AEMO
AUSTRALIAN ENERGY MARKET OPERATOR

# Five-minute settlement and global settlement

**October 2020**

## Market Readiness Report - Round 4

**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.[1] NEM participants are invited to submit readiness information on a periodic basis through a Readiness Assessment Questionnaire. The results from these surveys are presented in this Market Readiness Report.

**Readiness criteria**

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

| Criteria | Overview | Response options | Results presentation |
|---|---|---|---|
| General Readiness Criteria | Criteria related to the level of program establishment of participant programs. | Participants are asked to provide Yes / No responses to a set of program establishment questions e.g. if funding is secured. | All Yes and No responses are presented in a bar chart.<br><br>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<br>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.<br><br>Each segment of the bar represents 25% progress. The bar will progressively fill with solid colours as the criteria is completed.<br><br>The bar chart will be coloured red, amber or green based on if the criteria is on track, at risk or late.<br><br>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).<br><br>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.<br><br>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 |

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

[2] Ibid

**Essential industry capabilities for 5MS and GS commencements**

The essential minimum capabilities for 5MS and GS commencements are described below for each relevant participant type.

| Essential capability | Relevant participant | Reporting Criteria |
|---|---|---|
| Generators and MNSPs are able to submit 5-min offers | Generators / MNSPs | a) Generators representing >80% of regional load are responding to Industry Readiness Surveys, and;<br><br>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;<br><br>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;<br><br>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;<br><br>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 |

**Disclaimer**

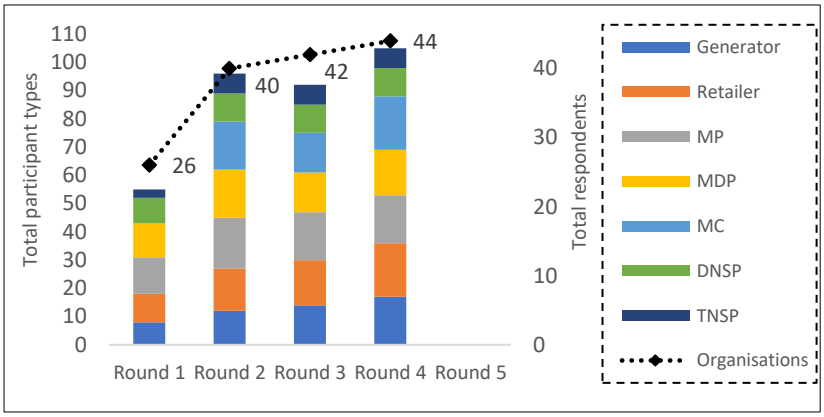
This market readiness report has been prepared by AEMO at the request of the industry for the purpose of tracking and monitoring the industry's level of readiness for 5MS and GS. This report contains self-reported readiness information provided by participants, and may not be free from errors or omissions. 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.

# 5MS GS Market Readiness Report - Round 4

## Submissions

Strong survey coverage, with 44 respondents representing 95-100% of the industry. Response rate across all participant types provides representative industry coverage.

| | This round | Prev. round | Δ (#) | Trend |
|---|---|---|---|---|
| Respondents | 44 | 42 | 2 | ↑ |
| Participant types | 105 | 92 | 13 | ↑ |
| Generator | 17 | 14 | 3 | ↑ |
| Retailer | 19 | 16 | 3 | ↑ |
| MP | 17 | 17 | 0 | - |
| MDP | 16 | 14 | 2 | ↑ |
| MC | 19 | 14 | 5 | ↑ |
| DNSP | 10 | 10 | 0 | - |
| TNSP | 7 | 7 | 0 | - |




## Industry coverage

| | % Industry coverage | Industry coverage methodology |
|---|---|---|
| Generator | 95.1% | Generator respondents' capacity / NEM capacity |
| Retailer | 98.6% | Retailer respondents' settlement vol. / NEM vol. |
| MP | 99.9% | 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 | 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 |

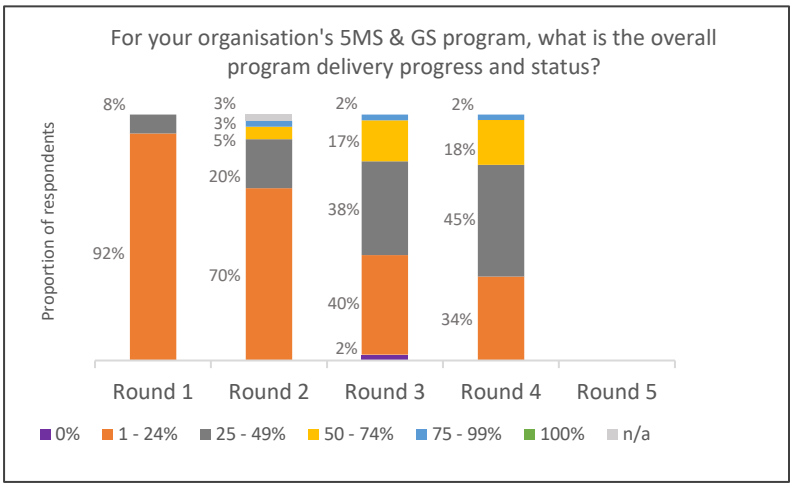
| # | Topic | Observation / Actions |
|---|---|---|
| 1 | Response rate, All participant types | A total of 44 organisations responded to the fourth round of readiness reporting, representing an even mix of participant types. Response rate across all participant types provides representative industry coverage. |
| 2 | Response rate, All participant types | Coverage across the industry for all participant types ranges from 95% to 100%. This exceeds the 80% coverage threshold for reporting against essential criteria. |
| 3 | Response rate, All participant types | Three MPs and one MCs with responsibility of essential meters did not respond to the survey, or did not respond to the essential metering criteria.<br><br>**Action**: AEMO to follow up with relevant MPS and MCs with essential meters to confirm program status and if remediation is required. |

# 5MS GS Market Readiness Report - Round 4

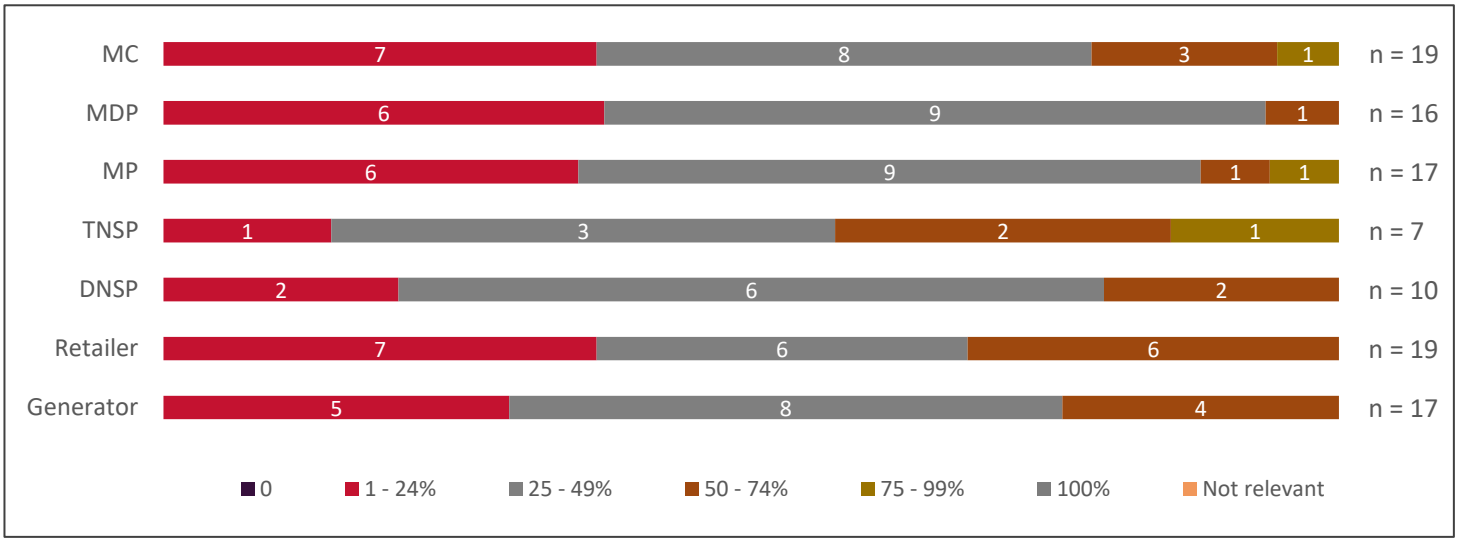
## Overall program delivery progression, by reporting round

There has been consistent progress with participants 5MS and GS programs, with two-thirds of respondents now focused on development and testing. The remaining participants are in the scoping and design phase of their programs. All except one respondent noted that they are on track.

| | Round 1 | Round 2 | Round 3 | Round 4 | Round 5 |
|---|---|---|---|---|---|
| 0% | 0% | 0% | 2% | 0% | - |
| 1 - 24% | 92% | 70% | 40% | 34% | - |
| 25 - 49% | 8% | 20% | 38% | 45% | - |
| 50 - 74% | 0% | 5% | 17% | 18% | - |
| 75 - 99% | 0% | 3% | 2% | 2% | - |
| 100% | 0% | 0% | 0% | 0% | - |
| n/a | 0% | 3% | 0% | 0% | - |
| **Total** | 100% | 100% | 100% | 100% | - |



