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# Five-minute settlement and global settlement

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**May 2020**

**Market Readiness Report - Round 2**






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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	Legend
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 pie chart.  All responses are unweighted.	 <ul style="list-style-type: none"> <li>■ Yes</li> <li>▨ No</li> </ul>
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 July 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.	<p>Participants' status and progression towards specific criteria are illustrated through Harvey balls.</p> <p>Each quadrant of the Harvey ball represents 25% progress. Quadrants will progressively fill with solid colours as the criteria is completed.</p> <p>The Harvey Ball will be coloured red, amber or green based on if the criteria is on track, at risk or late.</p> <p>All responses are unweighted.</p>	<p><b>Status: On track Progress: 1 - 24%</b></p>  <ul style="list-style-type: none"> <li>■ Completed</li> <li>▨ In progress</li> <li>■ Not started</li> </ul> <p><b>Status: At risk Progress: 25 - 49%</b></p>  <ul style="list-style-type: none"> <li>■ Completed</li> <li>▨ In progress</li> <li>■ Not started</li> </ul> <p><b>Status: Late Progress: 50 - 74%</b></p>  <ul style="list-style-type: none"> <li>■ Completed</li> <li>▨ In progress</li> <li>■ Not started</li> </ul>
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.	<p>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).</p> <p>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.</p>	<p>All responses are presented in a pie chart. A separate pie chart will also illustrate the proportion of all responses with n/a responses omitted.</p> <p>All responses are unweighted.</p>	<ul style="list-style-type: none"> <li>■ Complete</li> <li>▨ On track (started)</li> <li>▨ On track (not started)</li> <li>■ At risk</li> <li>■ Late</li> </ul> 

## 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

## 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 5MS 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.

<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>

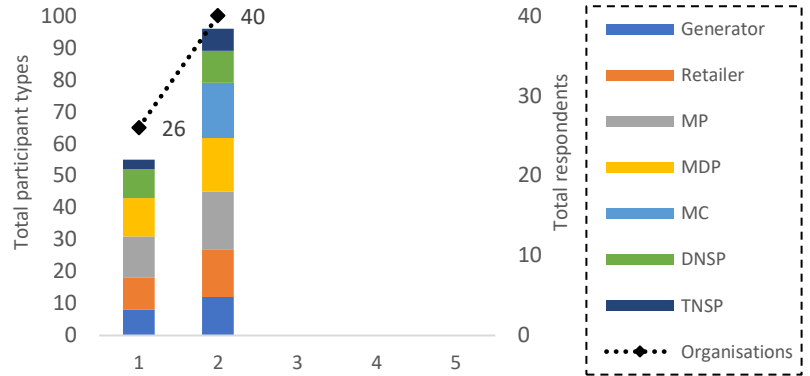
<sup>2</sup> Ibid

## 5MS GS Market Readiness Report - Round 2

### Submissions

Strong survey response with a large increase in respondents in round 2 of reporting. Level of industry coverage provides sound basis for overall readiness assessment.

	This round	Prev. round	Δ (#)	Trend
Respondents	40	26	14	↑
Participant types	96	55	41	↑
Generator	12	8	4	↑
Retailer	15	10	5	↑
MP	18	13	5	↑
MDP	17	12	5	↑
MC	17	-	-	-
DNSP	10	9	1	↑
TNSP	7	3	4	↑

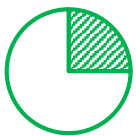



### Industry coverage




















	% Industry coverage	Industry coverage methodology
Generator	88.6%	Generator respondents' capacity / NEM capacity
Retailer	94.6%	Retailer respondents' settlement vol. / NEM vol.
MP	99.9%	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	99.8%	MC respondents' total type 1-4 NMIs/ total type 1-4 NMIs
DNSP	100%	Number of DNSP survey respondents / Total DNSPs
TNSP	100%	Number of TNSP survey respondents / Total TNSPs

#	Topic	Observation / Actions
1	Response rate, All participant types	A total of 40 organisations responded to the second round of readiness reporting, representing an even mix of participant types. An additional 16 new organisations participated in round 2 of reporting, due to AEMO's increased efforts in engaging with participants and encouraging survey responses.
2	Response rate, Metering Co-ordinator	In response to a requests from the RWG, Metering Coordinators(MCs) were invited to report on their readiness in the second round of reporting and future rounds of reporting.














## 5MS GS Market Readiness Report - Round 2

Overall Status	Trend	Commentary
 <b>1 - 25%</b>		<p>The second round of readiness reporting commenced on 14 April 2020, a few days after a rule change to defer 5MS was submitted to the AEMC on 9 April 2020. For this round of reporting, AEMO requested that the industry provide responses according to the existing commencement dates and plans.</p> <p>Responses were received by 23 April 2020, since then AEMO is aware that some organisations may have chosen to make changes to their programs that reflect the possibility of a 12-month deferral to 5MS and GS. This report presents information gathered as of 23 April 2020, and does not reflect any subsequent changes to participants' programs. These changes will likely be identified through the next round of reporting on 7 July 2020.</p> <p>Round 2 of reporting had a strong coverage of 88% to 100% of the industry. Results indicated that respondents are generally on track, and progressing with capability implementation and metering transition activities. The downtrend reflects the number of response categories where subsets of participants are indicating emergent risks, issues and heightened uncertainty in comparison to the previous survey.</p> <p>The AEMO program successfully implemented 5-minute reallocations capability on 1 April 2020. The delivery day for the MDM implementation has been moved to 9th March 2021, requiring replanning of a number of industry test activities, with an overall impact assessment in progress.</p> <p>An emerging theme among responses highlights the uncertainty created because of the rule change proposal, and varying degrees of impact from COVID-19. At the time of publication, AEMO notes that AEMC is still finalising rule change timelines, and that various 5MS working groups have are currently considering the potential impacts of the rule change.</p>

### Summary Readiness - Round 2













	Generator	Retailer	DNSP	TNSP	MP	MDP	MC	Total
General Criteria								 #3,4
Specific Criteria	 ↑ #5		 ↑ #5		n/a	n/a	n/a	
MTP Criteria	n/a	n/a						 #6

