

# SDWIG MINUTES

**MEETING:** DEIP – Standards, Data and Interoperability Working Group #3  
**DATE:** Wednesday, 17 June 2020  
**TIME:** 14:00 – 16:00  
**LOCATION:** WEBEX

## ATTENDEES:

COMPANY / DEPARTMENT
AEMC
AEMO
AER
AGL
ANU
ARENA
CER
Clean Energy Council
CSIRO
DNVGL – Guest presenter
ECA
ENA
Energy Council
ESB
Solar Analytics – Guest Presenter
Standards Australia

## APOLOGIES:

COMPANY / DEPARTMENT
AEMC
AEMO
Ausgrid
CER
Energy Council
PIAC
Smart Energy Council

## Actions

**Action 2.1:** Update TOR to include the following in taskforces membership (agenda item 3):

- Retailers and aggregators
- CER
- Consumer representatives

**Action 2.2:** Approval for logo use on AEMO Working Group webpage to be advised by All organisations involved to provide approval or requirements around logos being published on the AEMO working group webpage by **Friday 26 June** (agenda item 4)

**Action 2.3:** AEMO to publish working group page to AEMO website by **Friday 3 July** (agenda item 4)

**Action 2.4:** Members of the group to advise if they require a briefing on the Initial Standard approach (prior to formal consultation) by **Wednesday 24 June** (agenda item 5)

**Action 2.5:** Members to send through initial feedback for consideration on the information presented regarding the Initial Standard approach by **Wednesday 24 June** (agenda item 5)

**Action 2.6:** AEMO to develop customer facing Q&A/FAQ on Initial Standard by implementation timing (agenda item 5)

**Action 2.7:** AEMO to confirm whether metering requirements applies to all new meters or just meters connected for Solar/Storage by **Friday 19 June** (agenda item 5)

**Action 2.8:** All members to advise organisational endorsement for the Battery Standard Proposal as presented by DNVGL by **Monday 22 June** (agenda item 7)

**Action 2.9:** All members to advise endorsement on the cyber security taskforce scope by **Friday 26 June** via return email (agenda item 8)

**Action 2.10:** ENA to provide contacts for NSW cyber security activities to AEMO for discussion regarding cyber security taskforce by **Monday 22 June** (agenda item 8)

**Action 2.11:** AEMO to distribute the DER Device Standard Taskforce scoping definition document for feedback by **Friday 3 July** (agenda item 9b)

**Action 2.12:** All members to review DER Device Standard Taskforce and send through feedback prior to next Working Group meeting on **Wednesday 15 July** (agenda item 9b)

**Minutes:**

**Items to note**

***Agenda item 2***

- All parties agree to previous meeting minutes

For Consideration

- Unedited meeting minutes to be shared with members; cut down minutes to be published to public website

***Agenda Item 3 - TOR***

- Endorsed TOR with minor amendments discussed
- TOR will be published on public website working group page

***Agenda Item 4 – Communication and Awareness***

- No concerns with AEMO developing a public working group page with presentations and minutes published to website as approved by members
- [DERSDI@aemo.com.au](mailto:DERSDI@aemo.com.au) mailbox set up to collect mail and obtain feedback from externals

For Consideration

- Add Mission of the SDIWG to the webpage
- Inclusion of Standards Australia key website links in 'Related items'
- Logo use may need to be considered and approved prior to use
- Add Linked in Page (ARENA) – details: <https://www.linkedin.com/groups/10414227/>

***Agenda Item 5 – DER Initial Standard issues paper***

- (AER) Will this change push any competitors out of the market? Will some systems struggle to comply?
  - (CEC) Based on consultation, the intent is supported. There may be some models that struggle to meet the requirement, but these are also likely to struggle with new AS/NZS 4777.2. Concern is around test lab capability to conduct the test in short time frame and getting advice out to small businesses in SA in a timely way such that they don't have a lot of obsolete stock.
- (CEC) If this applies to like for like replacement? How do we comply with consumer law and this requirement?
  - (AEMO) This is not within the Initial Standard scope.
- (ARENA) Don't want to discount the problem, but there should be other ways to manage this problem outside of adding costs to consumers and requiring adjustments in metering boxes (may be impacted by asbestos etc.). ARENA has funded activities that could be used – such as an API approach rather than an 'on/off' approach.
  - (AEMO) concerns around communications when using APIs (and customer wifi). SAPN are currently looking at dynamic management, but no other DNSPs have indicated that this is something they are looking to implement in

near future. It will likely take 7-10 years for all DNSPs to get that level of connectivity required.