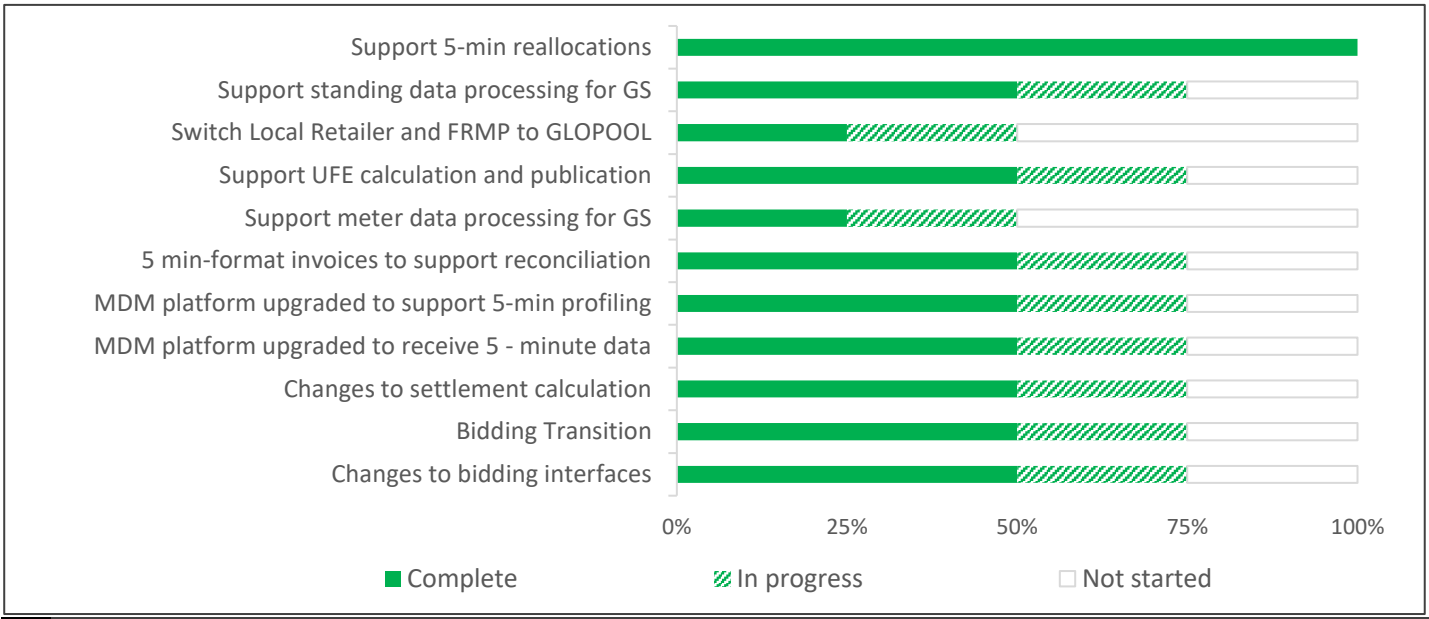

## Participants' overall program delivery progression, by participant type - Round 4




| # | Topic | Observation / Actions |
|---|---|---|
| 4 | Overall Participant Program Progress | There has been consistent progress with participants 5MS and GS programs, with two-thirds of respondents now focused on development and testing. The remaining participants are in the scoping and design phase of their programs. Majority of participants are on track to participate in market trials. |
| 5 | Overall Participant Program Status | Participants are reporting that their overall program is on track, including a participant that previously reported a 'late' status in round three. One generator flagged that their overall program is 'late', noting that they are focusing on other priorities but expect to be on track by year end.<br><br>**Action**: AEMO to follow up to understand 'late' status and establish level of remediation expected |
| 6 | Raised risks | One participant flagged that customer switching going live on the same day as 5MS could created dependency and risks. Another participant raised a risk regarding industry vendors not having access to the 5MS staging environment.<br><br>**Action**: RWG to consider impact of potential industry risks |

# 5MS GS Market Readiness Report - Round 4

## AEMO Readiness Criteria




| # | Topic | Observation / Actions |
|---|---|---|
| 7 | AEMO Readiness Criteria | AEMO is on track to deliver the market systems in line with committed milestones. In this round of reporting, AEMO's progress towards 'Switching Local Retailer and FRMP to GLOPOOL' has advanced to the next quartile (25 - 49% Complete). |

## 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 | 15 | 1 | 1 | 5 | No | No |
| All essential meters* are able to produce and store 5-min data | MPs | No | 7 | 0 | 0 | 3 | No | No |
| All essential meters* are able to produce and store 5-min data | MCs | No | 10 | 0 | 1 | 1 | No | No |
| All essential meters* are able to deliver 5-min metering data | MDPs | Yes | 3 | 0 | 0 | 0 | No | 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 | Submit 5 min offers, Generators | One generator reported a 'late' status for their readiness to submit 5-min offers, noting that they expect to be on track by the end of year. Another generator report an 'at risk' status , and is now focused on engaging vendors.<br>**Action**: AEMO to establish with generator reporting 'at risk' if a remediation plan or escalation is required |
| 9 | Submit 5 min offers, Generators | Five generators that contribute materially (>1%) to the NEM did not respond to the survey, including one generator in Queensland that contributes over 10% of load. However, generators that responded in Round 4 represent over 80% of capacity and load in each NEM region (using 2019 data), therefore satisfying the coverage criteria. |
| 10 | Essential meters, MC | One MC reported a 'late' status, noting that they have not provided a forward plan and approach to AEMO on their metering rollout.<br>**Action**: AEMO to follow up with relevant MC and confirm expected completion date of activity |
| 11 | Essential meters, MP, MC | Three MPs and one MC with responsibility of essential meters did not respond to this survey, responded with inconsistencies, or did not respond to the essential metering criteria.<br>**Action**: AEMO to follow up with MPs and MC not responding to essential metering criteria to confirm status and escalation / remediation approaches |

# 5MS GS Market Readiness Report - Round 4

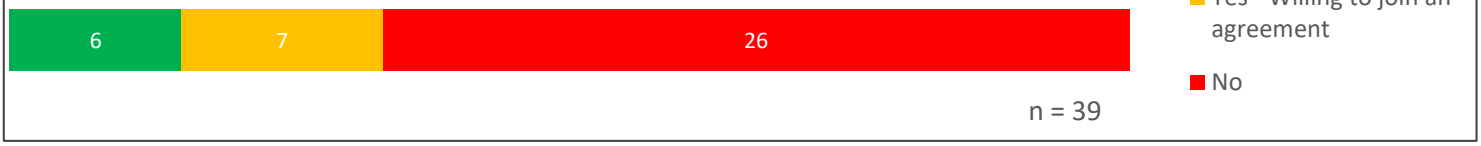
## COVID-19 Response

Compared to your response in the previous reporting round (August 2020), have recent developments in the COVID-19 situation or your program's response changed your ability to implement 5MS and GS?

n = 44

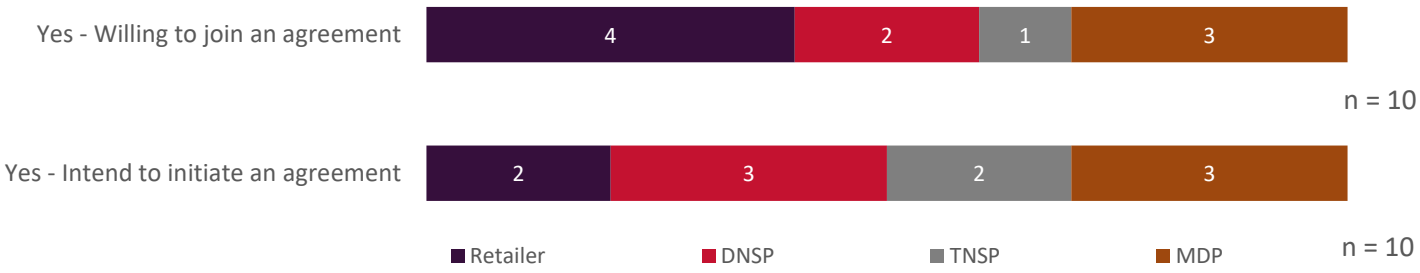
## Early Delivery of 5-minute Data

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)?




n = 39

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




| # | Topic | Observation / Actions |
|---|---|---|
| 12 | COVID-19 Response, All participants | Compared to the previous round of reporting, 88% of participants are not experiencing any change in their ability to implement 5MS and GS due to COVID-19. A minority (12%)are experiencing minor changes. No impact was noted against overall program progression. |
| 13 | Early delivery of 5-minute data, (Retailers, DNSPs, TNSPs, MDPs) | The proportion of retailers, network service providers and MDPs that intend to enter into agreements to deliver or receive metering data in sub-multiples of a trading interval is consistent with round three of reporting. Participants are flagging that Q1 and Q2 2021 is when they expect to initiate or enter into agreements. |

# 5MS GS Market Readiness Report - Round 4

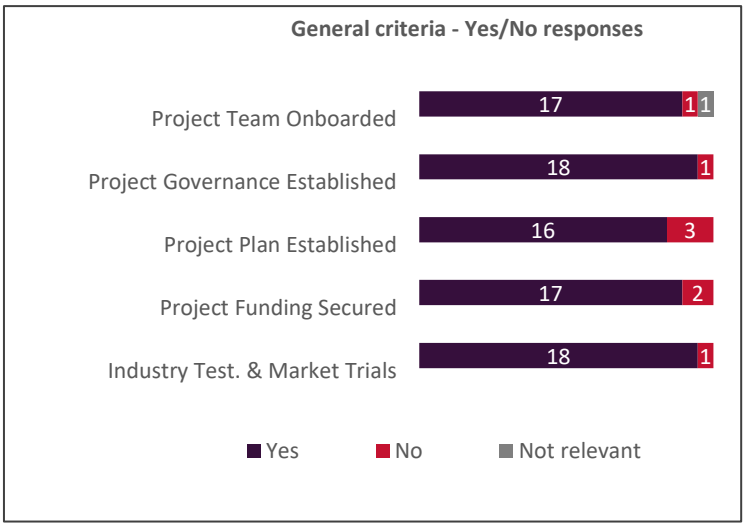
## Retailers

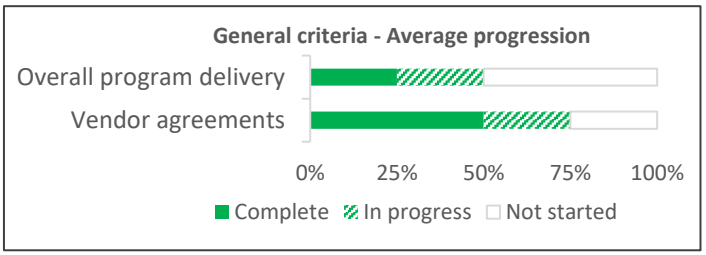
| Number of respondents | 19 | | % Industry coverage | 99% |
|---|---|---|---|---|

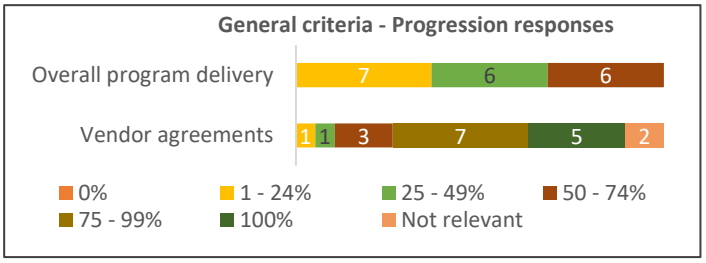
## Overall Progress and Status

Retailers have well established programs, with programs on average 25-49% complete. All retailers are reporting as on track.

