

## 5MS and GS – Meeting Notes

MEETING: PCF #14  
 DATE: Friday, 6 September 2019  
 TIME: 10:00 AM – 1:00 PM  
 LOCATION: AEMO Offices in Melbourne, Sydney, Brisbane, and by WebEx

| ATTENDEE          | ORGANISATION             | OFFICE             |
|-------------------|--------------------------|--------------------|
| Peter Carruthers  | AEMO (Chair)             | Melbourne          |
| Sonja Nigmann     | AEMO                     | Melbourne          |
| Graeme Windley    | AEMO                     | Melbourne          |
| Greg Minney       | AEMO                     | Melbourne          |
| Jim Agelopoulos   | AEMO                     | Remote - WebEx     |
| Sammy Wainrit     | AEMO                     | Remote - WebEx     |
| Robert Lo Giudice | IntelliHUB Pty Ltd       | Melbourne          |
| Mike Stockley     | AGL                      | Melbourne          |
| Wayne Rau         | Engie                    | Melbourne          |
| Eugene Tverdolov  | Powercor                 | Melbourne          |
| Chris Muffett     | AEMO                     | Sydney             |
| Emily Brodie      | AEMO                     | Sydney             |
| Monica Morona     | AEMO                     | Sydney             |
| Blaine Miner      | AEMO                     | Brisbane           |
| Glen Thomsen      | APA                      | Brisbane           |
| Naomi Donohue     | APA                      | Brisbane           |
| Hamish McNeish    | AEMO                     | Brisbane           |
| Bree Jeffreys     | AEMO                     | Norwest            |
| Cameron Bath      | Energy Australia         | Remote - WebEx     |
| Corinna Woolford  | Aurora Energy            | Remote - WebEx     |
| David Woods       | SA Power Networks        | Remote - Telephone |
| Divya Kapoor      | Flow Power               | Remote - WebEx     |
| Elizabeth Byrne   | Stanwell Corporation     | Remote - Telephone |
| Georgina Snelling | Energy Australia         | Remote - WebEx     |
| Giles Whitehouse  | Aurora Energy            | Remote - Telephone |
| Hugh Macfarlane   | Snowy Hydro              | Remote - Telephone |
| Ingrid Farah      | Ergon Energy             | Remote - Telephone |
| Jeff Roberts      | Evoenergy                | Remote - WebEx     |
| Leanne Rees       | TasNetworks              | Remote - WebEx     |
| Linda Brackenbury | Plus ES                  | Remote - WebEx     |
| Linda Whatman     | Energy Queensland        | Remote - Telephone |
| Mark Reid         | Red Energy / Lumo Energy | Remote - WebEx     |
| Nicole Bright     | Energex                  | Remote - Telephone |
| Paul Greenwood    | VectorAMS                | Remote - WebEx     |
| Prabpreet Calais  | AEMC                     | Remote - Telephone |
| Sewwandi Charman  | Origin Energy            | Remote - Telephone |
| Stephen White     | Red Energy               | Remote - WebEx     |
| Steve Smith       | Metering Dynamics        | Remote - Telephone |
| Terry Lodge       | Energex                  | Remote - WebEx     |

**Note: some attendees who joined through Webex and phone may not have been identified. Please advise via email to [5ms@aemo.com.au](mailto:5ms@aemo.com.au) if you attended the meeting but have not been noted above.**

## Preliminary Matters

### 1. Welcome, Introduction, Attendance and Apologies – P. Carruthers (slides 1-2)

AEMO noted that the meeting was being recorded for the purposes of preparing meeting notes and requested for dial-in attendees to email [5ms@aemo.com.au](mailto:5ms@aemo.com.au) for inclusion on the attendees list.

### 2. Minutes and Actions from Previous Meeting – P. Carruthers (slides 4-5)

PCF members confirmed the notes of Meeting 12, held on 8 August 2019.

The current status of actions is available in the table at the end of the notes.

### 3. Risks and Issues Register – S. Nigmann (slides 7-8)

AEMO provided an overview of the risks and issues register updates, as per slide 5. AGL sought clarification in relation to the total costs of the AEMO program and the term of the recovery period. AEMO advised that initial information has been made available to industry participants through the Executive Forum and PCF. AEMO reminded the PCF that the cost recovery structure and term would be the subject of consultation through the consultation process being conducted for the Declared NEM Project.

