DRAFT MINUTES – Forecasting and Planning Reference Group (FPRG) Gas and Electricity

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| MEETING: | # 5  |
| DATE: | Tuesday 23 May 2017 |
| Contact: | Energy.Forecasting@aemo.com.au  |
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 ATTENDEES:

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| **NAME** | **ORGANISATION** | **LOCATION** |
| Clare Greenwood (Chair) | AEMO | Melbourne |
| Kirsty Camilleri (Secretariat) | AEMO | Melbourne |
| Magnus Hindsberger | AEMO | Brisbane |
| Suzette Lizamore | AEMO | Brisbane |
| Brooke Edwards | AEMO | Melbourne |
| Craig Price | AEMO | Melbourne |
| Daniel Guppy | AEMO | Melbourne |
| Ruchira Ray | AEMO | Melbourne |
| Kwok Wai Lau | AEMO | Perth |
| Leanna Tedesco | AEMO | Perth |
| Sarjit Singh | AEMO | Perth |
| Kiet Lee | AEMO | Sydney |
| Niluksha Akurugoda | AEMO | Teleconference |
| Abe Abdallah | SA Government | Adelaide |
| Marino Bolzon | SA Government | Adelaide |
| Bruce Bennett | AGL | Melbourne |
| Miguel Brandao | AGL | Melbourne |
| Luke Russell | AusNet Services | Melbourne |
| Nick Cimdins | AusNet Services | Melbourne |
| David Hoch | Engie | Melbourne |
| Ross Gawler | Monash University | Melbourne |
| Sujeewa Vithana | United Energy and Multinet Gas  | Melbourne |
| Jeffrey Lau | Clean Energy Finance Corp | Sydney |
| Tim Jordan | Clean Energy Finance Corp | Sydney |
| David Moore | New South Wales Government | Sydney |
| John Sligar | Silgar and Associates | Sydney |
| Saliw Cleto | Transgrid | Sydney |
| Daniel Tucci | APA Group | Teleconference |
| Dom Prentis | APA Group | Teleconference |
| Damian Dwyer | APPEA | Teleconference |
| Robbie Thompson | Ausgrid | Teleconference |
| Jacqueline Bridge | AusNet Services | Teleconference |
| Dominic Eaton | Australian Gas Networks | Teleconference |
| Thomas Dargue | Edge Energy Services | Teleconference |
| Brad Parker | Electranet | Teleconference |
| Geoff Bongers | Gamma Energy Technology | Teleconference |
| Ian Hemming | Government Canberra | Teleconference |
| Shane Evans | Government Canberra | Teleconference |
| John Cooper | Hydro Tasmania | Teleconference |
| David Headberry | Major Energy Users Inc | Teleconference |
| Amjad Adil  | New South Wales Government | Teleconference |
| Kathy Staggs | New South Wales Government | Teleconference |
| Prasad Tadipatri  | New South Wales Government | Teleconference |
| Steven Rawlins | Powerlink | Teleconference |
| Jennifer Brownie | Queensland Electricity Users Network | Teleconference |
| Phil Pollard | Queensland Electricity Users Network | Teleconference |
| Marcus McKay | Tasmanian Government | Teleconference |
| Dinesh Perera  | TasNetworks | Teleconference |
| Herath Samarakoon | TasNetworks | Teleconference |
| Jahan Peiris | Transgrid | Teleconference |

# Welcome and Introductions

Clare Greenwood (Chair, AEMO) welcomed participants to the May Forecasting and Planning Reference Group (FPRG) meeting.

# Administration (Previous meeting minutes and actions)

Clare Greenwood advised there were some additional comments received to the previous FPRG meeting minutes, and changes would be circulated before making final.

Updates to the action items are appended to these meeting minutes.

# Western Victoria Regulatory Investment Test for Transmission (RIT-T)

Kiet Lee (AEMO) referred to the presentation that has been provided in the meeting pack.

The key points from this presentation were:

* The Victorian electricity grid needs to be modernised, in order to meet carbon abatement targets.
* Thermal limitations are more severe for generators proposing to connect to the 220 kV Western Victoria transmission network.
* System strength in North West Victoria is reducing with the connection of new inverter connected generators and will also need to be addressed.
* Optimising generator locations will minimise transmission investment requirements.

AEMO welcomes written submissions on the Project Specification Consultation Report (PSCR), particularly in relation to the credible network and non-network options presented, and issues addressed in this report.

Submissions due on or before 14 July 2017 and should be emailed to Planning@aemo.com.au

The second stage of the RIT-T process i.e. the Project Assessment Draft Report (PADR) which will include a full options analysis, will be published within 12 months from 14 July 2017.

Ross Gawler (Monash University) requested clarification about whether all network upgrades will be done at 220kV. Kiet confirmed that the upgrades in the slide pack are at 220kV while the published PSCR presents network upgrades at 220kV, 275kV and 500kV.

Sujeewa Vithana (United Energy and Multinet Gas) questioned whether system strength has any impact on voltage stability and Kiet confirmed that a weak network is more susceptible to voltage instability.

Jennifer Brownie (QEUN) and David Hoch (Engie) questioned the inclusion of the Victoria’s Renewable Energy Target (V-RET). Kiet advised that these studies assume the V-RET as it is well progressed, with legislation planned to be introduced into parliament soon. Niluksha Akuragoda (AEMO) added that AEMO is in close discussion with the Victorian government to be notified of any changes to the V-RET.