## General Readiness Criteria

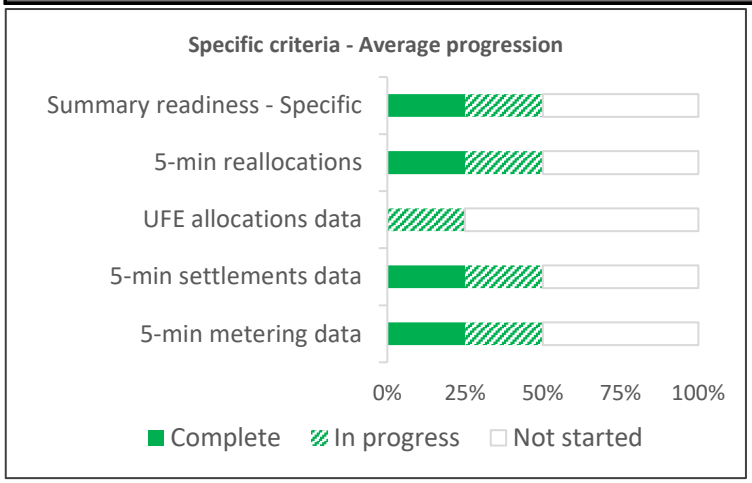


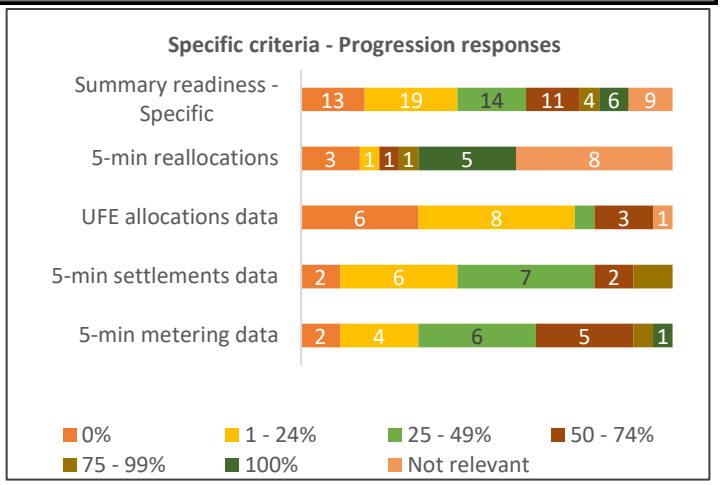




| # | Topic | Observation / Actions |
|---|---|---|
| 14 | General criteria, Retailers | Retailers generally have well established programs, with one retailer currently revising project plans and re-mobilising teams to reflect the new commencement dates. |
| 15 | General criteria (Overall program delivery), Retailers | Retailers are on average 25-49% progressed with their overall 5MS and GS program, with an even split between those that were 1-24%, 25-50%, and 50-74% progressed. |

## Specific Readiness Criteria




| # | Topic | Observation / Actions |
|---|---|---|
| 16 | Specific criteria, Retailers | Retailers are reporting a wide range of responses when reporting on progression towards developing specific capabilities for 5MS and GS. They are 25-49% progressed on average, and are generally on track. |
| 17 | Specific criteria, Retailers | The average progression on 5-minute settlements data increased by one quardrant, however the average progression of other generator specific criteria remains the same. |
| 18 | Specific criteria, Retailers | One participant raised a risk of inaccurate UFE information if cross boundary meters are not appropriately configured by the transition end dates.<br><br>**Action**: RWG to consider risk of cross boundary meters not appropriately configured by transition end date |

# 5MS GS Market Readiness Report - Round 4

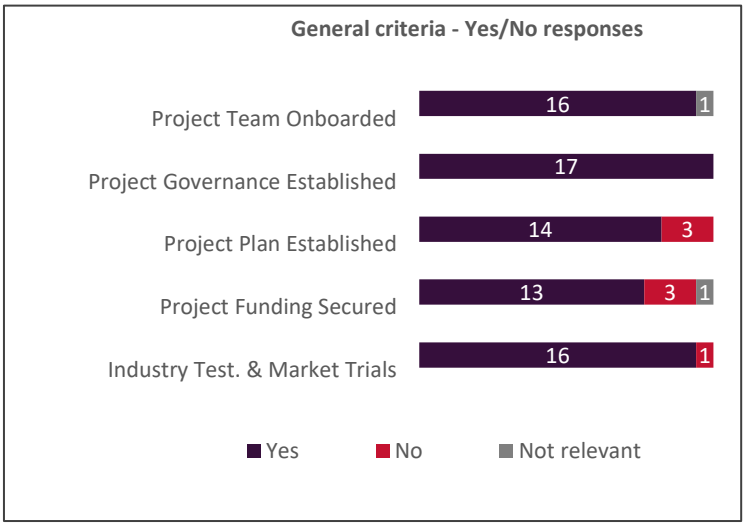
## Generators

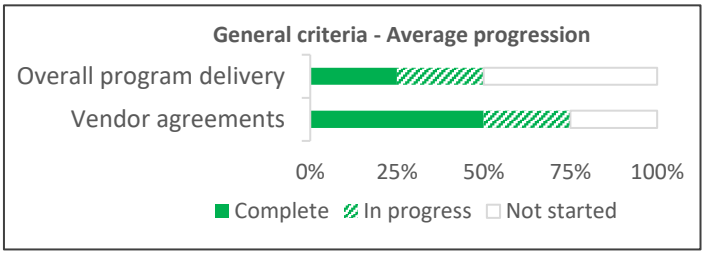
| Number of respondents | 17 | | % Industry coverage | 95% |
|---|---|---|---|---|

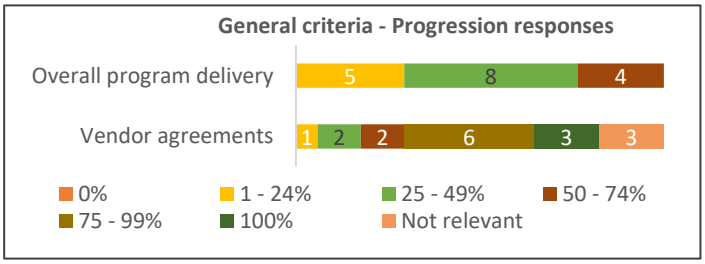
## Overall Progress and Status

Generators have well established programs, with programs on average 25-49% complete. Generators are generally reporting as on track, with one generator reporting an 'late' status, and another reporting a 'at risk' status for generator specific readiness criteria.

## General Readiness Criteria

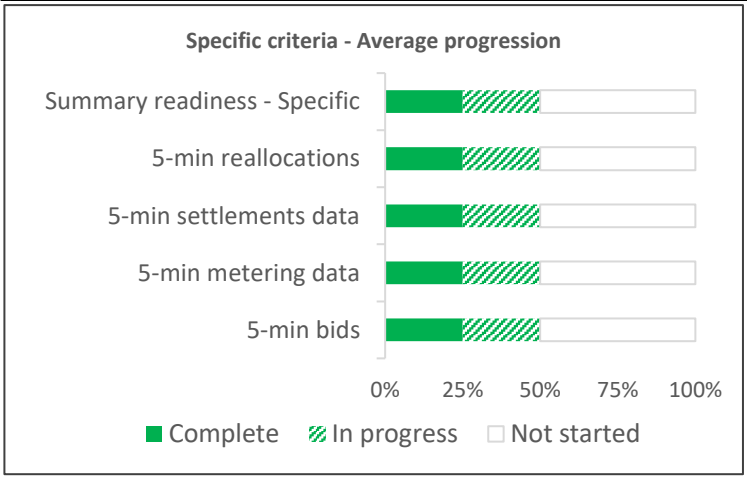


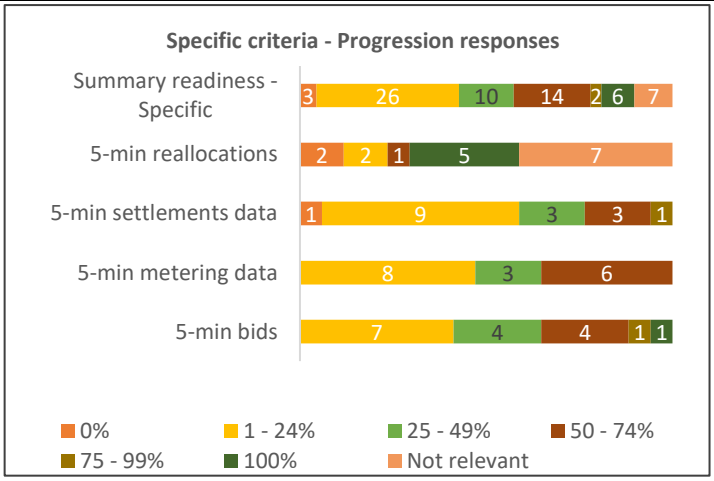




| # | Topic | Observation / Actions |
|---|---|---|
| 19 | General Criteria, Generators | Generators generally have well established programs. One generator noted that their implementation timeline is now late but expect to be on track by the end of year. |

