

ATTACHMENT R: DECOMMISSIONING SUMMARY AND ESTIMATE

**Attachment R. Decommissioning Summary and Estimate
Wautoma Solar Energy Project**

CBS Position Code	Description	Forecast (T/O)	Quantity	Unit of Measure	Unit Cost	Total Cost (Forecast)
1	WAUTOMA SOLAR RETIREMENT		1.00	Lump Sum	\$22,809,278.77	\$22,809,278.77
1.1	Equipment & Facilities Mob / Demob		1.00	Lump Sum	\$127,741.38	\$127,741.38
1.1.1	Equipment Mob		1.00	Lump Sum	\$61,200.00	\$61,200.00
1.1.2	Site Facilities		1.00	Lump Sum	\$2,200.00	\$2,200.00
1.1.3	Crew Mob & Site Setup		3.00	Day	\$12,868.28	\$38,604.83
1.1.4	Crew Demob & Site Cleanup		2.00	Day	\$12,868.28	\$25,736.55
1.2	Project Site Support		1.00	Lump Sum	\$805,320.82	\$805,320.82
1.2.1	Site Facilities		12.00	Month	\$1,305.00	\$15,660.00
1.2.2	Field Management		12.00	Month	\$65,805.07	\$789,660.82
1.3	O&M Building Removal		1.00	Lump Sum	\$19,997.26	\$19,997.26
1.3.1	Structure Demo		40.00	Ton	\$252.59	\$10,103.71
1.3.2	Remove Foundations To Subgrade		200.00	Cubic Yard	\$35.54	\$7,107.55
1.3.3	Trucking - Per Load		2.00	Each	\$1,375.00	\$2,750.00
1.3.4	Disposal Cost		1.00	Ton	\$36.00	\$36.00
1.4	Substation & T-Line Retirement		1.00	Lump Sum	\$345,111.94	\$345,111.94
1.4.1	Substation Retirement		1.00	Lump Sum	\$296,486.71	\$296,486.71
1.4.2	Transmission Line Retirement		1.00	Lump Sum	\$48,625.23	\$48,625.23
1.5	Solar Array Retirement		1.00	Lump Sum	\$15,247,454.08	\$15,247,454.08
1.5.1	Fence Removal		192,467.00	Linear Feet	\$1.26	\$241,940.46
1.5.2	Solar Panel Removal & Disposal		1,292,376.00	Each	\$6.66	\$8,609,369.94
1.5.3	Solar Rack (Trackers) & Post Removal		15,812.00	Each	\$363.11	\$5,741,558.14
1.5.4	Above Grade Cable Removal		3,953,000.00	Linear Feet	\$0.17	\$654,585.54
1.6	Tesla Megapack Retirement		636.00	Each	\$9,439.61	\$6,003,594.05
1.6.1	Transformer Removal		636.00	Each	\$455.80	\$289,886.66
1.6.2	Removal & Disposal - Ethylene Glycol From Megapacks		43,683.00	GL	\$12.50	\$545,917.41
1.6.3	Removal & Loadout - Battery Modules		8,268.00	EA	\$156.05	\$1,290,240.50
1.6.4	Process And Loadout		636.00	EA	\$2,318.73	\$1,474,711.20
1.6.5	T&D - Misc Waste		636.00	TN	\$100.00	\$63,600.00
1.6.6	Transport Scrap		2,544.00	TN	\$35.00	\$89,040.00
1.6.7	Transport Battery Modules To Telsa		9,927.96	TN	\$200.00	\$1,985,592.00
1.6.8	Remove Foundations To Subgrade		636.00	Each	\$416.05	\$264,606.28
1.7	Site Restoration - Partial Site Seeding		1.00	Lump Sum	\$1,104,230.75	\$1,104,230.75
1.7.1	Strip & Decompact Roads		183,794.00	Linear Feet	\$1.43	\$262,134.39
1.7.2	Removal & Disposal, Drainage Crossings		122.00	Each	\$206.01	\$25,133.65
1.7.3	Spot Grade Disturbed Areas		1,052.00	Acre	\$281.33	\$295,962.71
1.7.4	Re-Seed With Native Vegetation - Roads & Areas Disturbed By Construction		1,042.00	Acre	\$500.00	\$521,000.00
1.8	Contractor Markups		1.00	Lump Sum	\$4,411,368.49	\$4,411,368.49
1.8.1	Home Office, Project Management (5% Of Cost)		1.00	Lump Sum	\$1,182,672.50	\$1,182,672.50
1.8.2	Contractor OH & Fee (13% Of Cost)		1.00	Lump Sum	\$3,228,695.99	\$3,228,695.99
1.9	Scrap Metal Credit		1.00	Lump Sum	-\$5,255,540.00	-\$5,255,540.00
1.9.1	Scrap Credit - Substation		180.00	Ton	-\$380.00	-\$68,400.00
1.9.2	Scrap Credit - T-Line Structures		45.00	Ton	-\$380.00	-\$17,100.00
1.9.3	Scrap Credit - Fence		770.00	Ton	-\$380.00	-\$292,600.00
1.9.4	Scrap Credit - Megapack / Transformer		3,616.00	Ton	-\$380.00	-\$1,374,080.00
1.9.5	Scrap Credit - Module Rack		6,325.00	Ton	-\$380.00	-\$2,403,500.00
1.9.6	Scrap Credit - O&M Structure		39.00	Ton	-\$380.00	-\$14,820.00
1.9.7	Scrap Credit - Cable		198.00	Ton	-\$5,480.00	-\$1,085,040.00

Note:

1. The cost breakdown structure (CBS) code corresponds with the CBS position code for details provided in the following decommissioning estimate.

