



## Response to AER Information Request - Addendum

AER IR 001

Capital Project Supporting Documentation

21 June 2017

Security Classification: CONFIDENTIAL



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## Company Information

ElectraNet Pty Ltd (ElectraNet) is the principal electricity transmission network service provider (TNSP) in South Australia.

For information about ElectraNet visit [www.electranet.com.au](http://www.electranet.com.au).

## Contact

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## 1. AER Information Request

The enclosed information is provided in response to follow up questions received from the AER on 22 May 2017 regarding the information request of 7 April 2017 in relation to capital project supporting documentation (AER IR 001) and responded to by ElectraNet on 19 April 2017. These follow up questions are as follows:

### General issues

It is unclear what value(s) for VCR has been used for different projects and why. The Houston Kemp report states that ElectraNet uses \$35,411/MWh (aggregate VCR including direct connects) for each economic assessment (p.17). Most IRT memos refer to VCR of \$38,090/MWh. A VCR of \$34,060/MWh (aggregate VCR excluding direct connects) is also used.

It is unclear how the various risks have been quantified to arrive at the 'LoC x CoC' figures in each of the economic models. These figures are hard coded into the models. Can ElectraNet provide some explanatory examples of how these figures have been derived, showing the various categories of consequence and the actual CoC and LoC values applied?

[REDACTED]

### Project Specific Issues

#### **EC.12115 Telecommunications Unit Asset replacement**

*Ref: Economic model - Detailed Costs Assessment R&B sheet*

*Issue - Number and cost of reactive replacements:*

- What is the basis for the 75% loading for reactive replacements over planned replacements? (cell B9)
- To what extent are the additional costs of a reactive replacement accounted for through the 'emergency response to failure' costs in cell B6?
- Why is the forecast number of asset failures rounded up in row 30? This appears to overstate the likely number of failures in each year.

#### **EC.12330 One IP substation network**

*Ref: Economic model - Detailed Cost Expenditure sheet*

*Issue - Cost of reactive replacements:*

- What is the basis for the 75% loading for reactive replacements over planned replacements? (cell C8)
- To what extent are the additional costs of a reactive replacement accounted for through the first and second call response costs in cells G5 and G6?

### ***EC.14034 Isolator Unit Asset Replacement***

IRT memo (p.2) states cost of replacing a damaged isolator is [REDACTED] (emergency repair). However, the Detailed OPEX assessment sheet (cell AD7) of the economic model uses an emergency replacement unit cost of [REDACTED]. If the [REDACTED] unit cost from the IRT is applied, the preferred option changes to option 2 (deferred replacement). Why does the unit cost differ between the IRT and economic model?

### ***EC.14071 Robertstown CB Arrangement Upgrade***

*Ref: Economic model - IO Inputs sheet*

The capital cost of option 1 is more than twice that of option 2 (cells D27 and D28), yet both options provide the same primary benefits in terms of reducing generation/interconnector constraints during maintenance activities. Option selection is therefore reliant on the secondary benefits of 'deferred expenditure' related to addressing an existing environmental/drainage issue (row 157) and the 'associated value' of relocating the circuit breaker (row 167).

- What is the nature of these secondary benefits and how they have been quantified?
- The base case appears to include the benefit of relocating the CB in error (cell F166).

### ***EC.14085 Gawler East Connection Point***

- The scope of work is subject to a RIT-D process to be conducted by SA Power Networks. Two of the three options considered do not in fact involve any scope of work for ElectraNet.
- AEMO considers ElectraNet's proposal is reasonable on the basis that ElectraNet and SA Power Networks have advised that a preliminary RIT-D analysis identified the preferred option involving ElectraNet (AEMO Independent Planning Review, p. 27). However, AEMO also stated that forecast demand growth in Gawler East is uncertain, and consideration should be given to non-network options to defer development of the connection point. AEMO state that the most economical solution should be confirmed through the RIT-D analysis, and that the cost impact on ElectraNet is therefore uncertain.
- The RIT-D process has not yet commenced. What is the timing of SA Power Networks' RIT-D process? What is the likelihood that an SA Power Networks only option will be identified once the full options analysis has been completed? Is it reasonable for ElectraNet to pre-empt the outcome of a RIT-D process in this way?

### ***EC.14105 Brinkworth-Waterloo Bearer Replacement***

*Ref: Economic model - Detailed Opex Assessment sheet*

*Issue - Cost of reactive replacements:*

- What is the basis for the 100% loading for reactive replacements over planned replacements (cell C7)?

- To what extent are the additional costs of a reactive replacement accounted for through the 'first call response' and 'emergency temp repair' costs in cells C4 and C5?
- Why is the reactive replacement loading 100%, rather than 75% as used in EC.12115 and EC.12330?