PlusES raised concerns regarding the title of the issue and suggested that this should be reviewed. Plus ES indicated its concern is that the 5MS reform needs to be implemented as efficiently as possible to ensure cost of implementation is as low as practicable. PCF members supported this objective and agreed a risk in relation to inefficient implementation should be raised if such a risk is not already identified on the Risk Register

**Action 14.3.1 AEMO to add a risk to the Industry Risk register to determine if a risk already exists in relation to efficiency of implementation. If no such risk exists, then AEMO is to add a risk to the Risk Register.**

AGL further noted that overall industry implementation costs and concerns regarding this amount are not reflected in action I05. AEMO clarified that the question of overall industry costs was addressed in the rule change process led by the AEMC. The AEMC noted that the matter of costs needed to be separated between 5MS specific costs and costs associated with regular systems life cycle upgrades.

Plus ES noted that ultimately the costs of 5MS implementation would be borne by consumers and sought clarity as to how this was considered in light of the overall costs and benefit ratio of the Program. The AEMC responded to this question and provided a short summary of how these matters had been considered through the rule change consultation process.

The PCF discussed whether there was value in collecting an industry-wide cost estimate. This matter was explored by the PCF and on balance the PCF concluded no further action should be taken in this regard. Participants indicated they were reluctant to share their own costs as these are commercial in confidence.

Intellihub sought clarity as to how AEMO was seeking views from MDPs and MPs as part of I06. AEMO confirmed that they would be seeking views via the Readiness Working Group.

## Matters for Noting

### 4. Program Update – S. Nigmann (slides 10-14)

AEMO provided an overview of the revised and updated Program timeline, alongside the overall Program and milestone update.

Intellihub sought clarification as to how the Metering Package 3 release and consultation was communicated to the Industry. AEMO confirmed that Package was sent directly to members of the Procedures Working Group, Systems Working Group and Metering Focus Group, as well as a whole of industry communication via the Weekly AEMO communications newsletter.

Stanwell sought clarification for the Staging Environment release dates, which is marked as 1 December 2019 in the Program Timeline. AEMO confirmed that the initial release into Staging on 1 November 2019 will be the Settlements Reallocations solution. The following discussion highlighted that the Level One milestone is due to complete on 1 December 2019, which encompasses drops for Metering and Dispatch solutions. Note the Level One milestone won't change as AEMO needs to ensure all elements of staging are live before completing this milestone.

AEMO noted that an additional slide (14) had been included to outline AEMO's revised approach to external timeline and milestone reporting, which would now occur on a monthly basis and aim to ensure consistency in formatting and timeline dates across the various 5MS & GS forums each month.

#### **5. Systems Workstream Update – G. Windley (slides 16-21)**

The Systems Workstream update was provided. AEMO noted that there are no points of note in relation to the Level 2 milestones for Metering, Dispatch and Settlements, with the delivery of Technical Specifications and Staging Environment Software drops continuing to track well to the relevant milestones.

AEMO provided an update regarding the detailed workstream discussions from the System Working Group, as outlined in slides 19-20, with key dates continuing to be firmed up and a small number of dates requiring adjustment to better align with milestone delivery, however, no changes would impact the delivery of the Level 2 milestones.

Stanwell queried the amended Prudentials User Guide release date, seeking clarity regarding the change to 15 May 2020. AEMO confirmed that the previous date was not aligned with the Staging deployment dates and had been amended to ensure alignment.

#### **6. Readiness Workstream Update – G. Minney (slides 23-26)**

The Readiness Workstream update was provided. AEMO noted that Level 2 milestones were being presented formally for the first time in the Level 2 milestone reporting format. However, the PCF should note that a number of these dates are highlighted as “provisional milestones”. The system go live dates will remain as provisional through the discussion with industry and finalisation of Readiness implementation approach.

AEMO noted that L2-RE04 was highlighted in the previous PCF #13, this date will now be re-baselined and returned to green. Additionally, as the slide is dated 30 August, L2-RE02 is now complete, with the Market Readiness Strategy released on 30 August for consultation with industry.

AEMO also provided an update for the timeframes for delivery of the Readiness deliverables.

Intellihub queried how the decision for the Transition Focus Group was made to be hosted in Sydney. AEMO explained that as the TFG is a face-to-face discussion to enable the detailed

discussion required for the relevant transition matters, the meeting was held in the AEMO offices across Melbourne, Sydney and Brisbane on a rotating basis.

Intellihub also sought further clarification on the mix of participants that AEMO was looking for Focus Group members. AEMO confirmed that the Terms of Reference outlined that AEMO was seeking a mix of members from across the industry sectors and also a geographic spread of businesses. The outcomes of the discussion would then be provided to RWG.

Stanwell sought clarification that the second part of the TFG meeting would be focused on Metering. AEMO confirmed that this was the focus of the agenda.

