

PROJECT EXPRESSION OF INTEREST	
Project Title.	Secure Energy – Project Energy Connect
Project Description.	<p>Secure Energy has partnered with TransGrid (electricity transmission operator in New South Wales (NSW) and ElectraNet (electricity distributor in South Australia (SA)) are currently investigating the proposed construction and operation of a new electrical interconnector and network support options between NSW and SA.</p> <p>The interconnector is aimed at reducing the cost of providing secure and reliable electricity transmission between NSW and SA in the near term, while facilitating the longer-term transition of the energy sector across the National Electricity Market (NEM) to low emission energy sources.</p> <p>The current preferred option involves constructing a high voltage electricity interconnector of approximately 900 kilometres between the power grids of SA (starting at Robertstown) and NSW (finishing in Wagga Wagga), known collectively as Project EnergyConnect.</p>
Opportunity Title.	<i>Access Points and Tracks for Transmission Lines L1, L2, L3 & L4</i>
Opportunity Description.	<p>Secure Energy wish to identify Suppliers that have the capacity to provide a range of installation capabilities for road access points and Access Tracks along the Transmission Line (L1, L2, L3 & L4)</p> <p><i>Subcontractors may express Interest for both the scope of works / activities (Access Tracks & Access Points) or choose to express interest for one of the activities / scope.</i></p> <p>Scope includes as mentioned below:</p> <ul style="list-style-type: none"> • Access Tracks to be constructed as mentioned in the Table 1 (description of work), Table 2 (Quantities) & Table 3 (Material quantities) below: <p><i>Access tracks shall be constructed with crowning or crossfall with table drains and mitre drains at appropriate intervals. Tracks formed on a slope shall have 150-200mm cross fall. Where a change in elevation takes place, cross banks shall be constructed on the tracks. Drainage control features shall be incorporated into the finished track including:</i></p> <ol style="list-style-type: none"> <i>i. Table drain;</i> <i>ii. Mitre drain;</i> <i>iii. Crossfall drain;</i> <i>iv. Cross bank; and /or</i> <i>v. Catch drain</i>

Table1: Type of Access Tracks

Type	Description of works	
1a	Existing Tracks	The tracks are well maintained and graded. Ready for construction traffic without any improvement works.
1b	Existing Tracks	The tracks are well maintained and graded. Ready for construction traffic without any improvement works bar the required stripping and stockpiling of topsoil.
2a	New Track	Only require clearing and grubbing to form a trafficable track. Occasionally need some matting in isolated spots to support traffic. Majority of section is trafficable after clear and grub. Measures are for clearing and grubbing only.
2b	New Track	Only require clearing and grubbing to form a trafficable track. Occasionally need some matting in isolated spots to support traffic. Majority of section is trafficable after clear and grub. Measures are for clearing and grubbing bar and stripping and stockpiling of topsoil
3b	New Track	(a) Require clearing and grubbing (b) Strip and stockpile topsoil (c) Excavate surface top 150mm (d) Lay 1 layer of geogrid on the excavated surface (e) Backfill the 150mm excavated material, level and compact
4b	New Track	Temporary unsealed pavement is required for this type. (a) Require clearing and grubbing (b) Strip and stockpile topsoil (c) Allow for box excavation of required width +1m (4 or 8m width pavement + 0.5m each side of verge) x 550mm deep

		<p>(d) Lay 300mm select fill material complying to RMS R44 UZF and compact</p> <p>(e) Lay 125mm DGS20 subbase material and compact</p> <p>(f) Lay 125mm DGB20 base material and compact</p> <p>(g) All compaction to be 100% SMDD.</p>
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Table 2: Quantities – Access Tracks

Type	Access Track Type	Width (m)	Length (m)
Area L1	1a	4	0
		8	0
		15	0
	1b	4	0
		8	0
		15	0
	2a	4	3,362
		8	81,279
		15	9,360
	2b	4	0
		8	10,342
		15	220
	3b	4	17,644
		8	5,784
		15	206
	4b	4	0
		8	0
		15	0

	Area L2	1a	4	0
			8	0
			15	0
		1b	4	0
			8	0
			15	0
		2a	4	773
			8	188,331
			15	14,888
		2b	4	640
			8	66,365
			15	4,380
	3b	4	987	
		8	128,947	
		15	2,768	
	4b	4	0	
		8	0	
		15	0	
	Area L3	1a	4	0
			8	0
			15	0
		1b	4	0
			8	0
			15	0
2a		4	2,389	
		8	4,269	

