



## **APPENDIX B TFO CAPITAL COST ESTIMATES**

## TRANSMISSION PROJECT COST SUMMARY

AESO Project Name & No.	Garneau Area Upgrades - Tx Replacement		P1649		
Prepared by:	EDTI				
AACE Class:	3	Estimate Basis	Service Proposal P&L		
High Range	20%	Low Range	-10%		
Date of Estimate:	04/05/18	Base Year \$	2019		
In Service Date	09/30/22	In Service Year \$	2022		
	SYSTEM	PARTICIPANT	TOTAL		ASSUMPTIONS
<b>TRANSMISSION LINE</b>					
Material	\$	-	\$ 2,292,942	\$ 2,292,942	
Labour	\$	-	\$ 896,875	\$ 896,875	
Supply & Install	\$	-	\$ 9,297,250	\$ 9,297,250	
<b>TOTAL TRANSMISSION LINE</b>	<b>\$</b>	<b>-</b>	<b>\$ 12,487,067</b>	<b>\$ 12,487,067</b>	
<b>SUBSTATION</b>					
Material	\$	-	\$ 10,104,548	\$ 10,104,548	
Labour	\$	-	\$ 5,003,426	\$ 5,003,426	
Supply & Install	\$	-	\$ 2,471,458	\$ 2,471,458	
<b>TOTAL SUBSTATION</b>	<b>\$</b>	<b>-</b>	<b>\$ 17,579,432</b>	<b>\$ 17,579,432</b>	
<b>TELECOMMUNICATION</b>					
Material	\$	-	-	-	
Labour	\$	-	-	-	
Supply & Install	\$	-	\$ 25,000	\$ 25,000	
<b>TOTAL TELECOMMUNICATIONS</b>	<b>\$</b>	<b>-</b>	<b>\$ 25,000</b>	<b>\$ 25,000</b>	
<b>OWNERS</b>					
Pre-SP Cost			\$ 50,000	\$ 50,000	
Service Proposal			\$ 722,320	\$ 722,320	
Facility Applications			\$ 988,000	\$ 988,000	
Regulatory & Compliance			\$ -	\$ -	
Land Rights - Easements			\$ -	\$ -	
Land - Damage Claims			\$ -	\$ -	
Land - Acquisitions			\$ 657,003	\$ 657,003	
Land - Other			\$ -	\$ -	
<b>TOTAL OWNERS COST</b>	<b>\$</b>	<b>-</b>	<b>\$ 2,417,323</b>	<b>\$ 2,417,323</b>	
<b>DISTRIBUTED</b>					
Procurement Management	\$	-	\$ 51,220	\$ 51,220	
Project Management	\$	-	\$ 787,469	\$ 787,469	
Construction Management	\$	-	\$ 470,050	\$ 470,050	
Contingency	\$	-	\$ 6,748,109	\$ 6,748,109	
Escalation	\$	-	\$ 2,795,412	\$ 2,795,412	
<b>TOTAL DISTRIBUTED</b>	<b>\$</b>	<b>-</b>	<b>\$ 10,852,260</b>	<b>\$ 10,852,260</b>	
<b>SALVAGE</b>					
Transmission Line Labour	\$	-	-	-	
Substation Labour	\$	-	-	-	
Telecom Labour	\$	-	-	-	
Land Remediation and Reclamation			\$	-	
<b>TOTAL SALVAGE</b>	<b>\$</b>	<b>-</b>	<b>\$ -</b>	<b>\$ -</b>	
<b>OTHER COSTS</b>					
AFUDC			\$ 2,422,835	\$ 2,422,835	
E&S/Overhead			\$ 1,264,062	\$ 1,264,062	
<b>TOTAL OTHER</b>	<b>\$</b>	<b>-</b>	<b>\$ 3,686,897</b>	<b>\$ 3,686,897</b>	
<b>TOTAL PROJECT</b>	<b>\$</b>	<b>-</b>	<b>\$ 47,047,979</b>	<b>\$ 47,047,979</b>	

