

## Electricity Distribution Code Review – Technical Standards

Draft decision briefing

16 Dec 2019 and 13 Jan 2020



## Welcome

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Energy Reform and Analysis





Time	Item
3:30 PM	Welcome and introductions
3:35 PM	Today's purpose and the Electricity Distribution Code
3:40 PM	Draft decision presentation
4:05 PM	Q & A
4:25 PM	Next steps
4:30 PM	Close



Provide an overview on our draft decision

Project status and next steps

Stakeholder Q & A on our draft decision

### Status of the code review

#### Technical standards stream

5





![](_page_5_Picture_1.jpeg)

### Electricity Distribution Code – Where it applies

![](_page_6_Picture_1.jpeg)

![](_page_7_Picture_0.jpeg)

## Speaker

Steve Oh

Senior Analyst

![](_page_7_Picture_4.jpeg)

### Voltage standard – Proposed changes

- Introduce flexible voltage standard (AS 61000.3.100) for the low voltage distribution system
- Maintain the existing customer protection framework with revised parameters. This continues the code's interaction with our Guideline 11 (Voltage variation compensation)
- Introduce new information reporting requirements for distributors to improve transparency and leverage smart meter technology

![](_page_9_Figure_0.jpeg)

### Voltage standard - Current

![](_page_10_Figure_1.jpeg)

### Voltage standard – Proposed change & customer protection

![](_page_11_Figure_1.jpeg)

experiencing different voltages levels

### Voltage standard – Current

![](_page_12_Figure_1.jpeg)

### Voltage standard – Proposed (Flexible)

![](_page_13_Figure_1.jpeg)

# Voltage standard – New reporting requirements

Table 6

Zone

substation

name

![](_page_14_Figure_1.jpeg)

### Other technical standards – Proposed updates

We propose updating legacy standards and referenced documents to reflect current standards or industry practices. Some of these are:

- Over voltage control (managing low voltage disturbances)
- Powerline signals (using the power line as a communication medium to transmit signals)
- Referencing latest safety regulations

### Other technical standards – Proposed harmonisation

We propose aligning some standards with the National Electricity Rules or other jurisdictional approaches, where appropriate. Some of these are:

- Power factor (the effective use of electricity)
- Negative sequence (the allowable level of system imbalance)
- National register of Distributed Energy Resources

### Technical standards not being amended

We propose not to change a small number of technical provisions. Some of these are:

- Supply frequency standards
- Load balance
- Impulse voltage

### Other general updates

We proposed a range of other general updates to reflect current legislation, regulations, referenced documents and definitions. Some of these are:

- Updating various AER definitions with current references
- Updating AEMO documents with current references
- Other small updates

![](_page_19_Picture_0.jpeg)

## **Technical standards stream**

![](_page_19_Figure_2.jpeg)

![](_page_20_Picture_0.jpeg)

## Questions / Activity

![](_page_20_Picture_2.jpeg)

### **Questions / Activity**

- 1. Spend 5 minutes to write down the questions you may have regarding the draft decision
- 2. Spend another 5 minutes to discuss with your table peers and <u>write down the top two questions</u> the table wish to pose for the draft decision Q & A

### Continue the conversation

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![](_page_23_Picture_0.jpeg)

## Thank you

![](_page_23_Picture_2.jpeg)