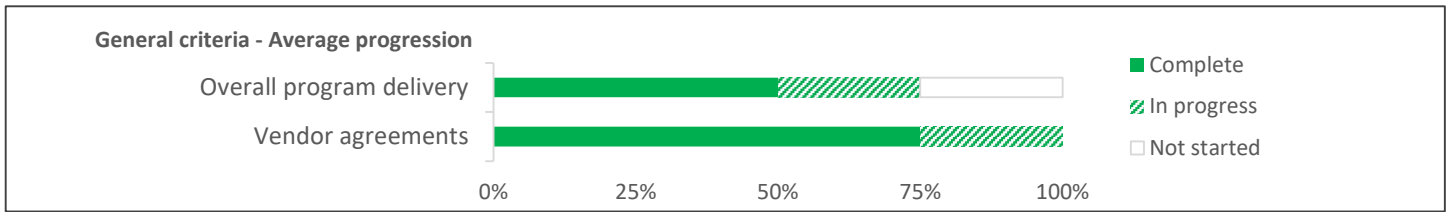
Retailers

Number of respondents	17	% Industry coverage	84%
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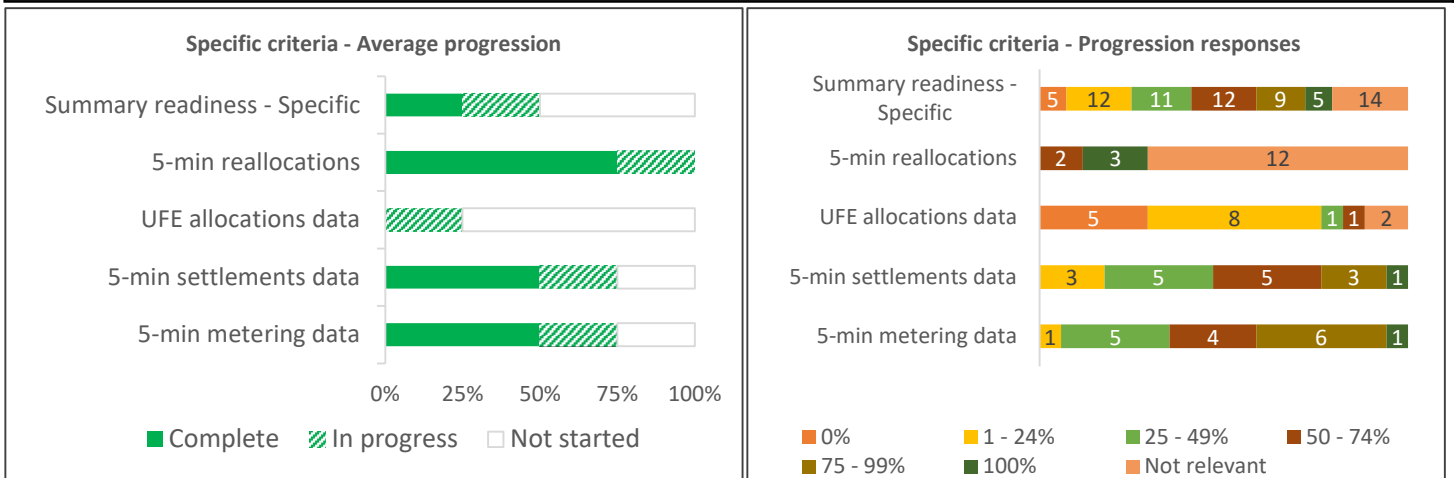
Overall Progress and Status

Retailers are reporting as on track, with their overall programs on average 50-74% complete.

General Readiness Criteria



Specific Readiness Criteria



#	Topic	Observation / Actions
19	General criteria (Overall program delivery), Retailers	Retailers are on average 50-74% progressed with their overall 5MS and GS program.
20	Specific criteria, Retailers	One Retailer reported 'at-risk' in relation to their ability to receive and reconcile 5-min settlements data. Action 7.4: AEMO to follow up with the applicable Participants to confirm their remediation approach regarding their potential inability to process and reconcile 5min metering data by 1 Oct 2021.
21	Specific criteria, Retailers	UFE allocation progress remains low at 1-24%

