

# Project Energy Connect - L2 & L3 Budget Proposal

Submission Date - 02/02/2021

## Background

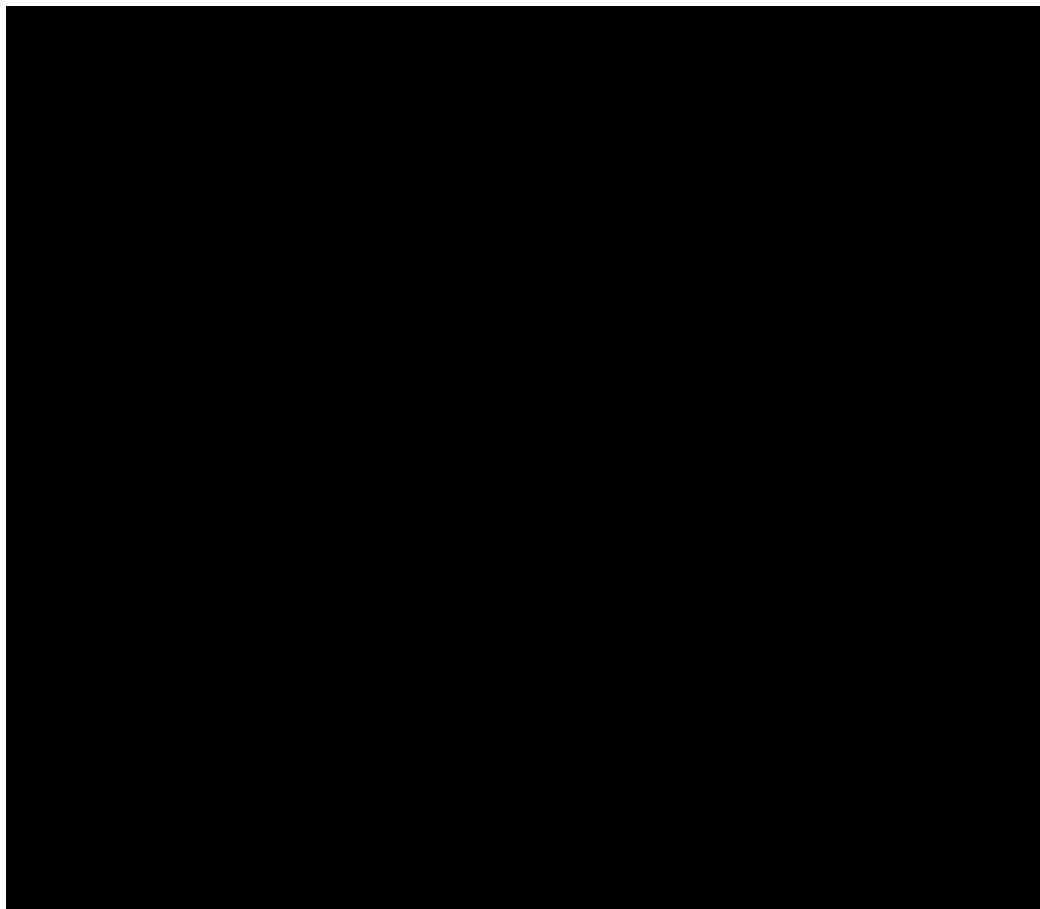
The following document describes the SecureEnergy non-binding budget proposal for a potential transmission line route realignment proposed by TransGrid for the L2 (Buronga to Dinawan Transmission Line) and L3 (Dinawan to Wagga Wagga Transmission Line), scope included in the Project Energy Connect, NSW. This document is complementary to the BAFO Proposal for Project Energy Connect submitted in September 2020.

This document also lists and explains the considerations and assumptions that have been considered when preparing the estimation for the design, supply, construction, installation and commissioning of the project.

