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# Five-minute settlement and global settlement

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**June 2021**

Market Readiness Report - Round 8

Summary Report

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Key Observations

- One Participant has reported their overall program as 'late', four Participants as 'at-risk'
- AEMO's new Retail Platform was successfully deployed into Production on 21 June 2021
- Multiple Participants have reported a number of 5MS and GS related activities as at-risk or late
  - **At-risk or late items associated to the introduction of 5MS:**
    - The installation/reconfiguration of tranche 1 meters, noting that they are reporting on-track for 1 October
    - The delivery of tranche 1 5-min metering data, noting that they are reporting on-track for 1 October
    - The delivery of 5-min Type 7 metering data, compared to the MTP transition end dates
    - The ability to process and reconcile 5-min metering data
    - The ability to receive and reconcile 5-min settlements data
  - **At-risk or late items associated to the introduction of GS:**
    - The installation of Cross boundary meters, expected to impact the accuracy of UFE values
    - The delivery of 5-min Non-Contestable Unmetered Load, noting that they are reporting on-track for 1 October
    - The delivery of Tier 1 basic meter reads, noting that they are reporting on-track for 1 October

Other items of interest:

- 85% on respondents (37) expect to participate in Market Trials based on Readiness Survey Responses, 30 currently registered
- 50% of Retailers, 80% of MDPs, 80% of DNSPs and approx. 50% of wholesale participants expected to conduct bi-lateral testing
  - Predominately in Quarter 3
- 2 Participants have migrated to their 5MS Bidding Platforms
- 1 major and 5 minor COVID impacts to Participants, including vendor and project resource availability
- No new industry risks were raised by Participants in this round of reporting

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	12	0	0	8	No	No
All essential meters* are able to produce, store and deliver 5-min data	MSPs	No	29	0	4	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	Yes	1	0	0	0	No	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
8.1	Open	AEMO to follow up with the applicable Participants, to confirm their remediation and contingency approaches, regarding their potential inability to process and reconcile 5min metering data by 1 Oct 2021	Multiple Participants have reported their ability to process and reconcile 5min settlements data by 1 Oct 2021 as 'late'
8.2	Open	AEMO to follow up with the applicable Participants, to confirm their remediation and contingency approaches, regarding their potential inability to process and reconcile 5min settlements data by 1 Oct 2021.	Multiple Participants have reported their ability to process and reconcile 5min metering data by 1 Oct 2021 as 'late' or 'at-risk'
8.3	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 Participants have reported their ability to deliver 5min NCONUML metering data as 'late' or 'at-risk'
8.4	Open	AEMO to discuss with applicable DNSPs, impacts associated to the delay in AEMO's NCONUML capability	AEMO's NCONUML capability has been delayed until late July 2021

## 5MS GS Market Readiness Report - Round 8

### Actions log - Round 8

#	Status	Action	Comments
8.5	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 Participants have reported the installation of cross boundary meters as 'late' or 'at-risk'
8.6	Open	AEMO to engage the RWG to confirm the contingency approaches for scenarios where an essential meter is not 5min capable or where an MDP is not be able to deliver 5min metering data for essential meters by 1 Oct 2021.	Multiple Participants servicing essential meters have reported that they will not be able to meet the MTP transition end dates associated to the installation/reconfiguration of tranche 1 meters, the delivery of tranche 1 5-min metering data and the delivery of 5-min Type 7 metering installation load
8.7	Open	Applicable MDPs to provide additional information to help assess the potential consequences of NCONUML 5min metering data not being delivered by 1 Oct 2021.	Multiple Participants have reported the delivery of 5-min Non-Contestable Unmetered Load as 'late' or 'at-risk'
8.8	Open	AEMO to follow up with the applicable Participants to confirm their remediation approach regarding their potential inability to deliver Type 7 5min metering data by 1 Oct 2021.	Multiple Participants have reported the delivery of Type 7 metering data as 'late' or 'at-risk'
8.9	Open	Applicable MDPs to provide additional information to help assess the potential consequences of Tier 1 basic 5min metering data not being delivered by 1 Oct 2021.	Multiple Participants have reported the delivery of Tier 1 basic metering data as 'late'

## 5MS GS Market Readiness Report - Round 8

Actions log - Round 8			
#	Status	Action	Comments
7.1	Closed	AEMO to discuss with a specific MSP issues associated to their overall program delivery.	Follow up has occurred
7.2	Closed	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.	Preliminary information has been provided.
7.3	Closed	Applicable DNSPs to provide additional information to help assess the potential consequences of NCONUML 5min metering data not being delivered by 1 Oct 2021.	Preliminary information has been provided.
7.4	Closed	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.	Follow up has occurred
7.5	Closed	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	Follow up has occurred
7.6	Closed	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	Follow up has occurred
7.7	Closed	RWG to consider the risk associated to Meter Read Type Codes being updated prior to 1 Oct 2021.	Risk has been considered
7.8	Closed	RWG to consider the risk associated to the significant volume of expected CATS CR transactions resulting from MTP, MSDR, BAU and other activities.	Volume analysis has been established and is being reviewed every 2mths

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# Five-minute settlement and global settlement

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**June 2021**

Market Readiness Report - Round 8

Supplementary Information

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## Background

To monitor the industry's level of readiness for the various 5MS and GS transitional activities and commencements, AEMO will co-ordinate readiness reporting across the industry in accordance with the Readiness Reporting Plan.<sup>1</sup> 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).<sup>2</sup>

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 5MS 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
DNSP	Number of DNSPs survey respondents / Total DNSPs	AER 2019 state of the market report - DNSP data
TNSP	Number of TNSPs survey respondents / Total TNSPs	AER 2019 state of the market report - TNSP data

<sup>1</sup> 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>

<sup>2</sup> 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.

<b>Essential capability</b>	<b>Relevant participants</b>	<b>Reporting Criteria</b>
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.

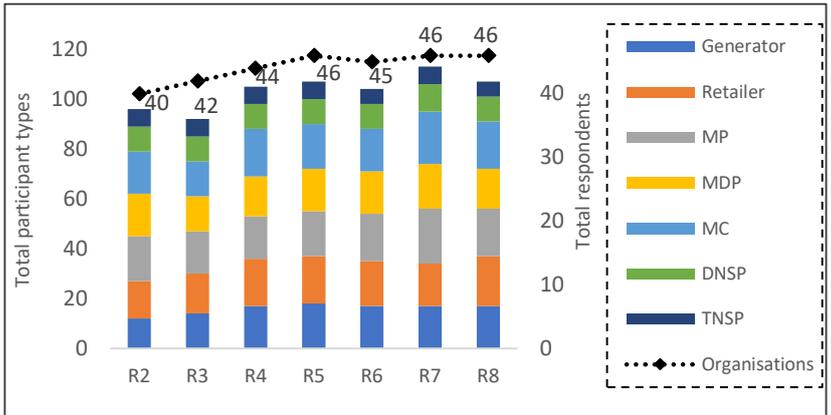
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## 5MS GS Market Readiness Report - Round 8

### Submissions

46 organisations responded to the eighth round of readiness reporting, with the total 'Participant types' dropping by ten. Response rates across all participant types provides sufficient industry coverage.