## **7. Procedures Workstream Update – E. Brodie (slides 28-27)**

AEMO noted that the procedures work is tracking well and it is now looking to wrap-up the workstream. There remained two outstanding dispatch package on spot market procedures and miscellaneous procedures, which had been delayed, however, it was confirmed that all final documents would be released on schedule in October.

Metering Package 2 consultation period closed on September 2, 2019, with 17 submissions received; this included a number of very detailed questions on the draft metering procedures. AEMO noted that the full six weeks allowed under the NER would be required to fully assess and respond to matters raised by industry. This was because of the complexity of the matters presented in the submissions. The final procedures are now scheduled for release by 14 October 2019.

AEMO confirmed that the metering package 2 final release would have no impact on the release of the final metering technical specification. Metering package #2 had been decoupled from the metering technical specification to prevent delays in technical specification delivery.

Energex questioned the release date for metering package 3. AEMO noted that the draft release was delayed, and the final procedures would be published in October 2019. AEMO noted that the Procedures Working Group would be updated on this change.

Origin requested clarification for the release date for metering package 3. AEMO confirmed that the final release date would be set once submissions for the package were received on 20 September, confirming that the Package will be finalised by the end of October 2019.

AEMO noted that the September PWG meeting would be the final working group for the workstream. Going forward, AEMO would continue to communicate any procedural matters to the PWG members, and members of the other workstreams and/or PCF as required.

Engie is currently undertaking an impact analysis of the procedures and questioned if AEMO had undertaken work of this type. AEMO confirmed that this work was undertaken for both 5MS and GS rules changes and this was addressed in a High Level Impact Assessment which is available on the Procedures webpage.

## **Matters for Discussion**

### **8. Change Request Update – C. Muffett (slides 31-33)**

AEMO provided an update on the status of the relevant requests in slides 31-33.

Changes required to incorporate Fast Start Inflexibility Profiles into Pre-Dispatch have been accepted and incorporated into the Program. This now closes CR04. Further consideration

of price sensitivities and daily energy constraints is progressing separately, with feedback to be provided shortly via the Dispatch Focus Group.

Stanwell is seeking to understand what reports will continue to be delivered in 30-minute format and is seeking guidance as to how this matter can be dealt with. AEMO noted that Stanwell's request is currently being discussed internally as part of the EMMS Technical Specifications. AEMO already has a requirement to continue to support 30-minute pricing data, post 1 July 2021, as a result of obligations and data feeds AEMO supplies, and as such is already looking to continue support for these data feeds. Where AEMO determines that this is already included, it will be addressed through the Technical Specifications. However, in the instance that AEMO determines that it is not required to be continued, this should be considered as part of a Change Request. AEMO will confirm if this matter is in scope and has been factored into the design.

In the instance of CR26, with the AEMC rule change to remove Mandatory Restrictions, no work on this matter will be pursued to reduce the work requirements and costs to the Programs.

Stanwell sought clarification in regard to the costs associated with CR-04. AEMO confirmed that this is not included in the existing cost estimates put forward by AEMO for 5MS and GS implementation.

#### **9. Market Readiness Strategy update – G. Minney (slides 35-36)**

AEMO noted that the Market Readiness Strategy outlines how AEMO activities will be undertaken. The Strategy is currently with industry for consultation and AEMO is seeking views and comments by 20 September 2019.

AEMO also outlined the details and scope of the supporting documents in slide 36.

#### **10. Vendor Engagement – G. Windley (slide 38-41)**

AEMO noted the vendor risks highlighted through the Interim Readiness Reporting round 1. Following discussions at PCF #13, AEMO received 6 responses regarding vendor readiness from participants. These responses showed there was limited vendor overlap between participants and that there are currently no outstanding vendor issues. The small sample size was acknowledged.

AEMO noted that they had received a briefing and demonstration from Energy One in relation to the update of their products to deliver the 5MS and GS requirements of their clients.

AGL noted that vendor readiness was raised as a high level risk in PCF #13 and sought clarification that this was still the case following receipt of the six responses. Participants noted that due to the limited size of the response that it would be prudent for this matter to remain as a high risk.

Alinta noted the intention of AEMO to hold a vendor briefing session in October. AEMO confirmed that this session was currently being planned and details would be provided at the next PCF.

Stanwell noted that there may be an opportunity for AEMO to seek clarity from vendors as to what matters they may need further information or clarification.

Energex sought clarification as to how vendors are invited to the information session. AEMO noted that an invitation was provided to vendors for the 2018 information session, however, AEMO is only aware of the vendors that we are notified of by participants, so it will important

for industry participants to notify AEMO of their vendors to ensure that they receive an invitation to the session. AEMO also confirmed that participants were welcome to attend the information session.