Estimate Summary

TETRA TECH EC, INC.

Job Code: Wautoma Solar

Description: Decommissioning Estimate

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1	1.00 Lump Sum	WAUTOMA SOLAR RETIREMENT	2,398.19	0.00	Detail	U.S. Dollar	22,809,278.77	22,809,278.77
1.1	1.00 Lump Sum	Equipment & Facilities Mob / Demob	5.00	0.20	Detail	U.S. Dollar	127,741.38	127,741.38
1.1.1	1.00 Lump Sum	Equipment Mob	0.00	0.00	Detail	U.S. Dollar	61,200.00	61,200.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
UERNTRLG	Rental Equip Transp-Large	6.00	Each	U.S. Dollar	10,000.00	60,000.00		
UERNTRSM	Rental Equip Transp-Small	8.00	Each	U.S. Dollar	150.00	1,200.00		
1.1.2	1.00 Lump Sum	Site Facilities	0.00	0.00	Detail	U.S. Dollar	2,200.00	2,200.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
UOCONMOB	Connex Box Mob	2.00	Each	U.S. Dollar	300.00	600.00		
UOTRLTRN	Trailer Trnsp/Setup/Trdwn	2.00	Each	U.S. Dollar	800.00	1,600.00		
1.1.3	3.00 Day	Crew Mob & Site Setup	3.00	1.00	Detail	U.S. Dollar	12,868.28	38,604.83
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	720.00	24.00	Each (hourly)	U.S. Dollar	40.69	29,296.43	
L010101	OPERATOR	180.00	6.00	Each (hourly)	U.S. Dollar	51.71	9,308.40	
1.1.4	2.00 Day	Crew Demob & Site Cleanup	2.00	1.00	Detail	U.S. Dollar	12,868.28	25,736.55
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	480.00	24.00	Each (hourly)	U.S. Dollar	40.69	19,530.95	
L010101	OPERATOR	120.00	6.00	Each (hourly)	U.S. Dollar	51.71	6,205.60	
1.2	1.00 Lump Sum	Project Site Support	264.00	0.00	Detail	U.S. Dollar	805,320.82	805,320.82
1.2.1	12.00 Month	Site Facilities	0.00	0.00	Detail	U.S. Dollar	1,305.00	15,660.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
URCONNEX	Connex Box	12.00	Month	U.S. Dollar	150.00	1,800.00		
UROFFTRL	Office Trailer -12x60	12.00	Month	U.S. Dollar	500.00	6,000.00		
UO1STAI	1st Aid Supplies	12.00	Month	U.S. Dollar	300.00	3,600.00		
UOOFFSUP	Office Supplies(\$/prs/mo)	12.00	Month	U.S. Dollar	55.00	660.00		
URPRTAJH	Port-a-John Unit(s) (4)	12.00	Month	U.S. Dollar	300.00	3,600.00		
1.2.2	12.00 Month	Field Management	264.00	0.05	Detail	U.S. Dollar	65,805.07	789,660.82
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L90FXX02	Field - Proj Superintendent	2,640.00	1.00	Each (hourly)	U.S. Dollar	83.18	219,600.48	
RPUTRK05	F-250 4X4 3/4 TON PICKUP	10,560.00	4.00	Each (hourly)	U.S. Dollar	11.88	125,452.80	
L90FEL00	Field - Engr. Tech	5,280.00	2.00	Each (hourly)	U.S. Dollar	39.57	208,950.84	
L90FXX03	Field - SHSO	2,640.00	1.00	Each (hourly)	U.S. Dollar	89.26	235,656.70	
1.3	1.00 Lump Sum	O&M Building Removal	4.80	0.21	Detail	U.S. Dollar	19,997.26	19,997.26
1.3.1	40.00 Ton	Structure Demo	2.00	20.00	Detail	U.S. Dollar	252.59	10,103.71
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
*REXCAV06A	Excav 100K w/ Bucket & Grapple	20.00	1.00	Each (hourly)	U.S. Dollar	129.71	2,594.20	
*REXCAV06E	Excav 100K w/ Shear	20.00	1.00	Each (hourly)	U.S. Dollar	190.67	3,813.40	
L010101	OPERATOR	40.00	2.00	Each (hourly)	U.S. Dollar	51.71	2,068.53	
L060100	GENERAL LABORER	40.00	2.00	Each (hourly)	U.S. Dollar	40.69	1,627.58	