## Specific Readiness Criteria




| # | Topic | Observation / Actions |
|---|---|---|
| 20 | Specific criteria, Generators | Generators are reporting a wide range of responses when reporting on progression towards developing specific capabilities for 5MS and GS. They are 25-49% progressed on average, and are generally on track. Two generators reported a late or at risk status, due to competing priorities and schedule pressures from the time required to complete the tender process for vendors.<br><br>**Action:** AEMO to establish if a remediation plan or escalation is required, in consideration of overall market load and generator plans |
| 21 | Specific criteria, Generators | The average progression on 5-minute settlements data increased by one quardrant, however the average progression of other generator specific criteria remains the same. |

# 5MS GS Market Readiness Report - Round 4

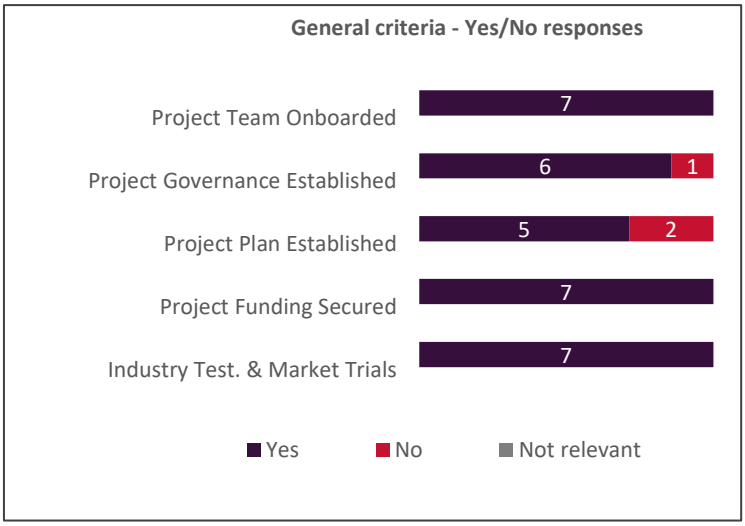
## TNSPs

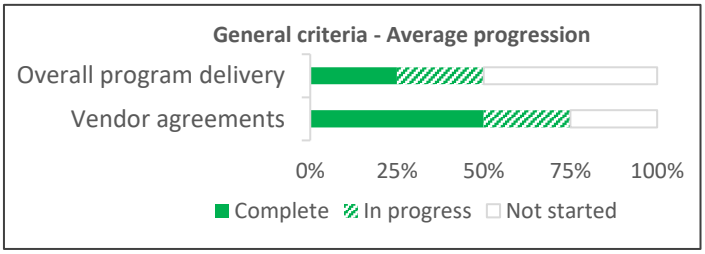
| Number of respondents | 7 | | % Industry coverage | 100% |
|---|---|---|---|---|

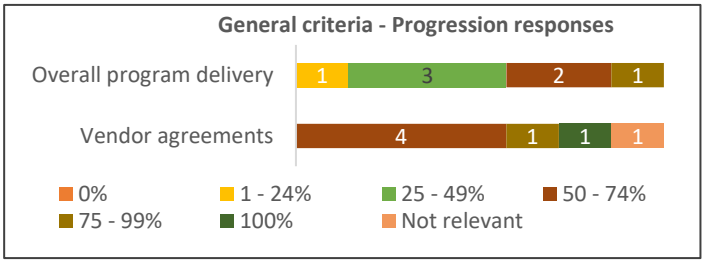
## Overall Progress and Status

TNSPs have well established programs, with programs on average 25-49% complete. All TNSPs are reporting as on track.

## General Readiness Criteria

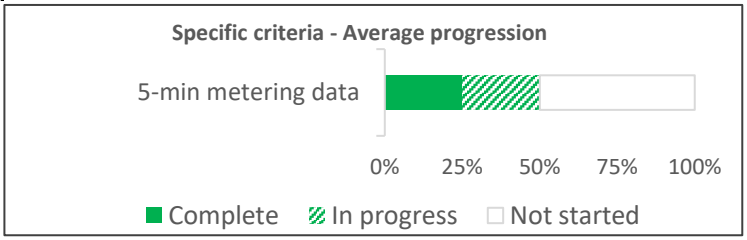


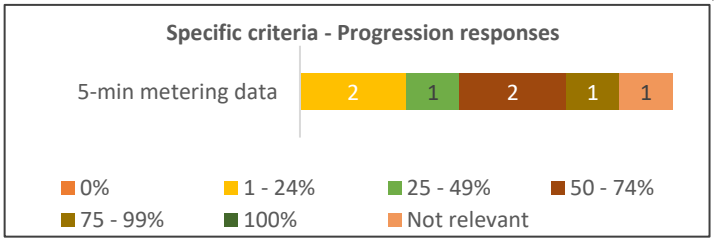




| # | Topic | Observation / Actions |
|---|---|---|
| 22 | General Criteria, TNSPs | TNSPs generally have well established programs and are reporting on track. |

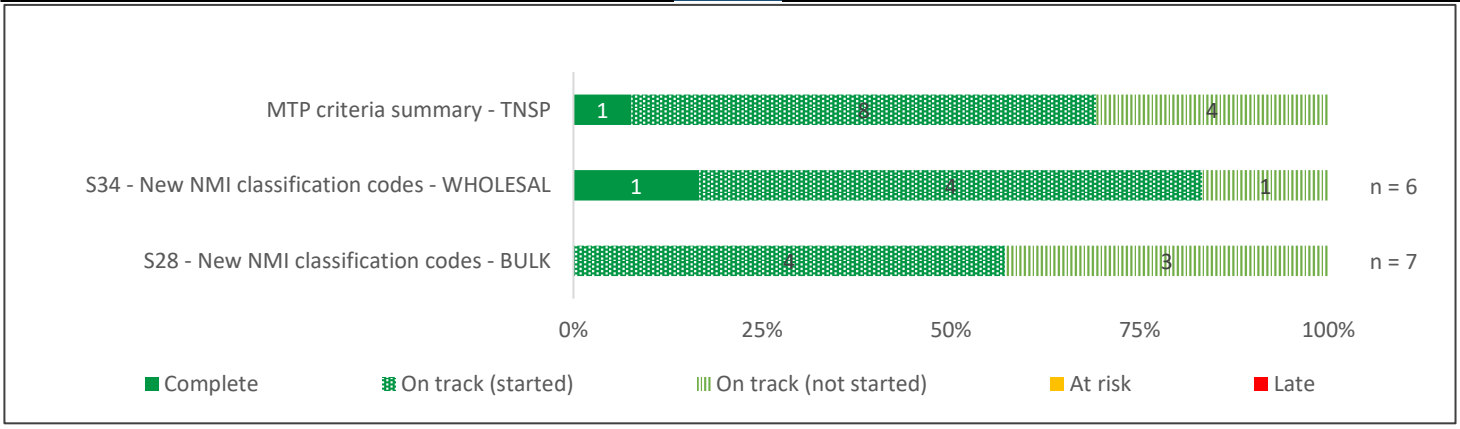
## Specific Readiness Criteria




## Metering Transition Plan Criteria

### MSATS Standing Data Creation and Maintenance




| # | Topic | Observation / Actions |
|---|---|---|
| 23 | Specific Criteria, TNSPs | TNSPs are reporting a wide range of responses when reporting on progression towards supporting 5-minute metering data. They are 25-49% progressed on average, and are all reporting on track. |
| 24 | MTP Criteria, TNSPs | TNSPs are reporting that MTP activities are all on track. MTP transition windows have been adjusted in line with the new commencement dates. Note if a TNSP responded that a MTP sub-category is not relevant to them their response is omitted from the results. |

# 5MS GS Market Readiness Report - Round 4

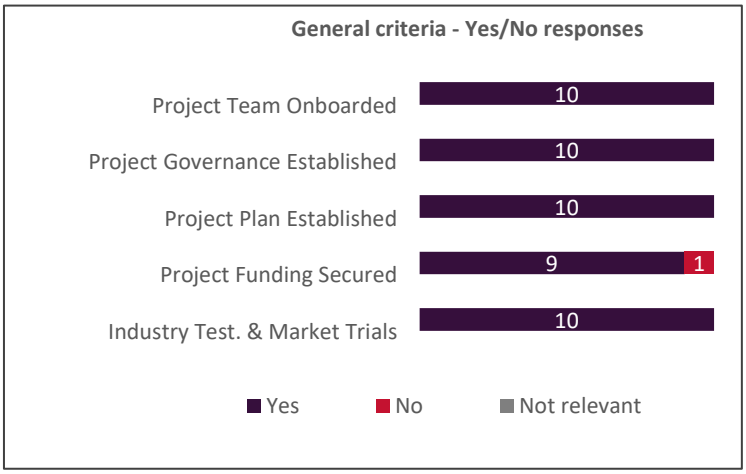
## DNSPs

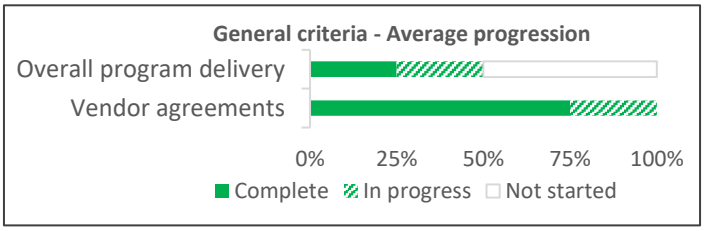
| Number of respondents | 10 | | % Industry coverage | 100% |
|---|---|---|---|---|

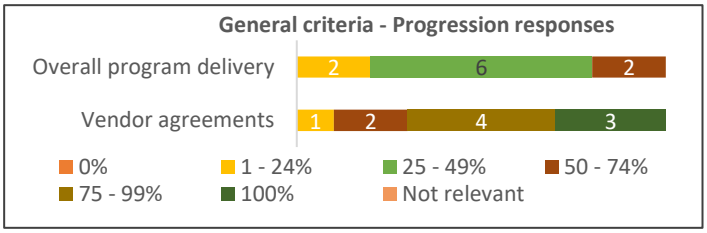
## Overall Progress and Status

DNSPs have well established programs, with programs on average 25-49% complete. All DNSPs are reporting as on track.

