

TFO COST ESTIMATES

AESO Project Name & No.	Kiwetinohk Opal Gas		P2456		Alternative 1
Prepared by:	ATCO Electric				
AACE Class:	N/A	Estimate Basis	Service Proposal		
High Range	20%	Low Range	-10%		
Date of Estimate:	06/06/2023	Base Year \$	2023		
In Service Date	01-Dec-24	In Service Year \$	2024		
	SYSTEM	PARTICIPANT	TOTAL		ASSUMPTIONS
TRANSMISSION LINE					
Material	\$ 623,196	\$ 1,169,843	\$ 1,793,039		
Labour	\$ 2,595,967	\$ 2,706,160	\$ 5,302,127		
Supply & Install	\$ -	\$ -	\$ -		
TOTAL TRANSMISSION LINE	\$ 3,219,163	\$ 3,876,003	\$ 7,095,166		
SUBSTATION					
Material	\$ 249,779	\$ 202,483	\$ 452,262		
Labour	\$ 522,527	\$ 453,926	\$ 976,453		
Supply & Install	\$ -	\$ -	\$ -		
TOTAL SUBSTATION	\$ 772,306	\$ 656,409	\$ 1,428,715		
TELECOMMUNICATION					
Material	\$ 172,820	\$ 69,237	\$ 242,057		
Labour	\$ 103,556	\$ 76,532	\$ 180,088		
Supply & Install	\$ -	\$ -	\$ -		
TOTAL TELECOMMUNICATIONS	\$ 276,376	\$ 145,769	\$ 422,145		
OWNERS					
Pre-SP Cost	\$ 11,158	\$ 14,202	\$ 25,360		
Service Proposal	\$ 29,525	\$ 37,578	\$ 67,103		
Facility Applications	\$ 49,272	\$ 476,788	\$ 526,060		
Regulatory & Compliance	\$ -	\$ -	\$ -		
Land Rights - Easements	\$ 92,811	\$ -	\$ 92,811		
Land - Damage Claims	\$ -	\$ -	\$ -		
Land - Acquisitions	\$ -	\$ -	\$ -		
Land - Other	\$ -	\$ -	\$ -		
TOTAL OWNERS COST	\$ 182,766	\$ 528,568	\$ 711,334		
DISTRIBUTED					
Procurement Management	\$ 63,272	\$ 67,328	\$ 130,600		
Project Management	\$ 199,450	\$ 233,090	\$ 432,540		
Construction Management	\$ 377,754	\$ 398,731	\$ 776,485		
Contingency	\$ 805,800	\$ 853,450	\$ 1,659,250		
Escalation	\$ 146,795	\$ 163,420	\$ 310,215		
TOTAL DISTRIBUTED	\$ 1,593,071	\$ 1,716,019	\$ 3,309,090		
SALVAGE					
Transmission Line Labour	\$ 22,228	\$ -	\$ 22,228		
Substation Labour	\$ 42,300	\$ -	\$ 42,300		
Telecom Labour	\$ -	\$ -	\$ -		
Land Remediation and Reclamation	\$ -	\$ -	\$ -		
TOTAL SALVAGE	\$ 64,528	\$ -	\$ 64,528		
OTHER COSTS					
AFUDC	\$ 17,531	\$ 30,632	\$ 48,163		
E&S	\$ 671,903	\$ 761,504	\$ 1,433,408		
TOTAL OTHER	\$ 689,434	\$ 792,136	\$ 1,481,570		
TOTAL PROJECT	\$ 6,797,645	\$ 7,714,904	\$ 14,512,549		

