

Appendix D - TFO Cost Estimates

AESO Project Name & No.	Vauxhall Area Transmission Development Project Option 3		P7075 / D0801		
Prepared by:	Altalink Management Ltd.				
AACE Class:	5	Estimate Basis	NID		
High Range	30%	Low Range	-30%		
Date of Estimate:	31-Aug-21	Base Year	2024		
In Service Date	8-Mar-24	In Service Year	2024		
	SYSTEM	PARTICIPANT	TOTAL	ASSUMPTIONS	
TRANSMISSION LINE					
Material	\$ 678,121	\$ -	\$ -	\$ 678,121	
Labour	\$ 2,671,106	\$ -	\$ -	\$ 2,671,106	
Supply & Install	\$ -	\$ -	\$ -	\$ -	
TOTAL TRANSMISSION LINE	\$ 3,349,227	\$ -	\$ -	\$ 3,349,227	
SUBSTATION					
Material	\$ 11,061	\$ -	\$ -	\$ 11,061	
Labour	\$ 144,506	\$ -	\$ -	\$ 144,506	
Supply & Install	\$ -	\$ -	\$ -	\$ -	
TOTAL SUBSTATION	\$ 155,567	\$ -	\$ -	\$ 155,567	
TELECOMMUNICATION					
Material	\$ -	\$ -	\$ -	\$ -	
Labour	\$ -	\$ -	\$ -	\$ -	
Supply & Install	\$ -	\$ -	\$ -	\$ -	
TOTAL TELECOMMUNICATIONS	\$ -	\$ -	\$ -	\$ -	
OWNERS					
Pre-SP Cost	\$ 115,999	\$ -	\$ -	\$ 115,999	
Service Proposal	\$ 115,056	\$ -	\$ -	\$ 115,056	
Facility Applications	\$ 1,077,082	\$ -	\$ -	\$ 1,077,082	
Regulatory & Compliance	\$ -	\$ -	\$ -	\$ -	
Land Rights - Easements	\$ 2,661,576	\$ -	\$ -	\$ 2,661,576	
Land - Damage Claims	\$ 398,305	\$ -	\$ -	\$ 398,305	
Land - Acquisitions	\$ -	\$ -	\$ -	\$ -	
Land - Other	\$ -	\$ -	\$ -	\$ -	
TOTAL OWNERS COST	\$ 4,368,018	\$ -	\$ -	\$ 4,368,018	
DISTRIBUTED					
Procurement Management	\$ 37,021	\$ -	\$ -	\$ 37,021	
Project Management	\$ 984,922	\$ -	\$ -	\$ 984,922	
Construction Management	\$ 206,926	\$ -	\$ -	\$ 206,926	
Contingency	\$ 905,544	\$ -	\$ -	\$ 905,544	
Escalation	\$ 185,137	\$ -	\$ -	\$ 185,137	
TOTAL DISTRIBUTED	\$ 2,319,550	\$ -	\$ -	\$ 2,319,550	
SALVAGE					
Transmission Line Labour	\$ 479,780	\$ -	\$ -	\$ 479,780	
Substation Labour	\$ -	\$ -	\$ -	\$ -	
Telecom Labour	\$ -	\$ -	\$ -	\$ -	
Land Remediation and Reclamation	\$ -	\$ -	\$ -	\$ -	
TOTAL SALVAGE	\$ 479,780	\$ -	\$ -	\$ 479,780	
OTHER COSTS					
AFUDC	\$ 650,699	\$ -	\$ -	\$ 650,699	
E&S	\$ 1,119,524	\$ -	\$ -	\$ 1,119,524	
TOTAL OTHER	\$ 1,770,223	\$ -	\$ -	\$ 1,770,223	
TOTAL PROJECT	\$ 12,442,365	\$ -	\$ -	\$ 12,442,365	

AESO Project Name & No.	Vauxhall Area Transmission Development Project Option 4		P7075 / D0801		
Prepared by:	Altalink Management Ltd.				