Notes: *****
 Assume steel structure

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1.3.2	200.00 Cubic Yard	Remove Foundations To Subgrade	2.80	71.43	Detail	U.S. Dollar	35.54	7,107.55
1.3.2.1	200.00 Cubic Yard	Excavate / Remove Foundation - Various Depth	0.80	250.00	Detail	U.S. Dollar	17.60	3,519.73
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	8.00	1.00 Each (hourly)	U.S. Dollar	40.69	325.52		
L010101	OPERATOR	16.00	2.00 Each (hourly)	U.S. Dollar	51.71	827.41		
*REXCAV06C	Excav 100K w/ Hammer	8.00	1.00 Each (hourly)	U.S. Dollar	166.14	1,329.12		
*REXCAV06A	Excav 100K w/ Bucket & Grapple	8.00	1.00 Each (hourly)	U.S. Dollar	129.71	1,037.68		
1.3.2.2	200.00 Cubic Yard	Concrete Transport Offsite	2.00	100.00	Detail	U.S. Dollar	17.94	3,587.82
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
RDUTRK06	CAT D350D, 18CY-24CY	20.00	1.00 Each (hourly)	U.S. Dollar	76.71	1,534.20		
L080940	TEAMSTER	20.00	1.00 Each (hourly)	U.S. Dollar	43.52	870.49		
L010101	OPERATOR	10.00	0.50 Each (hourly)	U.S. Dollar	51.71	517.13		
RFELWH09	CAT 966F LOADER, 4.25CY	10.00	0.50 Each (hourly)	U.S. Dollar	66.60	666.00		
1.3.3	2.00 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	2,750.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		2,750.00 Each	U.S. Dollar	1.00	2,750.00		
Notes: ***** Assumption: 45,000 lbs per load *****								
1.3.4	1.00 Ton	Disposal Cost	0.00	0.00	Detail	U.S. Dollar	36.00	36.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USDISPOSAL	Disposal Fee's		30.00 Each	U.S. Dollar	1.20	36.00		
Notes: ***** Assumption: 324,016 modules x 60.63 lbs each *****								
1.4	1.00 Lump Sum	Substation & T-Line Retirement	41.56	0.02	Detail	U.S. Dollar	345,111.94	345,111.94
1.4.1	1.00 Lump Sum	Substation Retirement	31.45	0.03	Detail	U.S. Dollar	296,486.71	296,486.71
1.4.1.1	1.00 Day	Fence Removal	1.00	1.00	Detail	U.S. Dollar	1,276.73	1,276.73
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L010101	OPERATOR	10.00	1.00 Each (hourly)	U.S. Dollar	51.71	517.13		
L060100	GENERAL LABORER	10.00	1.00 Each (hourly)	U.S. Dollar	40.69	406.89		
RBACKH09	Deere 710J BACKHOE, 1.62CY	10.00	1.00 Each (hourly)	U.S. Dollar	35.27	352.70		
1.4.1.2	2.00 Each	Transformer Removal	12.00	0.17	Detail	U.S. Dollar	104,217.02	208,434.04
1.4.1.2.1	2.00 Each	Oil Removal & Disposal	2.00	1.00	Detail	U.S. Dollar	69,388.79	138,777.58
1.4.1.2.1.1	2.00 Each	Oil Removal	2.00	1.00	Detail	U.S. Dollar	813.79	1,627.58
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	40.00	2.00 Each (hourly)	U.S. Dollar	40.69	1,627.58		
1.4.1.2.1.2	28,000.00 Gallon	Oil Disposal	0.00	0.00	Detail	U.S. Dollar	4.80	134,400.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USDISPOSAL	Disposal Fee's		112,000.00 Each	U.S. Dollar	1.20	134,400.00		
1.4.1.2.1.3	2.00 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	2,750.00