## General Readiness Criteria

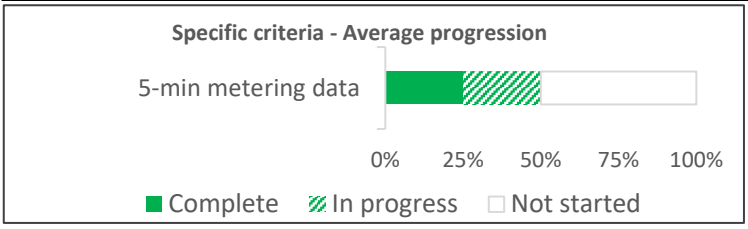


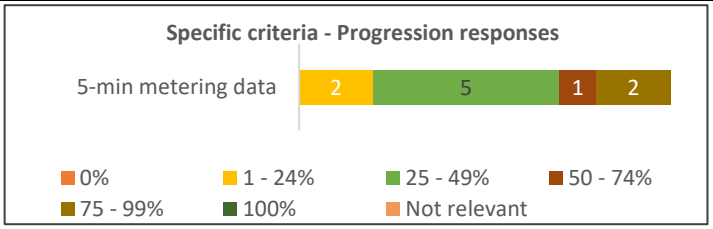




| # | Topic | Observation / Actions |
|---|---|---|
| 25 | General Criteria, DNSPs | DNSPs generally have well established programs and are reporting on track. |

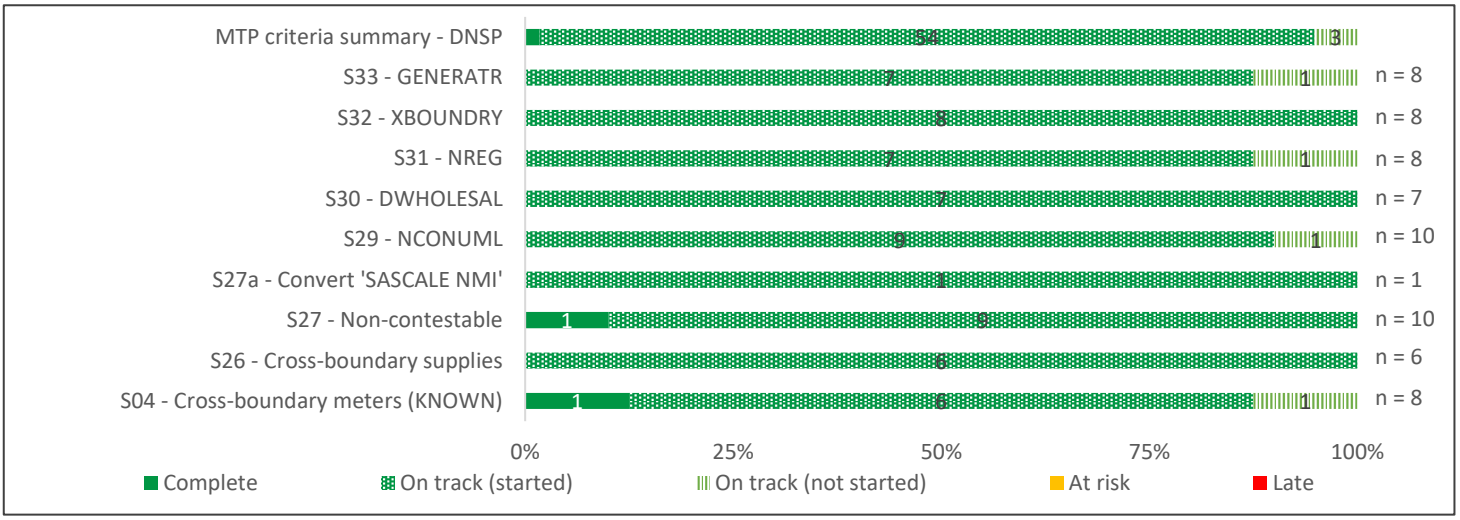
## Specific Readiness Criteria




## Metering Transition Plan Criteria

### MSATS Standing Data Creation and Maintenance




| # | Topic | Observation / Actions |
|---|---|---|
| 26 | Specific Criteria, DNSPs | DNSPs are reporting a range of responses when reporting on progression towards supporting 5-minute metering data. They are 25-49% progressed on average, and are all reporting on track. |
| 27 | MTP Criteria, DNSPs | DNSPs are reporting that MSATS Standing Data Creation and Maintenance activities in the MTP are on track. MTP transition windows have been adjusted in line with the new commencement dates. Note if a DNSP responded that a MTP sub-category is not relevant to them their response is omitted from the results. |

# 5MS GS Market Readiness Report - Round 4

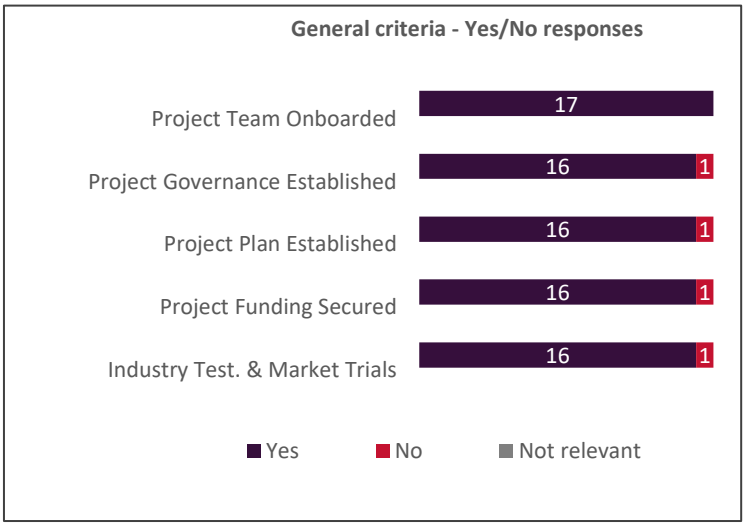
## MPs

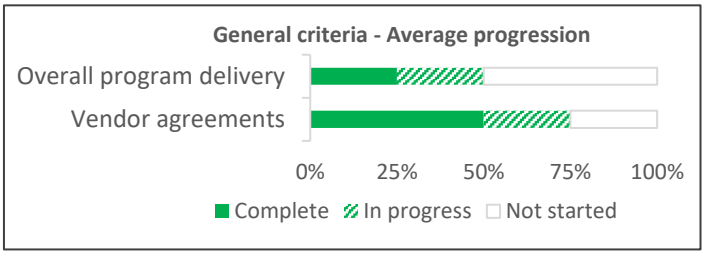
| Number of respondents | 17 | | % Industry coverage | 100% |
|---|---|---|---|---|

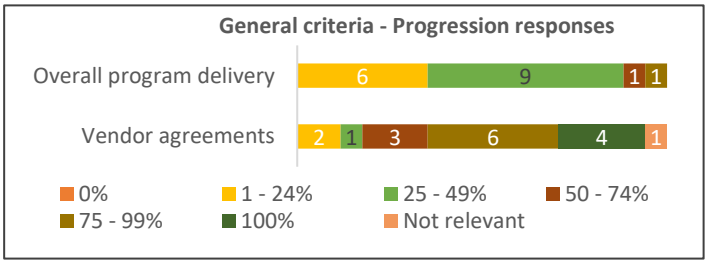
## Overall Progress and Status

MPs have well established programs, with programs on average 25-49% complete. MPs are generally reporting as on track, however some have not performed a data cleanse of the meter installation type code by the transition end date prescribed in the MTP.

## General Readiness Criteria

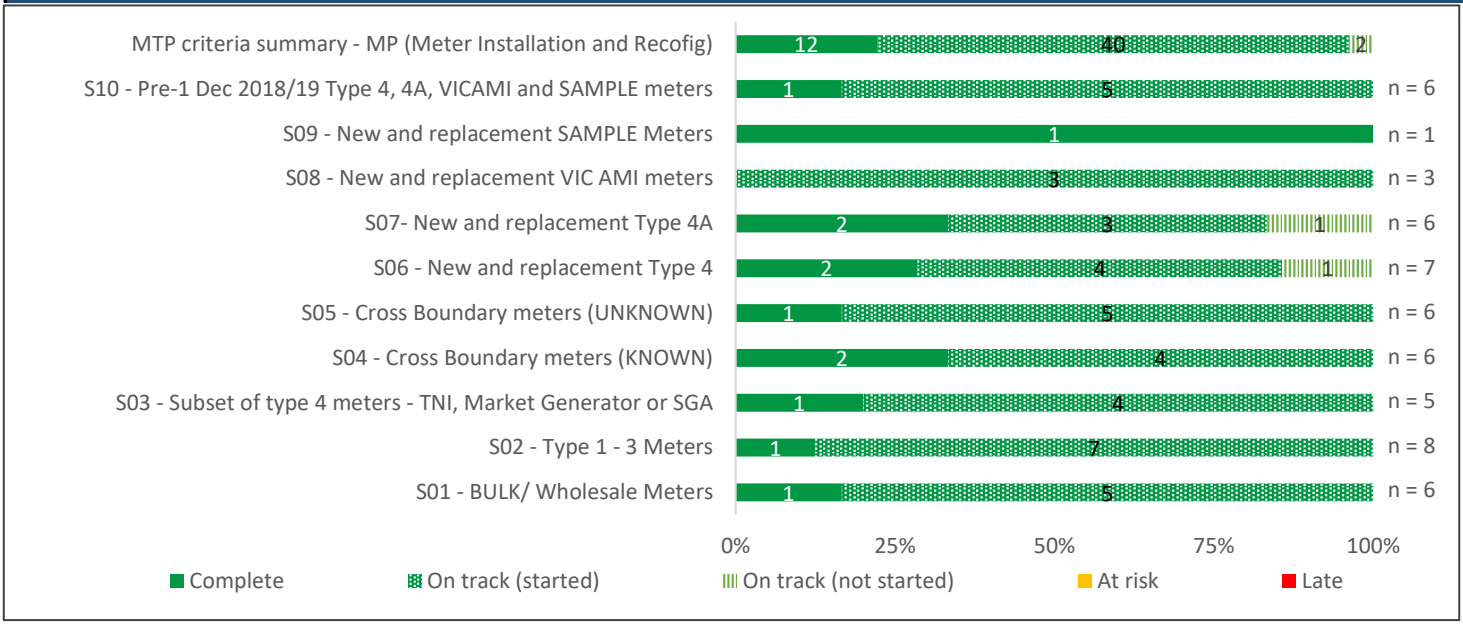



## Metering Transition Plan Criteria

### Meter Installation and Reconfiguration




| # | Topic | Observation / Actions |
|---|---|---|
| 28 | General Criteria, MPs | MPs generally have well established programs and are reporting on track. |
| 29 | MTP Criteria (Meter Installation and reconfiguration), MPs | MPs are reporting that all MP related meter installation and reconfiguration activities are on track. |
| 30 | MTP Criteria (Meter Installation and reconfiguration), MPs | Three MPs with responsibility of essential meters did not respond to this survey, responded with inconsistencies, or did not respond to the essential metering criteria.<br><br>**Action**: AEMO to follow up with MPs not responding to essential metering criteria to confirm status and escalation / remediation approaches |

