

AGENDA

MEETING: INFORMATION EXCHANGE COMMITTEE

DATE: THURSDAY, 15 MARCH 2018

TIME: 1:00PM

LOCATION: AEMO MELBOURNE OFFICE
LEVEL 22, 530 COLLINS STREET, MELB, VIC, 3000

ATTENDEES: MEMBERS

Mr John Pittard (Chair),
Mr David Markham (retailer representative)
Mr Dean Van Gerrevink (metering representative)
Mr Peter Price (distributor representative)
Mr Adrian Hill (discretionary member-distributor)
Mr Peter Van Loon (discretionary member-retailer)
Mr Marco Bogaer (discretionary member-metering)

OTHER ATTENDEES

Violette Mouchaileh (IEC Secretariat), Paul Le Favi (AEMO), Jackie Krizmanic (AEMO-B2B Working Group member), Roy Kaplan (AEMO)

APOLOGIES: MR DAVID HAVYATT

No.	Agenda Item	Paper	Responsible	Action
Preliminary Matters				
1	Apologies		Chair	Note
2	Members' declaration of interest		Chair	Note
3	Minutes of previous meeting	Minutes: 21 November 2017 23 February 2018	Chair	Endorse
4	Matters arising	Matters arising from previous meetings	IEC Secretariat	Note
Matters for Decision				

5	Life Support	Consultation Paper	B2B Working Group members	Decision
Matters for Discussion				
6	Post Power of Choice debrief	Heightened support Outcomes	Paul Le Favi	Discuss
7	Scoping Paper	Standing data	Roy Kaplan	Discuss
Matters for Noting				
8	IEC forward plan	IEC forward plan	IEC Secretariat	Note
9	Other Business		Chair	

Workshop (this will follow the standing items)

) Role and priorities for the IEC (*refer to slide deck for background*)

Next meeting: 9 May 2018

Meeting quorum requirements

The AEMO member or their alternate must be present at each meeting.

No. of IEC members		7	8	9	10
Quorum		5	5	6	6
Votes required for a recommendation to change B2B procedures or IEC works program	70%	5	6	7	7
Votes required for other IEC decisions	60%	5	5	6	6

The IEC may only amend the IEC Election Procedures and Operating Manual if it has at least 75% support for the change plus support from at least three of the voter category members (i.e. distributor, retailer, metering, and third party members).



INFORMATION EXCHANGE COMMITTEE MEETING

FOR NOTING

SUBJECT: MEMBERS' DECLARATION OF INTEREST

AGENDA ITEM: 2

1. PURPOSE

To advise the IEC of members' declaration of interest.

2. SUMMARY

At each meeting, the Chairperson will confirm whether there are material conflicts of interest arising from matters to be considered at the IEC meeting and declarations of interests from members of the IEC. A register will keep track of these and be provided under this item. As of 15 March 2018, there are no items on the register.

The rules provide guidance on this matter:

-) The rules allow IEC members to take into account the interests of the parties or groups of parties they represent.
-) The rules provide that conflict will be material if it detracts, or would reasonably detract, from that member's capacity to exercise independent judgement in respect of the relevant decisions.
-) In the event that a member declares a material conflict, that party is not to take part in the items in question.

3. RECOMMENDATIONS

The IEC note members' declaration of interest.

AUTHOR NAME:	VIOLETTE MOUCHAILEH
APPROVED:	15 MARCH 2018



MINUTES

MEETING: Information Exchange Committee
DATE: Tuesday 21 November 2017
TIME: 1:00 PM
LOCATION: VIDEOCONFERENCE/TELECONFERENCE: SYDNEY, MELBOURNE AND BRISBANE

MEMBER ATTENDEES: Mr John Pittard, AEMO director (IEC Chair)
Mr David Markham, Australian Energy Council (retailer member)
Mr Peter Van Loon, Powershop (discretionary, retailer representative)
Mr Marco Bogaers, Metropolis (discretionary, metering representative)
Mr Dean Van Gerrevink, Vector (metering member)
Mr David Havyatt, Energy Consumer Australia (consumer member)
Mr Alan Hume, Jemena (discretionary, distributor representative)
Mr Peter Price, Energy Queensland (distributor representative)

ALTERNATES:

APOLOGIES:

IN ATTENDANCE: Ms Violette Mouchaileh (IEC Secretariat)
Mr Ben Healy (POC Program Manager)
Mr Chris Cormack (B2B Procedure lead)
Mr Joe Castellano (B2B Working Group representative)
Ms Elisabeth Coroneo (AEMC) – Item 9 only
Mr Owen Pascoe (AEMC) – item 9 only

The chairman opened the meeting at 1:00pm

1. Apologies

There were no apologies for the meeting.

2. Member's Declarations of Interests

The Committee noted there were no conflicts of interest declared.

3. Minutes of previous meeting

The Committee endorsed the minutes of the meetings held on 26 September 2017 and were confirmed as a true record of the meeting.

4. Matters arising

The Committee noted the status of the matters arising.

5. IEC Annual Report 2017

The IEC approved the IEC Annual Report subject to some corrections proposed by the Committee around typographical errors and language. The IEC noted the updated IEC

Annual Report will be circulated for final comment prior to its publication on the AEMO website by end of December 2017.