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		2,750.00 Each	U.S. Dollar	1.00	2,750.00		
1.4.1.2.2	2.00 Each	Dismantle & Loadout Transformer	10.00	0.20 Detail	U.S. Dollar	34,828.23	69,656.46	
1.4.1.2.2.1	2.00 Each	Dismantle, Cut & Size	10.00	0.20 Detail	U.S. Dollar	29,328.23	58,656.46	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	400.00	4.00 Each (hourly)	U.S. Dollar	40.69	16,275.79		
L010101	OPERATOR	200.00	2.00 Each (hourly)	U.S. Dollar	51.71	10,342.67		
*REXCAV06A	Excav 100K w/ Bucket & Grapple	100.00	1.00 Each (hourly)	U.S. Dollar	129.71	12,971.00		
*REXCAV06E	Excav 100K w/ Shear	100.00	1.00 Each (hourly)	U.S. Dollar	190.67	19,067.00		
1.4.1.2.2.2	8.00 Each	Trucking - Per Load	0.00	0.00 Detail	U.S. Dollar	1,375.00	11,000.00	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		11,000.00 Each	U.S. Dollar	1.00	11,000.00		
1.4.1.3	1.00 Each	Remove Control Building & Switchgear	1.00	1.00 Detail	U.S. Dollar	4,971.13	4,971.13	
1.4.1.3.1	1.00 Each	Demo	1.00	1.00 Detail	U.S. Dollar	2,221.13	2,221.13	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	10.00	1.00 Each (hourly)	U.S. Dollar	40.69	406.89		
L010101	OPERATOR	10.00	1.00 Each (hourly)	U.S. Dollar	51.71	517.13		
*REXCAV06A	Excav 100K w/ Bucket & Grapple	10.00	1.00 Each (hourly)	U.S. Dollar	129.71	1,297.10		
1.4.1.3.2	2.00 Each	Trucking - Per Load	0.00	0.00 Detail	U.S. Dollar	1,375.00	2,750.00	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		2,750.00 Each	U.S. Dollar	1.00	2,750.00		
1.4.1.4	2.00 Day	UG Utility & Ground Removal	2.00	1.00 Detail	U.S. Dollar	1,276.73	2,553.46	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L010101	OPERATOR	20.00	1.00 Each (hourly)	U.S. Dollar	51.71	1,034.27		
L060100	GENERAL LABORER	20.00	1.00 Each (hourly)	U.S. Dollar	40.69	813.79		
RBACKH09	Deere 710J BACKHOE, 1.62CY	20.00	1.00 Each (hourly)	U.S. Dollar	35.27	705.40		
1.4.1.5	500.00 Cubic Yard	Remove Foundations To Subgrade	6.79	73.68 Detail	U.S. Dollar	27.74	13,868.25	
1.4.1.5.1	500.00 Cubic Yard	Excavate / Remove Foundation - Various Depth	1.79	280.00 Detail	U.S. Dollar	15.71	7,856.54	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	17.86	1.00 Each (hourly)	U.S. Dollar	40.69	726.60		
L010101	OPERATOR	35.71	2.00 Each (hourly)	U.S. Dollar	51.71	1,846.91		
*REXCAV06C	Excav 100K w/ Hammer	17.86	1.00 Each (hourly)	U.S. Dollar	166.14	2,966.79		
*REXCAV06A	Excav 100K w/ Bucket & Grapple	17.86	1.00 Each (hourly)	U.S. Dollar	129.71	2,316.25		
1.4.1.5.2	500.00 Cubic Yard	Concrete Transport Offsite	5.00	100.00 Detail	U.S. Dollar	12.02	6,011.72	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
RDUTRK06	CAT D350D, 18CY-24CY	50.00	1.00 Each (hourly)	U.S. Dollar	76.71	3,835.50		
L080940	TEAMSTER	50.00	1.00 Each (hourly)	U.S. Dollar	43.52	2,176.22		
1.4.1.6	1.00 Lump Sum	Misc. Material Disposal	0.00	0.00 Detail	U.S. Dollar	1,735.00	1,735.00	

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1.4.1.6.1	1.00 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	1,375.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		1,375.00 Each	U.S. Dollar	1.00	1,375.00		
1.4.1.6.2	10.00 Ton	Disposal Cost	0.00	0.00	Detail	U.S. Dollar	36.00	360.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USDISPOSAL	Disposal Fee's		300.00 Each	U.S. Dollar	1.20	360.00		
1.4.1.7	1.00 Lump Sum	Restore Yard	8.67	0.12	Detail	U.S. Dollar	63,648.10	63,648.10
1.4.1.7.1	4.00 Acre	Backfill / Regrade	2.00	2.00	Detail	U.S. Dollar	1,626.25	6,504.99
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	40.00	2.00 Each (hourly)	U.S. Dollar	40.69	1,627.58		
L010101	OPERATOR	40.00	2.00 Each (hourly)	U.S. Dollar	51.71	2,068.53		
REXCAV06B	Gradall - Excavator	20.00	1.00 Each (hourly)	U.S. Dollar	79.62	1,592.47		
*RDOZER08	CAT D6 LGP Dozer	20.00	1.00 Each (hourly)	U.S. Dollar	60.82	1,216.40		
1.4.1.7.2	2,000.00 Cubic Yard	Vegetative Cover	6.67	300.00	Detail	U.S. Dollar	27.57	55,143.11
1.4.1.7.2.1	2,000.00 Cubic Yard	Topsoil, Delivered	0.00	0.00	Detail	U.S. Dollar	20.00	40,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
IMSOIL	Topsoil		2,000.00 Cubic Yard	U.S. Dollar	20.00	40,000.00		
1.4.1.7.2.2	2,000.00 Cubic Yard	Placement	6.67	300.00	Detail	U.S. Dollar	7.57	15,143.11
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L010101	OPERATOR	133.33	2.00 Each (hourly)	U.S. Dollar	51.71	6,895.11		
RDOZER08	CAT D6N XL	133.33	2.00 Each (hourly)	U.S. Dollar	61.86	8,248.00		
1.4.1.7.3	4.00 Acre	Re-Seed With Native Vegetation	0.00	0.00	Detail	U.S. Dollar	500.00	2,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USLANDSCAPE	Landscape Sub		4.00 Acre	U.S. Dollar	500.00	2,000.00		
1.4.2	1.00 Lump Sum	Transmission Line Retirement	10.11	0.10	Detail	U.S. Dollar	48,625.23	48,625.23
1.4.2.1	5.00 Each	Structure Removal	5.00	1.00	Detail	U.S. Dollar	4,892.61	24,463.04
1.4.2.1.1	5.00 Each	Cut / Lower Structure	2.50	2.00	Detail	U.S. Dollar	1,830.06	9,150.28
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	100.00	4.00 Each (hourly)	U.S. Dollar	40.69	4,068.95		
L010101	OPERATOR	25.00	1.00 Each (hourly)	U.S. Dollar	51.71	1,292.83		
*RXMISC14	MAN LIFT GAS 125ft	25.00	1.00 Each (hourly)	U.S. Dollar	54.88	1,372.00		
*RXMISC23	GROVE RT 200 TON	25.00	1.00 Each (hourly)	U.S. Dollar	96.66	2,416.50		
1.4.2.1.2	5.00 Each	Cut / Size Structure & Loadout	2.50	2.00	Detail	U.S. Dollar	1,962.55	9,812.76
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	150.00	6.00 Each (hourly)	U.S. Dollar	40.69	6,103.42		
L010101	OPERATOR	25.00	1.00 Each (hourly)	U.S. Dollar	51.71	1,292.83		
*RXMISC23	GROVE RT 200 TON	25.00	1.00 Each (hourly)	U.S. Dollar	96.66	2,416.50		