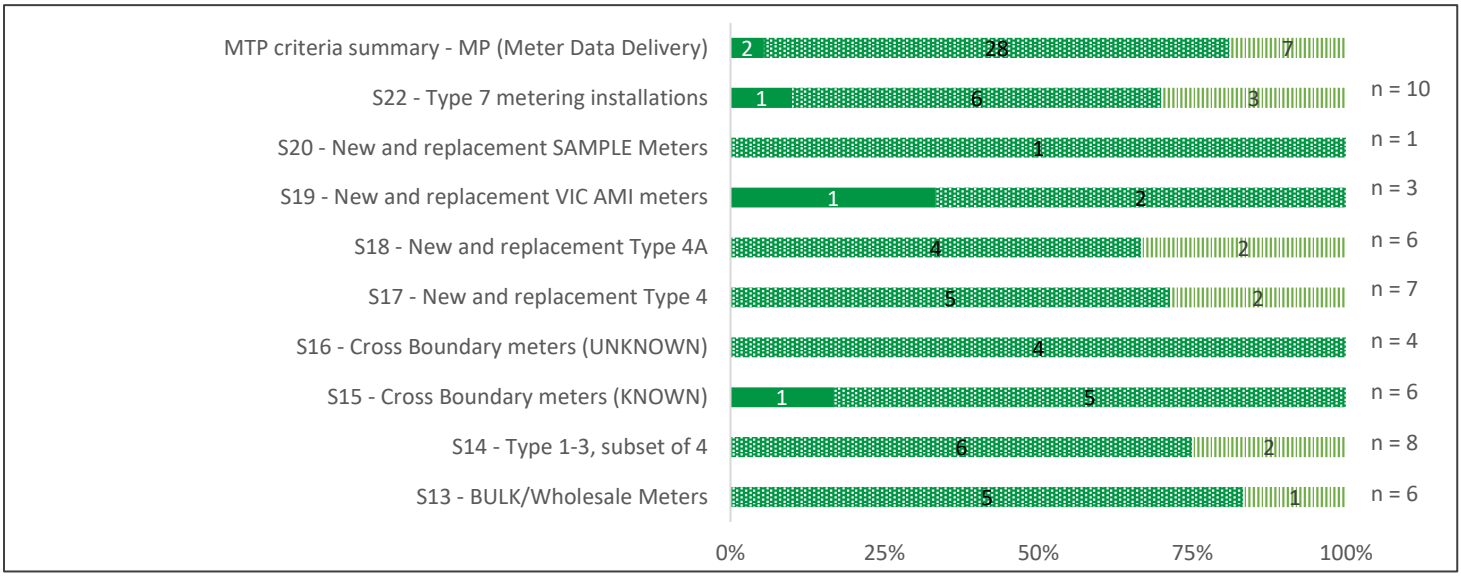
# 5MS GS Market Readiness Report - Round 4

## MPs

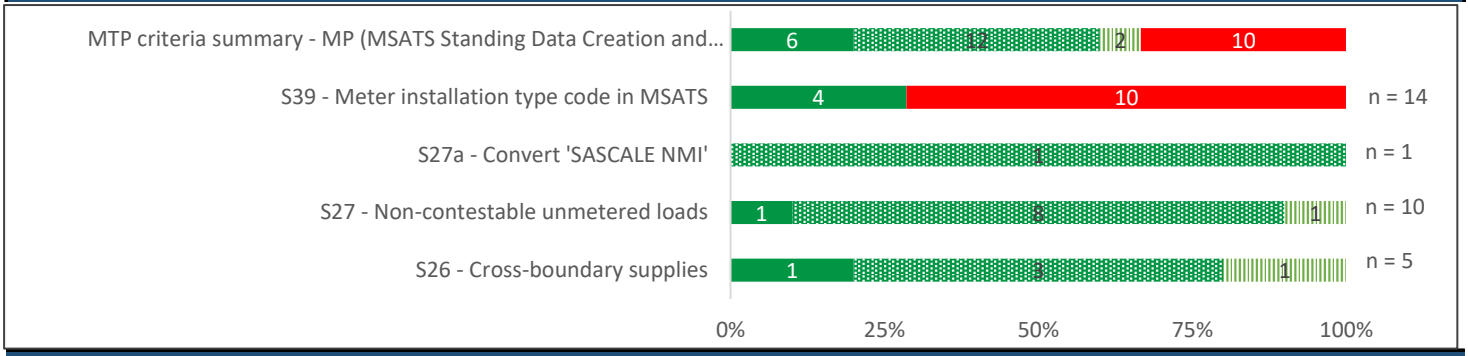
| Number of respondents | 17 | | % Industry coverage | 100% |
|---|---|---|---|---|

## Metering Transition Plan Criteria

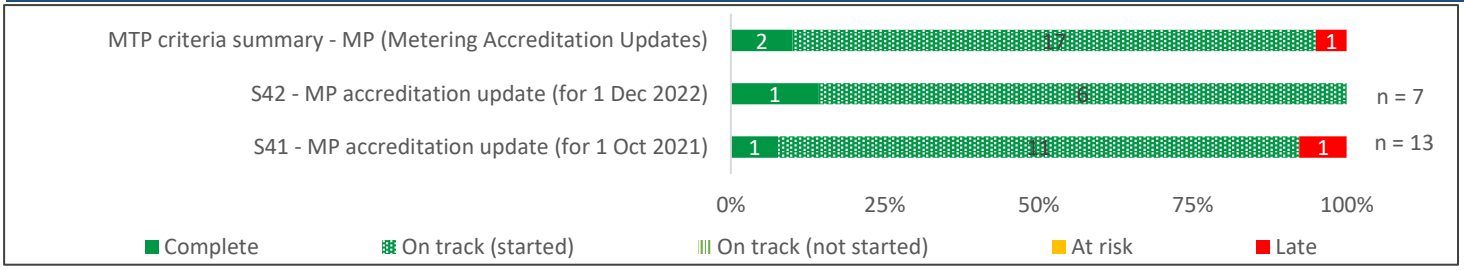
### Meter Data Delivery




### MSATS Standing Data Creation and Maintenance




### Metering Accreditation Updates




| # | Topic | Observation / Actions |
|---|---|---|
| 31 | MTP Criteria (Meter Data Delivery), MPs | MPs are reporting that all MP related meter data delivery activities are on track. |
| 32 | MTP Criteria (MSATS Standing Data Creation and Maintenance), MPs | As outlined in sub-category S39 of the MTP, MPs are required to perform a data cleanse of the meter installation type code in MSATS by November 2019. However one MPs reported a 'late' status, noting that only a small amout of meters will require updates. Nine other MPs noted that they were 'On track (started)', these statuses have been adjusted to a 'late' status given that the transition end date has now passed.<br><br>**Action**: Participants to consider impact of late delivery, and flow on impact to overall programs |
| 33 | MTP Criteria (Metering Accreditation Updates), MPs | MPs are generally reporting that metering accreditation update activities are on track. One MP noted that they are late to have a pre-application meeting with AEMO.<br><br>**Action**: Participants to schedule address accrediation requirements and suitable remediation approach. |
| 34 | MTP Criteria, MPs | MTP transition windows have been adjusted in line with the new commencement dates. Note that if a MP responded that a MTP sub-category is not relevant to them their response is omitted from the results. AEMO also intends to cross reference MP survey responses with provided rollout plans. |

# 5MS GS Market Readiness Report - Round 4

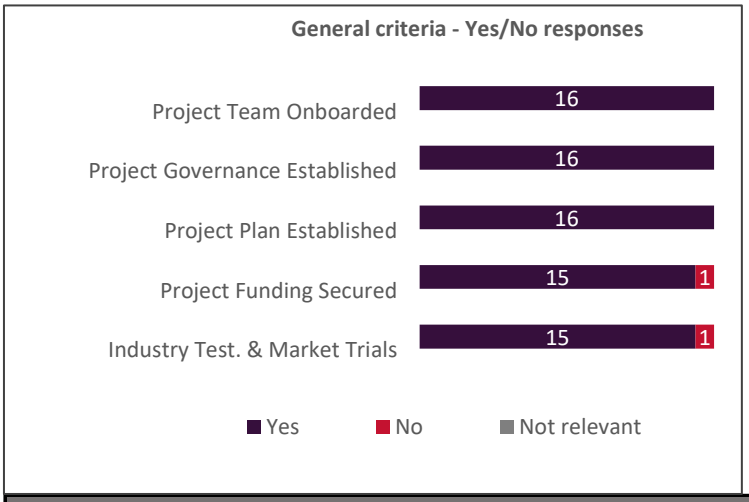
## MDPs

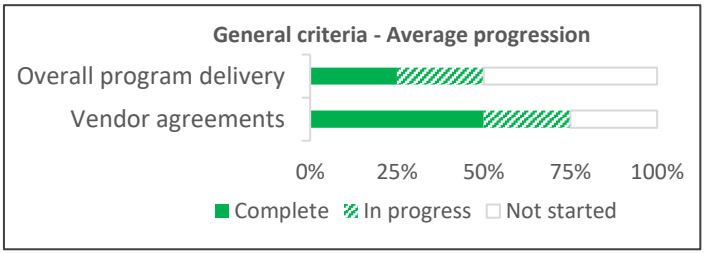
| Number of respondents | 16 | | % Industry coverage | 100% |
|---|---|---|---|---|

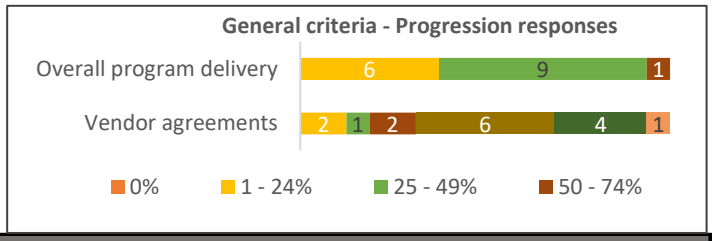
## Overall Progress and Status

MDPs have well established programs, with programs on average 25-49% complete. All MDPs are reporting as on track.