## TRANSMISSION PROJECT COST SUMMARY

AESO Project Name & No.	Garneau Transformer Addition Alternative		P1649		 <b>PROVIDING MORE</b>
Prepared by:	EDTI				
AACE Class:	3	Estimate Basis	Service Proposal P&L		
High Range	20%	Low Range	-10%		
Date of Estimate:	04/05/18	Base Year \$	2019		
In Service Date	09/30/22	In Service Year \$	2022		
	SYSTEM	PARTICIPANT	TOTAL		
					ASSUMPTIONS
<b>TRANSMISSION LINE</b>					
Material	\$	-	\$ 2,292,942	\$ 2,292,942	
Labour	\$	-	\$ 896,875	\$ 896,875	
Supply & Install	\$	-	\$ 9,297,250	\$ 9,297,250	
<b>TOTAL TRANSMISSION LINE</b>	<b>\$</b>	<b>-</b>	<b>\$ 12,487,067</b>	<b>\$ 12,487,067</b>	
<b>SUBSTATION</b>					
Material	\$	-	\$ 13,096,552	\$ 13,096,552	
Labour	\$	-	\$ 7,609,410	\$ 7,609,410	
Supply & Install	\$	-	\$ 3,113,981	\$ 3,113,981	
<b>TOTAL SUBSTATION</b>	<b>\$</b>	<b>-</b>	<b>\$ 23,819,942</b>	<b>\$ 23,819,942</b>	
<b>TELECOMMUNICATION</b>					
Material	\$	-	\$ -	\$ -	
Labour	\$	-	\$ -	\$ -	
Supply & Install	\$	-	\$ 25,000	\$ 25,000	
<b>TOTAL TELECOMMUNICATIONS</b>	<b>\$</b>	<b>-</b>	<b>\$ 25,000</b>	<b>\$ 25,000</b>	
<b>OWNERS</b>					
Pre-SP Cost			\$ 50,000	\$ 50,000	
Service Proposal			\$ 722,320	\$ 722,320	
Facility Applications			\$ 988,000	\$ 988,000	
Regulatory & Compliance			\$ -	\$ -	
Land Rights - Easements			\$ -	\$ -	
Land - Damage Claims			\$ -	\$ -	
Land - Acquisitions			\$ 657,003	\$ 657,003	
Land - Other			\$ -	\$ -	
<b>TOTAL OWNERS COST</b>	<b>\$</b>	<b>-</b>	<b>\$ 2,417,323</b>	<b>\$ 2,417,323</b>	
<b>DISTRIBUTED</b>					
Procurement Management	\$	-	\$ 51,220	\$ 51,220	
Project Management	\$	-	\$ 787,469	\$ 787,469	
Construction Management	\$	-	\$ 470,050	\$ 470,050	
Contingency	\$	-	\$ 6,724,026	\$ 6,724,026	
Escalation	\$	-	\$ 3,204,018	\$ 3,204,018	
<b>TOTAL DISTRIBUTED</b>	<b>\$</b>	<b>-</b>	<b>\$ 11,236,783</b>	<b>\$ 11,236,783</b>	
<b>SALVAGE</b>					
Transmission Line Labour	\$	-	\$ -	\$ -	
Substation Labour	\$	-	\$ -	\$ -	
Telecom Labour	\$	-	\$ -	\$ -	
Land Remediation and Reclamation			\$ -	\$ -	
<b>TOTAL SALVAGE</b>	<b>\$</b>	<b>-</b>	<b>\$ -</b>	<b>\$ -</b>	
<b>OTHER COSTS</b>					
AFUDC			\$ 2,302,735	\$ 2,302,735	
E&S/Overhead			\$ 828,450	\$ 828,450	
<b>TOTAL OTHER</b>	<b>\$</b>	<b>-</b>	<b>\$ 3,131,185</b>	<b>\$ 3,131,185</b>	
<b>TOTAL PROJECT</b>	<b>\$</b>	<b>-</b>	<b>\$ 53,117,300</b>	<b>\$ 53,117,300</b>	