AACE Class:	5	Estimate Basis	NID		
High Range	30%	Low Range	-30%		
Date of Estimate:	31-Aug-21	Base Year	2024		
In Service Date	8-Mar-24	In Service Year	2024		
	SYSTEM	PARTICIPANT	TOTAL	ASSUMPTIONS	
TRANSMISSION LINE					
Material	\$ 684,791	\$ -	\$ -	\$ 684,791	
Labour	\$ 2,639,275	\$ -	\$ -	\$ 2,639,275	
Supply & Install	\$ -	\$ -	\$ -	\$ -	
TOTAL TRANSMISSION LINE	\$ 3,324,065	\$ -	\$ -	\$ 3,324,065	
SUBSTATION					
Material	\$ 5,654,975	\$ -	\$ -	\$ 5,654,975	
Labour	\$ 3,110,285	\$ -	\$ -	\$ 3,110,285	
Supply & Install	\$ -	\$ -	\$ -	\$ -	
TOTAL SUBSTATION	\$ 8,765,260	\$ -	\$ -	\$ 8,765,260	
TELECOMMUNICATION					
Material	\$ 28,468	\$ -	\$ -	\$ 28,468	
Labour	\$ 77,815	\$ -	\$ -	\$ 77,815	
Supply & Install	\$ -	\$ -	\$ -	\$ -	
TOTAL TELECOMMUNICATIONS	\$ 106,283	\$ -	\$ -	\$ 106,283	
OWNERS					
Pre-SP Cost	\$ 115,999	\$ -	\$ -	\$ 115,999	
Service Proposal	\$ 293,872	\$ -	\$ -	\$ 293,872	
Facility Applications	\$ 1,095,777	\$ -	\$ -	\$ 1,095,777	
Regulatory & Compliance	\$ -	\$ -	\$ -	\$ -	
Land Rights - Easements	\$ 2,661,576	\$ -	\$ -	\$ 2,661,576	
Land - Damage Claims	\$ 398,305	\$ -	\$ -	\$ 398,305	
Land - Acquisitions	\$ -	\$ -	\$ -	\$ -	
Land - Other	\$ -	\$ -	\$ -	\$ -	
TOTAL OWNERS COST	\$ 4,565,528	\$ -	\$ -	\$ 4,565,528	
DISTRIBUTED					
Procurement Management	\$ 53,649	\$ -	\$ -	\$ 53,649	
Project Management	\$ 1,721,322	\$ -	\$ -	\$ 1,721,322	
Construction Management	\$ 264,220	\$ -	\$ -	\$ 264,220	
Contingency	\$ 1,856,132	\$ -	\$ -	\$ 1,856,132	
Escalation	\$ 611,010	\$ -	\$ -	\$ 611,010	
TOTAL DISTRIBUTED	\$ 4,506,332	\$ -	\$ -	\$ 4,506,332	
SALVAGE					
Transmission Line Labour	\$ 488,530	\$ -	\$ -	\$ 488,530	
Substation Labour	\$ -	\$ -	\$ -	\$ -	
Telecom Labour	\$ -	\$ -	\$ -	\$ -	
Land Remediation and Reclamation	\$ -	\$ -	\$ -	\$ -	
TOTAL SALVAGE	\$ 488,530	\$ -	\$ -	\$ 488,530	
OTHER COSTS					
AFUDC	\$ 1,297,538	\$ -	\$ -	\$ 1,297,538	
E&S	\$ 2,283,329	\$ -	\$ -	\$ 2,283,329	
TOTAL OTHER	\$ 3,580,867	\$ -	\$ -	\$ 3,580,867	
TOTAL PROJECT	\$ 25,336,865	\$ -	\$ -	\$ 25,336,865	

AESO Project Name & No.	Vauxhall Area Transmission Development Project Option 5		P7075 / D0801	
Prepared by:	Altalink Management Ltd.			
AACE Class:	5	Estimate Basis	NID	
High Range	30%	Low Range	-30%	
Date of Estimate:	31-Aug-21	Base Year	2024	
In Service Date	8-Mar-24	In Service Year	2024	
	SYSTEM	PARTICIPANT	TOTAL	ASSUMPTIONS
TRANSMISSION LINE				
Material	\$ 1,101,127	\$ -	\$ -	\$ 1,101,127
Labour	\$ 4,065,700	\$ -	\$ -	\$ 4,065,700
Supply & Install	\$ -	\$ -	\$ -	\$ -
TOTAL TRANSMISSION LINE	\$ 5,166,827	\$ -	\$ -	\$ 5,166,827
SUBSTATION				
Material	\$ 11,061	\$ -	\$ -	\$ 11,061
Labour	\$ 144,506	\$ -	\$ -	\$ 144,506
Supply & Install	\$ -	\$ -	\$ -	\$ -
TOTAL SUBSTATION	\$ 155,567	\$ -	\$ -	\$ 155,567
TELECOMMUNICATION				
Material	\$ -	\$ -	\$ -	\$ -
Labour	\$ -	\$ -	\$ -	\$ -
Supply & Install	\$ -	\$ -	\$ -	\$ -
TOTAL TELECOMMUNICATIONS	\$ -	\$ -	\$ -	\$ -
OWNERS				
Pre-SP Cost	\$ 115,999	\$ -	\$ -	\$ 115,999
Service Proposal	\$ 113,637	\$ -	\$ -	\$ 113,637
Facility Applications	\$ 1,138,651	\$ -	\$ -	\$ 1,138,651
Regulatory & Compliance	\$ -	\$ -	\$ -	\$ -