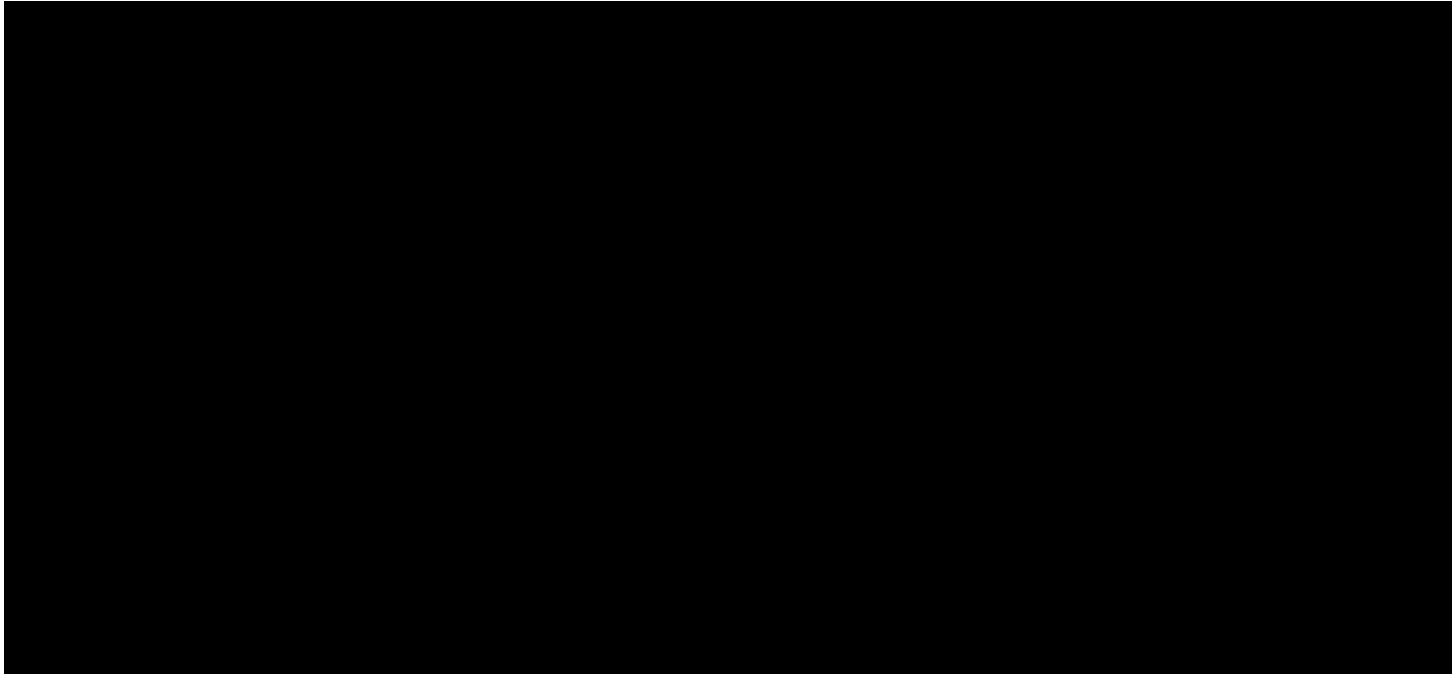
## Location

The project is in the same location as before, but some sections divert from the original route. In the following pictures it is shown the route modifications in detail:

- **Buronga to Dinawan Substations – L2:** The main change is the area near Argoon,



- **Dinawan to Wagga Wagga Substations – L3:** The change in the route affects to the transmission line from the Dinawan Substation to Lockhart.



*L3 Variation outline*

## Design

For the calculation of the new tower spotting, SecureEnergy have considered the same assumptions as the BAFO Offer submitted to TransGrid on September 2020. Besides, SecureEnergy have considered the .kmz and .asc documents received from TransGrid:

- LET-SE-LET-0003-L2 - 330kV Buronga-Dinawan - Centreline Rev 0.3.kmz
- LET-SE-LET-0003-L3 - 330kV Dinawan-Wagga - Centreline Rev 0.3.kmz
- LET-SE-LET-0003-PEC - L3 Elvis data.zip

In the following table it is shown the new quantities calculated by comparison with the quantities calculated in the BAFO Stage. These are the following:

	L2 - Buronga to Dinawan		L3 - Dinawan to Wagga Wagga	
	BAFO QTY	Variation*	BAFO QTY	Variation*
Heavy Angle Strain				
Light Angle Strain				
Light Suspension				
Medium Angle Strain				
Guyed Suspension				
<b>TOTAL TOWERS</b>				

\*Tower quantities are estimated based on the preliminary information provided by TransGrid. This estimation is subject to changes once all the information of the route were defined.