Action Item 1

6. IEC Budget 2018/19

The Committee approved the IEC 2018/19 operational budget of \$86,500 noting the budget assumptions.

The Committee request some further information around the coverage amount for IEC public liability, professional indemnity and directors'/officers' liability insurance.

Action Item 2

7. Program Update

The Committee noted and discussed AEMO's program update – particularly around registration, industry test outcomes, industry risks and mitigations and arrangements for heightened support post Power of Choice implementation.

The IEC discussed the continuation of the B2B Working Group. The IEC requested by its February 2017 meeting a list of the B2B Working Group members and those who attend as observers.

Action Item 3

8. Procedure Change Process

The IEC noted the proposed procedure change process. The IEC discussed the need for a timely process to progress change while at the same time ensuring an inclusive consultation process. The IEC agreed in principle to the proposed procedure change process but noted the need to be flexible depending on the nature and complexity of the changes, and commented that the life support rule changes are a good test case.

9. Life Support Rule Change

The AEMC attended the IEC meeting for this item providing an update on the life support rule change and seeking input from the IEC on two matters:

-) Timetable for implementation: The IEC noted that the AEMC draft determination proposed a six month implementation timetable. The IEC noted that a six month implementation for any change requiring system and process change involving all retailers and distributors is inadequate to meet the requirements of efficient and robust processes and urged the AEMC to allow a minimum of 12 months for the necessary design, consultation and process/system development to take place. The IEC was concerned that a rushed implementation is more likely to create errors in information sharing resulting in information relating to life support customer not being properly shared or not accurately maintained.
-) Level of prescription on information to be exchanged: the IEC discussed this and commented that the rules should provide the head of power for the B2B procedures to outline the nature of the information to be exchanged. This is recognising that technology and modes of communication do change, and the rules should provide that flexibility.

The IEC agreed to formalise their comments into a letter addressed to the AEMC.

Action Item 4

The IEC also requested the B2B Working Group develop the necessary B2B procedures consultation changes for the Life Support arrangement for consideration at the IEC's February 2018 meeting. The IEC understood that the B2B Working Group had commenced some work on this and that a final determination from the AEMC was expected in December 2017.

Action Item 5

10. IEC Strategic Session and priorities beyond Power of Choice reforms

The Committee discussed priorities for 2018 and agreed to determine this at its February 2018 meeting. The Committee was asked to provide to the IEC Secretariat items they wish to discuss at the Strategy Day to inform the agenda.

Action Item 6

11. IEC member appointment

The Committee noted that the IEC discretionary members are up for reappointment and AEMO would commence the process in December 2017. AEMO intends to finalise the reappointment processes by the first meeting of the IEC meeting scheduled by end of February 2018.

12. IEC forward plan

The Committee noted the forward plan.

The Chair closed the meeting at 3:00pm.

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John Pittard
IEC Chair

Date: 23 February 2018



MINUTES

MEETING: Information Exchange Committee
DATE: Friday 23 February 2018
TIME: 11:00 AM
LOCATION: TELECONFERENCE

MEMBER
ATTENDEES: Mr John Pittard, AEMO director (IEC Chair)
Mr David Markham, Australian Energy Council (retailer member)
Mr Peter Van Loon, Powershop (discretionary, retailer representative)
Mr Marco Bogaers, Metropolis (discretionary, metering representative)
Mr Dean Van Gerrevink, Vector (metering member)
Mr David Havyatt, Energy Consumer Australia (consumer member)
Mr Peter Price, Energy Queensland (distributor representative)

ALTERNATES:

APOLOGIES: Mr Marco Bogaers, Metropolis (discretionary, metering representative)
Mr Alan Hume, Jemena (discretionary, distributor representative)

IN ATTENDANCE: Ms Violette Mouchaileh (IEC Secretariat)
Ms Jackie Krizmanic (AEMO B2B Working Group member)
Mr David Woods (B2B Working Group member)

The chairman opened the meeting at 11:00am

1. Apologies

Mr Marco Bogaers and Mr Alan Hume did not attend the meeting. A quorum was however present.

2. Procedure drafting: Life Support Rule Change

The Committee in discussing the options presented by the B2B Working Group on the implementation of the Australian Energy Market Commission's Life Support rule changes:

-) Noted the desire for a more robust and comprehensive long term solution. The Committee noted that while email may be a suitable interim solution, it did not consider it a long term solution. A solution along the lines of either a B2B transactions or centrally accessible via MSATS was more desirable.
-) As a short term solution, the IEC agreed to progress with Option 1 (life support via email notification and no change to current CDN) for February 2019 implementation. In parallel, the IEC agreed to progress the decision on the long term solution, aiming for an end of 2019 implementation timeframe.
-) The IEC requested the B2B Working Group consider the long term options for presentation at the IEC by mid-2018, together with a timetable for implementation.

-) The IEC agreed that the B2B Working Group would prepare the consultation pack for endorsement at the IEC 15 March 2018 meeting. The IEC noted that the consultation pack would advise stakeholder of its short and long term approach to life support.

The Chair closed the meeting at 12:00 noon.

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John Pittard

Date: 15 March 2018

IEC Chair



INFORMATION EXCHANGE COMMITTEE MEETING

FOR NOTING

SUBJECT: MATTERS ARISING

AGENDA ITEM: 4

1. PURPOSE

To report on the status of action items arising from the previous IEC meetings.