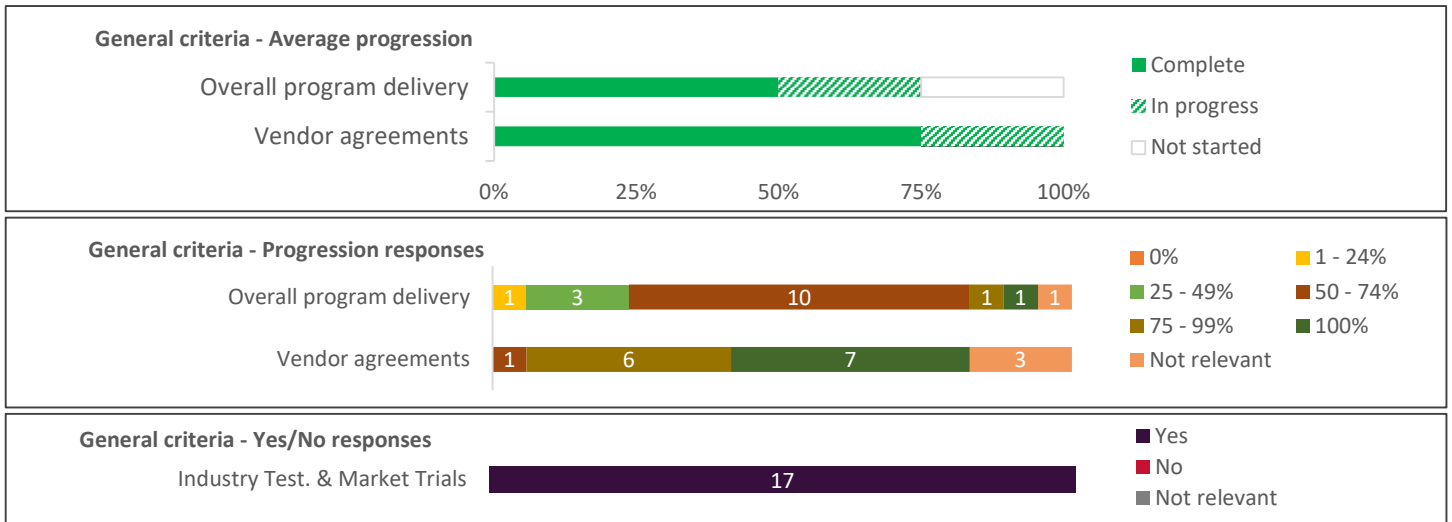
Generators

Number of respondents	17	% Industry coverage	95%
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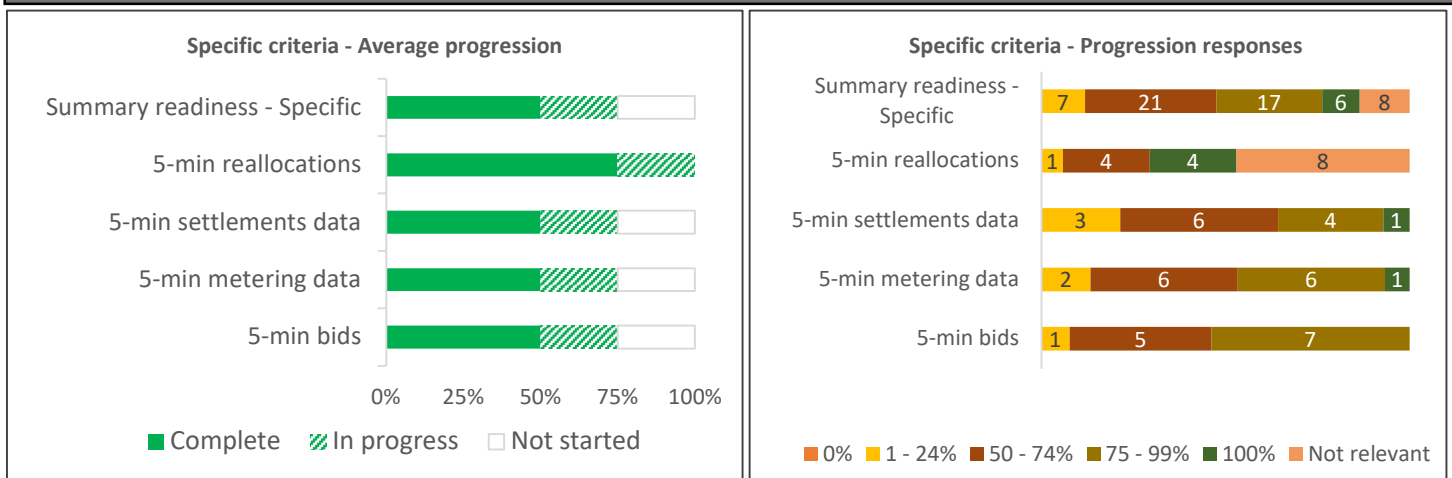
Overall Progress and Status

All responding Generators reporting as being 'on track', with their overall programs on average 50-74% complete. One Generator did however report their ability to receive and reconcile 5-min settlements data as being 'at-risk'.

General Readiness Criteria



Specific Readiness Criteria



#	Topic	Observation / Actions
22	Specific criteria, Generators	Generators are reporting a wide range of responses when reporting on progression towards developing specific capabilities for 5MS and GS. They are 50-74% progressed on average.
23	Specific criteria, Generators	One Generator reported 'at-risk' in relation to their ability to receive and process 5-min metering data. Action 7.4: AEMO to follow up with the applicable Participants to confirm their remediation approach regarding their potential inability to process and reconcile 5min metering data by 1 Oct 2021.
24	Specific criteria, Generators	Only 1 generator reporting 1-24% on criteria for submitting 5 min bids, remainder of respondents further progressed

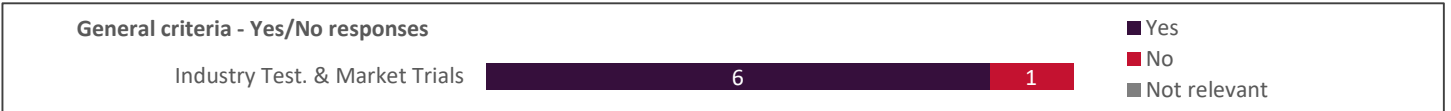
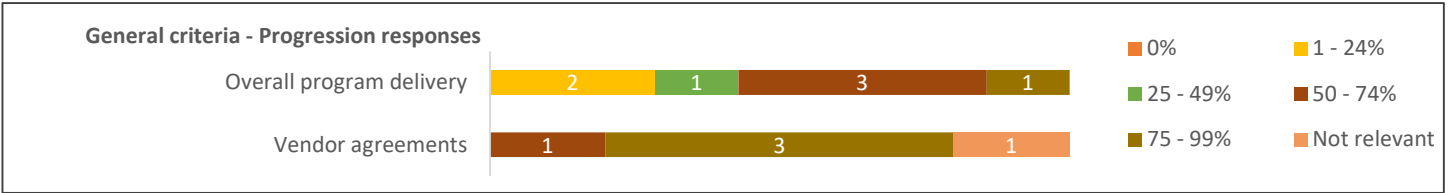
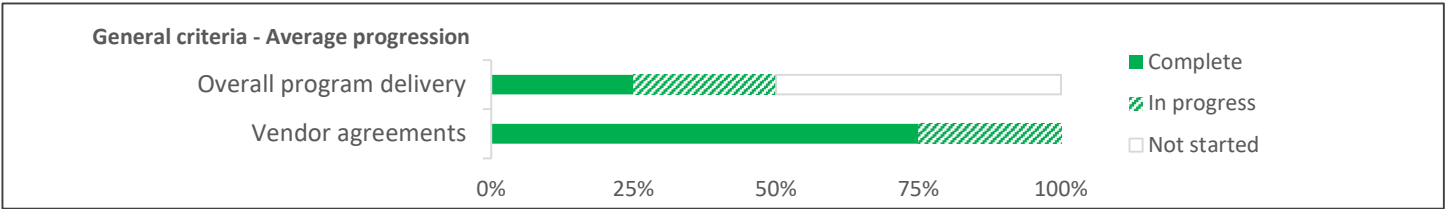
TNSPs

Number of respondents	7	% Industry coverage	100%
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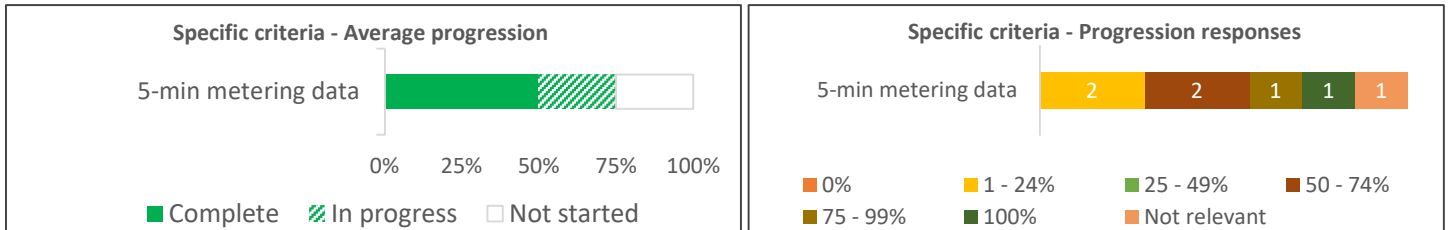
Overall Progress and Status

All responding TNSPs reported as being 'on track', with their overall programs on average 50-74% complete. One TNSP did however report their ability to receive and reconcile 5-min settlements data as being 'at-risk'.