David Headberry (Major Energy Users Network) questioned whether this analysis has looked at the potential for increased inter-connection between South Australia and Eastern states and whether Snowy 2.0 has been considered. Kiet responded that the second stage analysis will look into proposed interconnectors as well as Snowy 2.0, should it pass initial feasibility tests currently underway.

Saliw Cleto (Transgrid) asked whether AEMO will model generators connecting to less congested parts of the network, if the required network augmentations do not go ahead. Kiet advised that this is not yet under consideration and may be taken on board.

Amjad Adil (NSW Government) asked whether there is a requirement in Victoria to look into the location of generators before obtaining approvals. Kiet advised that a generation connection opportunities map has been published on the AEMO website displaying network capacity to connect to new generators. However, if a new generator requested to connect to a constrained part of the network, it would not be rejected on the basis of network constraints.

# Maximum and Minimum Demand draft modelling outcomes

AEMO presented draft Maximum and Minimum Demand modelling outcomes and sought feedback from industry on the draft outcomes prior to finalisation of the modelling for inclusion in the upcoming National Electricity Forecast. Due to this information being embargoed prior to publication of electricity forecasts, this discussion will not be included in the minutes.

# Other Business

# Reliability Standard Implementation Guidelines (RSIG) Stage 1 Submissions

Suzette Lizamore (AEMO) advised that first stage of the Consultation for the Reliability Standard Implementation Guidelines (RSIG) closed on 8 May 2017. Two submissions were received, from Energy Australia and ERM power.

Both submissions were in support of the proposed probabilistic modelling approach. Submissions raised the need to maintain the same level of transparency and availability to access input data. Submissions also provided views on the proposed frequency of reliability assessments.

AEMO is currently finalising the design of the modelling. . Subsequent build and testing will determine whether AEMO is able to provide MT PASA reliability assessments on a weekly basis. If that is not possible, then AEMO will make them available at least on a fortnightly basis.

AEMO will continue to provide input traces in terms of demand, intermittent generation, demand side participation and solar PV.

AEMO will also provide more information about the proposed modelling by publishing the Medium Term Projected Assessment of System Adequacy (MT PASA) process document.

Noting that to publish bid data by Dispatchable Unit Identifier (DUID) would require a rule change, there were opposing points of view in submissions on whether this would serve the interest of the National Electricity Objectives (NEO. In the absence of further support, AEMO will not proceed to seek a rule change.

There was some interest in publication of constrained availability data, without the impact of network constraints. AEMO would need more substantive participant feedback on how this would contribute to the NEO to consider the merit of seeking a rule change to enable publication of this information.

A link to the draft report will be shared with this group, once it is published on 8 June 2017.

#### 5.2 Medium Term Projected Assessment of System Adequacy (MT PASA) Engagement Plan

With reference to the MT PASA Engagement Plan, the AEMO Data Portal, and 2017 Planning Publications, AEMO proposed to set up dedicated workshops to work through the detail, with progress and overall outcomes reported back to the FPRG. Information about these dedicated sessions will be made available on the AEMO website and the link will be distributed to this group.

#### 5.3 AEMO Data Portal Engagement Plan

This item has been discussed in agenda item 5.2.

#### 5.4 2017 Planning Publications

This item has been discussed in agenda item 5.2.

# Meeting Close

The next FPRG meeting will be held on Tuesday 20 June 2017.

**Forecasting and Planning Reference Group (FPRG) Electricity Actions Items**

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| **Item** | **Date Raised** | **Topic** | **Action required** | **Responsible** | **By** | **Status** |
| **4.4.1** | 23-May-17 | Maximum and Minimum Demand Draft Modelling Outcomes | Confirm whether the RIT-T will use AEMO’s maximum and minimum demand forecasts as an input. | Kiet Lee (AEMO) | 20-June-17 | In Progress |
| **4.4.2** | 23-May-17 | Maximum and Minimum Demand Draft Modelling Outcomes | AEMO to set up a discussion with Ausgrid regarding transport infrastructure and data centres. |  (AEMO) | 20-June-17 | In Progress |
| **4.4.3** | 23-May-17 | Maximum and Minimum Demand Draft Modelling Outcomes | SA Government to contact Clare Greenwood (AEMO) with more information on Underlying demand request.  | Marino Bolzon (SA Government) | 20-June-17 | In Progress |
| **4.4.4** | 23-May-17 | Maximum and Minimum Demand Draft Modelling Outcomes | AEMO to provide more information on Electric Vehicles – Watts per vehicle level at peak. | Magnus Hindsberger (AEMO) | 20-June-17 | In Progress |
| **3.3.1** | 18-Apr-17 | Fuel-related Energy Constraints (and load trace development)  | Discussion between Andrew Turley, Luke Russell and James Bennett regarding the treatment of peak demand. Look into an ad-hoc meeting for further discussion.  | Andrew Turley (AEMO) | 23-May-17 | In Progress |
| **3.3.2** | 18-Apr-17 | Fuel-related Energy Constraints (and load trace development) | Distribute the contact details of Craig Price, Nicola Falcon and Andrew Turley to the FPRG. | Clare Greenwood (AEMO) | 23-May-17 | Completed. |
| **8.4.1** | 27-Sep-16 | Modelling Future Weather | Luke Russell (AusNet Services) to investigate their metering data during heat waves and provide information on indications of such systems tripping. | Luke Russell (AusNet Services) | On-going | In progress – work to be presented at a future ad hoc session – timing TBC |