## General Readiness Criteria

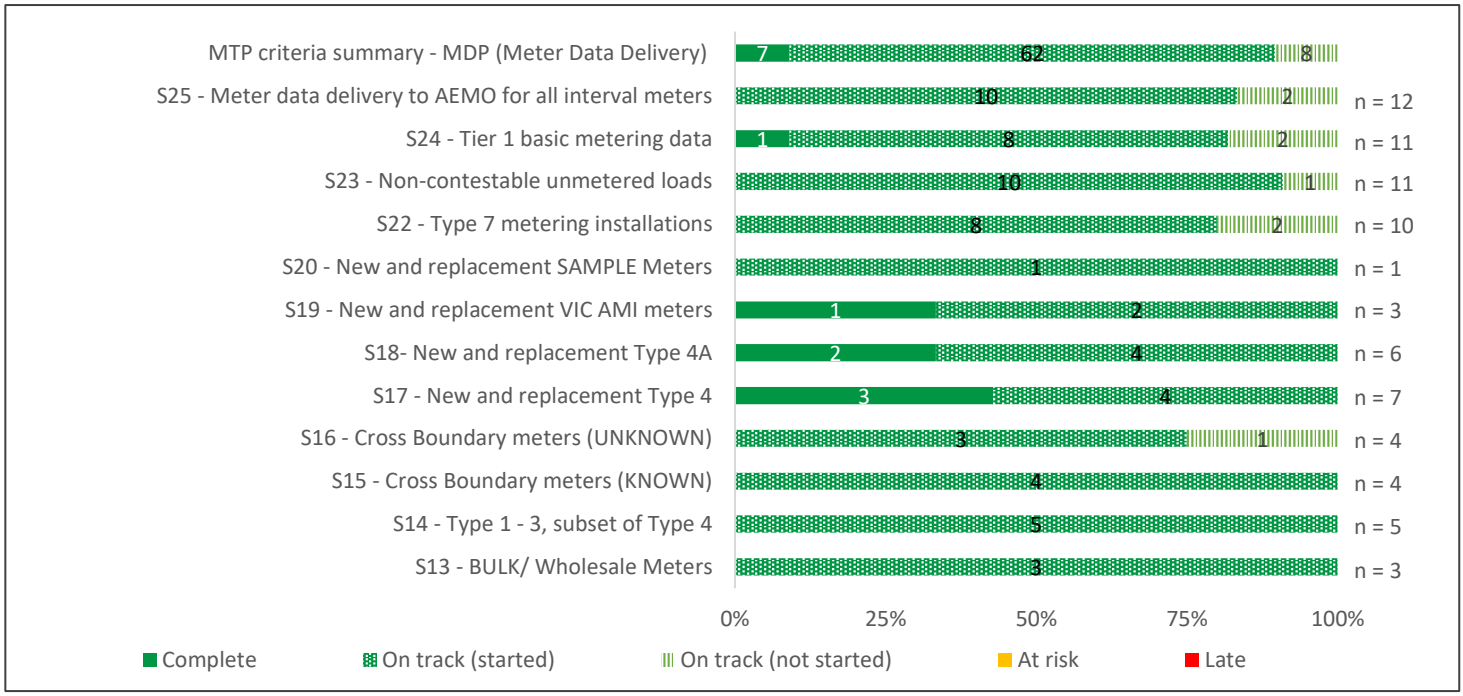



## Metering Transition Plan Criteria

### Meter Data Delivery




| # | Topic | Observation / Actions |
|---|---|---|
| 35 | General Criteria, MDPs | MDPs generally have established programs and are reporting on track. |

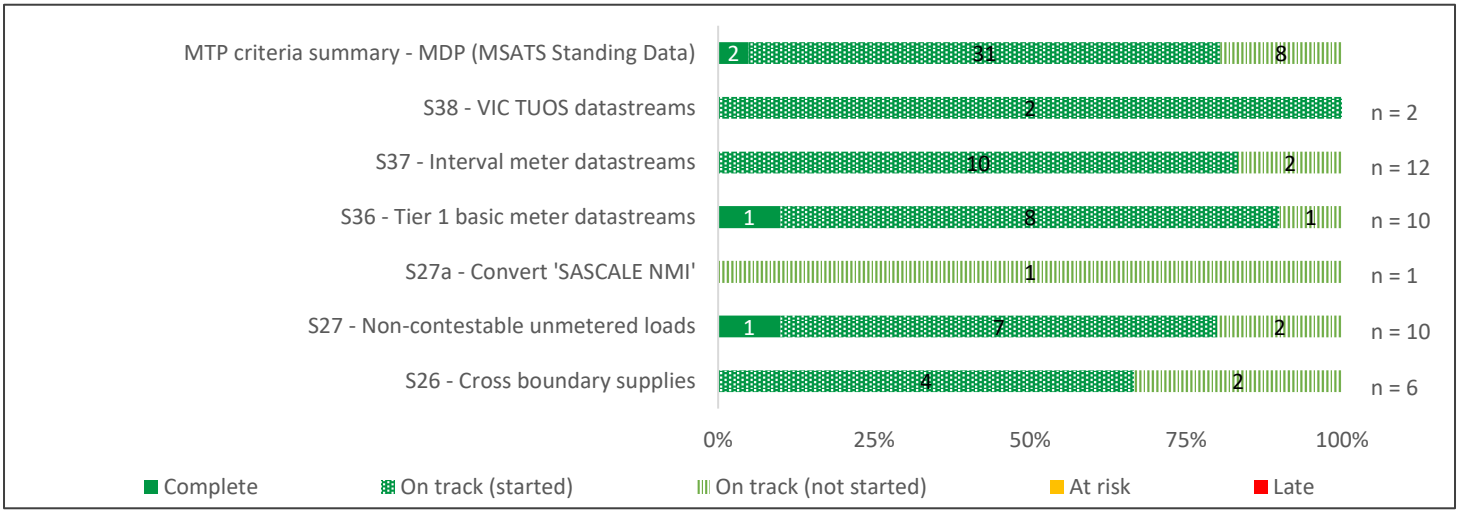
# 5MS GS Market Readiness Report - Round 4

## MDPs

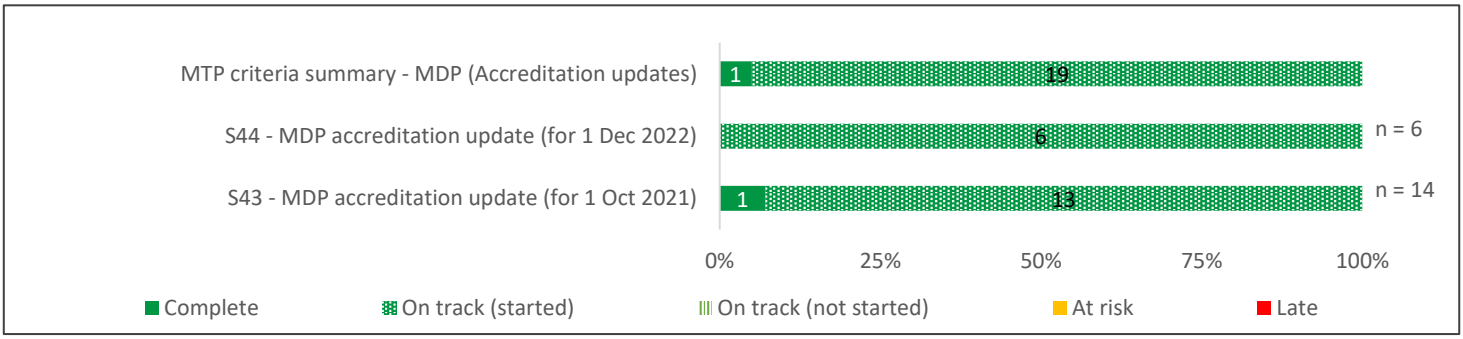
| Number of respondents | 16 | | % Industry coverage | 100% |
|---|---|---|---|---|

## Metering Transition Plan Criteria

### MSATS Standing Data Creation and Maintenance




### Metering Accreditation Updates




| # | Topic | Observation / Actions |
|---|---|---|
| 36 | MTP Criteria (MSATS Standing Data Creation and Maintenance), MDPs | MDPs are reporting that all MDP related MSATS standing data creation and maintenance activities are on track. |
| 37 | MTP Criteria (Metering Accreditation Updates), MDPs | MDPs are reporting that all MDP related metering accreditation update activities are on track. |
| 38 | MTP Criteria, MDPs | MTP transition windows have been adjusted in line with the new commencement dates. Note that if a MDP responded that a MTP sub-category is not relevant to them their response is omitted from the results. AEMO also intends to cross reference MDP survey responses with provided rollout plans. |