2. BACKGROUND

Attached is a list of action items from the previous IEC meetings.

3. RECOMMENDATIONS

The IEC note the action items from previous IEC meetings.

AUTHOR NAME:	VIOLETTE MOUCHAILEH
APPROVED:	15 MARCH 2018

ATTACHMENTS
1. MATTERS ARISING LIST

Attachment 1: Matters Arising

Action Item	Date of Meeting	Person Responsible	Date Required	Status
Item 1: MSATS standing data review	8 May 2017	Ruth Guest (AEMO)	February 2018	Completed. Refer to Item 7.
Item 2: Annual Report to be circulated for final comment prior to its publication of AEMO's website.	21 November 2017	IEC Secretariat	31 December 2018	Completed. IEC Annual Report has now been published on the AEMO website.
Item 2: Further information to be presented to IEC around the coverage amount for IEC public liability, professional indemnity and directors'/officers' liability insurance.	21 November 2017	IEC Secretariat	15 March 2018	AEMO takes out insurance to primarily protect the individuals of the committee to cover its statutory functions. The insurance is renewed on an annual basis. Any AEMO nominated member (or secretariat) on the IEC is automatically covered by the much larger AEMO insurance policies (because they are there specifically as a representative of AEMO) the other members represent a sector of the industry – not specifically their individual employer company. Refer to below for details.
Item 3: List of B2B Working Group Members and those who attend as observers.	21 November 2017	B2B Working Group Chair	December 2017	Completed. This was circulated in December 2018.
Item 4: IEC to formalise their comments on Life Support Rule Change into a letter to the AEMC.	21 November 2017	IEC Secretariat	December 2017	Completed. IEC letter was sent to the AEMC in December. This informed the AEMC's decision to extend implementation timeframes from 6 months to 16 months.

Item 5: B2B Working Group to develop B2B procedures consultation changes for the Life Support arrangements for consideration at the next IEC meeting.	21 November 2017	B2B Work Group	15 March 2018	Completed. Refer to item 5.
Item 6: Committee to provide IEC Secretariat items for discussion at the Strategy Day to inform the agenda.	21 November 2017	IEC Committee members	February 2018	Completed. The IEC Secretariat did not receive any items.

IEC insurance details:

The following is a summary of the main terms of the insurances:

	Professional Indemnity	Directors & Officers Liability	Public liability
Insured	Information Exchange Committee including the individual members and/or alternates nominated.	Information Exchange Committee including the individual members and/or alternates nominated.	Information Exchange Committee including the individual members and/or alternates nominated.
Covering	Liability arising from an error or omission out of a breach of professional duty in connection with the business of the IEC.	The individual members / alternates of the IEC against a wrongful act committed in the role as members.	Liability to third parties from loss or damage to property or death or bodily injury.
Period of insurance	12/12/2017 – 12/12/2018	12/12/2017 – 12/12/2018	12/12/2017 – 12/12/2018
Limit of cover	\$10.0M	\$10.0M	\$20.0M

INFORMATION EXCHANGE COMMITTEE MEETING

FOR DECISION

SUBJECT: B2B Procedures approval to consult

AGENDA ITEM: 5

1. PURPOSE

The purpose of this paper is to request the IEC to approve the initial draft B2B procedures to be released for consultation on March 19th 2018.

2. BACKGROUND

On 19th December 2017 the AEMC published the final version of the rule for strengthening protections for customers requiring life support equipment.

The final rule was made in response to a rule change request submitted by the Australian Energy Regulator (AER), in the context of problems the AER has identified with the current life support provisions. Specifically:

-) some customers requiring life support equipment are not being validly registered to receive protections, putting them at increased risk of harm.
-) there is no onus on retailers and distributors to provide customers with information to facilitate registration when notified of the need for life support equipment.
-) life support registers have grown and become increasingly inaccurate despite mandatory periodic reconciliations.

The final rule contains a number of new obligations on both the retailers and distributors in relation to the information which is required to be shared.

The changes include the provision of:

-) Required date when life support is needed or not needed.
-) Relevant contact details.
-) Life Support Equipment
-) A de-registration reason if life support is no longer required.
-) A notification advising of life support requirements from the distributor to the retailer where the distributor is the registration process owner (when the customer has transferred).

3. DISCUSSION

3.1. B2B PROCEDURE DOCUMENTS

The B2B procedures are the communications between counterparties that facilitate new connections, meter installations and upgrades, meter data transfer, customer and site detail notification. On the 1 February 2019 they will also facilitate the communication of life support information.

The changes to the B2B Customer and Site Details Procedure have incorporated an email communication for information to be exchanged. As per agreement by the IEC on 1 March

2018 the communication is an interim process with two options being presented to Industry for feedback on a long term solution.

The two options are:

Option 1 - B2B Transaction:

This option is to have the life support notification that is required to be provided to the relevant participants be delivered by a new B2B transaction. A new schema may be required. The new transaction would be sent by the current or prospective Retailers and DNSPs.

