



DER Market Integration Consultative Forum

19 April 2021

*We acknowledge the Traditional Owners
of country throughout Australia and
recognise their continuing connection to
land, waters and culture.*

*We pay our respects to their Elders past,
present and emerging.*

AEMO Competition Law Meeting Protocol

AEMO is committed to complying with all applicable laws, including the Competition and Consumer Act 2010 (CCA). In any dealings with AEMO regarding proposed reforms or other initiatives, all participants agree to adhere to the CCA at all times and to comply with this Protocol. Participants must arrange for their representatives to be briefed on competition law risks and obligations.

Participants in AEMO discussions **must**:

1. Ensure that discussions are limited to the matters contemplated by the agenda for the discussion
2. Make independent and unilateral decisions about their commercial positions and approach in relation to the matters under discussion with AEMO
3. Immediately and clearly raise an objection with AEMO or the Chair of the meeting if a matter is discussed that the participant is concerned may give rise to competition law risks or a breach of this Protocol

Participants in AEMO meetings **must not** discuss or agree on the following topics:

1. Which customers they will supply or market to
2. The price or other terms at which Participants will supply
3. Bids or tenders, including the nature of a bid that a Participant intends to make or whether the Participant will participate in the bid
4. Which suppliers Participants will acquire from (or the price or other terms on which they acquire goods or services)
5. Refusing to supply a person or company access to any products, services or inputs they require


Under no circumstances must Participants share Competitively Sensitive Information. Competitively Sensitive Information means confidential information relating to a Participant which if disclosed to a competitor could affect its current or future commercial strategies, such as pricing information, customer terms and conditions, supply terms and conditions, sales, marketing or procurement strategies, product development, margins, costs, capacity or production planning.

Today's meeting

Time	Item	Speaker
11:00 – 11:05	Welcome and introductions	Matthew Armitage
11:05 – 11:15	Virtual Power Plant Demonstrations Update: <ul style="list-style-type: none">• MASS Consultation• Knowledge Sharing Report #4 input	Matthew Armitage
11:15 – 11:25	Customer & Aggregator User Stories	Matthew Armitage
11:25 – 11:40	Project EDGE: <ul style="list-style-type: none">• Public webinar follow up• Models for aggregator participation in dispatch	Matthew Armitage/ Nick Regan
11:40 – 11:55	Q&A	<i>Via Slido.com – use code #MICF</i>
11:55 – 12:00	Future Meetings & Close	Matthew Armitage

VPP Demo & MASS Consultation update

MASS Consultation Overview

 We are here



- AEMO has commenced review of the feedback provided in all submissions.
- Meetings were held with the following stakeholders to further understand submissions and queries around metering:
 - Solar Analytics, Landis+Gyr, SwitchDin, Planet Ark Power, Reposit Power, IntelliHub, Shell Energy
 - Minutes will be published prior to the draft determination where discussions have impacted the consultation outcomes.
- The meetings and varied submissions received have resulted in a 5 week extension of the review period to allow for sufficient consideration of all points raised in the draft determination.
- An additional week has been added to the second stage submission period to allow stakeholders time to consider the draft determination.

Knowledge Sharing Report #4 & ISP input

- AEMO are currently gathering input on the fourth VPP Demonstration knowledge sharing and Integrated System Plan reports.
 - A survey will be shared post forum for aggregators and retailers to complete providing valuable insights for both reports. All information provided will be kept confidential, for publication insights will be aggregated and de-identified.
 - Please complete this by **COB Thursday 22 April 2021**.
 - If you would like to discuss feedback, please contact DERProgram@aemo.com.au

Operationalisation:

- AEMO continue to prepare for VPP operationalisation.
 - The MASS consultation extension will impact the VPP demonstration end date.
 - Impact assessment and next steps are currently being determined – information via email will be provided once finalised.
- Interviews will be held with the 7 existing participants to understand transition support needs.
 - Other aggregators/retailers are invited to contact DERProgram@aemo.com.au to express interest in an interview to discuss needs of non-demo participants.