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1.4.2.1.3	4.00 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	5,500.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		5,500.00 Each	U.S. Dollar	1.00	5,500.00		
Notes: ***** Assume 9 ton per steel structure and cable span *****								
1.4.2.2	5.00 Each	Remove Foundations To Subgrade	5.11	0.98	Detail	U.S. Dollar	4,832.44	24,162.19
1.4.2.2.1	5.00 Each	Excavate / Remove Foundation - Various Depth	5.00	1.00	Detail	U.S. Dollar	4,806.56	24,032.78
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	100.00	2.00 Each (hourly)	U.S. Dollar	40.69	4,068.95		
L010101	OPERATOR	100.00	2.00 Each (hourly)	U.S. Dollar	51.71	5,171.34		
*REXCAV06C	Excav 100K w/ Hammer	50.00	1.00 Each (hourly)	U.S. Dollar	166.14	8,307.00		
*REXCAV06A	Excav 100K w/ Bucket & Grapple	50.00	1.00 Each (hourly)	U.S. Dollar	129.71	6,485.50		
1.4.2.2.2	8.07 Cubic Yard	Concrete Transport Offsite	0.11	75.00	Detail	U.S. Dollar	16.03	129.41
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
RDUTRK06	CAT D350D, 18CY-24CY	1.08	1.00 Each (hourly)	U.S. Dollar	76.71	82.56		
L080940	TEAMSTER	1.08	1.00 Each (hourly)	U.S. Dollar	43.52	46.85		
1.5	1.00 Lump Sum	Solar Array Retirement	702.81	0.00	Detail	U.S. Dollar	15,247,454.08	15,247,454.08
1.5.1	192,467.00 Linear Feet	Fence Removal	37.56	5,124.80	Detail	U.S. Dollar	1.26	241,940.46
1.5.1.1	192,467.00 Linear Feet	Fence Removal	37.56	5,124.80	Detail	U.S. Dollar	0.99	189,690.46
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L010101	OPERATOR	1,126.68	3.00 Each (hourly)	U.S. Dollar	51.71	58,264.40		
L060100	GENERAL LABORER	2,253.36	6.00 Each (hourly)	U.S. Dollar	40.69	91,688.05		
RBACKH09	Deere 710J BACKHOE, 1.62CY	1,126.68	3.00 Each (hourly)	U.S. Dollar	35.27	39,738.01		
1.5.1.2	38.00 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	52,250.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		52,250.00 Each	U.S. Dollar	1.00	52,250.00		
1.5.2	1,292,376.00 Each	Solar Panel Removal & Disposal	269.25	4,800.00	Detail	U.S. Dollar	6.66	8,609,369.94
1.5.2.1	1,292,376.00 Each	Solar Panel Removal	269.25	4,800.00	Detail	U.S. Dollar	2.97	3,835,630.94
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	16,154.70	6.00 Each (hourly)	U.S. Dollar	22.96	370,911.91		
L010101	OPERATOR	16,154.70	6.00 Each (hourly)	U.S. Dollar	51.71	835,413.66		
L060100	GENERAL LABORER	64,618.80	24.00 Each (hourly)	U.S. Dollar	40.69	2,629,305.37		
Notes: ***** Assumed production: 20 panels per laborer per hour, Includes packaging and preparing for shipment offsite. *****								
1.5.2.2	2,185.00 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	3,004,375.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		3,004,375.00 Each	U.S. Dollar	1.00	3,004,375.00		
Notes: ***** Assumption: 45,000 lbs per load *****								
1.5.2.3	49,149.00 Ton	Disposal Cost	0.00	0.00	Detail	U.S. Dollar	36.00	1,769,364.00