Option 2 - Central Repository:

This option is to have life support information stored in a central repository that will allow participants to create, update, remove and discover life support information. The creation, update and removal will only be performed by the registration process owner of the life support information. Discovery can be performed by current participants who have a relationship with the customer or participants who may have a future relationship with the customer.

The five procedure documents that contain the B2B communications are as follows:

-) B2B Procedures: Service Order Process (version only update)
-) B2B Procedures: Customer and Site Details Notification Process (amended)
-) B2B Procedures: One Way Notification Process (version only update)
-) B2B Procedures: Meter Data Process (version only update)
-) Technical Delivery Specification (version only update)

Other documents

-) Response template – designed to guide participant submissions for ease of consolidation and to provide feedback.

The Change or Consultation pack will include the above documentation as well as the two options for a long term solution for comment. Industry feedback on these matters will be welcomed and will help form the draft procedures and the decision for the long term solution.

The draft procedures are planned for publication on 25 May 2018.

AEMO will review the feedback from the two options and discuss with the IEC the best way forward.

3.2. B2B CONSULTATION MILESTONES

The following table outlines the full consultation dates for B2B Procedure changes.

Milestone	Date
IEC approve the publishing of initial draft procedures and consultation documents	15 March 2018
AEMO publishes notice of first stage consultation, initial draft procedures and consultation documents	19 March 2018
Submissions close to first stage consultation	26 April 2018
IEC approve the publishing of draft procedures	23 May 2018
AEMO publishes notice of second stage consultation and draft procedure determination	25 May 2018
Submissions close to second stage consultation	12 June 2018
IEC approve the publishing of final procedures	18 July 2018
AEMO publishes final procedure determination	23 July 2018

3.3. SUMMARY OF THE PROPOSED B2B CHANGES

Following is a summary of proposed changes to the B2B Procedures:

-) B2B Procedure – Customer and Site Details process has been updated to incorporate an interim process to exchange life support information. The communication method will be via email.
-) All other procedures have been updated with a version control update only.

4. RECOMMENDATIONS

The IEC approves the initial Procedures and requests AEMO to commence formal consultation on the initial Procedures and supporting documentation listed in section 3.1.



AUTHOR NAME:	JACKIE KRIZMANIC
APPROVED FOR SUBMISSION BY:	
APPROVED:	

ATTACHMENTS (INCLUDED)
1. SERVICE ORDER PROCESS 3.2 – INITIAL DRAFT
2. CUSTOMER SITE DETAILS NOTIFICATION 3.2 – INITIAL DRAFT
3. ONE WAY NOTIFICATION 3.2 – INITIAL DRAFT
4. METER DATA PROCESS 3.2 – INITIAL DRAFT
5. TECHNICAL DELIVERY SPECIFICATION DISCUSSION PAPER 3.2 – INTIAL DRAFT

POC Post Go-Live Heightened Support

From **Monday, 4 December 2017 till Friday, 30th March 2018** inclusive.

Includes the use of existing AEMO support hub services.

Additional AEMO support includes;

- Ongoing AEMO POC project SME support (Incl. technical transaction monitoring and facilitating resolution of system issues or defects experienced by either Participants or AEMO).
- Daily Stand-Up were held each morning between **Monday 4 December 2017 and Friday 15 December 2017.**

B2B Incidents

- Market incident on 4 December 2017
 - An issue was identified with the B2B Batch Handler where the processing of acknowledgment files delivered to Participant outboxes weren't being archived causing participants to get stop files.
 - AEMO announced B2B contingency at 12:30 AEST on Monday 4 December.
 - At 17:55 AEST AEMO advised contingency arrangements for B2B transactions had ended and B2B Batch Handlers back to full operation.
 - No Data was lost during this incident.
- Market incident on 11 December 2017
 - An issue was identified with the e-Hub where the processing of acknowledgment files delivered to Participant outboxes was slow causing participants to get stop files. (unrelated to 4 Dec incident)
 - AEMO was able to isolate the slow processing problem that was causing message acknowledgements to build up.
 - No Data was lost during this incident.

B2B Incidents Cont.

- At least one major retailer went into voluntary B2B contingency between 4 December 2017 and 15 December 2017 due to system problems.
- Some Participant systems were slow in processing B2B transactions or not sending B2B transaction acknowledgements.
- Some Participants were/are unable to handle Notified Party transactions as they elected to not deliver this functionality for go-live.
- No B2B incidents were aired by Participants during Post Go-live daily stand-up meetings between 4 December 2017 and 15 December 2017.

NMI Standing Data Review

Item 7.0.

15 MARCH 2018

1. Purpose

To provide an overview of AEMO's approach to the review of the National Metering Identifier (NMI) Standing Data requirements in the Market System and Transfer Solution (MSATS).

2. Background

There is an increasing need in the National Electricity Market (NEM) for access to standing data. In the market framework pre-Metering Competition, the distributor and responsible person (RP) are the same party, and so the distributor/RP had direct access to all standing data required for metering installation planning. The commencement of the Metering Competition Rule change has removed this central role of the distributor, and established the role of Metering Coordinator (MC). The MC role replaces the RP role, and is a contestable. The MC is an independent organisation, ring-fenced where necessary, and needs to obtain, or be confident that their appointed Metering Provider can obtain, information which enables them to plan the installation or maintenance of metering installations. With the enhanced competitive framework, an increased number of participants have roles at the connection point and this may expand as the market develops over time. It is reasonable to consider that these new or additional participants will also require access to standing data in a format that is easy to interpret and is consistent NEM-wide.