*Ref: Economic model - R0 CBA Results sheet*

- Option 1 is not preferred for all scenarios.
- The weighted NPVs are not high (i.e. no option is significantly better than the do nothing option), and are very similar for options 1 and 2. Reducing the reactive uplift to 75% in line with other business cases further reduces the NPV of all options (Option 3 becomes negative NPV).

#### ***EC.14209 Substation Improvements for System Black Conditions***

- Why was a risk analysis (IRT memo) not completed for this project, which is justified by a reduction in risk cost?

- [REDACTED]

#### ***EC.14145 and EC14137 Eyre Peninsula Line Conductor and Earth Wire Refurbishment***

- Why is there a [REDACTED] loss of supply associated with an 'unplanned' conductor/earth wire outage (as opposed to a line drop)? Given the line remains in service until the rectification work occurs, can the [REDACTED] start-up period occur prior to the line being taken out of service?
- The IRT memo refers to a VCR of \$38,090, however sheet X1 Input Assessments of the economic model refers to a VCR of \$34,060 and sheet I0 Inputs cell C126 has a VCR of \$35,441. The amount of unserved energy (MW) in the X1 Input Assessments sheet also does not appear to align with the IRT memo.

#### ***EC.14081 Line Insulator Systems: EC14146 Cherry Gardens – Happy Valley (example)***

- [REDACTED]
- [REDACTED]
- [REDACTED]

#### ***Other project specific issues (AEMO independent planning review)***

##### ***Leigh Creek South – \$2.9m***

AEMO Report: Demand at Leigh Creek South is uncertain. Consideration should be given to deferring the transformer replacement if condition permits, and replacing with smaller capacity transformers or non-network options to mitigate stranded asset risk.

- What is the condition of the transformers at Leigh Creek South?
- Has ElectraNet considered deferring the transformer replacement, or replacing with a smaller transformer?

***Mannum – \$2.7m***

AEMO Report: ElectraNet has proposed 2x25MVA transformers as this is the standard size >15MVA. ElectraNet considers 15MVA transformers would not accommodate any future demand growth or need for load transfers within the distribution network. AEMO considers that replacing existing transformers with two 15MVA transformers should be investigated in detail prior to committing to a network investment. No load growth is forecast.

- Can ElectraNet confirm it has investigated the option of 15MVA transformers?

***Blyth West and Para Reactors – combined \$8.8m***

AEMO Report: Suggests that the Blyth West, Templers West and Para reactor projects are interrelated, and if combined would exceed the RIT-T threshold. The AER might consider it appropriate for these projects to be combined. It appears that ElectraNet is no longer proposing the Templers West reactor project, so total cost is \$8.8m.

- Does ElectraNet consider these reactor projects to be interrelated?
- Is there any potential value in assessing the costs and benefits of these projects together?

## 2. Response

### 2.1 General Issues

ElectraNet's responses to the general economic assessment queries related to VCR and fire start risk were prepared and presented to the AER as part of a workshop held on 8 June 2017. The presentation is also provided with this response and memo.

A worked example as to how ElectraNet has quantified identified risks to arrive at the 'LoC x CoC' figures in each of the economic models was presented to the AER as part of the workshop held on 8 June 2017. The worked project example is also provided with this response.

### 2.2 Project Specific Issues

ElectraNet's responses to project specific issues was prepared and presented as part of the workshop held with the AER on 8 June 2017. The presentation is provided with this response and addresses all queries identified by the AER for the specified projects:

- EC.12115 Telecommunications Unit Asset replacement;
- EC.12330 One IP substation network;
- EC.14034 Isolator Unit Asset Replacement;
- EC.14071 Robertstown CB Arrangement Upgrade;
- EC.14085 Gawler East Connection Point;
- EC.14105 Brinkworth-Waterloo Bearer Replacement;
- EC.14209 Substation Improvements for System Black Conditions;
- EC.14145 and EC14137 Eyre Peninsula Line Conductor and Earth Wire Refurbishment; and
- EC.14081 Line Insulator Systems: EC14146 Cherry Gardens – Happy Valley.

### 2.3 Other Specific Issues (AEMO Independent Planning Review)

ElectraNet's responses to other specific issues identified by the AER was prepared and presented as part of the workshop held with the AER on 8 June 2017. The presentation is provided with this response and addresses the queries identified for the following projects:

- Leigh Creek South – \$2.9m
- Mannum – \$2.7m
- Blyth West and Para Reactors – combined \$8.8m

## 2.4 Supporting Documentation

In responding to the follow up queries identified by the AER, ElectraNet identified a number of refinements to the detailed economic assessments submitted to the AER as part of ElectraNet's initial response to IR001.