General Readiness Criteria

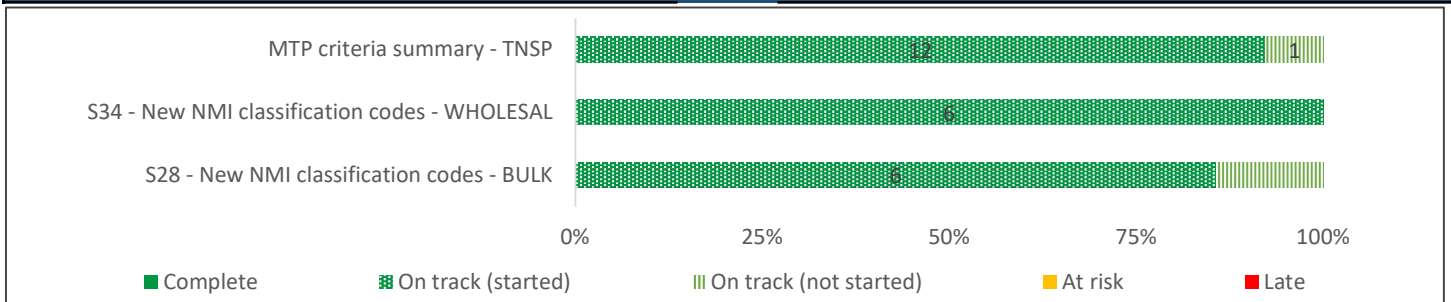


Specific Readiness Criteria



Metering Transition Plan Criteria

MSATS Standing Data Creation and Maintenance



#	Topic	Observation / Actions
25	Specific Criteria, TNSPs	TNSPs are on average 50-74% progressed with their overall program.
26	Specific Criteria, TNSPs	<p>One TNSP reported 'at-risk' in relation to their ability to receive and reconcile 5-min settlements data noting that this was caused by a delay in the delivery of their vendor.</p> <p>Action 7.4: AEMO to follow up with the applicable Participants to confirm their remediation approach regarding their potential inability to process and reconcile 5min metering data by 1 Oct 2021.</p>

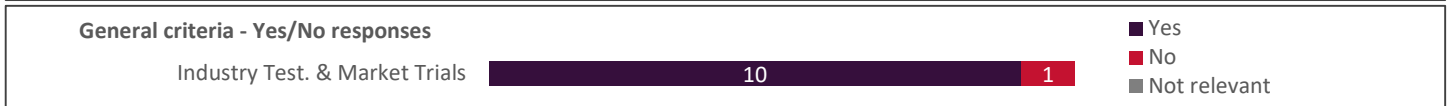
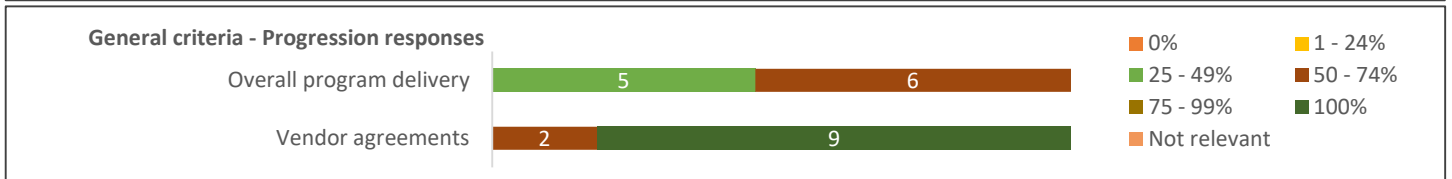
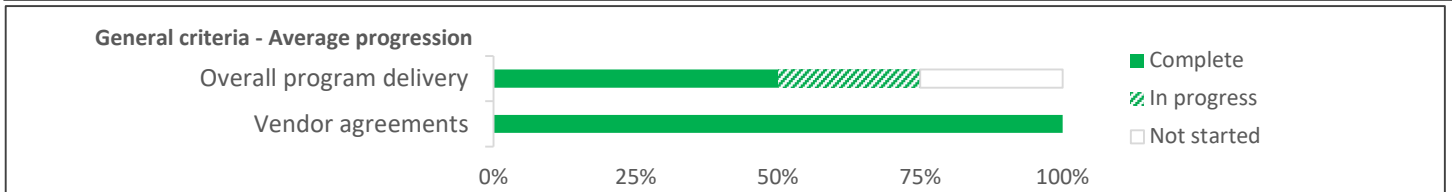
DNSPs

Number of respondents	11	% Industry coverage	100%
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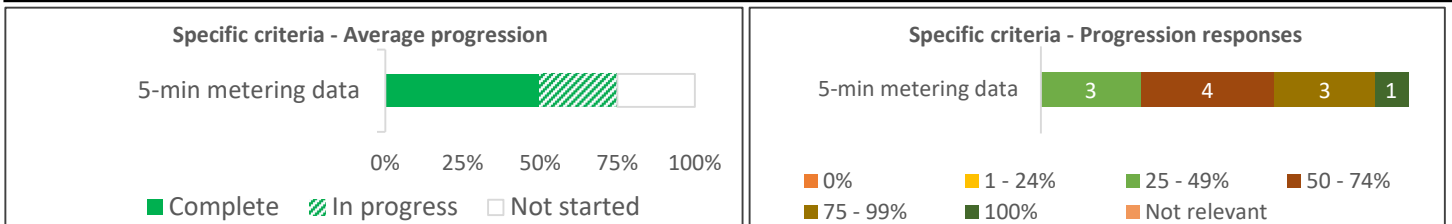
Overall Progress and Status

DNSPs are reporting their overall program delivery progress as 'on track', however, multiple Participants are reporting 'at-risk' or 'late' regarding the installation of cross boundary meters and the delivery 5min NCONUML metering data by 1 Oct 2021.