With more equipment being installed at or behind the connection point (e.g. batteries, solar panels, other distributed generation), the scope of what we understand as standing data today, is likely to expand. The current presentation of standing data is already complex and with this likely expansion in content and interested parties, it is reasonable to conclude that standing data will require standardisation and simplification for it to be successfully exploited in the future.

At the Information Exchange Committee (IEC) meeting 20 February 2017, a proposal to include a transaction (pre-installation data request and response) to allow a Metering Coordinator (MC) to obtain comprehensive information about a site before their visit was discussed. The IEC noted that MSATS has a framework (standing data) for the population of the relevant standing data, and if the data is available, then it should be provided via the MSATS framework through populating the optional data fields.

A Standing Data review would provide an opportunity for NMI Standing Data to be standardised and simplified in order that all new and replacement metering installations have a full set of critical standing data to support service delivery as introduced by the Power of Choice Rule changes, to account for the potential of new market roles accessing this data in the future and be flexible in order that every new technology or connection type adopted in the NEM does not require industry-wide system re-design..

2.1 Connection point data

There are two principle types of data for each connection point that are used in the Electricity Market by all market participants, including retailers for customer transfers and billing, distributors for the management of the distribution network, and AEMO for energy settlements¹:

-) NMI Standing Data – which comprises the attributes of the connection point, including the connection point address, NMI, network tariff, metering equipment identifiers and appointed market roles
-) Metering Data – record of the flows of energy through the metering installation at a connection point, typically produced as 48 half hourly intervals of measurement across a 24-hour period, or a single accumulation reading measuring energy flows over a fixed period of approximately 3 calendar months

Metering data ebbs and flows relative to the load and generation at a connection point and in that sense could be considered as 'live' data. On the other hand, NMI standing data is only created, amended and removed as a result of a specific planned action, such as the appointment of a new energy retailer, the installation of a new metering device, and change to the connection point address (say as the result of a building site 'Lot number' changing to a street address following a new connection).

NMI Standing Data has various basic uses as a stand-alone data set (e.g. enabling retailers to identify a customer's NMI to commence the retailer transfer process), however Metering Data is for the most part, irrelevant until it can be associated and interpreted based on the NMI Standing Data to which it pertains. Therefore, it is critical to consider the development of both Metering Data and NMI Standing Data when examining options for the further enhancement of the use, the format, storage and access to connection point data.

3. Current Arrangements

At the commencement of the Full Retail Contestability (FRC) market, the National Electricity Rules (NER) provided the Standing Data Requirements in relation to connection points. This standing data identified the NMI, address, meter classification and characteristics, loss factors, constants, operational details such as meter reading dates. The NER also provides for other standing data as specified in the MSATS procedures.

This NMI Standing Data:

-) Allows authorised NEM participants to access, maintain and exchange data in a standard form with different access to information in accordance with their role²
-) Does not include any customer specific information for the site, although it does include the physical address.
-) Has Retail Market Procedures that require the data to be maintained as sites are created, demolished or modified
-) Is used by Retailers, Distributors, Meter Data providers, Ombudsman, Clean Energy Regulator, AER and AEMO
-) Is held by AEMO in the Market Settlement and Transfer Solutions (MSATS) system.

The current NER definition of NMI Standing Data is provided in Schedule A for reference. This definition provides a minimum prescribed set, and allows for "*such other categories of data as may be referred to in the Market Settlement and Transfer Solution Procedures as forming NMI Standing Data*"

¹ A third type of data, Customer data, is also used to facilitate processes including retailer billing. Customer data is not held in AEMO systems, is not relevant in the context of this paper.

² This access is prescribed in clause 7.15.5 of the NER

The extended standing data requirements, as provided for in the NMI Standing Data Schedule part of the MSATS Procedures, was a much broader and complete set of standing data options. Distributors reported that the extended standing data was difficult for Distributors to capture and that no information of that nature had been consistently captured historically. Consequently, many of the expanded standing data items, were classified as optional, and have therefore never been populated or updated in any standard or reliable way.

4. Changing market dynamic

As highlighted previously, the exclusivity of appointment of RP for small customers has evolved into the MC model, and has resulted in significant changes in the business processes and standing data requirements for competitive metering provision.

The newly updated market arrangements also facilitate the collection of standing data. With all the sites being contestable type 4s, and not being under the distributor RP, the Rules require that metering sites are visited regularly for testing and inspection and so the opportunity to collect more standing data is also increased.

At the same time, reforms like the move to 5-minute settlement, and AEMO's recent proposal to the AEMC for a change in settlement framework, will result in increased availability of rich data sources through rollout of advanced metering, through both VIC AMI and commencement of competition in metering.

With the enhanced competitive framework, a greater number of participants will have roles at the connection point, and so additional parties will require access to the standing data.

5. Other developments to be considered

The evolving requirements for NMI Standing Data are predominantly influenced by the Metering Competition / Power of Choice reforms, the upcoming Distributed Energy Resource Rule Change, and other initiatives or reforms which are likely to develop over time.