A full list of documents submitted with this response, including both supporting documents and updated material together with a description of the key update/s applied is provided in table 3-1 in Appendix A – Enclosed Material.

A summary of the confidentiality status of this material is as follows:

Documentation	Non-confidential	Confidential
NPV Assessments	NPV Summary Sheets	Full NPV Models
Risk Assessment Memo	-	Full Version
Risk Assessment Flow Chart	-	Full Version
AER Presentation	Redacted Version	Full version



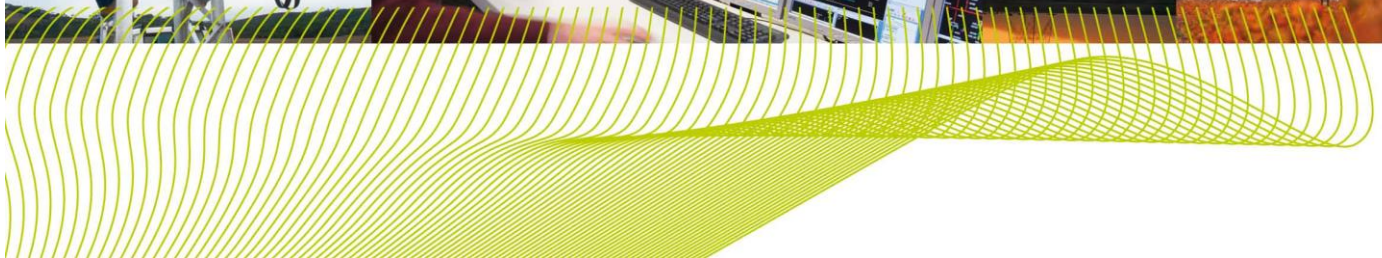
# Response to AER Information Request - Addendum - Addendum

## Appendices

Capital Project Supporting Documentation

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## Appendix A Enclosed Material

### A1 Listing of files attached

The following provides a list of all documents submitted with this response, including supporting documents and updated material.

**Table 2-1: List of Enclosed Documentation**

Supporting Document		
ElectraNet_IR001_Presentation on Economic Assessment_20170621_Confidential		
ElectraNet_IR001_Presentation on Economic Assessment_20170621_Public		
ElectraNet_IR001_EC14145 Conductor Drop Example Flowchart_20170621_Confidential		
ElectraNet_IR001_EC.14145 14137 Eyre IRT Memo Confidential		

Updated Files Submitted with IR001 – 19 April 2017	Updated File – 21 June 2017	Update/s Applied
<b>IRT Memos</b>	<b>IRT Memos</b>	
ElectraNet-IR001-EC.14145 EC.14137 IRT Memo-20170412-Confidential.pdf	ElectraNet-IR001-EC.14145 EC.14137 IRT Memo-20170614-v2-Confidential.pdf	
<b>Economic Models</b>	<b>Economic Models</b>	
ElectraNet-IR001- EC.12115 UAR Economic Model-20170413-Confidential.xlsx	ElectraNet-IR001- EC.12115 UAR Economic Model-20170614-v2-Confidential.xlsx	Removal of first call out and emergency call out costs. Updated asset failure rates.
ElectraNet-IR001- EC.12115 UAR Economic Model-20170413-Public.pdf	ElectraNet-IR001- EC.12115 UAR Economic Model-20170614-v2-Public.pdf	Removal of first call out and emergency call out costs. Updated asset failure rates.
ElectraNet-IR001- 12330 One IP Substation Network Economic Model-20170413-Confidential.xlsx	ElectraNet-IR001- 12330 One IP Substation Network Economic Model-20170614-v2-Confidential.xlsx	Updated VCR and removed first call out and emergency call out costs. Applied a 75% reactive replacement uplift.
ElectraNet-IR001- 12330 One IP Substation Network Economic Model-20170413-Public.pdf	ElectraNet-IR001- 12330 One IP Substation Network Economic Model-20170614-v2-Public.pdf	Updated VCR and removed first call out and emergency call out costs. Applied a 75% reactive replacement uplift.
ElectraNet-IR001- EC.14031 UAR Economic Model-20170412-Confidential.xlsx	ElectraNet-IR001- EC.14031 UAR Economic Model-20170614-v2-Confidential.xlsx	Updated VCR