General Readiness Criteria

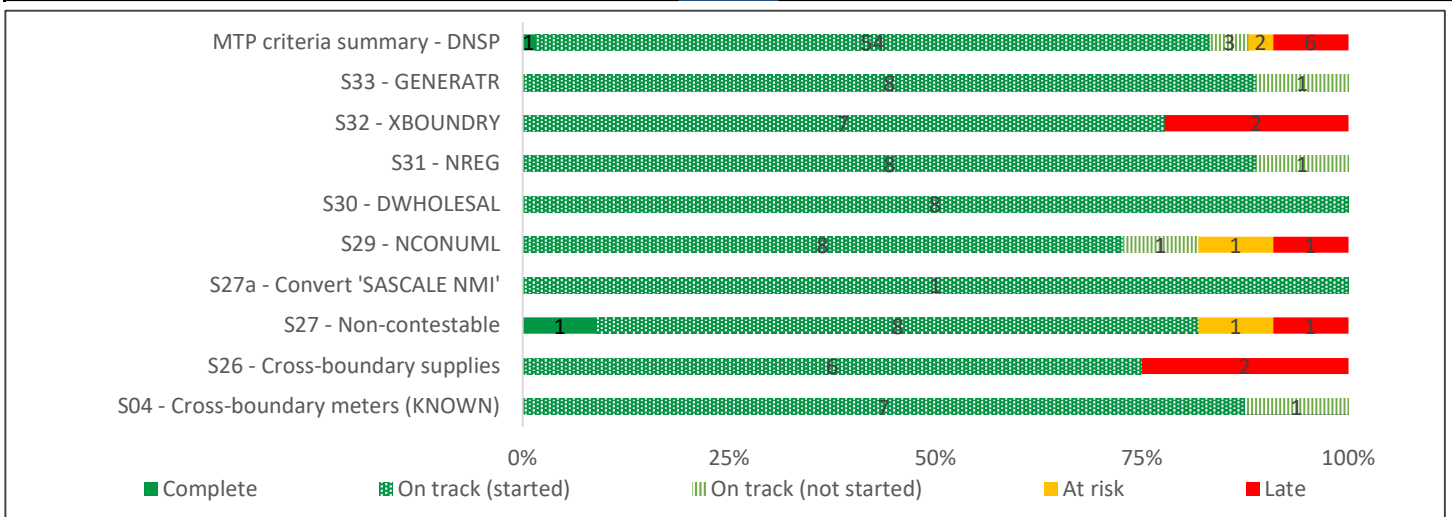


Specific Readiness Criteria



Metering Transition Plan Criteria

MSATS Standing Data Creation and Maintenance



#	Topic	Observation / Actions
27	Specific Criteria, DNSPs	DNSPs are 50-74% progressed on average with their overall program.
28	MTP Criteria, DNSPs	Multiple DNSPs are reporting 'at-risk' or 'late' regarding the installation of cross boundary meters Action 7.2: Applicable DNSPs/MPs/MCs to provide additional information to help assess the potential consequences of cross boundary supplies not being installed by 1 Oct 2021.
29	MTP Criteria, DNSPs	Multiple DNSPs are reporting 'at-risk' regarding the delivery of 5min metering data associated to NCONUMLs Action 7.3: Applicable DNSPs to provide additional information to help assess the potential consequences of NCONUML 5min metering data not being delivered by 1 Oct 2021.

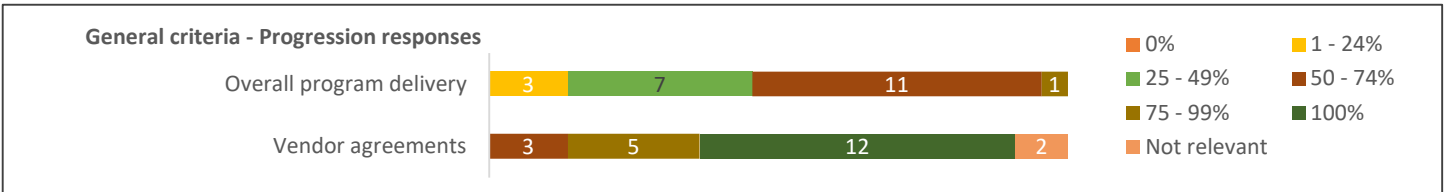
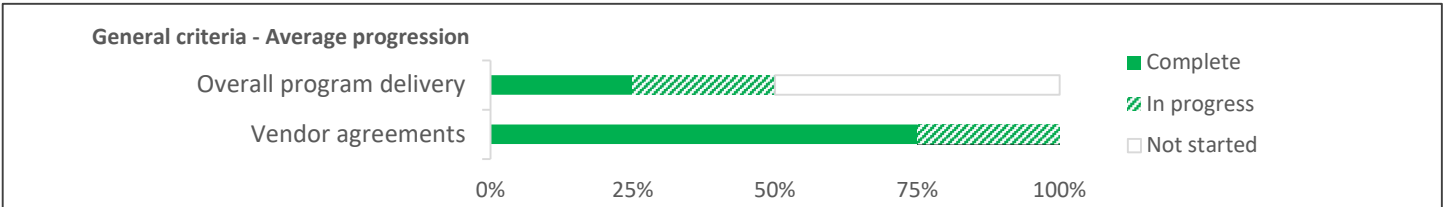
MPs

Number of respondents	22	% Industry coverage	100%
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Overall Progress and Status

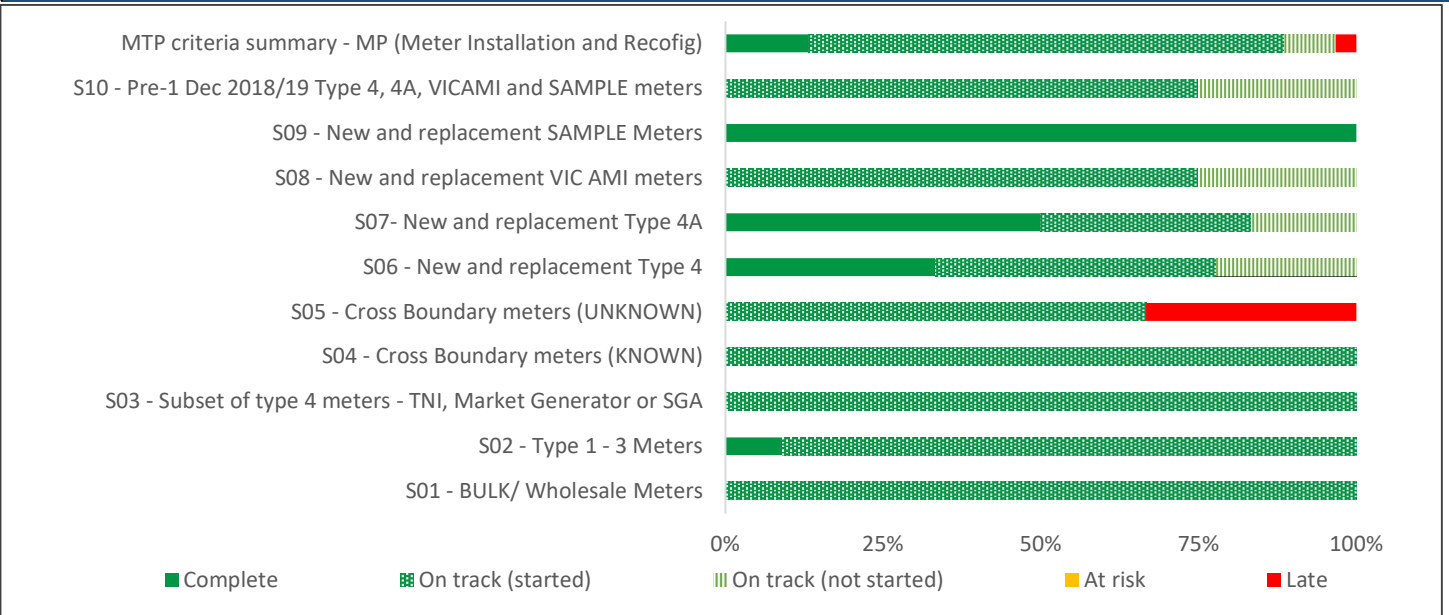
MPs are generally reporting as on track, with programs on average 50-74% complete. However, multiple Participants are reporting 'late' regarding the installation of cross boundary meters by 1 Oct 2021.