5.1 Distributed Energy Resources (DER) Register

Standing and real-time data for solar PV is currently utilised in AEMO's internal modelling and planning processes for application in central dispatch, short-term and medium-term planning, long-term planning and power system security monitoring and contingency planning. This standing data includes the location, capacity, and technical characteristics of the systems, in particular the inverters interfaced to the network. Delivering visibility of these DER requires a nationally consistent data set which is only delivered via the NER.

The capacity and operational capabilities of these battery storage and other DER systems needs to be considered by AEMO in relation to its impact on the NEM. Visibility of DER via a register is essential for forecasting, operations, network planning, distribution system operator. To this end, the COAG Energy Council have prepared a Rule change request to establish the requirements for a DER Register in the NER, and have submitted it to the AEMC. The AEMC released the consultation paper on 6 March 2018. The establishment of a DER register was also recommended by the Finkel review.

The key points of the draft Rule change proposal are:

-)] NER obligation on AEMO to host register
-)] NER obligation on DNSPs to collect DER data from installers via their existing connection processes.
-)] NER to establish principles defining DER and scope of register.

- J NER assigns AEMO role to manage a procedure that specifies the types of DER and DER data to be collected.
- J Model delivers nationally consistent DER data and collection framework and easy, nationally consistent adaptation of data guideline to changing technologies.
- J Finkel recommended operational by mid-2018. AEMC Rule change process (6 months) followed by system build (at best 6 months) means end 2018 more realistic.

At the same time, COAG has recommended an interim process to collect data be implemented and requested officials work with ENA, networks, CER and AEMO to progress. This is being progressed in the form of the Energy Queensland (EQ) Interim Register.

- J Energy Queensland has requested AEMO work with them to create a 'Qld' register prior to start of national framework (work will transition into national register).
- J Interim data collection will:
 - o Alleviate pressure to meet Dec 2018 start date, which will only be 6-9 months from date Rule change is finalised
 - o Allow early provision of data to AEMO and aggregated data to external stakeholders
 - o Provide learnings to assist in development of national register

6. Approach

AEMO intends to perform a review of the current NMI Standing Data in the context of the recent changes in the NEM and other activities highlighted in this paper.

Standing data has evolved little from market start, where legacy identifiers were accepted, and legacy data gaps were left unresolved for new connections and changes at a connection point. Improving the data standards and sources for this data is the first critical step in developing an improved standing data source/

The review will need to consider:

- J If existing standing data fields are required, and fit for purpose.
- J The classification of each data field (i.e. mandatory, optional or required) – including the need to maintain the 'optional' and 'required' categories.
- J Additional standing data fields to meet needs outlined in this paper, e.g. advanced meter services available, location, type and capacity of DER, ability of meters to support 5 min settlement.
- J The balance between simplicity, useability and completeness.
- J International experience, where relevant.
- J Existing and potential new interested parties
- J Access rights as determined by National Electricity Law and the NER

A preferable approach is to start from a blank sheet, and establish the NMI standing data required for the market as evolved, and considered new initiatives. This approach will mitigate the risk of perpetuating the data fields previously considered and ultimately not used, and will force a more rigorous requirements analysis.

Preliminary design work will be performed by AEMO prior to commencement of consultation with industry.

7. Indicative Timeline

This review will run in parallel with the entire suite of initiatives discussed in this paper, as they all influence the standing requirements being reviewed.

It is envisaged that the review will commence during 2018 once the AEMC have published the Draft Determination on the DER Rule change.



INFORMATION EXCHANGE COMMITTEE MEETING

FOR NOTING

SUBJECT: IEC FORWARD PLAN

AGENDA ITEM: 11

1. PURPOSE

This paper presents the IEC forward plan (as at 15 March 2018).

2. IEC FORWARD PLAN

Proposed Meeting Details	Proposed content, decisions or outcomes.
IEC Meeting 9 15 March 2018 AEMO Offices & Teleconference	<ul style="list-style-type: none">J Post Power of Choice Implementation Briefing & Learnings (discussion)J Priorities for 2018 – Strategy Session (discussion)J B2B framework - Package two (discussion)J Standing Data Review – Scope and Approach (discussion)
IEC Meeting 10 9 May 2018 AEMO Offices & Teleconference	<ul style="list-style-type: none">J Update on B2B procedure program (for discussion)J Update on retail market change developments (for discussion)
IEC Meeting 11 6 August 2018 AEMO Offices & Teleconference	<ul style="list-style-type: none">J Update on B2B procedure program (for discussion)J Update on retail market change developments (for discussion)
IEC Meeting 12 30 November 2018 AEMO Offices & Teleconference	<ul style="list-style-type: none">J Update on B2B procedure program (for discussion)J Update on retail market change developments (for discussion)J IEC annual report (for decision)J IEC draft budget 2019/20 (for decision)

3. RECOMMENDATIONS

The IEC note the forward plan.

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ROLE & PRIORITIES FOR IEC

March 2018

Purpose

- To discuss the role of the IEC
- To discuss and agree the IEC priorities and focus.





The Context



IEC role – what do the rules say?