#	Topic	Observation / Actions
3	General criteria, All participant types	<p>Majority of participants have secured project funding, established project plans and project governance, and have onboarded project teams. The proportion of established programs is comparable to round 1, due to new respondents in round 2 having comparatively less established programs.</p> <p><b>Action:</b> AEMO to establish overall impact of funding delays</p>
4	General criteria, All participant types	<p>A few organisations noted that a lack of clarity and extended timeline to determine outcome of the 12 month deferral rule change creates uncertainty in project timelines, costs and resourcing. It was noted that a speedy resolution of the pending rule change was paramount. As this represents an emergent risk to industry readiness to current timeframes, AEMO will monitor and manage this risk in the 5MS industry risk and issues register.</p> <p><b>Action:</b> AEMO to monitor and manage uncertainty to industry project timelines, costs and resourcing as a result of pending rule change in the 5MS risks and issues register</p>
5	Specific criteria, Generator and Retailer	All participant types have commenced implementing capability for 5MS and GS commencements. Generators and DNSPs are the most progressed participant type, averaging 25-49% progress compared 1-24% progress for other participant types.
6	Metering Transition Plan criteria, All participants	Participants are progressing with activities in the metering transition plan, with a few items requiring AEMO confirmation and follow up to address recovery approaches for delayed activities.

Legend:	Yes	No	Completed	In progress	Not started	Status: On track	Completed	In progress	Not started	Status: At risk	Completed	In progress	Not started	Status: Late	Complete	On track (started)	On track (not started)	At risk	Late	n/a
																				





## 5MS GS Market Readiness Report - Round 2

### AEMO Readiness Criteria



Overall AEMO Readiness Criteria			Changes to bidding interfaces	
Bidding Transition			Changes to settlement calculation	
MDM platform upgraded to receive 5 - minute data	 #7		MDM platform upgraded to support 5-min profiling	 ↑
5 min-format invoices to support reconciliation			Support meter data processing for GS	
Support UFE calculation and publication			Switch Local Retailer and FRMP to GLOPOOL	
Support standing data processing for GS			Support 5-min reallocations	 ↑ #8

#	Topic	Observation / Actions
7	AEMO Readiness Criteria, AEMO	MDM delivery date has moved to 9 March 2021 as part of the program re-planning exercise. Industry impacts to be confirmed with PCF and incorporated into overall program milestones.  <b>Action:</b> AEMO to discuss with PCF any industry impacts from the change in MDM delivery date, and incorporate into overall program milestones
8	AEMO Readiness Criteria, AEMO	The AEMO reallocations platform successfully went live on 1 April 2020.

### Critical 5MS Readiness Criteria
















Completion of BULK / Wholesale metering transition activities - MP	 #9, 10		Completion of BULK / Wholesale metering transition activities - MDP	 #10
Ability to submit 5-minute bids - Generator	 ↑ #11		Ability to receive and reconcile 5-minute settlements data - Retailer	

### Critical GS Readiness Criteria

Ability to receive and reconcile UFE allocations data - Retailer			Delivery of Tier 1 basic metering data - MDP	
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#	Topic	Observation / Actions
9	Critical 5MS Readiness Criteria, MP	Survey coverage of MPs responsible for BULK/ Wholesale NMIs is now at 100% compared to 54% in previous round of reporting.
10	Critical 5MS Readiness Criteria, MP and MDP	MP and MDP status to complete BULK / Wholesale metering transition activities is 100% started and on track.
11	Critical 5MS Readiness Criteria, Generator	All except two generators have commenced implementing capability to submit 5-min bids, with progress ranging from 0% to 75-99%. One generator reported that their status was at risk, due to systems scoping work and the time required to complete the tender process to engage vendors.  <b>Action:</b> AEMO to follow up with generator reporting a late status

**Legend:**

	Yes		Completed		Completed		Completed		Complete
	No		In progress		In progress		In progress		On track (started)
			Not started		Not started		Not started		On track (not started)
			Status: On track		Status: At risk		Status: Late		n/a

## 5MS GS Market Readiness Report - Round 2

General Readiness Criteria								
	Generator	Retailer	DNSP	TNSP	MP	MDP	MC	Total
Overall program delivery progress and status	#12	#12						#13
Vendor agreements	#12	#12			#12			#13
Industry testing and market trials								#14
Project establishment - Consolidated readiness								
Project funding secured								#15
Project plan established								#16
Project governance established								
Project team onboarded								#17

#	Topic	Observation / Actions
12	Overall program delivery program progress and status, Retailers and Generators	Retailers and Generators are the most progressed participant types. With 47% and 42% at 25%-49% progress or more. Range from 1-24% to 50-74% for Generators and 1-24% to 75-99% for Retailers.
13	Overall program delivery program progress and status, All participant types	<p>Program delivery of 5MS and GS has progressed across the industry, with 27% of the industry now at 25-49% progress or more, compared to 8% two months ago in the previous round of reporting. Majority are on track, with 5 respondents noting that their program is at risk or late.</p> <p><b>Action:</b> AEMO to follow up with participants that are reporting their overall program is not on track</p>
14	Intention to participate in industry testing and market trials, All participant types	<p>Seven respondents have indicated that they do not intend to participate in industry testing and market trials, with some noting that they intend to seek bilateral testing with participants, or conduct testing of internal systems with configurations / protocols provided by AEMO. This is in contrast to the prior round of reporting, where all respondents intended to participate in industry testing and market trials.</p> <p><b>Action:</b> AEMO to follow up with participants that are not participating in industry testing and market trials</p>
15	Project funding, All participant types	<p>A majority of organisations have secured project funding. There were 7 organisations out of 40 that still have not secured funding. Most of these were new survey respondents.</p> <p><b>Action:</b> AEMO to follow up with participants that have not secured project funding.</p>
16	Project plans, All participant types	<p>Almost all organisations have established project plans. However a few have noted that uncertainty has been introduced due to rule change request for 12 month deferral.</p> <p><b>Action:</b> AEMO to monitor and manage uncertainty to industry project timelines as a result of pending rule change in the 5MS risks and issues register</p>
17	Project team onboarding, All participant types	<p>Slight reduction in proportion of respondents that have onboarded project teams due to new respondents in Round 2 of reporting that have less established programs</p> <p><b>Action:</b> AEMO to follow up with respondents with less established programs</p>