## Scope of Works

Scope of works considered for this project is:

- Geotechnical survey and engineering of the new sections of the Transmission lines
- Supply and installation of the transmission line towers. SecureEnergy has considered that the towers are TransGrid Standard, and the design is already done for previous projects, so tower testing is not necessary.
- Supply and stringing of the conductors, OPGW and earthwire
- Clipping in of all the accessories and hardware of the transmission line
- Testing and commissioning of the transmission line
- Construction Supervision including PM and SM, HSE supervision and quality control

## Assumptions and Exclusions

### Assumptions

- The budgetary price has been estimated adopting the preliminary information provided by TransGrid within its request for budget proposal dated 19 January 2021
- This budget proposal was based upon the assumptions and basis of our BAFO submission in September 2020 including but not limited to matters such as EIS approvals, heritage and geotechnical conditions.
- Due to time constraints SecureEnergy have been unable to fully analyse the access tracks or vegetation clearance requirements, therefore have extrapolated the existing data from the BAFO submission for the purposes of this budget price.
- No restrictions on the equipment or material supply within the country of origin, nor on the suppliers, have been considered.
- Temporary site facilities for SecureEnergy are included in the offer, we also note that the camps planned in support of construction will remain on the alignment therefore the requirement for an updated plan for land acquisition remains
- No additional taxes, fees, or professional contributions are included.
- Site access is based upon the current SAS timeframes contained within Schedule 12 of the EPC Deed.
- Commodity pricings has assumed the London Metal Exchange (LME) base rate considered at BAFO date.
- As the project will be part of the Project Energy Connect, the same suppliers and procurement prices have been considered

### Exclusions

- We have not analysed the potential impact on the works programme, therefore it has been assumed that the works could be undertaken in accordance with the current sequencing and there would be no impact on the Date for Practical Completion
- Rental or purchase of land, or payments/compensations/permits to impacted landowners.
- We have made no allowance for construction permits or any other permit necessary for construction purpose.
- No specific or mitigation measure has been considered in the present offer.
- Events of Force Majeure
- The removal and disposal of asbestos or asbestos products.
- Handling and treatment of all forms of contaminants on site, including soils.
- Rock or black soil not considered. Normal soils have been considered in the estimation

- Thermography inspection, interference electromagnetic test and electromagnetic and electric test have not been included
- It has not been considered working under tension in the transmission lines. Therefore, outages could be necessary

## Budget Pricing

As per TransGrid request, the following prices must be added to the BAFO price submitted in September 2020:

Based upon the information provided, we have assessed that the impact on overall length is as follows: -

- Line 2 - [REDACTED]
- Line 3 - [REDACTED]

The total line length from Dinawan to the point where the proposed deviation re-joins the original route at Lockhart is approximately 97.63KM.

Item	Scope	Estimated Value – L2 – 2.5KM	Estimated Value - L3 – 2.14KM
1	Project Management		[REDACTED]
2	Access and Clearing		
3	Foundations		
4	Tower Assembly and Erection		
5	Stringing		
6	TL Procurement and logistics		
	<b>TOTAL</b>	<b>\$3,644,982</b>	<b>\$2,492,686</b>

### Considerations:

- This is a non-binding estimate
- Price provided in Australian Dollars (AUD).
- The price must be added to the BAFO price submitted on September 2020
- Prices are exclusive of Australia's Goods and Services Tax (GST)
- Bonds, Insurance, Contingency and Profit have been included in the figures contained in the table above