Cost Item									
CBS Position Code	Quantity	UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
Resource Code	Description		Hours	Quantity	UM	Currency		Unit Cost	Total Cost
USDISPOSAL	Disposal Fee's			1,474,470.00	Each	U.S. Dollar		1.20	1,769,364.00
Notes: ***** Assumption: 626,332 modules x 76.06 lbs each *****									
1.5.3	15,812.00	Each	Solar Rack (Trackers) & Post Removal	132.47	119.36	Detail	U.S. Dollar	363.11	5,741,558.14
1.5.3.1	15,812.00	Each	Solar Rack (Trackers) & Post Removal	132.47	119.36	Detail	U.S. Dollar	338.59	5,353,808.14
Resource Code	Description		Hours	Quantity	UM	Currency		Unit Cost	Total Cost
L010101	OPERATOR		21,195.41	16.00	Each (hourly)	U.S. Dollar		51.71	1,096,085.56
L060100	GENERAL LABORER		21,195.41	16.00	Each (hourly)	U.S. Dollar		40.69	862,430.14
*REXCAV06A	Excav 100K w/ Bucket & Grapple		10,597.70	8.00	Each (hourly)	U.S. Dollar		129.71	1,374,628.20
*REXCAV06E	Excav 100K w/ Shear		10,597.70	8.00	Each (hourly)	U.S. Dollar		190.67	2,020,664.24
Notes: ***** Crew to include 1 excavator w/shear, 1 excavator w/grapple, 2 operators and 2 laborers. Includes post removal and sizing of steel for sale as scrap, and loadout to haul trucks. *****									
1.5.3.2	282.00	Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	387,750.00
Resource Code	Description		Hours	Quantity	UM	Currency		Unit Cost	Total Cost
USTRUCKING	Trucking Sub			387,750.00	Each	U.S. Dollar		1.00	387,750.00
Notes: ***** Assumption: 45,000 lbs per load *****									
1.5.4	3,953,000.00	Linear Feet	Above Grade Cable Removal	263.53	15,000.00	Detail	U.S. Dollar	0.17	654,585.54
1.5.4.1	3,953,000.00	Linear Feet	Remove Cable From Rack	263.53	15,000.00	Detail	U.S. Dollar	0.16	625,710.54
Resource Code	Description		Hours	Quantity	UM	Currency		Unit Cost	Total Cost
RLIFTS05	JCB 508C, 8,000lbs FRKLFT		2,635.33	1.00	Each (hourly)	U.S. Dollar		22.96	60,507.25
L010101	OPERATOR		2,635.33	1.00	Each (hourly)	U.S. Dollar		51.71	136,281.92
L060100	GENERAL LABORER		10,541.33	4.00	Each (hourly)	U.S. Dollar		40.69	428,921.37
Notes: ***** Assume .10 lbs per lf, 250 lf per rack *****									
1.5.4.2	21.00	Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	28,875.00
Resource Code	Description		Hours	Quantity	UM	Currency		Unit Cost	Total Cost
USTRUCKING	Trucking Sub			28,875.00	Each	U.S. Dollar		1.00	28,875.00
1.6	636.00	Each	Tesla Megapack Retirement	1,162.80	0.55	Detail	U.S. Dollar	9,439.61	6,003,594.05
1.6.1	636.00	Each	Transformer Removal	127.20	5.00	Detail	U.S. Dollar	455.80	289,886.66
1.6.1.1	636.00	Each	Disconnect Electrical	63.60	10.00	Detail	U.S. Dollar	108.56	69,043.42
Resource Code	Description		Hours	Quantity	UM	Currency		Unit Cost	Total Cost
L010110	ELECTRICIAN		636.00	1.00	Each (hourly)	U.S. Dollar		55.99	35,609.23
L060100	GENERAL LABORER		636.00	1.00	Each (hourly)	U.S. Dollar		40.69	25,878.51
RPUTRK05	F-250 4X4 3/4 TON PICKUP		636.00	1.00	Each (hourly)	U.S. Dollar		11.88	7,555.68
1.6.1.2	636.00	Each	Loadout Transformer	63.60	10.00	Detail	U.S. Dollar	284.54	180,968.25
Resource Code	Description		Hours	Quantity	UM	Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER		2,544.00	4.00	Each (hourly)	U.S. Dollar		40.69	103,514.04
L010101	OPERATOR		636.00	1.00	Each (hourly)	U.S. Dollar		51.71	32,889.69
RHYDCR06	GROVE RT880 73 TON		636.00	1.00	Each (hourly)	U.S. Dollar		70.07	44,564.52

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1.6.1.3	29.00 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	39,875.00

Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub		39,875.00 Each	U.S. Dollar	1.00	39,875.00

1.6.2	43,683.00 GL	Removal & Disposal - Ethylene Glycol From Megapacks	174.73	250.00	Detail	U.S. Dollar	12.50	545,917.41
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
L010101	OPERATOR	1,747.32	1.00 Each (hourly)	U.S. Dollar	51.71	90,359.77
L060100	GENERAL LABORER	6,989.28	4.00 Each (hourly)	U.S. Dollar	40.69	284,390.17
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	1,747.32	1.00 Each (hourly)	U.S. Dollar	22.96	40,118.47
USTDOIL	T&D of Oil & Glycol		43,683.00 Gallon	U.S. Dollar	3.00	131,049.00