General Readiness Criteria



Metering Transition Plan Criteria

Meter Installation and Reconfiguration



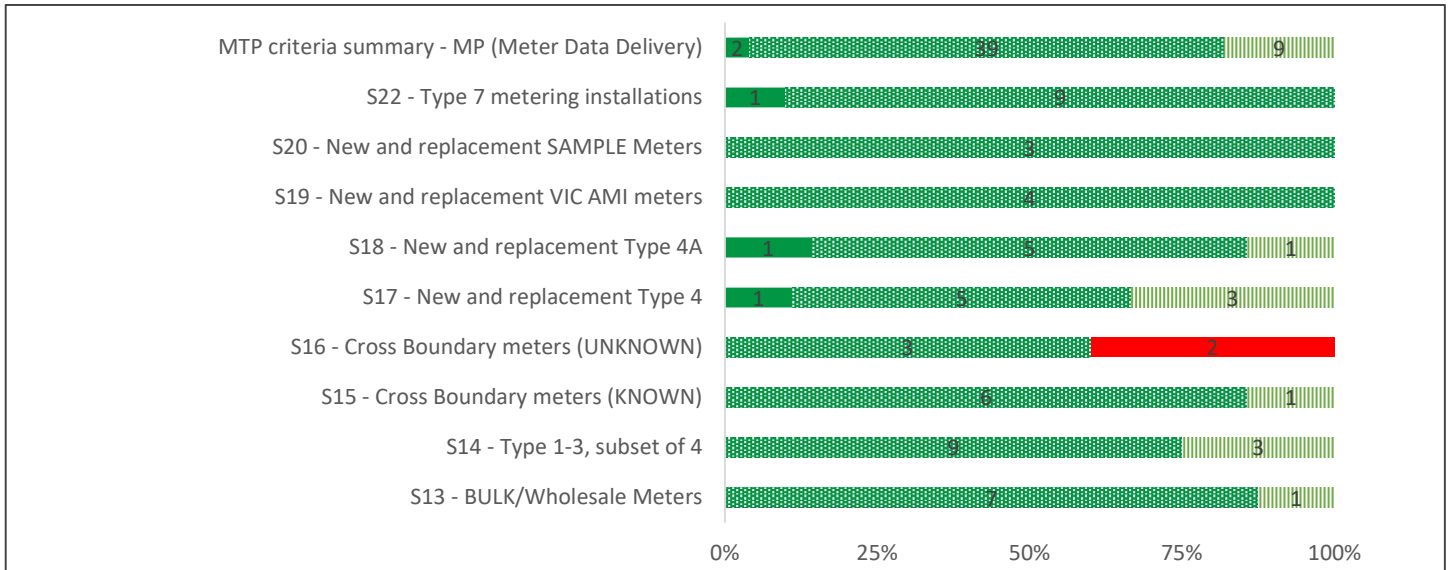
#	Topic	Observation / Actions
30	MTP Criteria (Meter Installation and reconfiguration), MPs	<p>Multiple MPs reported a 'late' status for MTP activities relating to S05 - Cross Boundary meters (UNKNOWN).</p> <p>Action 7.2: Applicable DNSPs/MPs/MCs to provide additional information to help assess the potential consequences of cross boundary supplies not being installed by 1 Oct 2021.</p>

MPs

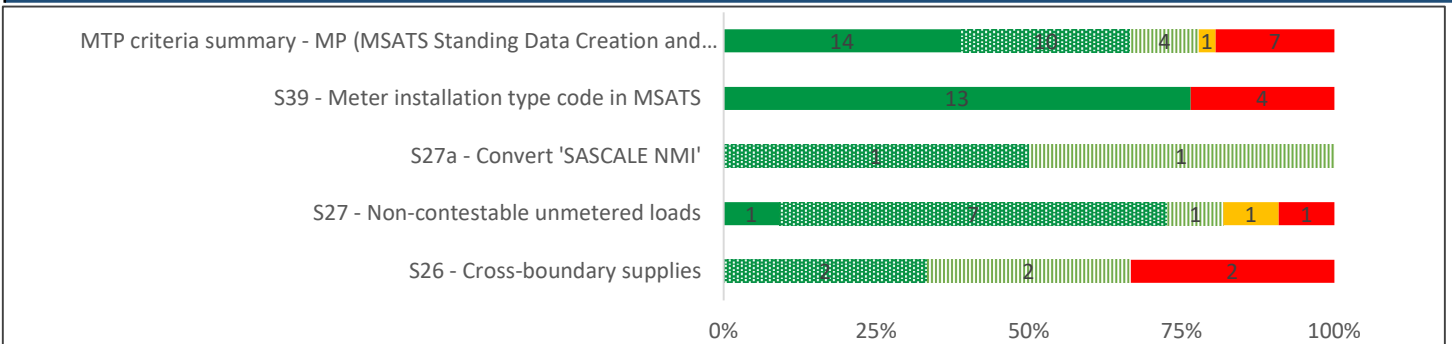
Number of respondents	22	% Industry coverage	100%
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Metering Transition Plan Criteria