**Legend:**

Yes No	Completed In progress Not started Status: On track	Completed In progress Not started Status: At risk	Completed In progress Not started Status: Late
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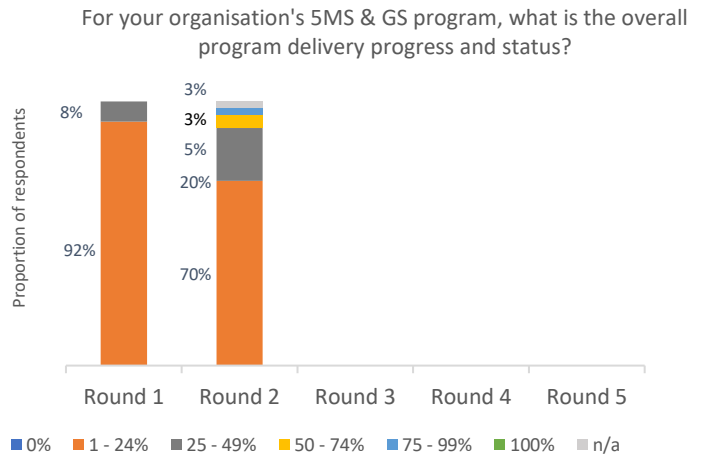
Complete On track (started) On track (not started)	At risk Late n/a
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## 5MS GS Market Readiness Report - Round 2

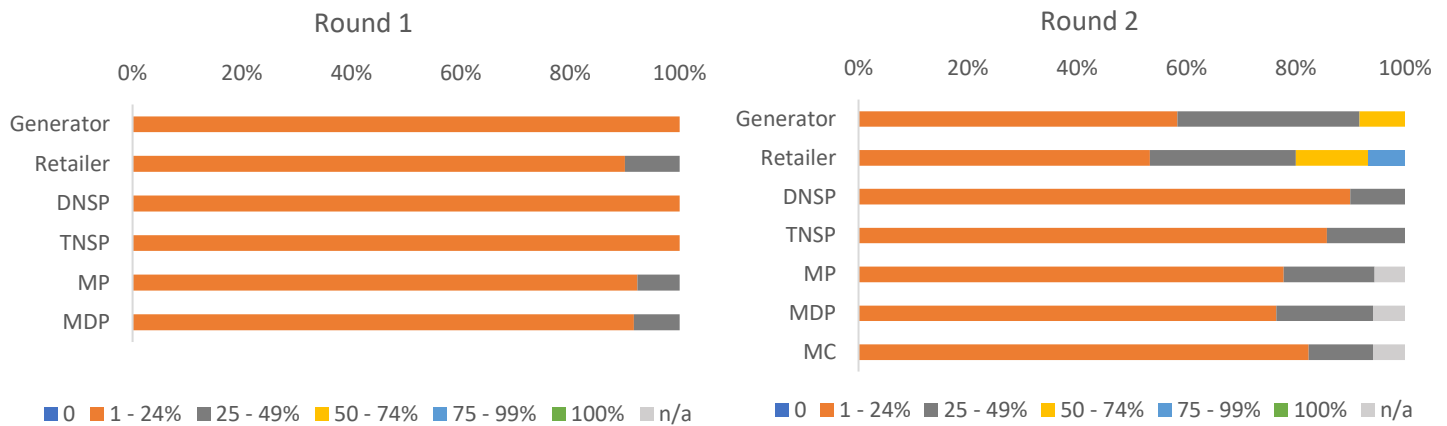
### Overall program delivery progression, by reporting round

Participants' program delivery has progressed since round 1 of reporting in February, with some participants transitioning from program establishment and design to implementation.

	Round 1	Round 2	Round 3	Round 4	Round 5
0%	0%	0%			
1 - 24%	92%	70%			
25 - 49%	8%	20%			
50 - 74%	0%	5%			
75 - 99%	0%	3%			
100%	0%	0%			
n/a	0%	3%			
<b>Total</b>	<b>100%</b>	<b>100%</b>			



### Participants' overall program delivery progression, by participant type



#	Topic	Observation / Actions
18	Overall progression, All participant types	Program delivery of 5MS and GS has progressed in the industry, with 28% of the industry now at the second progression quartile (25 - 49%) or more, compared to 8% two months ago in the previous round of reporting.
19	Overall progression, Retailers and Generators	Retailers and Generators are the most progressed participant types. With 47% and 42% at the second progression quartile (25 - 49%) or more.
20	Overall progression, All participant types	One respondent provided a 'n/a' response towards program delivery progression  <b>Action:</b> AEMO to follow up and seek clarification from 'n/a' response towards program delivery progression

## 5MS GS Market Readiness Report - Round 2

### COVID-19 Questions

At the request of the Executive Forum, participants were asked to report on the impact of COVID-19 on their organisation. A majority of respondents have introduced mitigations, and are reporting a range of impacts. More than half of respondents are reporting a low residual impact.

### COVID-19 Mitigations

What mitigation measures are being implemented to manage the impact COVID-19 may have on your organisation's 5MS and GS program?\*



### COVID-19 Residual Impact

Considering the mitigation measures that are being implemented in response to COVID-19, what is the extent of impact to your organisation's 5MS and GS program delivery?\*



#	Topic	Observation / Actions
21	COVID-19, All participants	Majority of respondents (85%) have implemented mitigation measures to manage the impact of COVID-19. The residual impact to program delivery ranged from Low (55%) to Medium (30%) and High (8%).
22	COVID-19, All participants	The most common measure was for office staff and vendors to work from home. Some programs flagged productivity risk to due to different ways of working and remote access challenges. This risk is higher when external vendors are involved.  <b>Action:</b> AEMO to monitor and manage COVID-19 risk in 5MS industry risks and issues register
23	COVID-19, All participants	A few respondents noted that the extent of impact of COVID-19 will depend on how the situation develops over the next few months. Project delivery will be impacted if key personnel become ill with the virus, or if organisations re-prioritise resources away from 5MS and GS implementation.  <b>Action:</b> AEMO to monitor and manage COVID-19 risk in 5MS industry risks and issues register
24	COVID-19, MP	One MP noted that there may be some physical impacts as per BAU practices for meter replacements. However the number of meter replacements is small for the 1 July 2021 obligation.  <b>Action:</b> AEMO to follow up with MP to further understand any potential impacts to physical meter replacements as a result of COVID-19

\*Note: A total of 40 organisations responded to these questions. Responses were provided in free text form and were interpreted by AEMO on the basis of:

- a) If any mitigation measures are implemented and
- b) If the extent of COVID-19 impacts are High, Medium, or Low.