			15	1,381	
		2b	4	11,430	
			8	75,316	
			15	3,475	
		3b	4	1,609	
			8	50,376	
			15	1,036	
		4b	4	0	
			8	0	
			15	0	
	Area L4	1a	4	0	
			8	0	
			15	0	
			1b	4	0
			8	0	
			15	0	
			2a	4	0
			8	16,175	
			15	254	
			2b	4	0
			8	0	
			15	0	
			3b	4	0
			8	3,115	
			15	0	
			4	0	

	4b	8	0
		15	0
		4	0

Table 4: Access Track Materials

Description		Quantity	Unit
Area L1	Access track Type 3 - Excavate 150mm	17,990.7	m3
	Access track Type 3 - Lay Geogrid Tensar TriAx TX150 or equivalent	119,938	m3
	Access track Type 3 - Backfill and compact 150mm base material	17,990.7	m3
	Access track Type 4 - Box out 350mm	0	m3
	Access track Type 4 - Subgrade material to RMS R44 UZF (300mm)	0	m3
	Access track Type 4 - Subbase (125mm DGS20)	0	m3
	Access track Type 4 - Base (125mm DGB20)	0	m3
Area L2	Access track Type 3 - Excavate 150mm	161,556.6	m3
	Access track Type 3 - Lay Geogrid Tensar TriAx TX150 or equivalent	1,077,044	m3
	Access track Type 3 - Backfill and compact 150mm base material	161,556.6	m3
	Access track Type 4 - Box out 350mm	0	m3
	Access track Type 4 - Subgrade material to RMS R44 UZF (300mm)	0	m3
	Access track Type 4 - Subbase (125mm DGS20)	0	m3
	Access track Type 4 - Base (125mm DGB20)	0	m3
Area L3	Access track Type 3 - Excavate 150mm	63,747.6	m3
	Access track Type 3 - Lay Geogrid Tensar TriAx TX150 or equivalent	0	m3
	Access track Type 3 - Backfill and compact 150mm base material	0	m3

	Access track Type 4 - Box out 350mm	0	m3
	Access track Type 4 - Subgrade material to RMS R44 UZF (300mm)	0	m3
	Access track Type 4 - Subbase (125mm DGS20)	0	m3
	Access track Type 4 - Base (125mm DGB20)	0	m3
Area L4	Access track Type 3 - Excavate 150mm	3738	m3
	Access track Type 3 - Lay Geogrid Tensar TriAx TX150 or equivalent	24,920	m3
	Access track Type 3 - Backfill and compact 150mm base material	3,738	m3
	Access track Type 4 - Box out 350mm	0	m3
	Access track Type 4 - Subgrade material to RMS R44 UZF (300mm)	0	m3
	Access track Type 4 - Subbase (125mm DGS20)	0	m3
	Access track Type 4 - Base (125mm DGB20)	0	m3

- Access Points as mentioned in the Table 4 (description of work) & Table 5 (Quantities) as mentioned in the Table below:

Table 4: Temporary Access Point Types

Type	Description
1	Access off Major Road / Highway
2	Access of minor paved road
3	Access of gravel road
4	Access of gravel road with minimal temporary works required

Type 1 - Major Road

Type 1 access points are defined by coming directly off a high-speed major road or highway.

The Construction works required to develop an access point of this type include:

- Turnoff lane.
- Culverts.
- Grading down to easement and clear zones.
- CBR 45% Base course – Thickness depending on subgrade CBR. 150mm thick base material assuming subgrade CBR of 3%. Compact to 95% SMDD.
- CBR 60% Wearing course – Thickness depending on subgrade CBR. 100mm thick wearing course material compact to 95% SMDD.
- Sealed surface wearing course with 14mm seal.
- 8m wide gate/grid.
- Traffic safety and warning signage (3-off T-junction signs and 1-off Stop sign) measuring 600mm size c/w standard post and hold down peg.

Type 2 – Minor Paved Road

Type 2 access types shall be used in points where a paved road is deemed to be minor.

The Construction works required to develop an access point of this type include:

- CBR 45% Base course – Thickness depending on subgrade CBR. 140mm thick base material assuming subgrade CBR of 3%. Compact to 95% SMDD.
- Unsealed wearing course – 35mm thick CBR 60% wearing course material assuming base course material achieving CBR 45%. Compact to 95% SMDD.
- Grading down to easement and clear zones.
- 8m wide gate and grid.
- Temporary traffic safety and warning signage (3-off T-junction signs and 1-off Stop sign) measuring 600mm size c/w standard post and hold down peg, fencing and gate modifications.

Type 3 – Minor Gravel Road

Access point Type 3 shall be applied to points in which the road is constructed of gravel and has table drains.