	This round	Prev. round	Δ (#)	Trend
Respondents	46	46	0	-
Participant types	107	113	-6	↓
Generator	17	17	0	-
Retailer	20	17	3	↑
MP	19	22	-3	↓
MDP	16	18	-2	↓
MC	19	21	-2	↓
DNSP	10	11	-1	↓
TNSP	6	7	-1	↓



### Industry coverage

	% Industry coverage	Industry coverage methodology
Generator	92.9%	Generator respondents' capacity / NEM capacity
Retailer	89.2%	Retailer respondents' settlement vol. / NEM vol.
MP	99.8%	MP respondents' total type 1-4 NMIs/ total type 1-4 NMIs
MDP	99.9%	MDP respondents' total type 1-4 NMIs/ total type 1-4 NMIs
MC	93.2%	MC respondents' total type 1-4 NMIs/ total type 1-4 NMIs
DNSP	90.9%	Number of DNSP survey respondents / Total DNSPs
TNSP	85.7%	Number of TNSP survey respondents / Total TNSPs

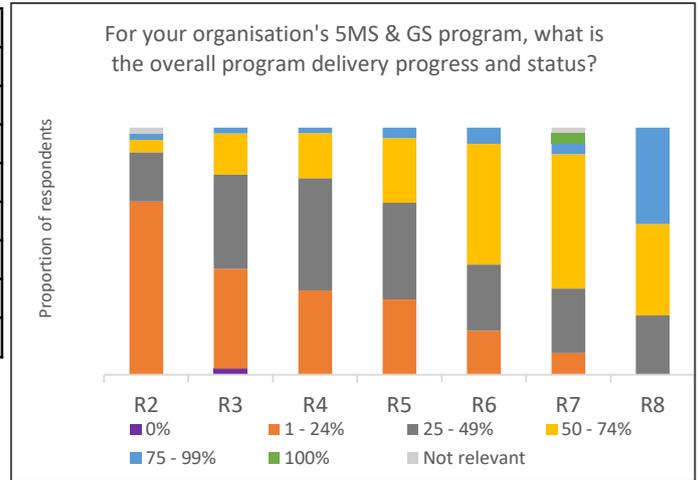
#	Topic	Observation / Actions
1	Response rate, All participant types	46 organisations responded to the eighth round of readiness reporting, with the total 'Participant types' dropping by ten. Response rates across all participant types provides sufficient industry coverage.
2	Response rate, All participant types	Coverage across the industry for all participant types ranges from 85.7% to 99.9%, this exceeds the 80% coverage threshold for reporting against essential criteria. Noting that the Generator coverage in the Queensland jurisdiction just met the essential criteria requirement.

## 5MS GS Market Readiness Report - Round 8

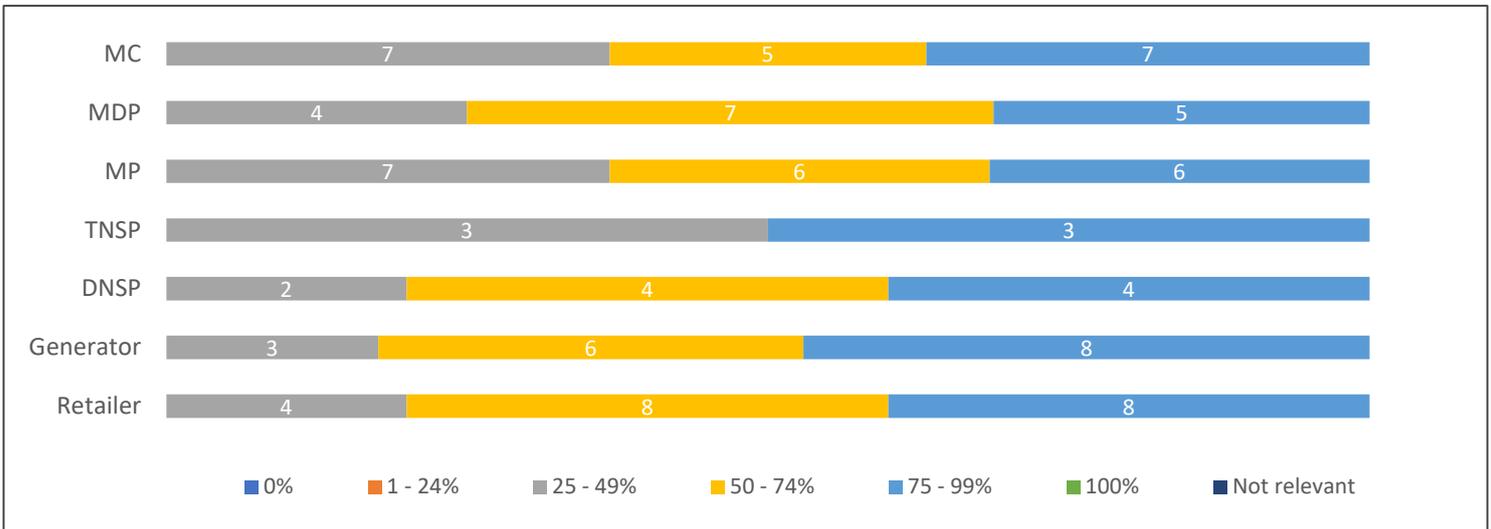
### Overall program delivery progression, by reporting round

76% of respondents reporting that they are at least 50-74% progressed with their overall programs. However, five Participants are now reporting that their overall programs are either 'late' or 'at-risk'. Although most programs are reporting good progress, 24% of Participants are reporting their programs at 25-49% completed, raising concerns around their ability to effectively participate in 5MS Market trials from July.

	Round 3	Round 4	Round 5	Round 6	Round 7	Round 8
0%	2%	0%	0%	0%	0%	0%
1 - 24%	40%	34%	30%	18%	9%	0%
25 - 49%	38%	45%	39%	27%	26%	24%
50 - 74%	17%	18%	26%	49%	54%	37%
75 - 99%	2%	2%	4%	7%	4%	39%
100%	0%	0%	0%	0%	4%	0%
n/a	0%	0%	0%	0%	2%	0%
<b>Total</b>	100%	100%	100%	100%	100%	100%



### Participants' overall program delivery progression, by participant type - Round 8



#	Topic	Observation / Actions
3	Overall Participant Program Progress	76% of respondents reporting that they are at least 50-74% progressed with their overall programs. However, five Participants are now reporting that their overall programs are either 'late' or 'at-risk'. Although most programs are reporting good progress, 24% of Participants are reporting their programs at 25-49% completed, raising concerns around their ability to effectively participate in 5MS Market trials from July.

## 5MS GS Market Readiness Report - Round 8

### COVID-19 Response

Compared to your response in the previous reporting round, 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

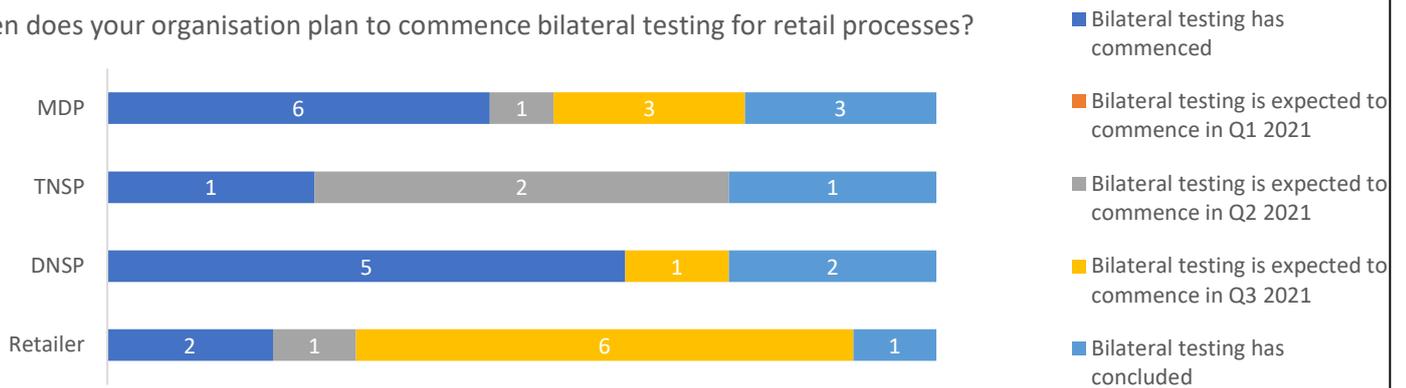
#	Topic	Observation / Actions
4	COVID-19, response	1 respondent reporting that they have experienced a 'Major' change compared to the previous round of reporting

Bilateral testing for retail processes

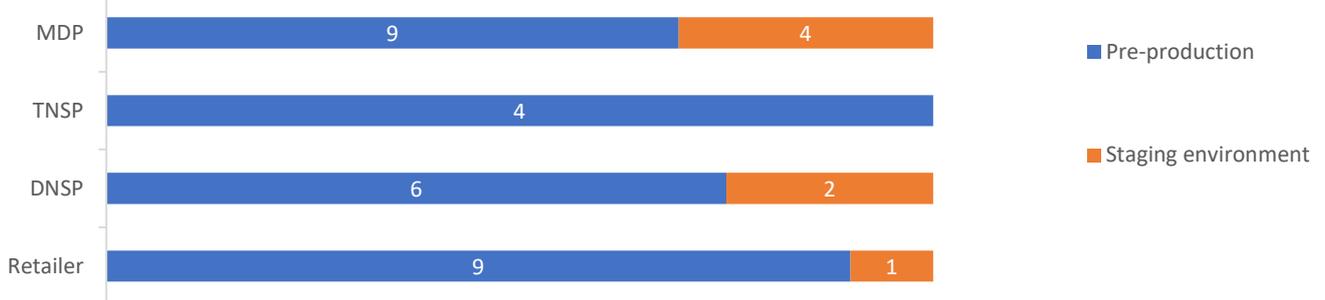
Does your organisation intend to conduct bilateral testing for retail processes?