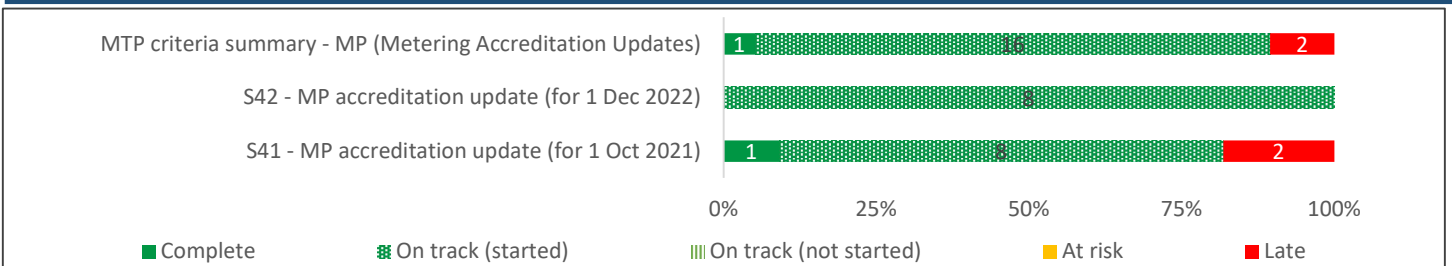
Meter Data Delivery



MSATS Standing Data Creation and Maintenance



Metering Accreditation Updates



#	Topic	Observation / Actions
31	MTP Criteria (Meter Data Delivery), MPs	Multiple MPs reported a 'late' status for MTP activities relating to S16 - Cross Boundary meters (UNKNOWN). Action 7.2: Applicable DNSPs/MPs to provide additional information to help assess the potential consequences of cross boundary supplies not being installed by 1 Oct 2021.
32	MTP Criteria (MSATS Standing Data Creation and Maintenance), MPs	Multiple MPs reported a 'late' status for MTP activities relating to S26 - Cross Boundary supplies. Action 7.2: Applicable DNSPs/MPs to provide additional information to help assess the potential consequences of cross boundary supplies not being installed by 1 Oct 2021.
33	MTP Criteria (Metering Accreditation Updates), MPs	Two MPs reported a 'late' status for MTP activities relating to S41 - MP accreditation update (for 1 Oct 2021). Action 7.5: AEMO to follow up with MPs responding that 'S41 - MP accreditation update (for 1 Oct 2021)' is 'late' to confirm remediation and consider if escalation is required

5MS GS Market Readiness Report - Round 7

MDPs

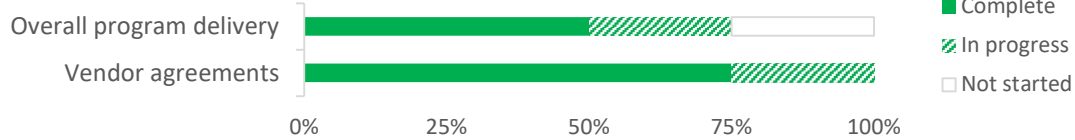
Number of respondents	18	% Industry coverage	100%
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Overall Progress and Status

MDPs are generally reporting as on track, with programs on average greater than 50% complete.

General Readiness Criteria

General criteria - Average progression



General criteria - Progression responses

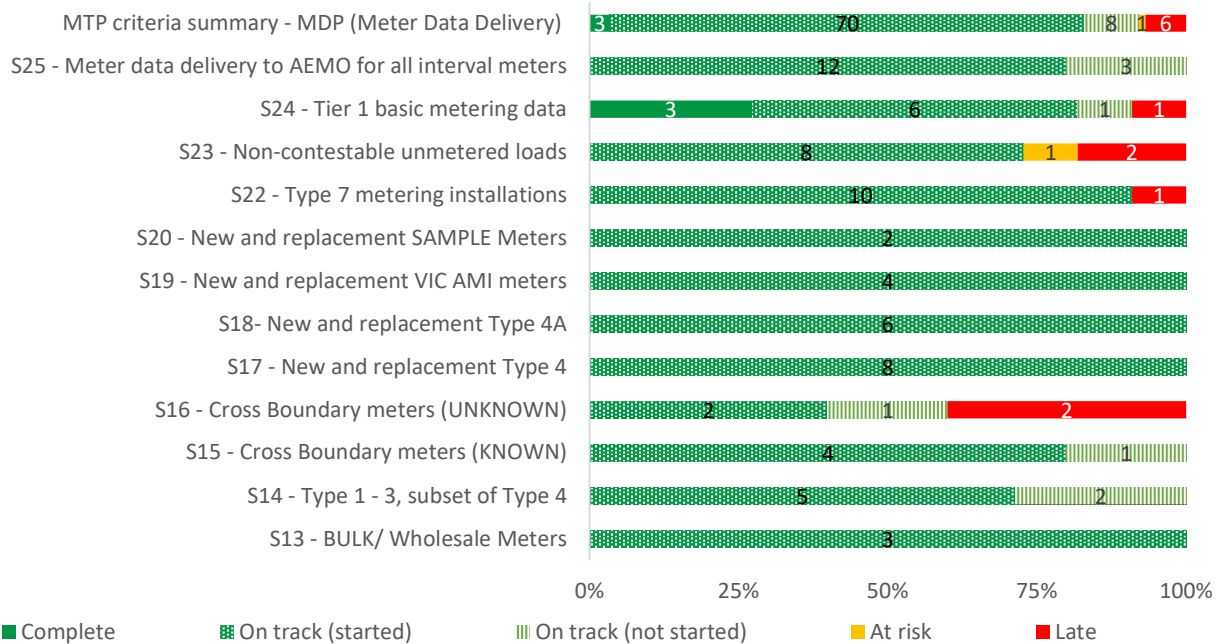


General criteria - Yes/No responses



Metering Transition Plan Criteria

Meter Data Delivery



#	Topic	Observation / Actions
34	MTP Criteria (Meter Data Delivery), MDPs	One MDP reported a 'late' status for MTP activities relating to S24 - Tier 1 basic metering data, S22 - Type 7 metering installations and S23 - Non-contestable unmetered loads. Action 7.6: AEMO to follow up with MDP responding that S24 - Tier 1 basic metering data, S22 - Type 7 metering installations and S23 - Non-contestable unmetered loads. is 'late' to confirm delivery timing
35	MTP Criteria (Meter Data Delivery), MDPs	Multiple MDPs reported a 'late' status for MTP activities relating to S16 - Cross Boundary meters (UNKNOWN). Flow on impact from DNSP/MP late installation issues. Action 7.2: Applicable DNSPs/MPs to provide additional information to help assess the potential consequences of cross boundary supplies not being installed by 1 Oct 2021.