Updated Files Submitted with IR001 – 19 April 2017	Updated File – 21 June 2017	Update/s Applied
ElectraNet-IR001- EC.14031 UAR Economic Model-20170412-Public.pdf	ElectraNet-IR001- EC.14031 UAR Economic Model-20170614-v2-Public.pdf	Updated VCR
ElectraNet-IR001- EC.14034 UAR Economic Model-20170412-Confidential.xlsx	ElectraNet-IR001- EC.14034 UAR Economic Model-20170614-v2-Confidential.xlsx	Updated VCR and damaged isolator emergency repair cost.
ElectraNet-IR001- EC.14034 UAR Economic Model-20170412-Public.pdf	ElectraNet-IR001- EC.14034 UAR Economic Model-20170614-v2-Public.pdf	Updated VCR and damaged isolator emergency repair cost.
ElectraNet-IR001- EC.14047 UAR Economic Model-20170412-Confidential.xlsx	ElectraNet-IR001- EC.14047 UAR Economic Model-20170614-v2-Confidential.xlsx	Updated VCR
ElectraNet-IR001- EC.14047 UAR Economic Model-20170412-Public.pdf	ElectraNet-IR001- EC.14047 UAR Economic Model-20170614-v2-Public.pdf	Updated VCR
ElectraNet-IR001- EC.14071 Circuit Breaker Economic Model-20170413-Confidential.xlsx	ElectraNet-IR001- EC.14071 Circuit Breaker Economic Model-20170614-v2-Confidential.xlsx	Adjusted base case and changed asset life
ElectraNet-IR001- EC.14071 Circuit Breaker Economic Model-20170413-Public.pdf	ElectraNet-IR001- EC.14071 Circuit Breaker Economic Model-20170614-v2-Public.pdf	Adjusted base case and changed asset life
ElectraNet-IR001- EC.14076 Line Support Economic Model-20170412-Confidential.xlsx	ElectraNet-IR001- EC.14076 Line Support Economic Model-20170614-v2-Confidential.xlsx	Updated VCR
ElectraNet-IR001- EC.14076 Line Support Economic Model-20170412-Public.pdf	ElectraNet-IR001- EC.14076 Line Support Economic Model-20170614-Public.pdf	Updated VCR
ElectraNet-IR001- EC.14081 Insulator EC.14146 Economic Model-20170412-Confidential.xlsx	ElectraNet-IR001- EC.14081 Insulator EC.14146 Economic Model-20170614-v2-Confidential.xlsx	Updated VCR
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ElectraNet-IR001- EC.14081 Insulator EC.14151 Economic Model-20170412-Confidential.xlsx	ElectraNet-IR001- EC.14081 Insulator EC.14151 Economic Model-20170614-v2-Confidential.xlsx	Updated VCR

Updated Files Submitted with IR001 – 19 April 2017	Updated File – 21 June 2017	Update/s Applied
ElectraNet-IR001- EC.14081 Insulator EC.14151 Economic Model-20170412-Public.pdf	ElectraNet-IR001- EC.14081 Insulator EC.14151 Economic Model-20170614-v2-Public.pdf	Updated VCR
ElectraNet-IR001- EC.14081 Insulator EC.14152 Economic Model-20170412-Confidential.xlsx	ElectraNet-IR001- EC.14081 Insulator EC.14152 Economic Model-20170614-v2-Confidential.xlsx	Updated VCR
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ElectraNet-IR001- EC.14105 Brinkworth Economic Model-20170412-Confidential.xlsx	ElectraNet-IR001- EC.14105 Brinkworth Economic Model-20170614-v2-Confidential.xlsx	Removal of first call out and emergency call out costs and added qualitative benefits.
ElectraNet-IR001- EC.14105 Brinkworth Economic Model-20170412-Public.pdf	ElectraNet-IR001- EC.14105 Brinkworth Economic Model-20170614-v2-Public.pdf	Removal of first call out and emergency call out costs and added qualitative benefits.
ElectraNet-IR001- EC.14145 EC.14137 Economic Model-20170412-Confidential.xlsx	ElectraNet-IR001- EC.14145 EC.14137 Economic Model-20170614-v2-Confidential.xlsx	VCR updated. Increased loss of supply for conductor drop to 30mins. Reduced outage to 0mins for forced rectification works. Updated load forecast.
ElectraNet-IR001- EC.14145 EC.14137 Economic Model-20170412-Public.pdf	ElectraNet-IR001- EC.14145 EC.14137 Economic Model-20170614-v2-Public.pdf	VCR updated. Increased loss of supply for conductor drop to 30mins. Reduced outage to 0mins for forced rectification works. Updated load forecast.
ElectraNet-IR001- EC.14209 Substation Improvements Economic Model-20170413-Confidential.xlsx	ElectraNet-IR001- EC.14209 Substation Improvements Economic Model-20170614-v2-Confidential.xlsx	Improved commentary in risk cost sheet, and VCR updated.
ElectraNet-IR001- EC.14209 Substation Improvements Economic Model-20170413-Public.pdf	ElectraNet-IR001- EC.14209 Substation Improvements Economic Model-20170614-v2-Public.pdf	Improved commentary in risk cost sheet, and VCR updated.