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?



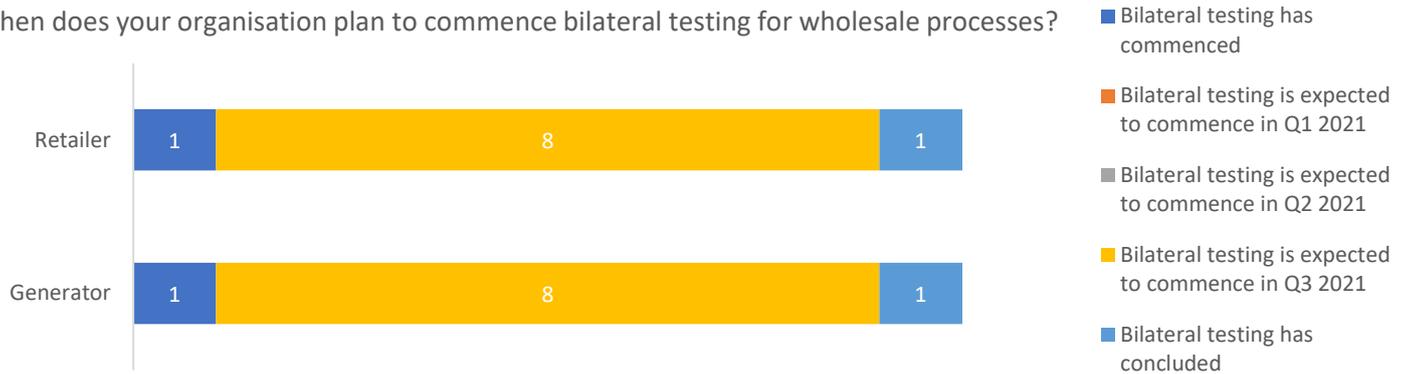
#	Topic	Observation / Actions
5	Bilateral testing, (Retailer, DNSP, TNSP, MDP)	50% of Retailers, 80% of MDPs and 80% of DNSPs expected to conduct bi-lateral testing

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?



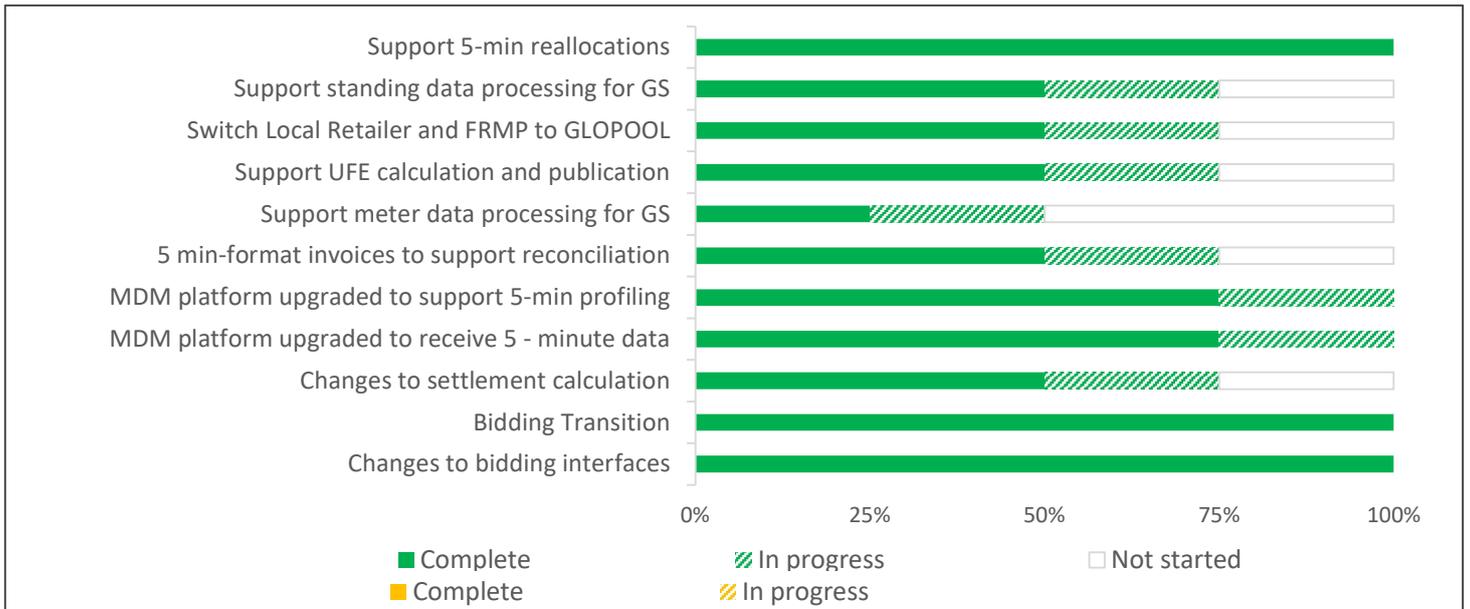
In which environment does your organisation plan to conduct bilateral testing for wholesale processes?



#	Topic	Observation / Actions
6	Bilateral testing, (Retailer, Generator)	Approx. 50% of wholesale participants expected to conduct bi-lateral testing, predominately in quarter 3

## 5MS GS Market Readiness Report - Round 8

### AEMO Readiness Criteria



#	Topic	Observation / Actions
7	AEMO Readiness Criteria	AEMO's new Retail Platform was successfully deployed into Production on 21 June 2021

### 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	12	0	0	8	No	No
All essential meters* are able to produce, store and deliver 5-min data	MSPs	No	29	0	4	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	Yes	1	0	0	0	No	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
8	MTP Criteria	Four MSPs reporting 'late' to the MTP transition end dates regarding the installation/reconfiguration and delivery of 5min metering data associated to essential meters, noting all are reporting on track against 1 October 2021 compliance obligations.

## Retailers

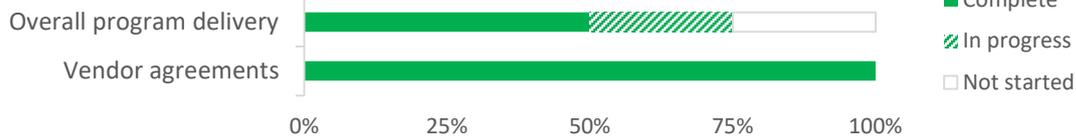
Number of respondents	20	% Industry coverage	89%
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### Overall Progress and Status

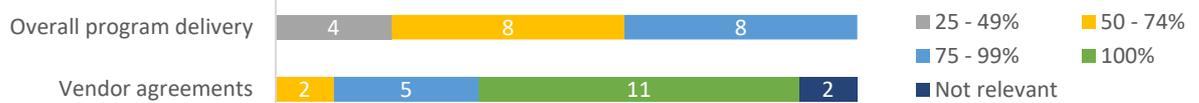
One Retailer reporting their overall program as being 'late'. Two Retailers reporting their ability to receive and reconcile 5-min settlements data as being 'late' and two reporting their ability to receive and process 5-min metering data as being 'late'.