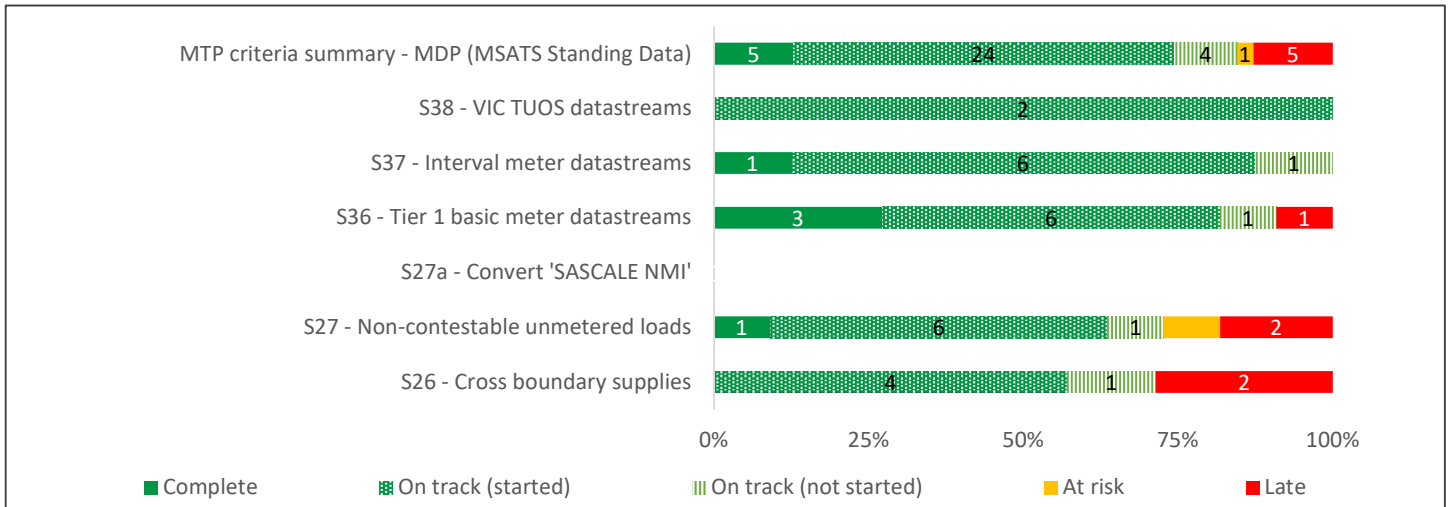
5MS GS Market Readiness Report - Round 7

MDPs

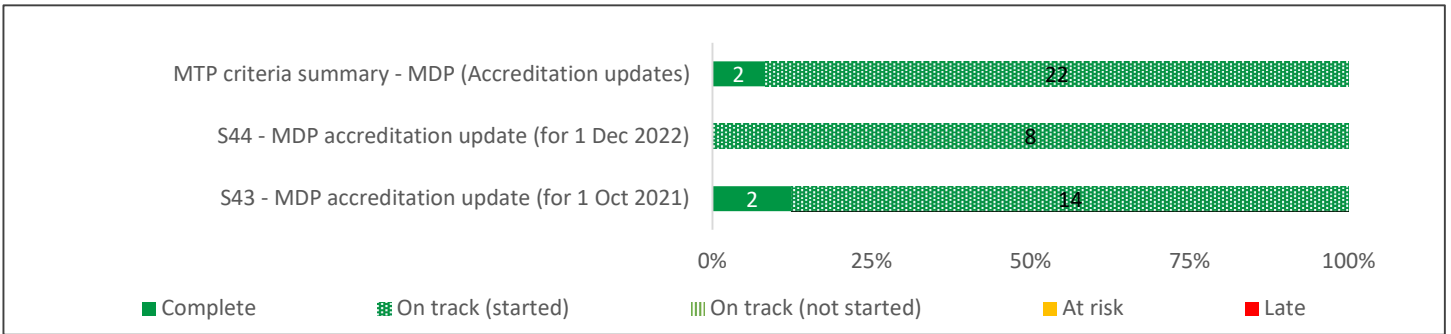
Number of respondents	18	% Industry coverage	100%
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Metering Transition Plan Criteria

MSATS Standing Data Creation and Maintenance



Metering Accreditation Updates



#	Topic	Observation / Actions
36	MTP Criteria (MSATS Standing Data Creation and Maintenance), MDPs	Flow on impacts from previously reported issues surrounding Cross Boundary, Type 7 and NCONUML supplies.

5MS GS Market Readiness Report - Round 7

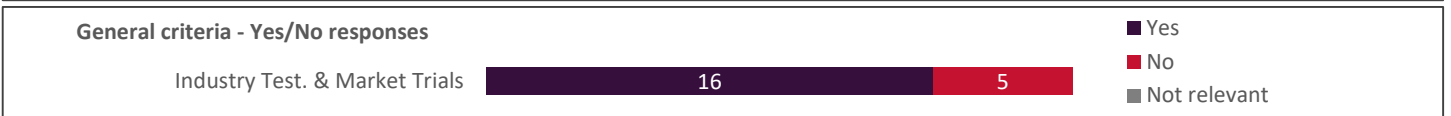
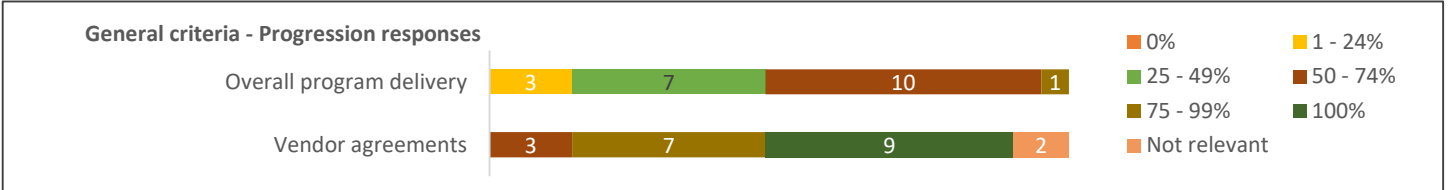
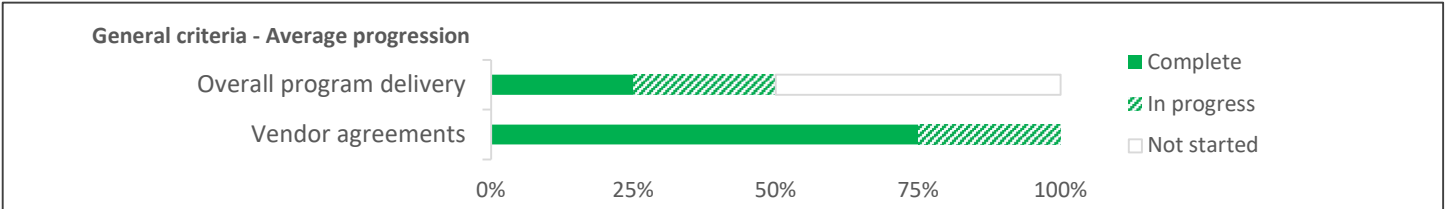
MCs

Number of respondents	21	% Industry coverage	100%
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Overall Progress and Status