The rules outline the following IEC functions:

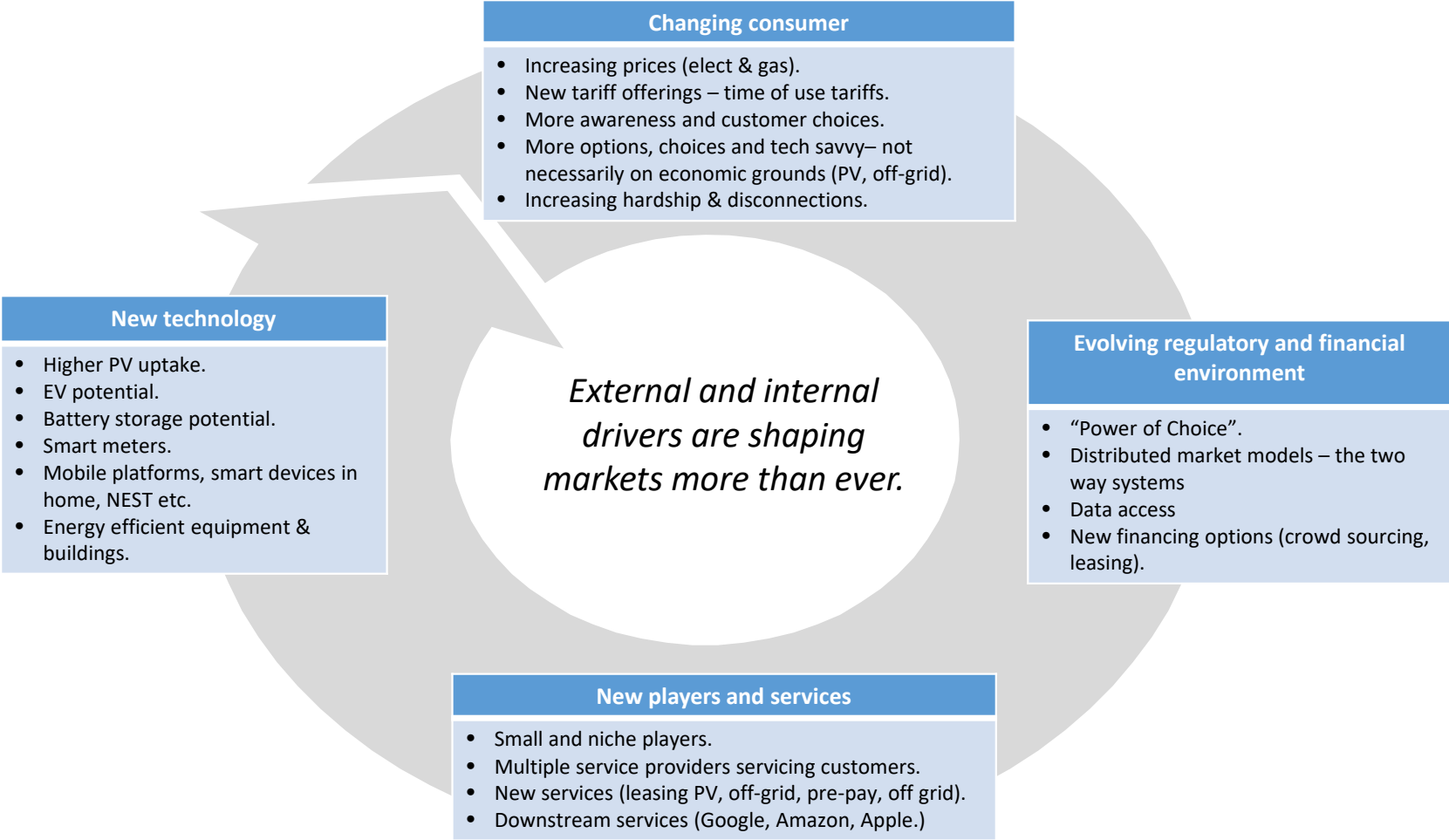
- Develop, consult on and make an IEC recommendation to AEMO on amendments to the B2B Procedures.
- Manage the ongoing development of the B2B Procedures.
- Establish IEC working groups.
- Review and consider the work completed by the IEC working groups.
- Develop, consult on and approve the IEC Work Programme (a program that outlines the development, implementation and operation of the B2B Procedures and other matters incidental to effective and efficient B2B communication).
- Develop amendments to the IEC Election Procedures and Operating Manual.
- By 31 December 2016 each year, prepare an IEC annual report and provide this to AEMO, by 31 March each year, for publication.
- By 28 February each year, the IEC must prepare a draft budget for the following financial year in a form consistent with the budget procedures of AEMO. By 31 March, the IEC is to discuss and provide the budget to AEMO. As part of its budget process, AEMO must advise the IEC of the final budget.



B2B – what was deliver for Day 1?