**Retailers**

Number of Retailers that responded	15	% Industry coverage	95%
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**Overall Progress and Status**

Retailers have well established programs, and are mostly reporting as on track.

General Readiness Criteria	
MTP Criteria	n/a

Specific Readiness Criteria	#25
Overall program delivery progress and status	↑

**General Readiness Criteria**

Project funding secured	
Project governance established	
Agreements with vendors finalised	

Project Plan established	
Project team onboarded	
Intend to participate in industry testing and market trials	

**Specific Readiness Criteria**

Receive and process 5-min metering data	↑ #26
Support 5-minute reallocations	

Receive and reconcile 5-min settlements data	↑
Receive and reconcile UFE allocations data	

#	Topic	Observation / Actions
25	Specific Readiness Criteria, Retailer	One retailer reported that their 5MS implementation status was at risk. Project commencement is being affected by contracting and COVID-19 impacts.  <b>Action:</b> AEMO to follow up with retailer that is reporting a 'at risk' status
26	Specific Readiness Criteria, Retailer	Based on participant feedback, participants were asked to report on their progress and status to receive and process 5-min metering data from Round 2 onwards. Progress was varied, with responses ranging from 0% to 100% complete, with 6 retailers responding with 1-24% progress.

**Legend:**

- Yes
- No
- Completed
- In progress
- Not started
- Status: On track
- Completed
- In progress
- Not started
- Status: At risk
- Completed
- In progress
- Not started
- Status: Late
- Complete
- On track (started)
- On track (not started)
- At risk
- Late
- n/a

**Generators**

Number of Generators that responded	<b>12</b>	% Industry coverage	<b>89%</b>
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**Overall Progress and Status**

Generators have well established programs, and are generally reporting as on track.

General Readiness Criteria	
MTP Criteria	n/a

Specific Readiness Criteria	#27
Overall program delivery progress and status	

**General Readiness Criteria**

Project funding secured	
Project governance established	
Agreements with vendors finalised	

Project Plan established	
Project team onboarded	
Intend to participate in industry testing and market trials	

**Specific Readiness Criteria**

Submit 5-min bids	#28
Receive and reconcile 5-min settlements data	

Receive and process 5-min metering data	
Support 5-minute reallocations	

#	Topic	Observation / Actions
27	Specific readiness criteria, Generator	One generator reported that their status to implement generator specific capability for 5MS was at risk, due to systems scoping work and the time required to complete the tender process to engage vendors  <b>Action:</b> AEMO to follow up with generator that is reporting a 'at risk' status
28	Specific readiness criteria, Generator	All except two generators have commenced implementing capability to submit 5-min bids, with progress ranging from 0% to 75-99%.

**Legend:**

Yes	Completed	Completed	Completed	Complete
No	In progress	In progress	In progress	On track (started)
	Not started	Not started	Not started	On track (not started)
	Status: On track	Status: At risk	Status: Late	At risk
				Late
				n/a

**DNSPs**

Number of DNSPs that responded	<b>10</b>	% Industry coverage	<b>100%</b>
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**Overall Progress and Status**

Majority of DNSPs have established programs, and are generally reporting on track. A few are yet to secure project funding.

General Readiness Criteria	
MTP Criteria	

Specific Readiness Criteria	#29
Overall program delivery progress and status	

**General Readiness Criteria**

Project funding secured	#30
Project governance established	
Agreements with vendors finalised	

Project Plan established	
Project team onboarded	
Intend to participate in industry testing and market trials	

**Specific Readiness Criteria**

Receive and process 5-min metering data	
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**MTP Criteria**

MTP #	Total	excl. n/a
MSATS Standing Data Creation and Maintenance		#31

#	Topic	Observation / Actions
29	Specific Criteria, DNSPs	All DNSPs are reporting on track for DNSP specific criteria, with progress ranging from 1-24% to 75-99%.
30	General Criteria, DNSPs	3 DNSPs responded that they are yet to secure project funding <b>Action:</b> AEMO to follow up with DNSPs that have not secured project funding
31	MTP Criteria, DNSPs	DNSPs are generally on track with activities in the MTP, with approximately half of activities started.

**Legend:**

- Yes
- No
- Completed
- In progress
- Not started
- Completed
- In progress
- Not started
- Status: At risk
- Completed
- In progress
- Not started
- Status: Late
- Complete
- On track (started)
- On track (not started)
- At risk
- Late
- n/a

TNSPs

Number of TNSPs that responded	7	% Industry coverage	100%
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Overall Progress and Status

Majority of TNSPs have established programs, and are generally reporting on track. A few are yet to secure project funding.

General Readiness Criteria	
MTP Criteria	

Specific Readiness Criteria	#32
Overall program delivery progress and status	

General Readiness Criteria

Project funding secured	#33
Project governance established	
Agreements with vendors finalised	

Project Plan established	
Project team onboarded	
Intend to participate in industry testing and market trials	

Specific Readiness Criteria

Receive and process 5-min metering data	
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MTP Criteria

MTP #	Total	excl. n/a
MSATS Standing Data Creation and Maintenance		#34

#	Topic	Observation / Actions
32	Specific Criteria, TNSPs	All except one TNSP are reporting specific criteria as "on track", due to the project being in the early implementation phase, and potential delays due to COVID-19 and working at home arrangements.
33	General Criteria, TNSPs	2 TNSPs responded that they are yet to secure project funding <b>Action:</b> AEMO to follow up with TNSPs that have not secured project funding
34	MTP Criteria. TNSPs	All TNSPs except one are reporting as on track with activities in the MTP, flagging that their organisation's program was at risk due to COVID-19. <b>Action:</b> AEMO to follow up with TNSP reporting that their program was at risk due to COVID-19

**Legend:**

- Yes
- No
- Completed
- In progress
- Not started
- Status: On track
- Completed
- In progress
- Not started
- Status: At risk
- Completed
- In progress
- Not started
- Status: Late
- Complete
- On track (started)
- On track (not started)
- At risk
- Late
- n/a

**MPs**

Number MPs that responded	<b>18</b>	% Industry coverage	<b>100%</b>
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**Overall Progress and Status**

MPs are largely reporting as on track for all sub-categories, with MPs completing initial metering installation and reconfiguration activities. A number of respondents have not met the accreditation update timelines and will require follow up.