- (ARENA) funds have been invested in developing communication channels. It seems backwards to go back to on/off switches despite this investment.
- (AEMO) The market-based approach can evolve via APIs when available. This is an emergency back-stop only to support security and reliability.
- (ARENA) Change of volts at sub level or demand management for PV is another option.
  - (AEMO) Believe there is some study into this but will take this on notice.
- (ENA) Have you had any other consultation on these slides? Some seem to have seen these but they are new to us.
  - (AEMO) we are starting to socialise these but have only reached limited groups.
- (ECA) Very important to get the messaging right for consumers.

#### For Consideration

- (CER) To be eligible for small scale certificate incentives must meet state and territory requirements, as well as DNSPs requirements. Some may not be eligible for incentives.
- (CEC) In the AEMO discussion paper the implementation process that was recommended was the SAPN tech agreements. In Victoria they used a rebate for installation of desired inverters as a process to encourage behaviour which has worked quite well and might be a good soft approach.
- (CEC) We need to be aware of possible consumer responses. Can we put together Q&A from a customer perspective?
- (CEC) Are there any alternatives?
  - (ECA) Community batteries
  - (AER) Options around timing – longer term; can we explore optional participation by consumers to switch off PV; OEM direct communications, Zone Substation control via DNSPs; over frequency generation shedding or UFLS at zone substation level; use existing operating envelopes – can we evaluate and pull together a cost benefit analysis
  - (AEMO) do we also need to research and get the messaging correct on this for consumers? Control has not landed well, but this is only to be used as an emergency response and getting the message as to why or how this works?
  - (AGL) agree with AER around CBA; we need to consider reserves from DPV
  - (ECA) the proposal is only about new or replacement meters associated with PV. The amount of PV covered by devices will be quite small for quite some time. This solution will not have impact in next 2-3 years. Required urgently but capability is not there for 2-3 years.
  - (CER) We are getting 200,000 - 300,000 systems being installed on a yearly basis so disagree that the impact in the next year won't be significant.

- (ECA) don't have an issue with the additional metering requirements. We should be talking about this such that it creates options for participation in the market, not for the emergency requirements. AEMO needs to consider longer timeframe.
- (CER) we do not disagree that the thinking needs to be focused on options for participation rather than emergency.
- (ECA) Alternatives to people with PV to turn off generation is to turn on load (which is also limited by other rules – such as water heating limitations).
  - (ANU) Is there a potential for similar issue for UFLS if customers also have storage. In the process of turning off loads that a customer is shed as a whole?
  - (AEMO) clarified that this is based on current wiring; new wiring will allow shedding of appliances, not overall load. Markets could be developed around using the wiring arrangements to participate.
- (ANU) Can we look at storage assets (e.g. Batteries) as an alternative that also provides value and might tip the business case for this. Consumers will not like this solution and will need to be considered as to how to explain this. Consumer confidence in energy is low and this would further erode. Also need to explain how some consumers will be disconnected and not others.
  - (AEMO) We are considering this and also how to reduce inequity. Market based solutions are preferred but what we have experienced is that these market-based solutions often fail
- (AGL) This could be just another service. Based on level of penetration of smart meters – this can be service where retailers can sell incentives to customers with smart meters and therefore reward them based on their participation.
  - (ECA) Proposed rule change and standard will face high level of discussion and feedback. AEMO are focusing on 'urgent' but not important – we need to focus on longer term integration of DER.
  - (AGL) For those that are unable to operate in the market, the incentivisation of participation would open up market to consumers.
  - (ECA) this is not something that requires a rule change. Retailers can already provide this service.
  - (AGL) If AEMO make this as though they are procuring a service then it opens market for a larger set of customers to participate.
  - (AEMO) Load shedding is not currently a service and is only an emergency intervention tool.