Land Rights - Easements	\$ 4,661,576	\$ -	\$ -	\$ 4,661,576
Land - Damage Claims	\$ 398,305	\$ -	\$ -	\$ 398,305
Land - Acquisitions	\$ -	\$ -	\$ -	\$ -
Land - Other	\$ -	\$ -	\$ -	\$ -
TOTAL OWNERS COST	\$ 6,428,167	\$ -	\$ -	\$ 6,428,167
DISTRIBUTED				
Procurement Management	\$ 46,764	\$ -	\$ -	\$ 46,764
Project Management	\$ 1,375,786	\$ -	\$ -	\$ 1,375,786
Construction Management	\$ 369,812	\$ -	\$ -	\$ 369,812
Contingency	\$ 1,393,087	\$ -	\$ -	\$ 1,393,087
Escalation	\$ 360,854	\$ -	\$ -	\$ 360,854
TOTAL DISTRIBUTED	\$ 3,546,304	\$ -	\$ -	\$ 3,546,304
SALVAGE				
Transmission Line Labour	\$ 1,060,030	\$ -	\$ -	\$ 1,060,030
Substation Labour	\$ -	\$ -	\$ -	\$ -
Telecom Labour	\$ -	\$ -	\$ -	\$ -
Land Remediation and Reclamation	\$ -	\$ -	\$ -	\$ -
TOTAL SALVAGE	\$ 1,060,030	\$ -	\$ -	\$ 1,060,030
OTHER COSTS				
AFUDC	\$ 659,783	\$ -	\$ -	\$ 659,783
E&S	\$ 1,716,423	\$ -	\$ -	\$ 1,716,423
TOTAL OTHER	\$ 2,376,206	\$ -	\$ -	\$ 2,376,206
TOTAL PROJECT	\$ 18,733,101	\$ -	\$ -	\$ 18,733,101

AESO Project Name & No.	Vauxhall Area Transmission Development Project Option 5A		P7075 / D0801	
Prepared by:	Altalink Management Ltd.			
AACE Class:	5	Estimate Basis	NID	
High Range	30%	Low Range	-30%	
Date of Estimate:	31-Aug-21	Base Year	2024	
In Service Date	8-Mar-24	In Service Year	2024	
	SYSTEM	PARTICIPANT	TOTAL	ASSUMPTIONS
TRANSMISSION LINE				
Material	\$ 1,051,792	\$ -	\$ -	1,051,792
Labour	\$ 3,803,882	\$ -	\$ -	3,803,882
Supply & Install	\$ -	\$ -	\$ -	-
TOTAL TRANSMISSION LINE	\$ 4,855,674	\$ -	\$ -	4,855,674
SUBSTATION				
Material	\$ 11,061	\$ -	\$ -	11,061
Labour	\$ 144,524	\$ -	\$ -	144,524
Supply & Install	\$ -	\$ -	\$ -	-
TOTAL SUBSTATION	\$ 155,585	\$ -	\$ -	155,585
TELECOMMUNICATION				
Material	\$ -	\$ -	\$ -	-
Labour	\$ -	\$ -	\$ -	-
Supply & Install	\$ -	\$ -	\$ -	-
TOTAL TELECOMMUNICATIONS	\$ -	\$ -	\$ -	-
OWNERS				
Pre-SP Cost	\$ 115,999	\$ -	\$ -	115,999
Service Proposal	\$ 113,637	\$ -	\$ -	113,637
Facility Applications	\$ 1,138,651	\$ -	\$ -	1,138,651
Regulatory & Compliance	\$ -	\$ -	\$ -	-
Land Rights - Easements	\$ 3,661,576	\$ -	\$ -	3,661,576
Land - Damage Claims	\$ 398,305	\$ -	\$ -	398,305
Land - Acquisitions	\$ -	\$ -	\$ -	-
Land - Other	\$ -	\$ -	\$ -	-
TOTAL OWNERS COST	\$ 5,428,167	\$ -	\$ -	5,428,167
DISTRIBUTED				
Procurement Management	\$ 46,743	\$ -	\$ -	46,743
Project Management	\$ 1,221,920	\$ -	\$ -	1,221,920
Construction Management	\$ 369,741	\$ -	\$ -	369,741
Contingency	\$ 1,160,116	\$ -	\$ -	1,160,116
Escalation	\$ 302,198	\$ -	\$ -	302,198
TOTAL DISTRIBUTED	\$ 3,100,718	\$ -	\$ -	3,100,718
SALVAGE				
Transmission Line Labour	\$ 100,310	\$ -	\$ -	100,310
Substation Labour	\$ -	\$ -	\$ -	-
Telecom Labour	\$ -	\$ -	\$ -	-
Land Remediation and Reclamation	\$ -	\$ -	\$ -	-
TOTAL SALVAGE	\$ 100,310	\$ -	\$ -	100,310
OTHER COSTS				
AFUDC	\$ 580,757	\$ -	\$ -	580,757
E&S	\$ 1,431,197	\$ -	\$ -	1,431,197
TOTAL OTHER	\$ 2,011,953	\$ -	\$ -	2,011,953
TOTAL PROJECT	\$ 15,652,408	\$ -	\$ -	15,652,408

AESO Project Name & No.	Vauxhall Area Transmission Development Project Option 5B		P7075 / D0801	
Prepared by:	Altalink Management Ltd.			