General Readiness Criteria	
MTP Criteria	

Specific Readiness Criteria	n/a
Overall program delivery progress and status	

**General Readiness Criteria**

Project funding secured	
Project governance established	
Agreements with vendors finalised	

Project Plan established	
Project team onboarded	
Intend to participate in industry testing and market trials	

**Specific Readiness Criteria**

n/a	
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**Legend:**

- Yes
- No
- Completed
- In progress
- Not started
- Completed
- In progress
- Not started
- Status: At risk
- Completed
- In progress
- Not started
- Status: Late
- Complete
- On track (started)
- On track (not started)
- At risk
- Late
- n/a

MPs

MTP Criteria

MTP #	Total	excl. n/a		MTP #	Total	excl. n/a
Meter Installation and Reconfiguration				Meter Data Delivery		
MSATS Standing Data Creation and Maintenance				Metering Accreditation Updates		

Selected MTP sub-categories\*

Meter Installation and Reconfiguration

MTP #	Total	excl. n/a		MTP #	Total	excl. n/a
S01 BULK / Wholesale Meters		#35		S02 Type 1 - 3 Meters		#35
S03 Subset of type 4 meters - TNI, Market Generator or SGA		#35		S04 Cross Boundary Meters (Known)		#35

Meter Data Delivery

MTP #	Total	excl. n/a
S39 Meter installation type code in MSATS		#36

Metering Accreditation Updates

MTP #	Total	excl. n/a		MTP #	Total	excl. n/a
S41 MP accreditation update (for 1 July 2021)		#37		S42 MP accreditation update (for 1 Dec 2022)		#37

\*Only selected MTP sub-categories are presented in the main report. The full list of MP related sub-categories are published in the appendices of this report

#	Topic	Observation / Actions
35	MTP Criteria (S01, S02, S03, S04), MP	<p>The MTP requires MPs to identify meters that need replacing and reconfiguring, and complete an initial assessment of whether data storage is required for S01, S02, S03 and S04 by 31 March 2020. This date has now passed, implying that all MP that are 'On track (started) have completed these activities and are now progressing the other activities in the sub-category.</p> <p>A number of MPs are yet to commence activities in S02 and S03, and should be reporting a 'Late' status. One MP reported a late status and noted that they will complete their initial assessment by end of May 2020.</p> <p><b>Action:</b> AEMO to clarify with TFG on industry progress and reporting expectation of MP activities in S01, S02, S03, S04.  <b>Action:</b> RWG/TFG to ensure appropriate reporting in round 3  <b>Action:</b> AEMO to follow up with participants on their progress with S02 and S03.</p>
36	MTP Criteria (S39), MP	<p>Complete data cleanse of meter installation type code in MSATS has a transition end date of 30 Nov 2019. However half of MPs reporting that they are late or have not started the activity.</p> <p><b>Action:</b> TFG to clarify intent of activity and update description  <b>Action:</b> RWG/TFG to ensure appropriate reporting in round 3  <b>Action:</b> AEMO to follow up with participants that have not started this activity.</p>
37	MTP Criteria (S41, S42), MP	<p>The MTP requires MPs obtaining accreditation updates for 1 July 2021 and 1 Dec 2021 to complete an assessment of the level of change required for 5MS/GS implementation by 28 Feb 2020, and 31 Mar 2020. However 4 MPs are reporting that they have not started activities in S41 and S42.</p> <p><b>Action:</b> AEMO to follow up with relevant participants regarding accreditation updates</p>

**Legend:**

- Yes
- No
- Completed
- In progress
- Not started
- Completed
- In progress
- Not started
- Status: At risk
- Completed
- In progress
- Not started
- Status: Late
- Complete
- On track (started)
- On track (not started)
- At risk
- Late
- n/a

**MDPs**

Number MPs that responded	<b>18</b>	% Industry coverage	<b>100%</b>
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**Overall Progress and Status**

MPs are largely reporting as on track for all sub-categories, except for a number of respondents that have not met the accreditation update timelines.

General Readiness Criteria	
MTP Criteria	

Specific Readiness Criteria	n/a
Overall program delivery progress and status	

**General Readiness Criteria**

Project funding secured	
Project governance established	
Agreements with vendors finalised	

Project Plan established	
Project team onboarded	
Intend to participate in industry testing and market trials	

**Specific Readiness Criteria**

n/a	
-----	--

**Legend:**

- Yes
- No
- Completed
- In progress
- Not started
- Completed
- In progress
- Not started
- Completed
- In progress
- Not started
- Complete
- On track (started)
- On track (not started)
- At risk
- Late
- n/a

Status: On track      Status: At risk      Status: Late

## 5MS GS Market Readiness Report - Round 2

### MDPs

#### MTP Criteria

MTP #	Total	excl. n/a	MTP #	Total	excl. n/a
Meter Data Delivery			MSATS Standing Data Creation and Maintenance		
Metering Accreditation Updates					

#### Selected MTP sub-categories\*

#### Meter Data Delivery

MTP #	Total	excl. n/a	MTP #	Total	excl. n/a
S17		#38	S18		#38
S19		#38	S20		#38

#### Metering Accreditation Updates

MTP #	Total	excl. n/a	MTP #	Total	excl. n/a
S43		#39	S44		#39

\*Only selected MTP sub-categories are presented in the main report. The full list of MP related sub-categories are published in the appendices of this report