### General Readiness Criteria

#### General criteria - Average progression



#### General criteria - Progression responses

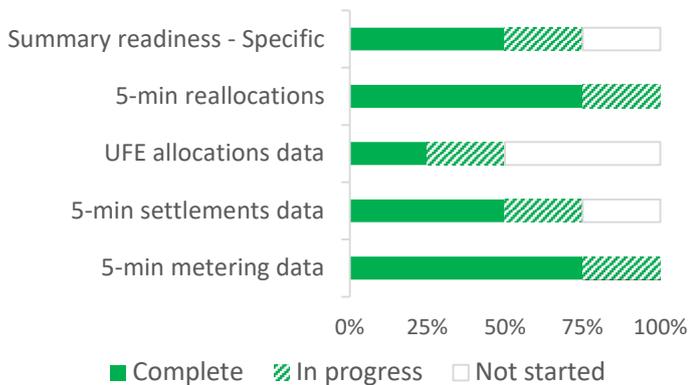


#### General criteria - Yes/No responses

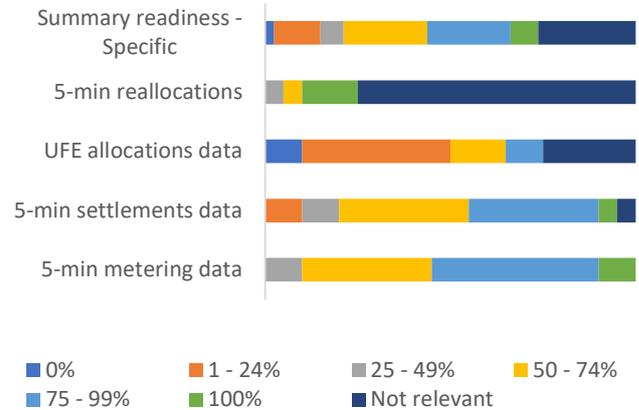


### Specific Readiness Criteria

#### Specific criteria - Average progression



#### Specific criteria - Progression responses



#	Topic	Observation / Actions
9	General criteria (Market Trials), Retailers	Two Retailers reporting that they their ability to participate in market trials is at risk
10	Specific criteria, Retailers	Two Retailers reporting 'late' in relation to their ability to receive and reconcile 5-min settlements data.  <b>Action 8.1:</b> AEMO to follow up with the applicable Participants to confirm their remediation approach regarding their potential inability to process and reconcile 5min settlements data by 1 Oct 2021.
11	Specific criteria, Retailers	Two Retailers reporting 'late' in relation to their ability to receive and process 5-min metering data.  <b>Action 8.2:</b> 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.

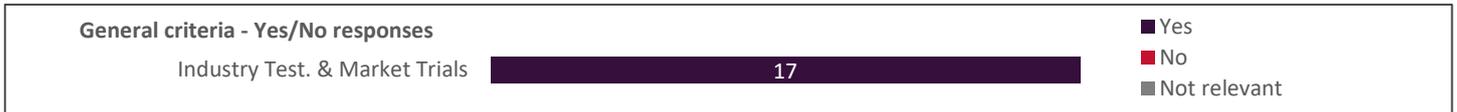
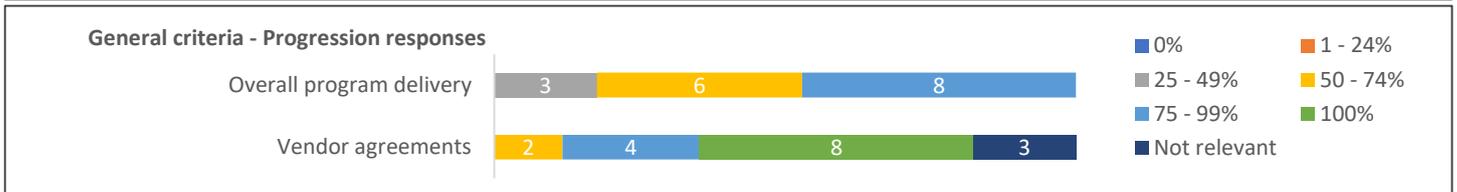
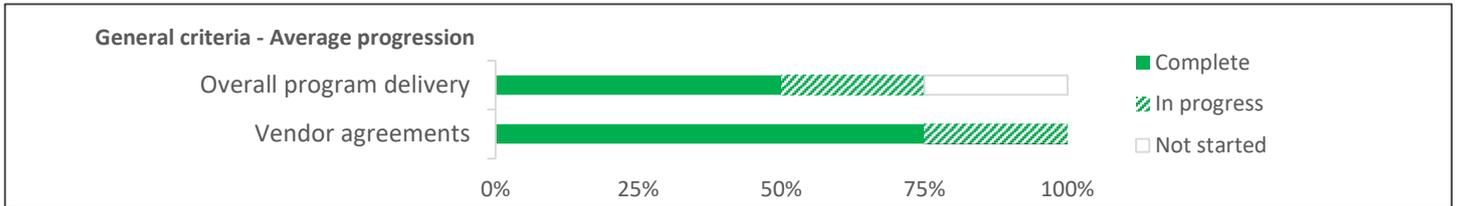
## Generators

Number of respondents	17	% Industry coverage	93%
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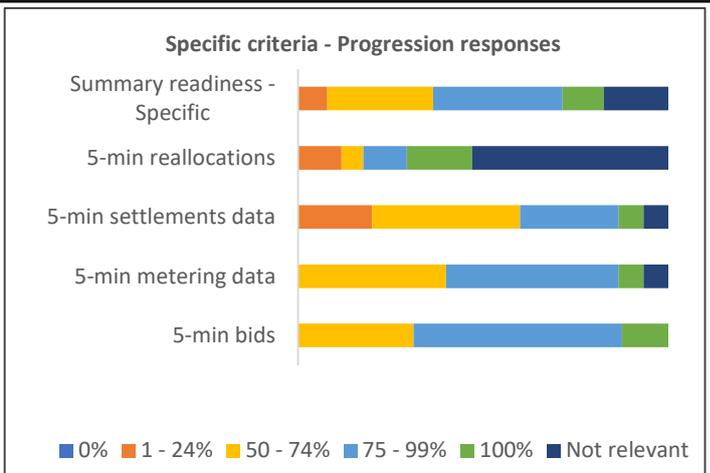
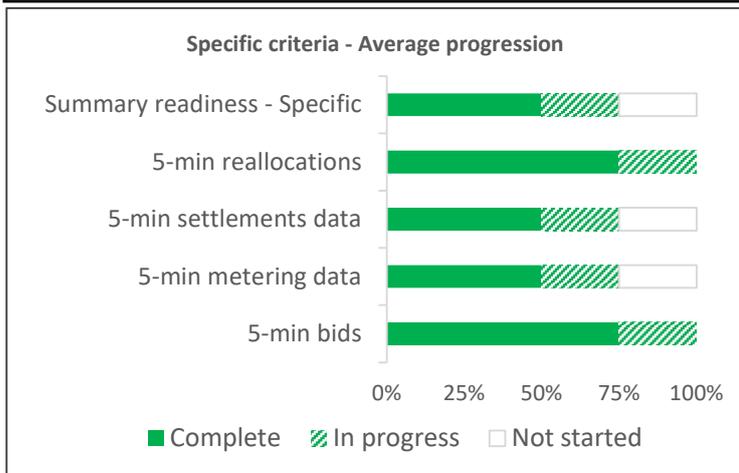
### Overall Progress and Status

One Generator reporting their overall program as being 'at-risk'. One Generator reporting their ability to receive and reconcile 5-min settlements data as being 'late' and another one reported their ability to receive and process 5-min metering data as being 'at-risk'.