# 5MS GS Market Readiness Report - Round 4

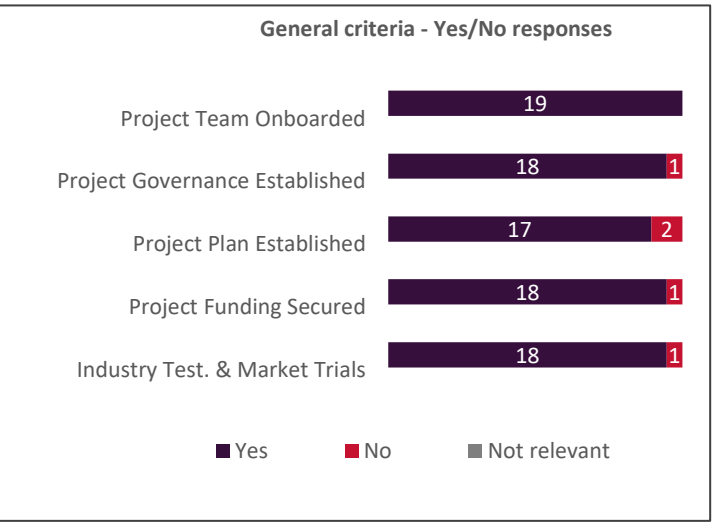
## MCs

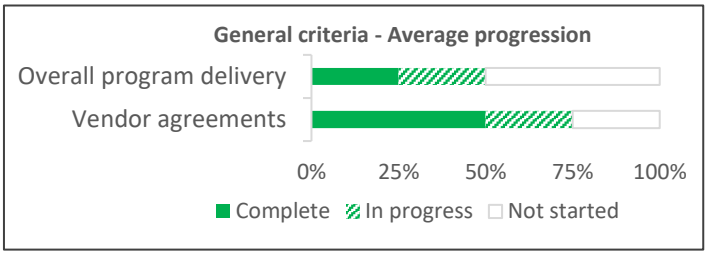
| Number of respondents | 19 | | % Industry coverage | 100% |
|---|---|---|---|---|

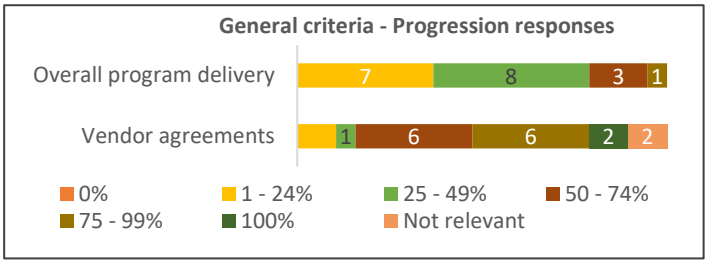
## Overall Progress and Status

MCs have well established programs, with programs on average 25-49% complete. MCs are generally reporting as on track, with two reporting that related meter installation and reconfiguration activities are late.

## General Readiness Criteria

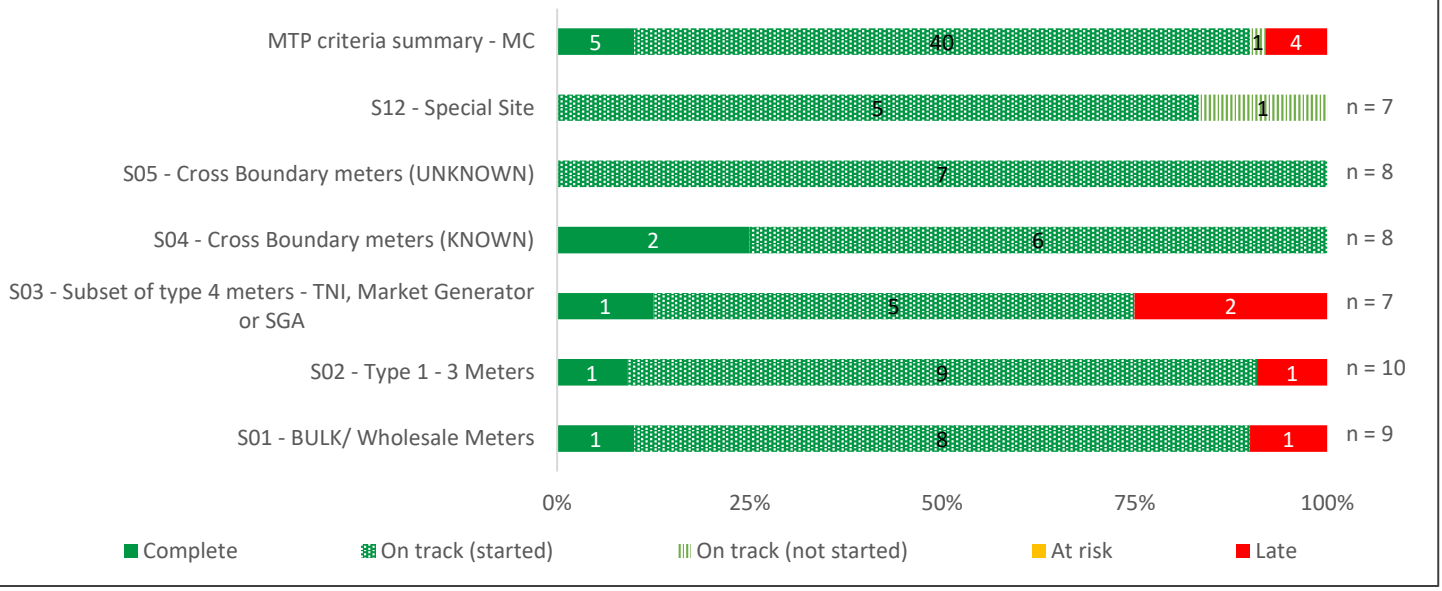



## Metering Transition Plan Criteria

### Meter Installation and Reconfiguration




| # | Topic | Observation / Actions |
|---|---|---|
| 39 | MTP Criteria (Meter Installation and reconfiguration), MCs | Two MCs are reporting that related meter installation and reconfiguration activities are 'late', noting that they are in the process of transferring relevant meters to another participant.<br><br>**Action**: AEMO to follow up with relevant MCs and confirm expected completion date of activity |
| 40 | MTP Criteria, MCs | MTP transition windows have been adjusted in line with the new commencement dates. Note that if a MC responded that a MTP sub-category is not relevant to them their response is omitted from the results. AEMO also intends to cross reference MC survey responses with provided rollout plans. |

# 5MS GS Market Readiness Report - Round 4

## Survey Respondents

**All organisations - 44**

| Organisation |
|---|
| AGL |
| Alinta Energy |
| APA |
| Arrow Energy |
| Aurora Energy |
| Ausgrid |
| Ausnet Services |
| CitiPower Powercor United Energy |
| CS Energy |
| Delta Electricity |
| Electranet |
| Endeavour Energy |
| Energex and Ergon Energy |
| Energy Australia |
| ENGIE ANZ |
| Ergon Retail |
| ERM Power |
| Essential Energy |
| Evoenergy |
| Flow Power |
| Hydro Tasmania |
| Infigen Energy |
| Intellihub |
| Jemena |
| Macquarie Bank |
| Metering Dynamics |
| Metropolis Metering Services |
| Mondo |
| Origin Energy |
| PLUS ES |
| Powerlink |
| Powermetric |
| Powershop |
| Red Energy and Lumo Energy |
| RES Australia |
| SA Power Networks |
| SA Water |
| Shell Energy Australia |
| SIMEC ZEN Energy |
| Snowy Hydro |
| Stanwell |
| TasNetworks |
| TransGrid |
| Vector Metering |

**Generators - 17**

| **Organisation** |
|---|
| AGL |
| Alinta Energy |
| APA |
| Arrow Energy |
| CS Energy |
| Delta Electricity |
| Energy Australia |
| ENGIE ANZ |
| ERM Power |
| Hydro Tasmania |
| Infigen Energy |
| Origin Energy |
| RES Australia |
| SA Water |
| Shell Energy Australia |
| Snowy Hydro |
| Stanwell |

**Retailers - 19**

| **Organisation** |
|---|
| AGL |
| Alinta Energy |
| Aurora Energy |
| CS Energy |
| Delta Electricity |
| Energy Australia |
| ENGIE ANZ |
| Ergon Retail |
| ERM Power |
| Flow Power |
| Hydro Tasmania |
| Infigen Energy |
| Macquarie Bank |
| Origin Energy |
| Powershop |
| Red Energy and Lumo Energy |
| SA Water |
| Stanwell |
| SIMEC ZEN Energy |

# 5MS GS Market Readiness Report - Round 4

## Survey Respondents

**MPs - 17**

| Organisation |
|---|
| AusNet Services |
| CitiPower Powercor |
| Endeavour Energy |
| Energex and Ergon Energy |
| Essential Energy |
| Evoenergy |
| Intellihub |
| Jemena |
| Metering Dynamics |
| Metropolis Metering Services |
| Mondo |
| PLUS ES |
| Powerlink |
| Powermetric |
| SA Power Networks |
| TasNetworks |
| Vector Metering |

**MDPs - 16**

| Organisation |
|---|
| AusNet Services |
| CitiPower Powercor United Energy |
| Endeavour Energy |
| Energex and Ergon Energy |
| Essential Energy |
| Evoenergy |
| Intellihub |
| Jemena |
| Metering Dynamics |
| Metropolis Metering Services Pty Ltd |
| Mondo |
| PLUS ES |
| Powermetric |
| SA Power Networks |
| TasNetworks |
| Vector Metering |

**MCs - 19**

| Organisation |
|---|
| Ausgrid |
| AusNet Services |
| CitiPower Powercor United Energy |
| ElectraNet |
| Endeavour Energy |
| Energy Australia |
| Evoenergy |
| Intellihub |
| Jemena |
| Metering Dynamics |
| Metropolis Metering Services |
| Mondo |
| Origin Energy |
| PLUS ES |
| Powerlink |
| Powermetric |
| TasNetworks |
| TransGrid |
| 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 |