#	Topic	Observation / Actions
38	MTP Criteria (S17, S18, S19, S20), MDP	<p>The MTP requires relevant MDPs to provide a forward plan to AEMO for S17, S18, S19 and S20, by 1 July 2020.</p> <p>Almost all MDPs are reporting they are on track, however approximately 50% of the MDPs are still yet to start this activity. One MDP reported a late status on S18 because they are awaiting a decision to become type 4a accredited.</p> <p><b>Action:</b> AEMO to clarify with TFG on industry progress and reporting expectation of MDP activities in S17, S18, S19, S20.</p>
39	MTP Criteria (S43, S44), MDP	<p>The MTP requires MDPs obtaining accreditation updates for 1 July 2021 and 1 Dec 2021 to complete an assessment of the level of change required for 5MS/GS implementation by 28 Feb 2020, and 31 Mar 2020 respectively. However, 5 MDPs are reporting that they have not started these activities when responding to S43 and S44.</p> <p><b>Action:</b> AEMO to follow up with relevant participants regarding accreditation updates</p>

**Legend:**

	Yes		Completed		Completed		Completed
	No		In progress		In progress		In progress
	Status: On track		Not started		Status: At risk		Status: Late
	Status: On track		Status: At risk		Status: Late		n/a



# 5MS GS Market Readiness Report - Round 2


## MCs

Number MPs that responded	<b>17</b>	% Industry coverage	<b>100%</b>
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### Overall Progress and Status




MCs are reporting on track, however the transition end dates for some MTP activities have passed and MC's are yet to complete the activity. AEMO will follow up and seek clarification.

General Readiness Criteria	
MTP Criteria	

Specific Readiness Criteria	n/a
Overall program delivery progress and status	

### General Readiness Criteria

Project funding secured	
Project governance established	
Agreements with vendors finalised	

Project Plan established	
Project team onboarded	
Intend to participate in industry testing and market trials	

### Specific Readiness Criteria





n/a	
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### MTP Criteria

MTP #	Total	excl. n/a
Meter Installation and Reconfiguration		

#### Selected MTP sub-categories\*

#### Meter Installation and Reconfiguration



















MTP #	Topic	Total	excl. n/a
S01	BULK / Wholesale Meters		 #40
S03	Subset of type 4 meters - TNI, Market Generator or SGA		 #40

MTP #	Topic	Total	excl. n/a
S02	Type 1 - 3 Meters		 #40
S04	Cross Boundary Meters (Known)		 #40

\*Only selected MTP sub-categories are presented in the main report. The full list of MP related sub-categories are published in the appendices of this report

#	Topic	Observation / Actions
40	MTP Criteria (S01, S02, S03, S04), MC	<p>The MTP requires MCs to provide visibility of approach / timeframe for required meter replacement or reconfiguration to AEMO for S01, S02, S03 and S04 by 31 March 2020. This date has now passed, however only one MC reported a "Complete" status. Another MC reported late, however has provided AEMO the required information since.</p> <p><b>Action:</b> AEMO to follow up with relevant participants and clarify with TFG on industry progress and reporting expectation of MC activities in S01, S02, S03, S04.</p>

**Legend:**

	Yes		Completed		Completed		Completed		Complete
	No		In progress		In progress		In progress		On track (started)
	Status: On track		Not started		Not started		Not started		On track (not started)
									At risk
									Late
									n/a

## Survey Respondents

**All organisations - 40**

Organisation
AGL
Arrow Energy
Aurora Energy
Ausgrid DNSP
AusNet Services
CitiPower Powercor United Energy
CleanCo Queensland
CS Energy
EEQ - Ergon Retail
ElectraNet Pty Ltd
Endeavour Energy
Energex and Ergon Energy
Energy QLD
EnergyAustralia
ENGIE ANZ
ERM Power
Essential Energy
Evoenergy
Flow Power
Hydro Tasmania
IntelliHUB
Jemena
Macquarie Bank Limited
Meridian Energy
Metropolis Metering Services Pty Ltd
Mondo
Origin Energy
PLUS ES
Powerlink
Powermetric
Powershop
Red Energy and Lumo Energy
SA Power Networks
Secure Meters
SIMEC ZEN Energy Retail Pty Ltd
Snowy Hydro
Stanwell Corporation
TasNetworks
TransGrid
Vector Metering

**Generators - 12**

Organisation
AGL
Alinta Energy
Arrow Energy
CS Energy
Energy Australia
ENGIE ANZ
ERM Power
Hydro Tasmania
Meridian Energy
Origin Energy
Snowy Hydro
Stanwell

**Retailers - 15**

Organisation
AGL
Aurora Energy
CleanCo Queensland
CS Energy
Energy Australia
ENGIE ANZ
Ergon Retail
ERM Power
Flow Power
Hydro Tasmania
Macquarie Bank
Origin Energy
Powershop
Red Energy and Lumo Energy
SIMEC ZEN Energy

## Survey Respondents

**MPs - 18**

Organisation
Ausnet Services
CitiPower Powercor United Energy
Endeavour Energy
Energex and Ergon Energy
Essential Energy
Evoenergy
IntelliHUB
Jemena
Metering Dynamics - Energy Queensland
Metropolis Metering Services
Mondo
PLUS ES
Powerlink
Powermetric
SA Power Networks
Snowy Hydro
TasNetworks
Vector Metering

**MDPs - 17**

Organisation
Ausnet Services
CitiPower Powercor United Energy
Endeavour Energy
Energex and Ergon Energy
Essential Energy
Evoenergy
IntelliHUB
Jemena
Metering Dynamics - Energy Queensland
Metropolis Metering Services
Mondo
PLUS ES
Powermetric
SA Power Networks
Secure Meters
TasNetworks
Vector Metering

**MCs - 17**

Organisation
Ausnet Services
CitiPower Powercor United Energy
Electranet
Energex and Ergon Energy
Evoenergy
IntelliHUB
Jemena
Metering Dynamics - Energy Queensland
Metropolis Metering Services
Mondo
Origin Energy
PLUS ES
Powerlink
Powermetric
SA Power Networks
TasNetworks
Vector Metering

**TNSPs - 7**

Organisation
Ausgrid
Ausnet Services
Electranet
Evoenergy
Powerlink
TasNetworks
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

MTP Criteria - DNSPs

Number of DNSPs that responded	10	% Industry coverage	100%
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DNSP have responsibility for completing metering transition activities related to MSATS standing data creation and maintenance. They are reporting as on track, with approximately half of activities started.