Customer & Aggregator User Stories

Customer User Stories

DER Wholesale Integration User Stories			Acceptance criteria		
As a...	I want...	So that I...	Solution must...	Reform process	Being addressed?
Customer	Simple choices on how I manage my energy use	Can minimise the amount of time I spend thinking about energy	Prioritise simplicity (whilst balancing risk) at all levels of all solutions	All Reforms	
	To choose who optimises my household energy use (e.g. an Aggregator (who can be a retailer or independent))	Can get the best deal, and control who is utilising my devices. Plus only 1 entity can do a household optimisation	Implement a consumer consent process that provide explicit notification of who is optimising energy use at a CP/NMI	DER Min Tech Standards? Customer protections?	
	Whoever I nominate as the Aggregator to be able to control any of my controllable household devices	Have maximum choice over who utilises my devices	Ensure all smart hardware can act on local control signals from a gateway/EMS	DER Min Tech Standards	
	To be able to churn aggregators as easily as I can churn retailers, without having to install any new proprietary hardware	Can get the best deal from aggregators and have any aggregator capable of controlling my devices	Enable any aggregator to control any device, to minimise costs of churning	DER Min Tech Standards	
	Pay as little as possible for my energy, and get cheaper energy for usage that can be controlled if that means engaging >1 provider for my energy usage	Spend more on other things	Maximise retailer/aggregator competition for my business and enable those that specialise in controllable device management to be exposed to the spot market	2SM	
	My EV to be able to deliver electricity services	Can get a better deal	EV charger capabilities are standardised to be 'smart' and capable of delivering electricity services	DER Min Tech Standards EV Charger Standards	
	Be protected from corporate failure	Am not financially impacted	Ensure appropriate consumer protections apply to providers	AEMC Consumer Protections Review 2SM	

DISCLAIMER: THIS IS A DRAFT WORKING DOCUMENT AND DOES NOT REPRESENT AEMO'S VIEWS. THE PURPOSE IS TO ARTICULATE AND UNDERSTAND DIFFERENT STAKEHOLDER PERSPECTIVES

Aggregator User Stories

DER Wholesale Integration User Stories			Acceptance criteria		
As a...	I want...	So that I...	Solution must...	Reform process	Being addressed?
Aggregator					
	TEMPLATE – FOR DISCUSSION				

Project EDGE:

- Public webinar follow up
- Models for aggregator participation in dispatch

DER Dispatchability: testing how DER fleets may participate in wholesale dispatch (DRAFT for Project EDGE)



DUIDs	1 DUID (Bi-directional) or 2 DUIDs (Load & Generation)...EDGE = 1 DUID (10 bands)			
Definition of QTY	Aggregated...connection point flows or controllable loads/devices			
Boffer characteristic	Step 1: Visibility / Sch 'lite'	Step 2: Self-dispatch	Step 3: Scheduled	Controllable only (WDR, VPP Demo)
Summary	Agg sends DUID forecast to DSO (for OEs), also to AEMO for Operational Forecasting	Agg use energy fixed loading to self-dispatch	Most sophisticated step – submit price/quantity pairs as a scheduled resource	Test steps 1-3 but with QTY defined as controllable load/gen only
Def of QTY	Agg net CP flow (DUID)	Agg net CP flow (DUID)	Agg net CP flow (DUID)	Controllable only - WDR
Info structure	[5 min x 24/48 hr forecast]	5 mins bid file	5 mins bid file	Per steps 1-3
NMIs covered	All registered NMIs	All registered NMIs	All registered NMIs	All registered NMIs
Energy fixed loading	N/A	Yes – use EFL to self-dispatch every 5 mins	N/A Submit price/quantity pairs	Yes, if applicable
Price setting	None	None	Yes	Yes, if scheduled
RT DUID telemetry	5 min	< 5 min	Real time	Per steps 1-3



Q&A

Join via [slido.com](https://www.slido.com) using code #MICF



Future Meetings & Close

Next meeting: 6 May

Future Meetings

- **Thursday, 6 May 2021**
- **Thursday, 3 June 2021**
- **Thursday, 1 July 2021**
- **Thursday, 8 August 2021**
- **Thursday, 2 September 2021**
- **Thursday, 7 October 2021**
- **Thursday, 4 November 2021**

Note:

- Agenda & meeting documents will be provided 5 days prior to meetings.
- Meeting actions will be distributed within 5 days post meetings (as required).
- Non-confidential information will be published on AEMO's website in the month following each meeting.



Questions & contact

EDGE@aemo.com.au