### General Readiness Criteria



### Specific Readiness Criteria



#	Topic	Observation / Actions
12	Specific criteria, Generators	Two Generators reporting that they their ability to participate in market trials is at risk
13	Specific criteria, Generators	One Generator reporting 'late' in relation to their ability to receive and reconcile 5-min settlements data.  <b>Action 8.1:</b> AEMO to follow up with the applicable Participants to confirm their remediation approach regarding their potential inability to process and reconcile 5min settlements data by 1 Oct 2021.
14	Specific criteria, Generators	One Generator reporting 'at-risk' in relation to their ability to receive and process 5-min metering data.  <b>Action 8.2:</b> 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.

## TNSPs

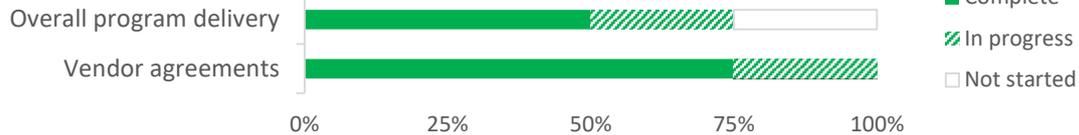
Number of respondents	6	% Industry coverage	86%
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### Overall Progress and Status

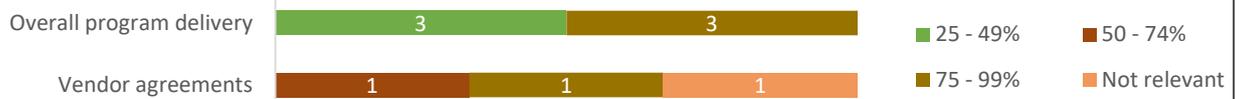
All responding TNSPs reporting their overall programs as being 'on track'. However, one TNSP is expecting to be late for the installation/reconfiguration of their tranche 1 meters by the MTP transition end date, noting that they will be completed by 1 Oct 2021.

### General Readiness Criteria

#### General criteria - Average progression



#### General criteria - Progression responses

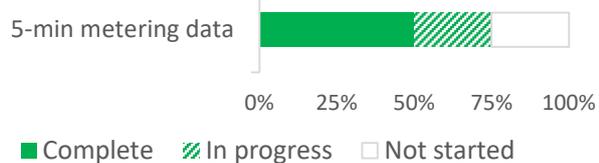


#### General criteria - Yes/No responses

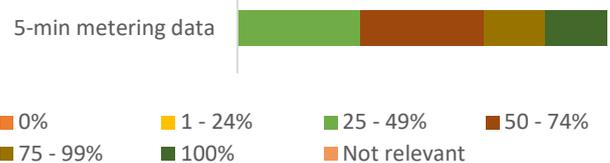


### Specific Readiness Criteria

#### Specific criteria - Average progression

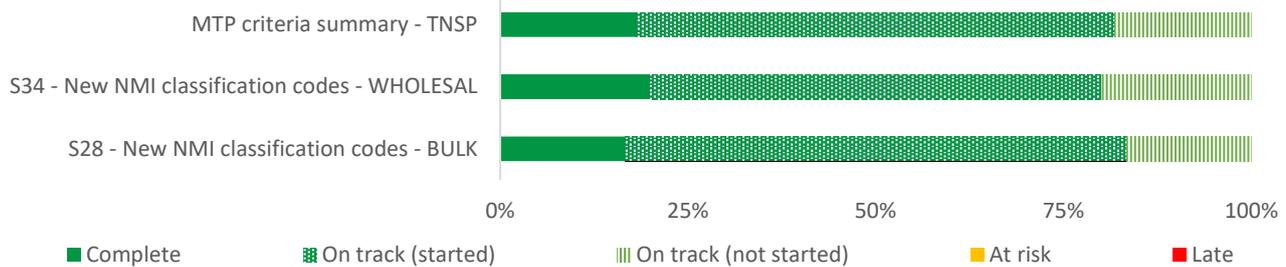


#### Specific criteria - Progression responses



### Metering Transition Plan Criteria

#### MSATS Standing Data Creation and Maintenance



#	Topic	Observation / Actions
15	Overall program delivery, TNSPs	3 out of six (50%) TNSPs reporting their overall program delivery as 25-49% complete but on-track
16	Specific Criteria, TNSPs	<p>One TNSP is expecting to be late for the installation/reconfiguration of their tranche 1 meters by the MTP transition end date, noting that they will be completed by 1 Oct 2021.</p> <p><b>Action 8.2:</b> 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>

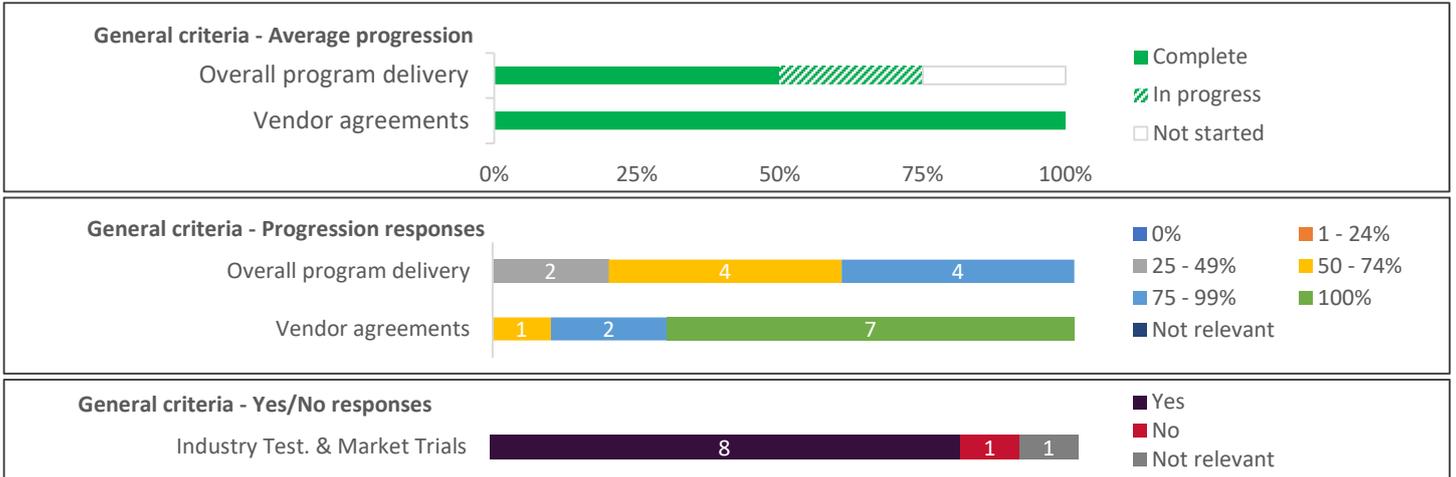
**DNSPs**

Number of respondents	<b>10</b>	% Industry coverage	<b>91%</b>
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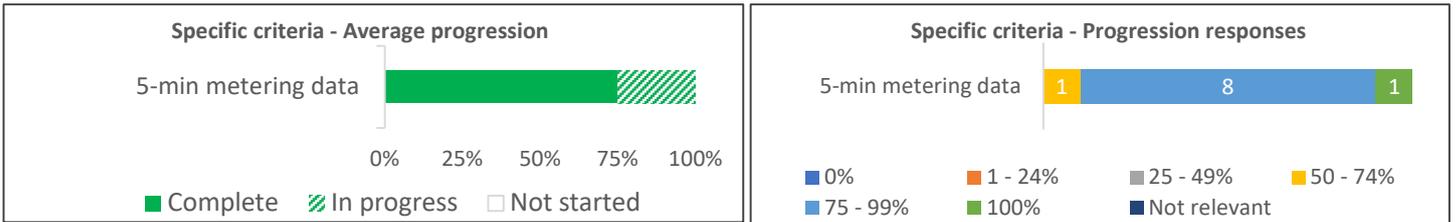
**Overall Progress and Status**

One Distributor reporting their overall program as being 'at-risk'. Four Victorian distributors and one NSW distributor reporting 'at-risk' or 'late' for a mixture of activities associated to NCONUMLs and the application of the new NMI Classification Codes, increasing the risk of a potential impact on UFE values from 1 October 2021. Additionally, a number of DNSPs have separately indicated that the deferral of AEMO's NCONUML capability in the Retail platform will impact their programs.