	Total	excl. n/a
MTP Criteria - Overall		

MSATS Standing Data Creation and Maintenance

MTP #	Total	excl. n/a
MSATS Standing Data Creation and Maintenance		

Activities

MTP #	Total	excl. n/a
S26		
S27a		#41
S30		
S32		

MTP #	Total	excl. n/a
S27		
S29		#42
S31		#42
S33		#42

#	Topic	Observation / Actions
41	MTP Criteria (S27a), DNSPs	A large number (70%) of DNSPs reported that the activities in "S27a - Convert 'SASCALE NMI'" was not applicable to them. Two organisations noted that their organisations do not provide this service, another requested further clarification on the activity.  <b>Action:</b> AEMO to clarify intent of activities in S27a of the MTP with RWG/TFG
42	MTP Criteria (S29,S31,S33), DNSPs	One participant noted that they were waiting for the NCONUML and NREG code to be available, and for the GENERATR code to be reviewed

**Legend:**



- Yes
- No
- Completed
- In progress
- Not started
- Completed
- In progress
- Not started
- Status: At risk
- Completed
- In progress
- Not started
- Status: Late
- Complete
- On track (started)
- On track (not started)
- At risk
- Late
- n/a

### MTP Criteria - TNSPs



Number of DNSPs that responded	7	% Industry coverage	100%
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#### MTP Criteria



TNSP have responsibility for completing metering transition activities related to MSATS standing data creation and maintenance. They are reporting as on track, except for one TNSP that reported at risk.



	Total	excl. n/a
MTP Criteria - Overall		

#### MSATS Standing Data Creation and Maintenance

MTP #	Total	excl. n/a
MSATS Standing Data Creation and Maintenance		

#### Activities

MTP #	Total	excl. n/a
S28 New NMI classification codes - BULK		 #43

MTP #	Total	excl. n/a
S34 New NMI classification codes - WHOLESAL		 #43

#	Topic	Observation / Actions
43	MTP Criteria (S28,S34), TNSPs	One TNSP flagged their organisation's implementation of the MTP was at risk, due to the IT project being in the early implementation phase, potential delays due to COVID-19 and working at home arrangements, and vendor risk.

**Legend:**

- Yes (Purple circle)
- No (Purple circle with diagonal lines)
- Completed (Green circle)
- In progress (Green circle with checkmark)
- Not started (Green circle with diagonal lines)
- Status: On track (Green circle)
- Completed (Yellow circle)
- In progress (Yellow circle with checkmark)
- Not started (Yellow circle with diagonal lines)
- Status: At risk (Yellow circle)
- Completed (Red circle)
- In progress (Red circle with checkmark)
- Not started (Red circle with diagonal lines)
- Status: Late (Red circle)
- Complete (Green square)
- On track (started) (Green square with diagonal lines)
- On track (not started) (Green square with vertical lines)
- At risk (Yellow square)
- Late (Red square)
- n/a (Black square)

MTP Criteria - MPs

Number of MPs that responded	18	% Industry coverage	100%
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MTP Criteria

MPs are largely reporting generally as on track for all sub-categories, with MPs completing initial metering installation and reconfiguration activities. A number of respondents have not met the accreditation update timelines.

	Total	excl. n/a
MTP Criteria - Overall		

Meter Installation and Reconfiguration

MTP #	Total	excl. n/a
Meter Installation and Reconfiguration		

Activities

MTP #		Total	excl. n/a
S01	BULK / Wholesale Meters		#35
S03	Subset of type 4 meters - TNI, Market Generator or SGA		#35
S05	Cross Boundary meters (Unknown)		
S07	New and replacement Type 4A		
S09	New and replacement SAMPLE Meters		

MTP #		Total	excl. n/a
S02	Type 1 - 3 Meters		#35
S04	Cross Boundary Meters (Known)		#35
S06	New and replacement Type 4		
S08	New and replacement VIC AMI meters		
S10	Pre-1 Dec 2018/19 Type 4, 4A, VICAMI and SAMPLE meters		

#	Topic	Observation / Actions
35	MTP Criteria (S01, S02, S03, S04), MP	<p>The MTP requires MPs to identify meters that need replacing and reconfiguring, and complete an initial assessment of whether data storage is required for S01, S02, S03 and S04 by 31 March 2020. This date has now passed, implying that all MP that are 'On track (started) have completed these activities and are now progressing the other activities in the sub-category.</p> <p>A number of MPs are yet to commence activities in S02 and S03, and should be reporting a 'Late' status. One MP reported a late status and noted that they will complete their initial assessment by end of May 2020.</p> <p><b>Action:</b> AEMO to clarify with TFG on industry progress and reporting expectation of MP activities in S01, S02, S03, S04.</p> <p><b>Action:</b> RWG/TFG to ensure appropriate reporting in round 3</p> <p><b>Action:</b> AEMO to follow up with participants on their progress with S02 and S03.</p>

**Legend:**

- Yes (Purple circle)
- No (Purple circle with diagonal lines)
- Completed (Green circle)
- In progress (Green circle with diagonal lines)
- Not started (Green circle with horizontal lines)
- Status: On track (Green circle with diagonal lines)
- Completed (Yellow circle)
- In progress (Yellow circle with diagonal lines)
- Not started (Yellow circle with horizontal lines)
- Status: At risk (Yellow circle with diagonal lines)
- Completed (Red circle)
- In progress (Red circle with diagonal lines)
- Not started (Red circle with horizontal lines)
- Status: Late (Red circle with diagonal lines)
- Complete (Green square)
- On track (started) (Green square with diagonal lines)
- On track (not started) (Green square with horizontal lines)
- At risk (Yellow square)
- Late (Red square)
- n/a (Black square)

MTP Criteria - MPs (continued)

Meter Data Delivery

MTP #	Total	excl. n/a
Meter Data Delivery		

Activities

MTP #	Total	excl. n/a
S13 BULK / Wholesale Meters		
S15 Cross Boundary Meters (Known)		
S18 New and replacement Type 4A		
S20 New and replacement SAMPLE Meters		

MTP #	Total	excl. n/a
S14 Type 1 - 3, subset of 4		
S17 New and replacement Type 4		
S19 New and replacement VIC AMI meters		

MSATS Standing Data Creation and Maintenance

MTP #	Total	excl. n/a
MSATS Standing Data Creation and Maintenance		

Activities

MTP #	Total	excl. n/a
S26 Cross-boundary supplies		
S27 a Convert 'Sascale NMI'		

