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

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| MEETING: | # 6  |
| DATE: | Tuesday 18 July 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 |
| Andrew Turley | AEMO | Melbourne |
| Craig Price | AEMO | Melbourne |
| Leanna Tedesco | AEMO | Melbourne |
| Matthew Armitage | AEMO | Melbourne |
| Nadesan Pushparaj | AEMO | Melbourne |
| Nicola Falcon | AEMO | Melbourne |
| Brooke Edwards | AEMO | Perth |
| Abe Abdallah | SA Government | Adelaide |
| Marino Bolzon | SA Government | Adelaide |
| Chris Parslow | Department of Energy and Water Supply | Brisbane |
| Mark Ainsworth | Department of Energy and Water Supply | Brisbane |
| Richard Jeffrey | Stanwell | Brisbane |
| Robert Murphy | Stanwell | Brisbane |
| David Sheen | AGL | Melbourne |
| Michael Zammit | AGL | Melbourne |
| Nick Cimdins | AusNet Services | Melbourne |
| Warrick Stapleton | Beon | Melbourne |
| Richard Paprzycki | Energy Australia | Melbourne |
| Maya Muthuswamy | Engie | Melbourne |
| Ross Gawler | Monash University | Melbourne |
| Warner Priest | Siemens | 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 |
| Panos Proftakis | Snowy Hydro | Sydney |
| Arindem Sen | Transgrid | Sydney |
| Dom Prentis | APA Group | Teleconference |
| Damian Dwyer | APPEA | Teleconference |
| Robbie Thompson | Ausgrid | Teleconference |
| Brad Parker | Electranet | Teleconference |
| Brad Harrison | Electranet | Teleconference |
| Franki Lee | Endeavour Energy | Teleconference |
| Naresh David | Energy Australia | Teleconference |
| David Hoch | Engie | Teleconference |
| Geoff Bongers | Gamma Energy Technology | Teleconference |
| Ian Hemming | Government Canberra | Teleconference |
| Shane Evans | Government Canberra | Teleconference |
| John Cooper | Hydro Tasmania | Teleconference |
| Amjad Adil  | New South Wales Government | Teleconference |
| Prasad Tadipatri  | New South Wales Government | Teleconference |
| Steven Rawlins | Powerlink | Teleconference |
| James Bennett | SA Power Networks | 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 July 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.

# Electricity Forecasting Insights

Magnus Hindsberger (AEMO) advised that AEMO has published the Electricity Forecasting insights which consists of a collection of resources. The format of the Electricity Forecasting insights allows AEMO to publish forecasts quicker in the current fast changing environment.

The below feedback was provided on the data portal:

Nick Cimdins (AusNet Services) provided positive feedback regarding the user interface, however pointed out that it is missing some of the inputs that had previously been available (e.g. input prices). Magnus clarified that the inputs are not yet available on the portal, however they will be made available in due time. Dinesh Perera (TasNetworks) also commented that the data inputs would be valuable.

John Sligar (Sligar and Associates) pointed out that he was not aware that the data portal was available and AEMO advised that participants were notified through ‘AEMO Comms’. AEMO will ensure that John is added to the distribution list for such communications. (Action item 5.3.1)

Arindem Sen (Transgrid) asked whether AEMO is going to publish a forecasting methodology report this year. Leanna Tedesco (AEMO) advised that minor updates to the Forecasting Methodology Report will be made by AEMO shortly. The Forecast Accuracy Report is currently being worked on by AEMO.

Tim Jordan (CEFC) asked whether AEMO will publish spreadsheets (CSVs) with data for weak/strong scenarios. AEMO confirmed that these should already be available on the data portal.

Richard Jeffrey (Stanwell) and Mark Ainsworth (QLD Government) provided positive feedback on the data portal.

David Hoch (Engie) sought clarification regarding accessing historical data through the portal. AEMO will keep this in mind going forward, ensuring version control.

Richard Jeffrey (Stanwell) Mark Ainsworth (DEWS) and Marcus McKay (Tas Government) have also requested state based summaries/breakdowns. Mark pointed out that consistency in commentary is also important year to year.

Prasad Tadipatri (NSW government) has questioned if there is a way to date stamp the information displayed on the data portal to understand when the data was updated. To be discussed further offline. (Action item 5.3.2)

Nick Cimdins (AusNet Services) asked Magnus which reports are planned to be published on the AEMO website (e.g. Electric Vehicles [EVs] report, Photovoltaic [PVs] report, etc.). Magnus confirmed that the Prices report and PV report are available on the website currently, the EV assumption is similar to last August’s report (to be updated) and the LNG / Coal seam gas production are based on the last National Gas Forecasting Report (NGFR) therefore all of the above reports should be available on the website.