**General Readiness Criteria**

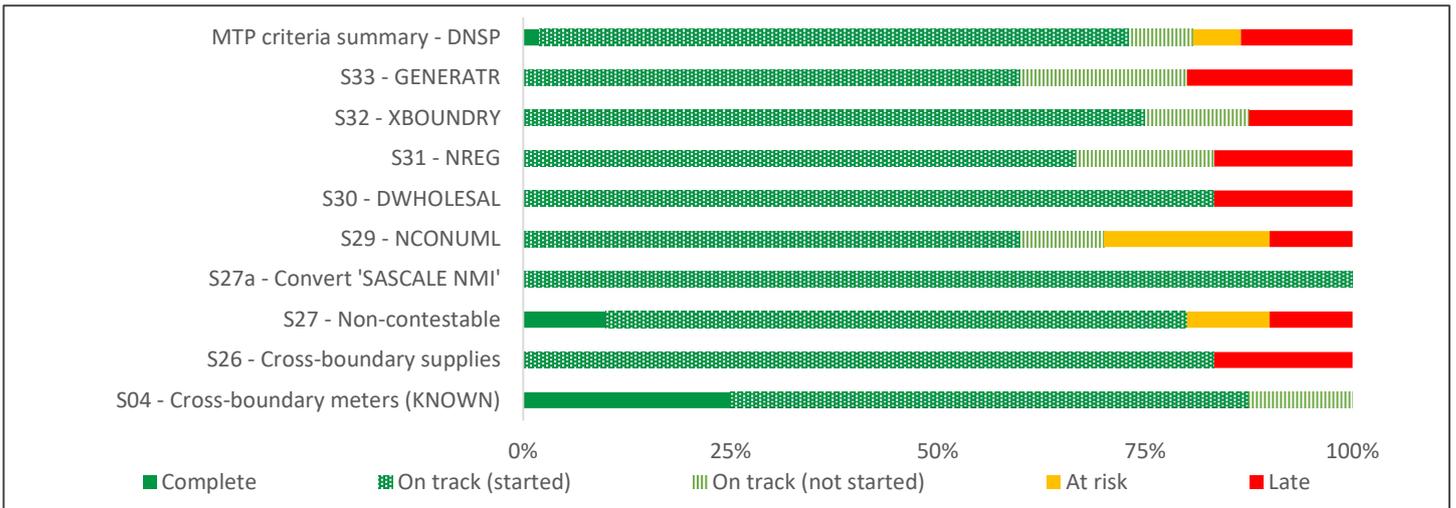


**Specific Readiness Criteria**



**Metering Transition Plan Criteria**

**MSATS Standing Data Creation and Maintenance**



#	Topic	Observation / Actions
17	MTP Criteria, DNSPs	Four DNSPs are reporting 'at-risk' or 'late' regarding the creation of NCONUML NMIs  <b>Action 8.3:</b> 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

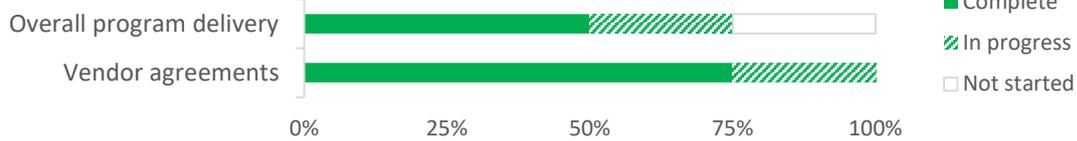
Number of respondents	19	% Industry coverage	100%
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Overall Progress and Status

All MPs reporting their overall programs as 'on-track'. However, 2 MPs reporting activities associated cross boundary supplies as either 'at-risk' or 'late'.

General Readiness Criteria

General criteria - Average progression



General criteria - Progression responses



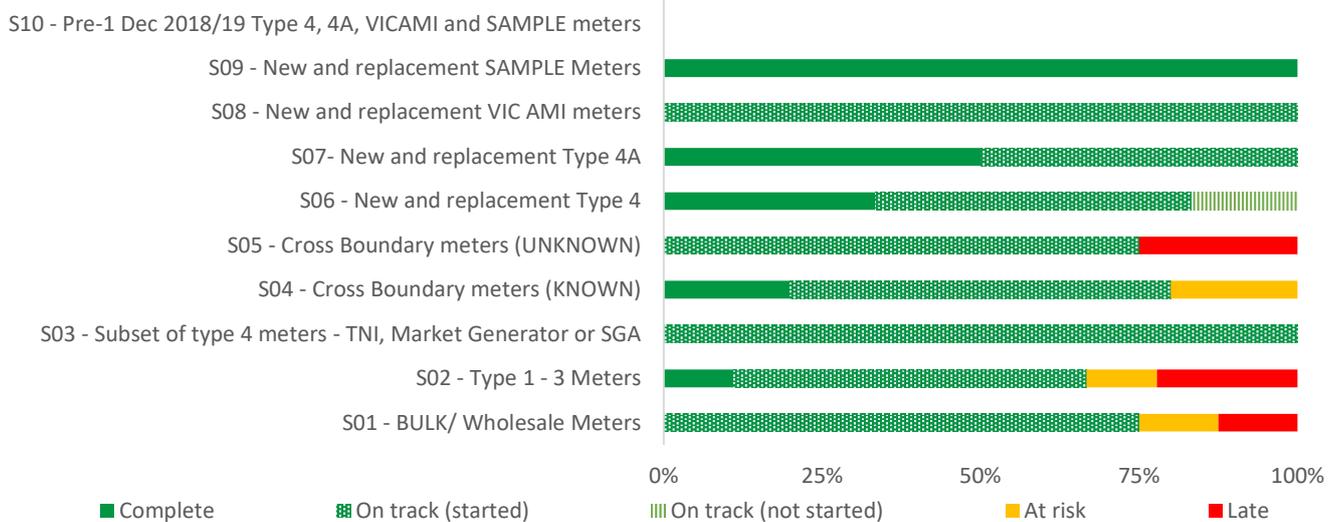
General criteria - Yes/No responses



Metering Transition Plan Criteria

Meter Installation and Reconfiguration

MTP criteria summary - MP (Meter Installation and Reconfig)



#	Topic	Observation / Actions
18	MTP Criteria (Meter Installation and reconfiguration), MPs	Two MPs reported a 'late' status for MTP activities relating to S05 - Cross Boundary meters (UNKNOWN).  <b>Action 8.4:</b> 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.
19	MTP Criteria (Meter Installation and reconfiguration), MPs	Two MPs reporting 'late' to the MTP transition end dates regarding the installation/reconfiguration of essential meters.  <b>Action 8.5:</b> AEMO to engage the RWG to confirm the contingency approaches for scenarios where an essential meter is not 5min capable or where an MDP is not be able to deliver 5min metering data for essential meters by 1 Oct 2021.

## 5MS GS Market Readiness Report - Round 8

### MDPs

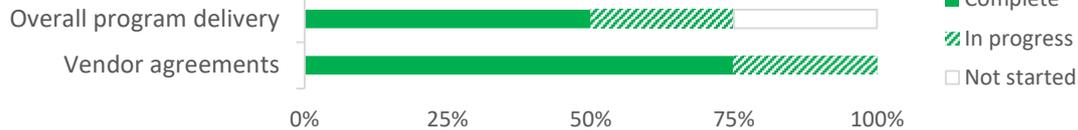
Number of respondents	<b>16</b>	% Industry coverage	<b>100%</b>
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#### Overall Progress and Status

One MDP reporting their overall program 'at-risk'. Multiple MDPs reporting 'at-risk' or 'late', compared to MTP transition end dates, regarding the delivery of 5min metering data associated to a combination of: tranche 1 meters, cross boundary supplies, NCONUML, Type 7 metering installations and Tier 1 basic meters.