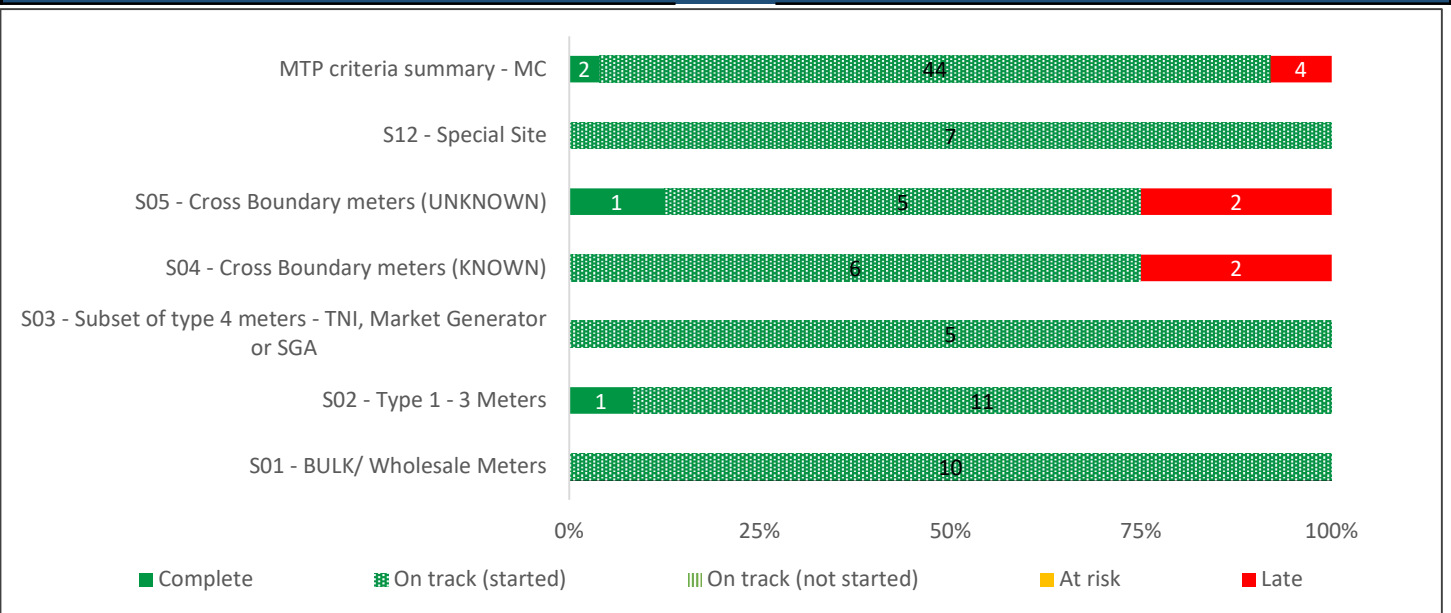
MCs reporting programs, on average, 50-74% complete. Multiple Victorian MCs have reported that some cross boundary supplies may not be installed until April 2022.

General Readiness Criteria



Metering Transition Plan Criteria

Meter Installation and Reconfiguration



#	Topic	Observation / Actions
37	MTP Criteria (Meter Installation and reconfiguration), MCs	<p>Multiple Victorian MCs have reported that some cross boundary supplies may not be installed until April 2022. They did note that larger cross boundary supplies would be prioritised to reduce the impact on UFE calculations.</p> <p>Action 7.2: Applicable DNSPs/MPs/MCs to provide additional information to help assess the potential consequences of cross boundary supplies not being installed by 1 Oct 2021.</p>

Survey Respondents

All organisations - 46

Organisation
AGL
Alinta Energy
Arrow Energy
Aurora Energy
Ausgrid
AusNet
CitiPower Powercor
CS Energy
DDSF
Delta Electricity
EEQ - Ergon Retail
Electranet
Endeavour Energy
Energex and Ergon Energy
Energy australia
Enerven Energy Infrastructure
ENGIE
Essential Energy
Evoenergy
Flow Power
Hydro Tasmania
Intellihub
Jemena
Macquarie Bank Limited
Meridian Energy
Metropolis Metering
Mondo
Origin Energy Ltd
Pacific Hydro
PLUS ES
Powerlink
Powermetric
SA Power Networks
SA Water
Secure Meters
Shell Energy
Shell Energy Australia
Snowy Hydro
Spotless
Stanwell Corporation
TasNetworks
TasNetworks (Transmission)
TransGrid
United Energy
Vector Metering
Yurika Metering (Metering Dynamics)

Generators - 17

Organisation
AGL
Alinta Energy
Arrow Energy
CS Energy
DDSF
Delta Electricity
Energy australia
ENGIE
Hydro Tasmania
Meridian Energy
Origin Energy Ltd
Pacific Hydro
SA Water
Shell Energy
Shell Energy Australia
Snowy Hydro
Stanwell Corporation

Retailers - 17

Organisation
AGL
Alinta Energy
Aurora Energy
CS Energy
Delta Electricity
EEQ - Ergon Retail
Energy australia
ENGIE
Flow Power
Hydro Tasmania
Macquarie Bank Limited
Meridian Energy
Origin Energy Ltd
Pacific Hydro
SA Water
Shell Energy
Stanwell Corporation

Survey Respondents

MPs - 22

Organisation
AusNet
CitiPower Powercor
Endeavour Energy
Energex and Ergon Energy
Enerven Energy Infrastructure
Essential Energy
Evoenergy
Intellihub
Jemena
Metropolis Metering
Mondo
PLUS ES
Powerlink
Powermetric
SA Power Networks
Spotless
TasNetworks
TasNetworks (Transmission)
TransGrid
United Energy
Vector Metering
Yurika Metering (Metering Dynamics)

MDPs - 18

Organisation
AusNet
CitiPower Powercor
Endeavour Energy
Energex and Ergon Energy
Essential Energy
Evoenergy
Intellihub
Jemena
Metropolis Metering
Mondo
PLUS ES
Powermetric
SA Power Networks
Secure Meters
TasNetworks
United Energy
Vector Metering
Yurika Metering (Metering Dynamics)

MCs - 21

Organisation
Ausgrid
AusNet
CitiPower Powercor
Electranet
Endeavour Energy
Essential Energy
Evoenergy
Intellihub
Jemena
Metropolis Metering
Mondo
Origin Energy Ltd
PLUS ES
Powerlink
Powermetric
Spotless
TasNetworks (Transmission)
TransGrid
United Energy
Vector Metering
Yurika Metering (Metering Dynamics)

TNSPs - 7

Organisation
Ausgrid
Electranet
Evoenergy
Mondo
Powerlink
TasNetworks (Transmission)
TransGrid

DNSPs - 11

Organisation
Ausgrid
AusNet
CitiPower Powercor
Endeavour Energy
Energex and Ergon Energy
Essential Energy
Evoenergy
Jemena
SA Power Networks
TasNetworks
United Energy