**Action 14.10.1: PCF Members to provide AEMO with a list of all relevant vendors to ensure that they are able to be included in the October 2019 vendor information session.**

Participants sought clarity as to the ability for vendors to seek clarity from AEMO on technical specifications, or if this should be facilitated through the participant. AEMO confirmed that vendors are able to approach AEMO directly for technical clarifications via the 5MS mailbox but should include the participant as part of the email communication to ensure the line of sight remains.

AEMO confirmed that as part of the discussion that vendor readiness remained a live risk and while there were no immediate issues, the matter should continue to be monitored to ensure that issues do not arise that will risk Program delivery and that this will remain as a high priority risk. AEMO will provide an update to PCF #16 to outline the discussions and feedback received at the vendor session.

**11. Industry Engagement Structure – M. Morona (slides 43-44)**

AEMO noted that a review is currently underway focusing on the 5MS and GS Working and Focus Groups. AEMO is seeking feedback from the PCF, SWG and RWG as to options, preferred approach and other engagement matters.

**Action 14.11.1: PCF Participants to provide views and comments on the future of AEMO's engagement approach to ensure it better meets stakeholder expectations.**

**Other business**

**12. General Questions – P. Carruthers (slide 63)**

No questions raised.

**13. Forward Meeting Plan – P. Carruthers (slide 64-66)**

AEMO noted the Forward Agenda items and confirmed that an update of the vendor information session would be provided to the November meeting.

Further information on the 5MS program, and a calendar of all meeting and forum dates can be found via the following link: <http://aemo.com.au/Electricity/National-Electricity-Market-NEM/Five-Minute-Settlement>.

The meeting closed at 12:00pm.

| Item          | Topic                              | Action required  | Responsible | Status   |
|---------------|------------------------------------|--|-------------|--|
| 14.3.1        | Industry Risks and Issues Register | AEMO to review the Industry Risks and Issues Register and the cost efficiency of AEMO's approach to Program delivery, both in relation to AEMO and Industry.   | AEMO        |  |
| 14.10.1       | Vendor Engagement                  | PCF Members to provide AEMO with a list of all relevant vendors to ensure that they are able to be included in the October 2019 vendor information session.  | PCF Members |  |
| 14.11.1       | Industry Engagement Structure      | PCF Participants to provide views and comments on the future of AEMO's engagement.   | PCF Members |  |
| <b>PCF 13</b> |                                    |  |             |  |
| 13.3.1        | Industry Risks and Issues Register | AEMO to provide the aggregated list of Vendor's to PCF Members.  | AEMO        | Closed   |
| 13.3.2        | Industry Risks and Issues Register | PCF Members are requested to advise AEMO of vendors they are dependent on, on a confidential basis, and any raise concerns on the state of vendor readiness.   | PCF Members | Ongoing<br>Included in Interim Readiness Reporting Questionnaire |
| 13.3.3        | Industry Risks and Issues Register | AEMO to assess the list of vendors and vendor readiness provided by industry participants, with the aim of identifying vendors that the overall 5MS Program is particularly dependent upon and any systemic readiness concerns. AEMO to develop mitigation recommendations accordingly. AEMO to survey and work proactively with vendors to provide additional information to mitigate risk. | AEMO        | Ongoing<br>Included in Interim Readiness Reporting Questionnaire |
| 13.3.4        | Industry Risks and Issues Register | AEMO to update Industry Risks & Issues Register I05 to I07.  | AEMO        | Closed   |

|               |   |   |                        |  |
|---------------|---|---|------------------------|--|
| 13.4.1        | Program Update                                      | AEMO to update the Industry Risks and Issues Register to ensure that potential Rule Amendments arising throughout testing and implementation are adequately outlined. | AEMO                   | Closed   |
| 13.5.1        | Systems Workstream Update                           | AEMO to review dates of Full Data Model Technical Specifications and User Guide and confirm timeframes/dates for release of User Guide.                               | AEMO                   | Closed   |
| 13.12.1       | Transition Principles and Industry Testing Approach | AEMO to include <u>draft</u> transition dates in the Microsoft Project file and ensure that all dates are aligned and following a logical sequence.                   | AEMO                   | Ongoing<br>AEMO will include transition dates in MPP file as they are confirmed via the Transition Strategy. |
| <b>PCF 12</b> |   |   |                        |  |
| 12.4.1        | Systems Workstream update                           | AEMO to review staging milestones with “TBC” dates and confirm if these have been made firm.  | AEMO<br>Hamish McNeish | Closed   |
| 12.4.2        | Systems Workstream update                           | AEMO will confirm availability and support of the testing environments, including any shutdown periods over Christmas/New Years.                                      | AEMO<br>Graeme Windley | Closed   |