AACE Class:	5	Estimate Basis	NID	
High Range	30%	Low Range	-30%	
Date of Estimate:	31-Aug-21	Base Year	2024	
In Service Date	8-Mar-24	In Service Year	2024	
	SYSTEM	PARTICIPANT	TOTAL	ASSUMPTIONS
TRANSMISSION LINE				
Material	\$ 1,127,827	\$ -	\$ -	\$ 1,127,827
Labour	\$ 3,862,611	\$ -	\$ -	\$ 3,862,611
Supply & Install	\$ -	\$ -	\$ -	\$ -
TOTAL TRANSMISSION LINE	\$ 4,990,438	\$ -	\$ -	\$ 4,990,438
SUBSTATION				
Material	\$ 11,061	\$ -	\$ -	\$ 11,061
Labour	\$ 144,524	\$ -	\$ -	\$ 144,524
Supply & Install	\$ -	\$ -	\$ -	\$ -
TOTAL SUBSTATION	\$ 155,585	\$ -	\$ -	\$ 155,585
TELECOMMUNICATION				
Material	\$ -	\$ -	\$ -	\$ -
Labour	\$ -	\$ -	\$ -	\$ -
Supply & Install	\$ -	\$ -	\$ -	\$ -
TOTAL TELECOMMUNICATIONS	\$ -	\$ -	\$ -	\$ -
OWNERS				
Pre-SP Cost	\$ 115,999	\$ -	\$ -	\$ 115,999
Service Proposal	\$ 113,637	\$ -	\$ -	\$ 113,637
Facility Applications	\$ 1,138,651	\$ -	\$ -	\$ 1,138,651
Regulatory & Compliance	\$ -	\$ -	\$ -	\$ -
Land Rights - Easements	\$ 3,661,576	\$ -	\$ -	\$ 3,661,576
Land - Damage Claims	\$ 398,305	\$ -	\$ -	\$ 398,305
Land - Acquisitions	\$ -	\$ -	\$ -	\$ -
Land - Other	\$ -	\$ -	\$ -	\$ -
TOTAL OWNERS COST	\$ 5,428,167	\$ -	\$ -	\$ 5,428,167
DISTRIBUTED				
Procurement Management	\$ 46,743	\$ -	\$ -	\$ 46,743
Project Management	\$ 1,231,352	\$ -	\$ -	\$ 1,231,352
Construction Management	\$ 369,741	\$ -	\$ -	\$ 369,741
Contingency	\$ 1,174,407	\$ -	\$ -	\$ 1,174,407
Escalation	\$ 310,340	\$ -	\$ -	\$ 310,340
TOTAL DISTRIBUTED	\$ 3,132,582	\$ -	\$ -	\$ 3,132,582
SALVAGE				
Transmission Line Labour	\$ 100,310	\$ -	\$ -	\$ 100,310
Substation Labour	\$ -	\$ -	\$ -	\$ -
Telecom Labour	\$ -	\$ -	\$ -	\$ -
Land Remediation and Reclamation	\$ -	\$ -	\$ -	\$ -
TOTAL SALVAGE	\$ 100,310	\$ -	\$ -	\$ 100,310
OTHER COSTS				
AFUDC	\$ 585,123	\$ -	\$ -	\$ 585,123
E&S	\$ 1,448,693	\$ -	\$ -	\$ 1,448,693
TOTAL OTHER	\$ 2,033,815	\$ -	\$ -	\$ 2,033,815
TOTAL PROJECT	\$ 15,840,899	\$ -	\$ -	\$ 15,840,899