Prasad Tadipatri also asked whether AEMO will release the excel files associated with the Jacobs Retail electricity price history and projections - Final Public Report. Magnus advised that once format is agreed on, these will be published.

Craig Tupper (Ausgrid) questioned whether transport infrastructure and data centres had been factored into the report. This item has been taken on notice, Magnus will contact Craig to discuss this and the factors that influence forecasts offline. (Action item 5.3.3)

# National Energy Strategy

Matt Armitage (AEMO) referred to the presentation provided to the group prior to the meeting which explains the proposed scope for the National Energy Strategy (NES). AEMO is intending to consolidate the five planning and forecasting reports, integrating gas and electricity modelling.

In discussing the proposed emissions reduction trajectories for different scenarios on slide 9, Matt asked the group whether the trajectories seem logical/ practical and whether they test the questions stakeholders want answered.

Nick Cimdins (AusNet Services) and Tim Jordan (CEFC) advised that the trajectories seem sensible.

Richard Jeffrey (Stanwell) asked Matt whether AEMO will be capturing both phases of V-RET, and Matt confirmed that this is the intention this year also. Richard also questioned why the V-RET features in all scenarios whereas the Q-RET is only featured in one. Matt advised that the mechanism announced to be used in the V-RET (reverse auctions) is more advanced in its development than the progression of the Q-RET. Matt also acknowledged that the state policy environment is changing rapidly; AEMO will continue to monitor developments in this area and will adjust modelling assumptions when appropriate.

David Hoch (Engie) questioned whether AEMO had considered the national impact and also the global focus to ensure there is no inconsistent assumptions (e.g. exporting gas or coal to be combusted elsewhere). AEMO acknowledged the need to ensure consistency in this area, and stated that the emissions reductions assumptions incorporate Australia’s commitment to the global agreement to reduce emissions made at COP21 in Paris

Damian Dwyer (APPEA) questioned when an update to the Gas Statement of Opportunities will be published and Matt advised that this is expected early August 2017. A notification will be sent to the group once this is available.

John Cooper (HydroTas) noted that AEMO intends to identify renewable energy zones through consultation and asked Matt how that process will unfold. Matt advised that AEMO is currently working out the process for this and intends to present maps showing the current NTNDP zones and wind generation bubbles at the August FPRG to kick this off.

Tim Jordan (CEFC) sought clarification whether this approach is in favour of existing transmission sites or whether it will consider optimal wind/solar corridors for future greenfield renewable generation sites and Matt advised that this is within scope.

# Energy Supply Outlook

Matt Armitage (AEMO) advised that the first Energy Supply Outlook (ESO) was published in June 2017 and sought feedback from the group.

Richard Jeffrey (Stanwell) advised that this was a very useful publication. Chris Parslow (Qld Government) also provided positive feedback on the report. Damian Dwyer (APPEA) also commented that they are looking forward to the August update.

Matt advised that an updated version will be published in August 2017 which will include a ten year outlook, and expand on the analyses. Matt also advised that the report will aim to address points from Energy Minister Josh Frydenberg’s letter.

Mark Ainsworth (QLD Government) sought clarification whether the August version will essentially count as AEMO’s response to the above mentioned letter (specifically continuous dispatch). AEMO clarified that the report will capture a number of scenarios which may address points from the letter, however a separate response will most likely be prepared.

# Other Business

No other business was raised by the group.

Clare Greenwood (AEMO) advised that this will be the last FPRG meeting she will chair and that a communication will be sent out once a new chair has been appointed.

# Meeting Close

The next FPRG meeting will be held on Tuesday 22 August 2017.

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

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| **Item** | **Date Raised** | **Topic** | **Action required** | **Responsible** | **By** | **Status** |
| **5.3.1** | 18-July-17 | Electricity Forecasting Insights | Add John Sligar to the AEMO Comms distribution list. | Clare Greenwood (AEMO) | 22-August-17 | In progress |
| **5.3.2** | 18-July-17 | Electricity Forecasting Insights | Further discussion with Prasad re: date stamps for reports on the data portal.  | Magnus Hindsberger (AEMO) | 22-August-17 | In progress |
| **5.3.3** | 18-July-17 | Electricity Forecasting Insights | AEMO to discuss influencers and sensitivities associated with AEMO forecasts with Ausgrid (Craig Tupper). | Magnus Hindsberger (AEMO) | 22-August-17 | In progress |
| **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 | Completed. |
| **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 | Completed. |
| **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 – further discussion required.  |
| **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 | Completed - Will be included in the next Electric Vehicles report. |
| **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 | Completed end of June.  |
| **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 | Completed. |