Notes: *****
 Assume 20 l per battery module, 13 modules per Megapack, 636 Megapacks = 165,360 l / 43,683 gallons
 Assumed production: 250 gallons per day

1.6.3	8,268.00 EA	Removal & Loadout - Battery Modules	413.40	20.00	Detail	U.S. Dollar	156.05	1,290,240.50
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
L010101	OPERATOR	8,268.00	2.00 Each (hourly)	U.S. Dollar	51.71	427,565.98
L060100	GENERAL LABORER	16,536.00	4.00 Each (hourly)	U.S. Dollar	40.69	672,841.24
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	8,268.00	2.00 Each (hourly)	U.S. Dollar	22.96	189,833.28

Notes: *****
 Assume 13 modules per Megapack

1.6.4	636.00 EA	Process And Loadout	318.00	2.00	Detail	U.S. Dollar	2,318.73	1,474,711.20
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
L010101	OPERATOR	6,360.00	2.00 Each (hourly)	U.S. Dollar	51.71	328,896.91
L060100	GENERAL LABORER	6,360.00	2.00 Each (hourly)	U.S. Dollar	40.69	258,785.09
REXSCAV04	Excavator with Shear	3,180.00	1.00 Each (hourly)	U.S. Dollar	139.47	443,514.60
REXCAV03	Excavator with Bucket and Grapple	3,180.00	1.00 Each (hourly)	U.S. Dollar	139.47	443,514.60

1.6.5	636.00 TN	T&D - Misc Waste	0.00	0.00	Detail	U.S. Dollar	100.00	63,600.00
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
UST&D03	T&D of Construction Debris		636.00 Ton	U.S. Dollar	100.00	63,600.00

1.6.6	2,544.00 TN	Transport Scrap	0.00	0.00	Detail	U.S. Dollar	35.00	89,040.00
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
USTDSTEEL	T&D - Steel		2,544.00 Ton	U.S. Dollar	35.00	89,040.00

1.6.7	9,927.96 TN	Transport Battery Modules To Telsa	0.00	0.00	Detail	U.S. Dollar	200.00	1,985,592.00
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
USTDINSUL	Battery Transport		9,927.96 Ton	U.S. Dollar	200.00	1,985,592.00

1.6.8	636.00 Each	Remove Foundations To Subgrade	129.47	4.91	Detail	U.S. Dollar	416.05	264,606.28
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Notes: *****
 Assumption: 10.5 x37x1 concrete pad per inverter/transformer

1.6.8.1	9,540.00 Cubic Yard	Excavate / Remove Foundation	34.07	280.00	Detail	U.S. Dollar	15.71	149,902.76
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
L060100	GENERAL LABORER	340.71	1.00 Each (hourly)	U.S. Dollar	40.69	13,863.49
L010101	OPERATOR	681.43	2.00 Each (hourly)	U.S. Dollar	51.71	35,238.95
*REXCAV06C	Excav 100K w/ Hammer	340.71	1.00 Each (hourly)	U.S. Dollar	166.14	56,606.27