MTP #	Total	excl. n/a
S27 Non-contestable unmetered loads		
S39 Meter installation type code in MSATS		

Metering Accreditation Updates

MTP #	Total	excl. n/a
Metering Accreditation Updates		

Activities

MTP #	Total	excl. n/a
S41 MP accreditation update (for 1 July 2021)		

MTP #	Total	excl. n/a
S42 MP accreditation update (for 1 Dec 2022)		

#	Topic	Observation / Actions
36	MTP Criteria (S39), MP	Complete data cleanse of meter installation type code in MSATS has a transition end date of 30 Nov 2019. However half of MPs reporting that they are late or have not started the activity.  <b>Action:</b> TFG to clarify intent of activity and update description <b>Action:</b> RWG/TFG to ensure appropriate reporting in round 3 <b>Action:</b> AEMO to follow up with participants that have not started this activity.
37	MTP Criteria (S41, S42), MP	The MTP requires MPs obtaining accreditation updates for 1 July 2021 and 1 Dec 2022 to complete an assessment of the level of change required for 5MS/GS implementation by 28 Feb 2020, and 31 Mar 2020. However 4 MPs are reporting that they have not started activities in S41 and S42.  <b>Action:</b> AEMO to follow up with relevant participants regarding accreditation updates

**Legend:**

- Yes
- No
- Completed
- In progress
- Not started
- Completed
- In progress
- Not started
- Completed
- In progress
- Not started
- Complete
- On track (started)
- On track (not started)
- At risk
- Late
- n/a

MTP Criteria - MDPs

Number of MPs that responded	18	% Industry coverage	100%
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MTP Criteria

MDPs are largely reporting as on track for all sub-categories, except for a number of respondents that have not met the accreditation update timelines.

	Total	excl. n/a
MTP Criteria - Overall		

Meter Data Delivery

MTP #	Total	excl. n/a
Meter Data Delivery		

Activities

MTP #	Total	excl. n/a		MTP #	Total	excl. n/a
S13				S14		
S15				S16		
S17			#23	S18		
S19			#23	S20		
S22				S23		
S24				S25		

#	Topic	Observation / Actions
23	MTP Criteria (S17, S18, S19, S20), MDP	<p>The MTP requires relevant MDPs to provide a forward plan to AEMO for S17, S18, S19 and S20, by 1 July 2020.</p> <p>Almost all MDPs are reporting they are on track, however approximately 50% of the MDPs are still yet to start this activity. One MP reported a late status on S18 because they are awaiting a decision to become type 4a accredited.</p> <p><b>Action:</b> AEMO to clarify with TFG on industry progress and reporting expectation of MDP activities in S17, S18, S19, S20.</p> <p><b>Action:</b> AEMO to follow up with participant reporting a late status</p>

**Legend:**

- Yes
- No
- Completed
- In progress
- Not started
- Completed
- In progress
- Not started
- Completed
- In progress
- Not started
- Status: Late
- Status: n/a
- Complete
- On track (started)
- On track (not started)
- At risk
- Late
- n/a



MTP Criteria - MDPs (continued)

MSATS Standing Data Creation and Maintenance

MTP #	Total	excl. n/a			
MSATS Standing Data Creation and Maintenance					
Activities					
MTP #	Total	excl. n/a	MTP #	Total	excl. n/a
S26			S27		
S27 <sup>a</sup>			S36		
S36			S38		

Metering Accreditation Updates

MTP #	Total	excl. n/a			
Metering Accreditation Updates					
Activities					
MTP #	Total	excl. n/a	MTP #	Total	excl. n/a
S43			S44		

#	Topic	Observation / Actions
38	MTP Criteria (S43, S44), MDP	<p>The MTP requires MDPs obtaining accreditation updates for 1 July 2021 and 1 Dec 2021 to complete an assessment of the level of change required for 5MS/GS implementation by 28 Feb 2020, and 31 Mar 2020 respectively. However, 5 MDPs are reporting that they have not started these activities when responding to S43 and S44.</p> <p><b>Action:</b> AEMO to follow up with relevant participants regarding accreditation updates</p>

**Legend:**



- Yes
- No
- Completed
- In progress
- Not started
- Status: On track
- Completed
- In progress
- Not started
- Status: At risk
- Completed
- In progress
- Not started
- Status: Late
- Complete
- On track (started)
- On track (not started)
- At risk
- Late
- n/a

**MTP Criteria - MCs**



Number of MPs that responded	<b>17</b>	% Industry coverage	<b>100%</b>
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**MTP Criteria**







MCs are reporting on track, however the transition end dates for some MTP activities have passed and MCs have not completed the activity. AEMO will follow up and seek clarification.







	Total	excl. n/a
MTP Criteria - Overall		

**Meter Installation and Reconfiguration**

MTP #	Total	excl. n/a
Meter Installation and Reconfiguration		













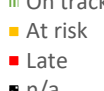



**Activities**

MTP #	Total	excl. n/a
S01 BULK / Wholesale Meters		 #40
S03 Subset of type 4 meters - TNI, Market Generator or SGA		 #40
S05 Cross Boundary meters (Unknown)		

MTP #	Total	excl. n/a
S02 Type 1 - 3 Meters		 #40
S04 Cross Boundary Meters (Known)		 #40
S12 Special Site		

#	Topic	Observation / Actions
40	MTP Criteria (S01, S02, S03, S04), MC	<p>The MTP requires MCs to provide visibility of approach / timeframe for required meter replacement or reconfiguration to AEMO for S01, S02, S03 and S04 by 31 March 2020. This date has now passed, however only one MC reported a "Complete" status. Another MC reported late, however has provided AEMO the required information since.</p> <p><b>Action:</b> AEMO to follow up with relevant participants and clarify with TFG on industry progress and reporting expectation of MC activities in S01, S02, S03, S04.</p>

**Legend:**

-  Yes
-  No
-  Completed
-  In progress
-  Not started
-  Completed
-  In progress
-  Not started
-  Completed
-  In progress
-  Not started
-  Complete
-  On track (started)
-  On track (not started)
-  At risk
-  Late
-  n/a