The geometric design of this access point shall be the same as Type 2. The Construction works required to develop an access point of this type include:

- Unsealed wearing surface over existing sub grade
- 8m wide gate and grid

Type 4 – Minor Gravel Road Limited Work

Intersection Type 4 shall be applied to points where there is no table drain present along a gravel road or when there is limited access required to a tower.

The construction required for such an access point is minimal as there are no drains present, requiring only clearing provision for clear zones.

Table 5: Quantities – Access Points Breakdown

Type	Access Point Type	No. of Perpendicular Access Points (direct to Tower)	No. of Longitudinal Access Points (on to easement tracks)
Area L1	1	0	2
	2	0	2
	3	0	5
	4	76	8
	TOTAL	76	17
Area L2	1	5	6
	2	9	3
	3	22	7
	4	2	7
	TOTAL	38	23
Area L3	1	0	8
	2	1	19
	3	16	23
	4	4	1
	TOTAL	21	51
Area L4	1	0	2
	2	0	1

	3	0	0
	4	0	2
	TOTAL	76	5

- Planning and traffic control of works,
- Supply of materials and services including subcontractors where applicable for the works,
- Construction of gazetted road access points and alterations to facilitate permanent and temporary access to transmission line access tracks, and
- Removal of temporary access points where applicable upon completion of construction works and / or use of laydowns and camps.

Equipment used should all be fitted with GPS Tracking and Operator Fatigue Management systems where appropriate.

Equipment should be to Industry safety and maintenance standards.

Labour and Operators should possess all necessary VOC and National Certifications of safe plant operation.

Supplier Requirements.

- Secure Energy require Suppliers that:
- Have a demonstrated track record of providing services for a Tier One Contractors.
 - Have updated service logs for all plant and equipment.
 - Have the required government or industry certifications, licenses, associations and/or insurances to deliver the opportunity.
 - Have an exemplary safety record and a documented management system for tracking safety performance.
 - Are financially viable and can demonstrate commercial value.
 - Can demonstrate a strong commitment to training and retaining a local workforce.
 - Have an excellent track record in employing and progressing the careers of Indigenous people.
 - Are progressively finding ways to develop the careers of women, veterans and people with disabilities.
 - Treat the environmental they are working in with respect and consideration.

<p>Estimate Information</p>	<p>SecureEnergy encourages suppliers who can provide any pricing guidance in their submission. This may include:</p> <ul style="list-style-type: none"> • Supplier rate card and/or • Indicative cost estimate of this EOI scope. <p>The SecureEnergy supplier assessment process prefers suppliers with the ability to clearly identify where local knowledge can benefit the construction process.</p>
<p>Health and Safety</p>	<p>SecureEnergy encourages suppliers who can provide any evidence of Health and Safety (HSE) statistics and/or Lost Time to Injury (LTI) statistics.</p>
<p>Similar Experience</p>	<p>SecureEnergy encourages suppliers to provide case study examples of projects they have undertaken that are similar to the scope for SecureEnergy on Project EnergyConnect (PEC)</p>
<p>General Information.</p>	<p>Secure Energy will consider all ICN Registrations where:</p> <ul style="list-style-type: none"> • The business demonstrates through their response a clear capability against the key requirements. • The business completes a response to all Secure Energy questions and/or Secure Energy documentation. • The businesses ICN profile is up to date and complete. • The registration is complete prior to any closing date. • The business operates in Australia and is a registered Australian business. • The Business has an Indigenous staffing component in line with Federal Indigenous Procurement Policy and/or NSW State Aboriginal Procurement In Construction.
<p>Local Content</p>	<p>Secure Energy strongly encourages businesses who have head offices and/or dedicated premises with the appropriate Local Government approvals from the following regions:</p> <ul style="list-style-type: none"> - Edward River Council - Federation Council - Hay Shire Council - Lockhart Shire Council - Murray River Council - Narrandera Shire Council - Wagga Wagga City Council - Wentworth Shire Council

	<p>Furthermore, Secure Energy strongly encourages Aboriginal and Torres Strait Islander businesses to submit applications.</p>
<p>Notes</p>	<p>SecureEnergy will obtain ongoing reporting from ICN on a regular basis.</p> <p>SecureEnergy will review all registrations, noting that any incomplete registration will be excluded from consideration.</p> <p>SecureEnergy highly values businesses that can demonstrate performance in line with the Indigenous Participation Plan of 2.5% indigenous employment.</p> <p>Further involvement may range from a request for a follow up meeting; request to prequalify, through to request for tender.</p> <p>Submitting a registration of interest does not guarantee that the supplier will be selected for prequalification or tender opportunities.</p>