### ***Agenda Item 6 – The DER Visibility and Monitoring Best Practice Guide***

For consideration

- (AEMO) How do we take this forward?
  - (ANU) This work talks to the what, many other initiatives talk about the how. This feels like it would fit within the API working group (can't speak on behalf of API WG) – and this could be wrapped up in the invitation for the API taskforce

- (AEMO) will share with API taskforce invitation.
- (ECA) Particularly interested in site voltage. Would there be an API that would allow us to understand voltage level of individual sites?
  - Yes – this is correct.

## Required Dynamic data

Dynamic data is data that is frequently changing, eg power generation, consumption, voltage.  
 Dynamic data is collected in 5 min granularity or greater can be made available in near real-time.

Parameter	Description	Units	Notes
Site Gross Load – Active/Reactive power	Total Active/Reactive power consumed by the customer. Per phase is preferable with combined acceptable.	kW/kVAr	Max, Min, Mean
Site Active/Reactive exported power	Active/Reactive power exported from the site. Per phase is preferred with combined acceptable.	kW/kVAr	Max, Min, Mean
Site Active/Reactive imported power	Active/Reactive power imported from the grid to the site. Per phase is preferred with combined acceptable.	kW/kVArh	Max, Min, Mean
DER generation Active/Reactive power	Active/Reactive power generated by each DER. Per phase is preferred with combined acceptable.	kW/kVArh	Max, Min, Mean
DER consumption – Active/Reactive power	Active/Reactive power consumed/stored by each DER. Per phase is preferred with combined acceptable.	kW/kVArh	Max, Min, Mean
Site Voltage	Average AC voltage over the period – measured at meter board	V	Max, Min, Mean
Time	Accepted date formats: yyyy-MM-ddThh:mm:ss or yyyy-MM-ddThh:mm:ss.sss	UTC	Date and time matched to AEMO VPP data (ISO 8601)

- (ECA) Why isn't all the data in the DER Register
  - (AEMO) A part of this work is to align with the register.
  - (CEC) there are a few additional items that should be included in the DER Register, but there are a few items that cannot be collected until CDR is finalised
  - (SoAN) focus of this is what is the minimum data set that will deliver the most value

### Agenda Item 7 – Battery Performance Standard

- AEMO to provide proposal to group and organisations to consider proposal from organisation position.

For consideration

- (AEMO) Have been requested to provide a letter of support (as with other organisations). Can we endorse this from a Working Group perspective?
  - (ENA) First time exposed to this proposal. Will not be able to endorse until we see full proposal
  - (CEC) only seen portion of it. But CEC support this proposal as it creates a language whereby battery providers can take about the performance of their batteries.
  - (ECA) Cannot endorse until discussion with members
  - (Standards Australia) Proposal has already been shared with some committees and vast majority are supportive of the proposal and endorsement has been provided by many organisations already.

- (ECA) committee members should be selected based on their knowledge and not to represent their organisations
  - (Standards Aus) Members are intended to consult back with their representative groups

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**Agenda Item 8 – Cyber Security Taskforce Scope**

- (ENA) Not sure how NSW cyber security activities interacts with this piece of word.
  - (AEMO) need to engage with NSW activity – please provide contacts.

For consideration

- Consider if there are any other current cyber related activities that need to be taken on board as part of cyber security taskforce

**Agenda Item 9 – Other Business**

- Standards Australia taking applications for NEXTgen program for 2021.

**Next Meeting:**

- 15 July 2020
- 2.00pm – 4.00pm

**Further questions/feedback:**

- Stuart Johnston: [Stuart.Johnston@aemo.com.au](mailto:Stuart.Johnston@aemo.com.au)
- DER Program: [DERProgram@aemo.com.au](mailto:DERProgram@aemo.com.au)