#### General Readiness Criteria

##### General criteria - Average progression



##### General criteria - Progression responses

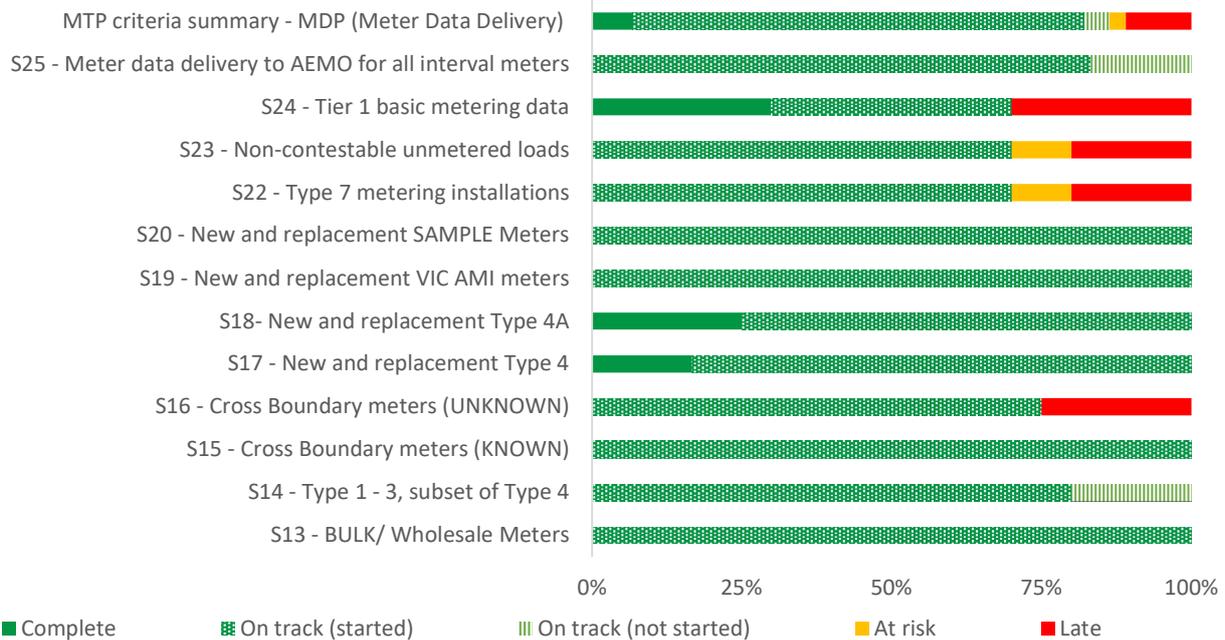


##### General criteria - Yes/No responses



#### Metering Transition Plan Criteria

##### Meter Data Delivery



#	Topic	Observation / Actions
20	MTP Criteria, MDPs	<p>As a potential consequence of the late installation/reconfiguration of tranche 1 meters, the subsequent delivery of 5min metering data may be impacted.</p> <p><b>Action 8.5:</b> AEMO to engage the RWG to confirm the contingency approaches for scenarios where an essential meter is not 5min capable or where an MDP is not be able to deliver 5min metering data for essential meters by 1 Oct 2021.</p>
21	MTP Criteria, MDPs	<p>Four MDPs are reporting 'at-risk' or 'late' regarding the delivery of 5min metering data associated to NCONUMLs</p> <p><b>Action 8.6:</b> Applicable MDPs to provide additional information to help assess the potential consequences of NCONUML 5min metering data not being delivered by 1 Oct 2021.</p>

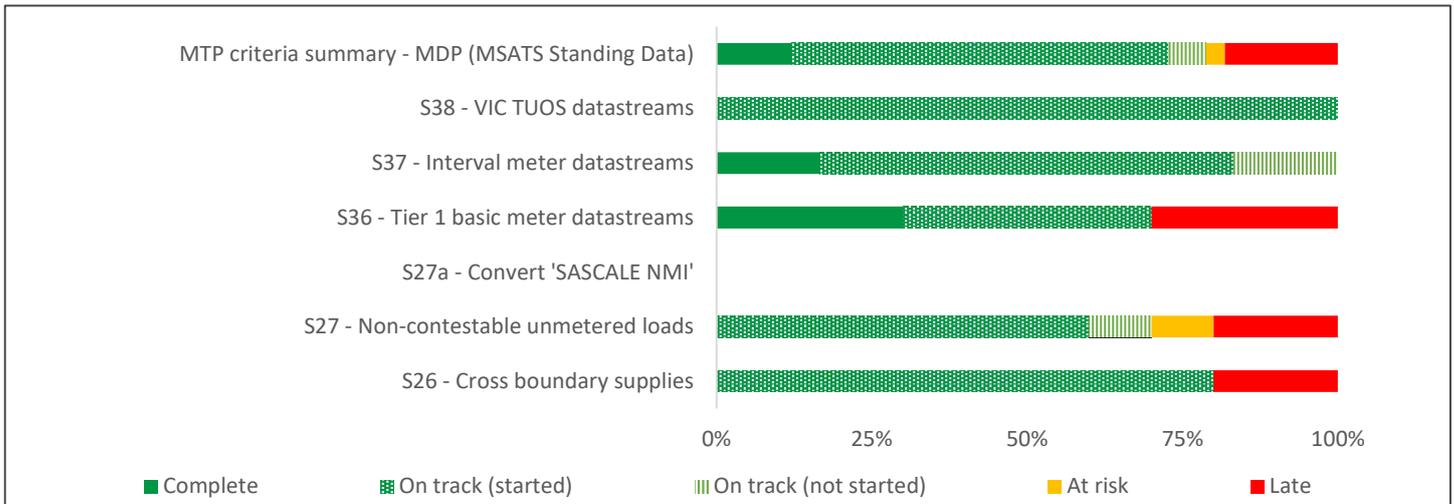
## 5MS GS Market Readiness Report - Round 8

### MDPs

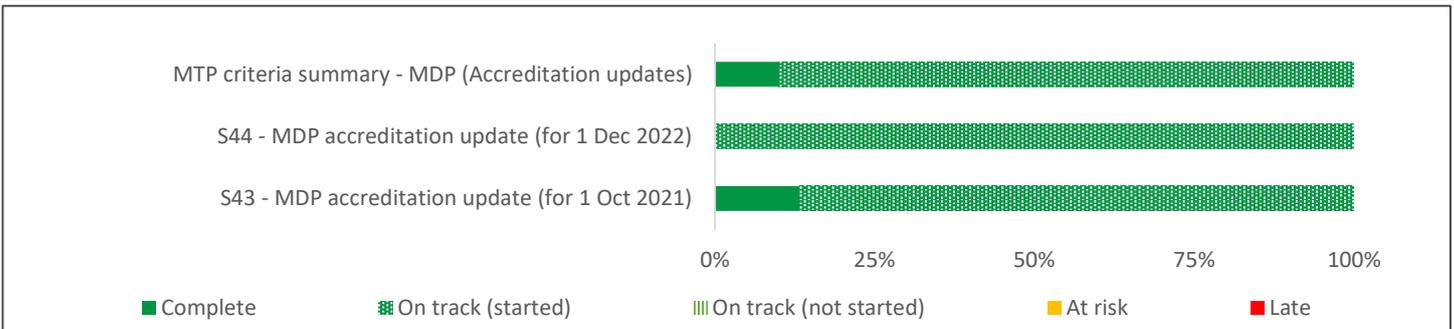
Number of respondents	<b>16</b>	% Industry coverage	<b>100%</b>
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#### Metering Transition Plan Criteria