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
*REXCAV06A	Excav 100K w/ Bucket & Grapple	340.71	1.00	Each (hourly)	U.S. Dollar		129.71	44,194.05
1.6.8.2	9,540.00 Cubic Yard	Concrete Transport Offsite	95.40	100.00	Detail	U.S. Dollar	12.02	114,703.52
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
RDUTRK06	CAT D350D, 18CY-24CY	954.00	1.00	Each (hourly)	U.S. Dollar		76.71	73,181.34
L080940	TEAMSTER	954.00	1.00	Each (hourly)	U.S. Dollar		43.52	41,522.18
1.7	1.00 Lump Sum	Site Restoration - Partial Site Seeding	217.22	0.00	Detail	U.S. Dollar	1,104,230.75	1,104,230.75
1.7.1	183,794.00 Linear Feet	Strip & Decompact Roads	73.52	2,500.00	Detail	U.S. Dollar	1.43	262,134.39
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
*RDOZER08	CAT D6 LGP Dozer	1,470.35	2.00	Each (hourly)	U.S. Dollar		60.82	89,426.81
L010101	OPERATOR	2,205.53	3.00	Each (hourly)	U.S. Dollar		51.71	114,055.24
*RFELWH08C	CAT 980 LOADER	735.18	1.00	Each (hourly)	U.S. Dollar		79.78	58,652.34
Notes: ***** Decompaction to include discing and regrading Assume removed road base transported offsite at no charge *****								
1.7.2	122.00 Each	Removal & Disposal, Drainage Crossings	12.20	10.00	Detail	U.S. Dollar	206.01	25,133.65
1.7.2.1	122.00 Each	Remove Drainage Crossings	12.20	10.00	Detail	U.S. Dollar	181.42	22,133.65
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
*REXCAV06A	Excav 100K w/ Bucket & Grapple	122.00	1.00	Each (hourly)	U.S. Dollar		129.71	15,824.62
L010101	OPERATOR	122.00	1.00	Each (hourly)	U.S. Dollar		51.71	6,309.03
1.7.2.2	30.00 TN	T&D - Misc Waste	0.00	0.00	Detail	U.S. Dollar	100.00	3,000.00
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
UST&D03	T&D of Construction Debris		30.00	Ton	U.S. Dollar		100.00	3,000.00
1.7.3	1,052.00 Acre	Spot Grade Disturbed Areas	131.50	8.00	Detail	U.S. Dollar	281.33	295,962.71
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
*RDOZER08	CAT D6 LGP Dozer	2,630.00	2.00	Each (hourly)	U.S. Dollar		60.82	159,956.60
L010101	OPERATOR	2,630.00	2.00	Each (hourly)	U.S. Dollar		51.71	136,006.11
Notes: ***** Assumption: 2,975 acres total property area. Assume that 35% of the area disturbed by construction will be regraded. *****								
1.7.4	1,042.00 Acre	Re-Seed With Native Vegetation - Roads & Areas Disturbed By Construction	0.00	0.00	Detail	U.S. Dollar	500.00	521,000.00
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
USLANDSCAPE	Landscape Sub		1,042.00	Acre	U.S. Dollar		500.00	521,000.00
Notes: ***** Assumption: 2,975 acres total property area. Assume that 35% of the area disturbed by construction will be re-seeded. *****								
1.8	1.00 Lump Sum	Contractor Markups	0.00	0.00	Detail	U.S. Dollar	4,411,368.49	4,411,368.49
1.8.1	1.00 Lump Sum	Home Office, Project Management (5% Of Cost)	0.00	0.00	Detail	U.S. Dollar	1,182,672.50	1,182,672.50
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
USMARKUP5	5% Markup		23,653,450.00	Each	U.S. Dollar		0.05	1,182,672.50
1.8.2	1.00 Lump Sum	Contractor OH & Fee (13% Of Cost)	0.00	0.00	Detail	U.S. Dollar	3,228,695.99	3,228,695.99
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
USMARKUP	13% Markup		24,836,123.00	Each		U.S. Dollar	0.13	3,228,695.99
1.9	1.00 Lump Sum	Scrap Metal Credit	0.00	0.00	Detail	U.S. Dollar	(5,255,540.00)	(5,255,540.00)
1.9.1	180.00 Ton	Scrap Credit - Substation	0.00	0.00	Detail	U.S. Dollar	(380.00)	(68,400.00)
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
UODCFERROUS	Ferrous Metal Scrap		180.00 Ton	U.S. Dollar	(380.00)	(68,400.00)		
1.9.2	45.00 Ton	Scrap Credit - T-Line Structures	0.00	0.00	Detail	U.S. Dollar	(380.00)	(17,100.00)
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
UODCFERROUS	Ferrous Metal Scrap		45.00 Ton	U.S. Dollar	(380.00)	(17,100.00)		
Notes: ***** Assume 9 ton per steel structure and cable span *****								
1.9.3	770.00 Ton	Scrap Credit - Fence	0.00	0.00	Detail	U.S. Dollar	(380.00)	(292,600.00)
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
UODCFERROUS	Ferrous Metal Scrap		770.00 Ton	U.S. Dollar	(380.00)	(292,600.00)		
Notes: ***** Assume 8 lbs per ft fence & posts *****								
1.9.4	3,616.00 Ton	Scrap Credit - Megapack / Transformer	0.00	0.00	Detail	U.S. Dollar	(380.00)	(1,374,080.00)
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
UODCFERROUS	Ferrous Metal Scrap		3,616.00 Ton	U.S. Dollar	(380.00)	(1,374,080.00)		
Notes: ***** Assume 6 ton per Megapack / Transformer *****								
1.9.5	6,325.00 Ton	Scrap Credit - Module Rack	0.00	0.00	Detail	U.S. Dollar	(380.00)	(2,403,500.00)
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
UODCFERROUS	Ferrous Metal Scrap		6,325.00 Ton	U.S. Dollar	(380.00)	(2,403,500.00)		
Notes: ***** Assume 800 Lbs per rack w/ piles *****								
1.9.6	39.00 Ton	Scrap Credit - O&M Structure	0.00	0.00	Detail	U.S. Dollar	(380.00)	(14,820.00)
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
UODCFERROUS	Ferrous Metal Scrap		39.00 Ton	U.S. Dollar	(380.00)	(14,820.00)		
1.9.7	198.00 Ton	Scrap Credit - Cable	0.00	0.00	Detail	U.S. Dollar	(5,480.00)	(1,085,040.00)
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
UODCCOP	Copper Scrap		198.00 Ton	U.S. Dollar	(5,480.00)	(1,085,040.00)		
Notes: ***** Assume .10 lbs per lf *****								
Report Total:			2,398.19					22,809,278.77

Category	Total
Labor	9,550,230.42
Rented Equipment	5,756,868.86
Supplies	4,260.00
Materials	40,000.00
Subcontract	12,711,259.49
ODCs	2,200.00
Scrap Credit	(5,255,540.00)