AESO Project Name & No.	Kiwetinohk Opal Gas		P2456 / D0902		Alternative 1
Prepared by:	Altalink Management Ltd.				
AACE Class:	3	Estimate Basis	Service Proposal		
High Range	20%	Low Range	-10%		
Date of Estimate:	June 22, 2023	Base Year	2023		
In Service Date	1-Dec-24	In Service Year	2024		
	SYSTEM	PARTICIPANT	TOTAL	ASSUMPTIONS	
TRANSMISSION LINE					
Material	\$ -	\$ -	\$ -		
Labour	\$ -	\$ -	\$ -		
Supply & Install	\$ -	\$ -	\$ -		
TOTAL TRANSMISSION LINE	\$ -	\$ -	\$ -		
SUBSTATION					
Material	\$ -	\$ 12,166	\$ 12,166		
Labour	\$ -	\$ 252,539	\$ 252,539		
Supply & Install	\$ -	\$ -	\$ -		
TOTAL SUBSTATION	\$ -	\$ 264,705	\$ 264,705		
TELECOMMUNICATION					
Material	\$ -	\$ 2,075	\$ 2,075		
Labour	\$ -	\$ 15,503	\$ 15,503		
Supply & Install	\$ -	\$ -	\$ -		
TOTAL TELECOMMUNICATIONS	\$ -	\$ 17,578	\$ 17,578		
OWNERS					
Pre-SP Cost	\$ -	\$ 5,271	\$ 5,271		
Service Proposal	\$ -	\$ 27,229	\$ 27,229		
Facility Applications	\$ -	\$ 14,610	\$ 14,610		
Regulatory & Compliance	\$ -	\$ 2,843	\$ 2,843		
Land Rights - Easements	\$ -	\$ -	\$ -		
Land - Damage Claims	\$ -	\$ -	\$ -		
Land - Acquisitions	\$ -	\$ -	\$ -		
Land - Other	\$ -	\$ -	\$ -		
TOTAL OWNERS COST	\$ -	\$ 49,952	\$ 49,952		
DISTRIBUTED					
Procurement Management	\$ -	\$ 9,712	\$ 9,712		
Project Management	\$ -	\$ 123,299	\$ 123,299		
Construction Management	\$ -	\$ 52,012	\$ 52,012		
Contingency	\$ -	\$ 75,000	\$ 75,000		
Escalation	\$ -	\$ 17,047	\$ 17,047		
TOTAL DISTRIBUTED	\$ -	\$ 277,071	\$ 277,071		
SALVAGE					
Transmission Line Labour	\$ -	\$ -	\$ -		
Substation Labour	\$ -	\$ -	\$ -		
Telecom Labour	\$ -	\$ -	\$ -		
Land Remediation and Reclamation	\$ -	\$ -	\$ -		
TOTAL SALVAGE	\$ -	\$ -	\$ -		
OTHER COSTS					
AFUDC	\$ -	\$ -	\$ -		
E&S	\$ -	\$ 54,031	\$ 54,031		
TOTAL OTHER	\$ -	\$ 54,031	\$ 54,031		
TOTAL PROJECT	\$ -	\$ 663,337	\$ 663,337		

AESO Project Name & No.	P2456_Kiwetinohk Opal Gas-Alt 3			Alternative 3
Prepared by:	ATCO Electric			
AACE Class:	N/A	Estimate Basis	NID	
High Range	20%	Low Range	-10%	
Date of Estimate:	04/08/2023	Base Year \$	2023	
In Service Date	01-Dec-24	In Service Year \$	2024	
	SYSTEM	PARTICIPANT	TOTAL	ASSUMPTIONS
TRANSMISSION LINE				
Material	\$ -	\$ 1,270,481	\$ 1,270,481	
Labour	\$ -	\$ 4,491,916	\$ 4,491,916	
Supply & Install	\$ -	\$ -	\$ -	
TOTAL TRANSMISSION LINE	\$ -	\$ 5,762,397	\$ 5,762,397	
SUBSTATION				
Material	\$ -	\$ 685,827	\$ 685,827	
Labour	\$ -	\$ 3,182,107	\$ 3,182,107	
Supply & Install	\$ -	\$ -	\$ -	
TOTAL SUBSTATION	\$ -	\$ 3,867,934	\$ 3,867,934	
TELECOMMUNICATION				
Material	\$ -	\$ 258,642	\$ 258,642	
Labour	\$ -	\$ 236,504	\$ 236,504	
Supply & Install	\$ -	\$ -	\$ -	
TOTAL TELECOMMUNICATIONS	\$ -	\$ 495,146	\$ 495,146	
OWNERS				
Pre-SP Cost	\$ -	\$ 25,360	\$ 25,360	
Service Proposal	\$ -	\$ 97,452	\$ 97,452	
Facility Applications	\$ -	\$ 327,014	\$ 327,014	
Regulatory & Compliance	\$ -	\$ -	\$ -	
Land Rights - Easements	\$ -	\$ 169,114	\$ 169,114	
Land - Damage Claims	\$ -	\$ -	\$ -	
Land - Acquisitions	\$ -	\$ -	\$ -	
Land - Other	\$ -	\$ -	\$ -	
TOTAL OWNERS COST	\$ -	\$ 618,940	\$ 618,940	
DISTRIBUTED				
Procurement Management	\$ -	\$ 43,630	\$ 43,630	
Project Management	\$ -	\$ 138,753	\$ 138,753	
Construction Management	\$ -	\$ 524,716	\$ 524,716	
Contingency	\$ -	\$ 1,155,657	\$ 1,155,657	
Escalation	\$ -	\$ 270,433	\$ 270,433	
TOTAL DISTRIBUTED	\$ -	\$ 2,133,189	\$ 2,133,189	
SALVAGE				
Transmission Line Labour	\$ -	\$ -	\$ -	
Substation Labour	\$ -	\$ 227,685	\$ 227,685	
Telecom Labour	\$ -	\$ -	\$ -	
Land Remediation and Reclamation	\$ -	\$ -	\$ -	
TOTAL SALVAGE	\$ -	\$ 227,685	\$ 227,685	
OTHER COSTS				
AFUDC	\$ -	\$ 178,004	\$ 178,004	
E&S	\$ -	\$ 1,314,460	\$ 1,314,460	
TOTAL OTHER	\$ -	\$ 1,492,464	\$ 1,492,464	
TOTAL PROJECT	\$ -	\$ 14,597,755	\$ 14,597,755	