#### MSATS Standing Data Creation and Maintenance



#### Metering Accreditation Updates



#	Topic	Observation / Actions
22	MTP Criteria, MDPs	<p>Three MDPs are reporting 'at-risk' or 'late' regarding the delivery of 5min metering data associated to type 7 metering installations</p> <p><b>Action 8.7:</b> AEMO to follow up with the applicable Participants to confirm their remediation approach regarding their potential inability to deliver Type 7 5min metering data by 1 Oct 2021.</p>
23	MTP Criteria, MDPs	<p>Three MDPs are reporting 'late' regarding the delivery of tier 1 basic meter reads</p> <p><b>Action 8.8:</b> Applicable MDPs to provide additional information to help assess the potential consequences of Tier 1 basic 5min metering data not being delivered by 1 Oct 2021.</p>

# 5MS GS Market Readiness Report - Round 8

## MCs

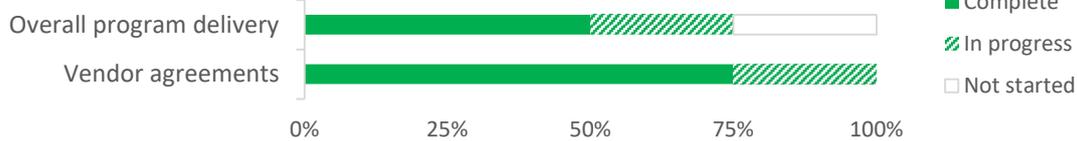
Number of respondents	19	% Industry coverage	93%
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### Overall Progress and Status

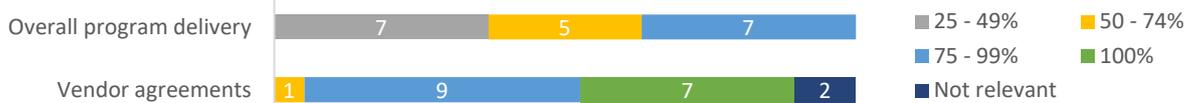
All MCs reporting their overall programs as 'on-track'. However, 2 MPs reporting activities associated cross boundary supplies as either 'at-risk' or 'late'.

### General Readiness Criteria

#### General criteria - Average progression



#### General criteria - Progression responses

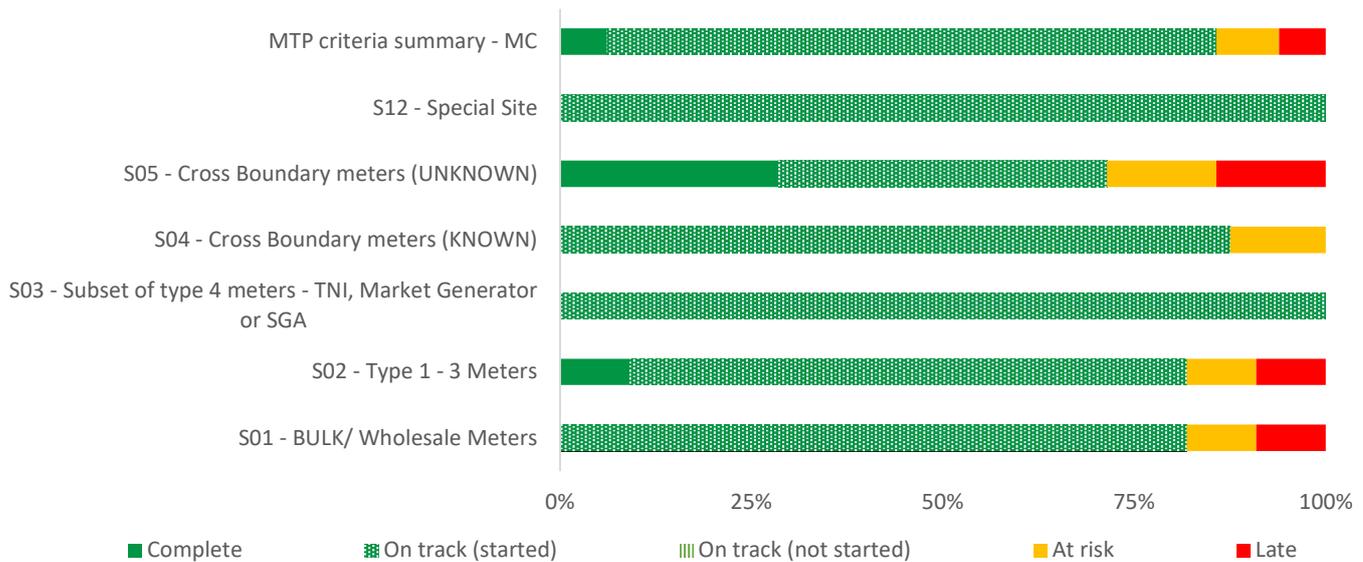


#### General criteria - Yes/No responses



### Metering Transition Plan Criteria

#### Meter Installation and Reconfiguration



#	Topic	Observation / Actions
24	MTP Criteria (Meter Installation and reconfiguration), MCs	<p>Two MPs reported a 'late' status for MTP activities relating to S05 - Cross Boundary meters (UNKNOWN).</p> <p><b>Action 8.4:</b> 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
ActewAGL Retail
AGL
Alinta Energy
APA
Aurora Energy
Ausgrid
Ausnet Services
Basslink
Citipower, Powercor, United energy
CS Energy
Delta Electricity
EEQ - Ergon Retail
ElectraNet
Endeavour Energy
Energex and Ergon Energy
Energy Australia
ENGIE
Essential Energy
Evoenergy
Flow Power
Hydro Tasmania
Inellihub
Infigen
Jemena
Macquarie Bank Limited
Meridian Energy
Mondo
Origin Energy
PLUS ES
Powerlink
Powermetric
Red Energy and Lumo Energy
SA Power Networks
SA Water
Secure MDP
Shell Energy
Shell Energy Australia
Snowy Hydro
Stanwell Corporation
Tango Energy / Pacific Hydro
TasNetworks
TasNetworks Pty Ltd (Transmission)
TransGrid
Vector Metering
Yurika Metering (Metering Dynamics)
ZEN Energy

**Generators - 17**

Organisation
AGL
Alinta Energy
APA
Basslink
CS Energy
Delta Electricity
Energy Australia
ENGIE
Hydro Tasmania
Infigen
Origin Energy
SA Water
Shell Energy
Shell Energy Australia
Snowy Hydro
Stanwell Corporation
Tango Energy / Pacific Hydro

**Retailers - 20**

Organisation
ActewAGL Retail
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
Red Energy and Lumo Energy
SA Water
Shell Energy
Stanwell Corporation
Tango Energy / Pacific Hydro
ZEN Energy

## Survey Respondents

**MPs - 18**

Organisation
Ausnet Services
Citipower, Powercor, United energy
Endeavour Energy
Energex and Ergon Energy
Essential Energy
Evoenergy
Inellihub
Jemena
Mondo
PLUS ES
Powerlink
Powermetric
SA Power Networks
TasNetworks
TasNetworks Pty Ltd (Transmission)
TransGrid
Vector Metering
Yurika Metering (Metering Dynamics)

**MDPs - 16**

Organisation
Ausnet Services
Citipower, Powercor, United energy
Endeavour Energy
Energex and Ergon Energy
Essential Energy
Evoenergy
Inellihub
Jemena
Mondo
PLUS ES
Powermetric
SA Power Networks
Secure MDP
TasNetworks
Vector Metering
Yurika Metering (Metering Dynamics)

**MCs - 18**

Organisation
Ausgrid
Ausnet Services
Citipower, Powercor, United energy
ElectraNet
Endeavour Energy
Essential Energy
Evoenergy
Inellihub
Jemena
Mondo
Origin Energy
PLUS ES
Powerlink
Powermetric
TasNetworks Pty Ltd (Transmission)
TransGrid
Vector Metering
Yurika Metering (Metering Dynamics)

**TNSPs - 6**

Organisation
Ausgrid
ElectraNet
Evoenergy
Powerlink
TasNetworks Pty Ltd (Transmission)
TransGrid

**DNSPs - 10**

Organisation
Ausgrid
Ausnet Services
Citipower, Powercor, United energy
Endeavour Energy
Energex and Ergon Energy
Essential Energy
Evoenergy
Jemena
SA Power Networks
TasNetworks