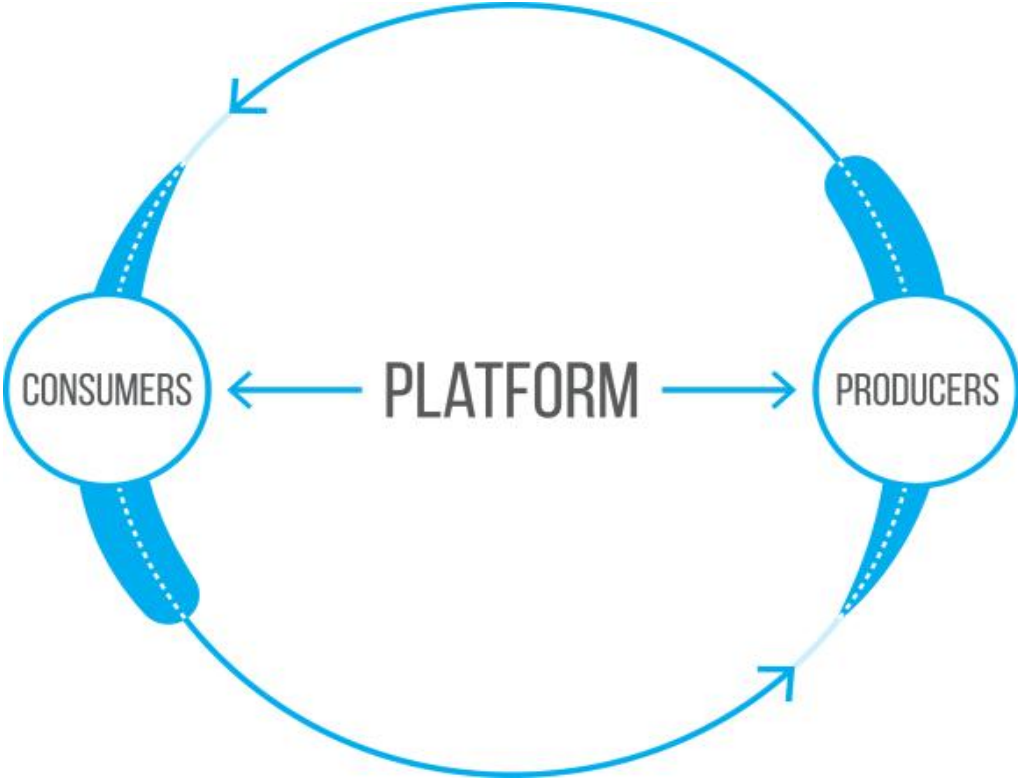
- Service Orders
 - Meter installations and changes
 - Energisation, Re-en and De-en.
 - Special Reads, Miscellaneous
- Requests and Notifications
 - Customer and site details
 - Pre-installation data
 - Interruptions, Meter faults and Network tariff changes
 - Notified party communications
- Meter Data
 - Provide & Verify
 - Minimum Services specification transaction
 - Scheduled Meter Reads
 - NMI inquiry
- Web interface & Peer to Peer platform
- As Built Consultation Jul-Dec 2017
 - Tidy Up and Fix Errors

The changing environment



Shared market protocol: *value proposition?*

Promote competition in the market for services by reducing barriers to entry & cost of doing business while not inhibiting innovative methods for communication.



- Flexible
- scalable
- Efficient



Shared market protocol: *value proposition?*

Platform of choice:

- From mailbox to transaction market place?
- An agreed standard for, and agreed method of, communications between parties accessing the services available through advanced metering infrastructure.
- Third party access
- Peer to peer functionality...realising its potential?
- What can it do to support distributed markets?



Priorities - as per Annual Report

- **Post go-live Power of Choice support:** there may be changes that may need to be accommodated or changed that result from go-live activities. The IEC will work with industry and AEMO to capture issues, assess their materiality and progress as appropriate. This will be a key focus for 2018 to ensure any unintended outcomes are resolved in a timely manner.
- **Beyond the Power of Choice reforms:** during the reform implementation, a number of Day 2 B2B framework enhancements were identified covering a short and medium term horizon. During 2018, the IEC will look to develop a B2B plan covering these items, taking into account the learnings from post go live activities.
- **Potential B2B changes:** there are two potential changes that have emerged during 2017. The first relate to rule changes around life support, which will require change to business processes supported by B2B arrangements. The delivery date for this change will be advised by the AEMC in its final rule determination. The second relates to customer access to data. This matter is currently being considered by the Commonwealth and Energy Consumers Australia. One option being considered is to utilise the B2B e-hub to facilitate the delivery of customer access to data.
- **Standing Data review:** An issue that emerged during the IEC's development of the B2B procedures during 2017 was whether it was time to review the standing data fields to ensure they remain fit for purpose in an environment with multi-party transactional processes. AEMO is currently developing a scope and will engage with the IEC and industry on this matter during 2018.
- **5 minutes settlement:** in November 2017, the AEMC released its final rule determination proposing to implement 5 minute settlements by mid-2021. From 2018, the IEC will work with AEMO and the wider industry to commence implementation of these reforms.
- **Procedure change process:** as noted above, AEMO expects to work with the IEC to streamline the procedure change process to facilitate timely delivery of change.



Other relevant activities

- DER register – AEMC commenced consultation on 6 March
- Cth Customer Access to data – current consultation paper out.
- Global settlements – AEMO has submitted a rule change to the AEMC.
- Address standards

Case study.... Solar installation

Refer to hand out





Discussion

Discussion: IEC role



What do you want to achieve for the industry to better service the consumer?

What role do you see the e-hub playing in the market?



Discussion: IEC priorities

What are the challenges facing the industry that prohibit better services to the consumer?

What can the IEC do?

What are the top three priorities for the industry? What can the IEC do to support this?