

Exhibit X

Facility Retirement and Site Restoration

**Biglow Canyon Wind Farm
February 2025**

Prepared for



Portland General Electric Company

Prepared by



TETRA TECH

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Attachment X-1. Estimated Retirement and Restoration Cost

Acronyms and Abbreviations

AC	alternating current
BCWF or Existing Facility	Biglow Canyon Wind Farm
BESS	battery energy storage system
BIGL or Project Developer	BIGL bn, LLC
Certificate Holder or PGE	Portland General Electric Company
Council or EFSC	Oregon Energy Facility Siting Council
MW	megawatt
O&M	operations and maintenance
OAR	Oregon Administrative Rules
ODOE	Oregon Department of Energy
RFA	Request for Amendment
Site Certificate	Site Certificate on Amendment 3
Solar Components	photovoltaic solar energy generation and battery storage

1.0 Introduction

The Portland General Electric Company (PGE or Certificate Holder) submits this Request for Amendment (RFA) 4 to the Site Certificate on Amendment 3, issued October 31, 2008 (Site Certificate), for the Biglow Canyon Wind Farm (BCWF or Existing Facility) to add photovoltaic solar energy generation and battery storage (Solar Components) to the operating BCWF.

BCWF, owned and operated by PGE, is located within an approved site boundary comprising approximately 25,000 acres, approximately 2.5 miles northeast of the town of Wasco in Sherman County, Oregon. The BCWF operates under the Site Certificate from the Oregon Energy Facility Siting Council (Council or EFSC) as administered by the Oregon Department of Energy (ODOE). BCWF currently consists of 217 wind turbines, with a maximum blade tip height of 445 feet, and a peak generating capacity of 450 megawatts (MW).

In RFA 4, PGE proposes to add up to 385 MW alternating current (AC) generating capacity from photovoltaic solar arrays and 375 MW in battery storage capacity. RFA 4 seeks to expand the BCWF site boundary to include the Solar Components in portions of the existing site boundary and in the proposed expanded site boundary (together, Solar Micrositing Area or RFA 4 Site Boundary¹).

The Solar Micrositing Area is approximately 3,980 acres and provides a conservative estimate of the maximum area needed for development, micrositing, and temporary disturbances from the Solar Components during construction, rather than the anticipated disturbance footprint. Solar Components will include solar arrays, inverters, battery energy storage system (BESS) facilities and their subcomponents (i.e., inverters), two collector substations, a total of approximately 3 miles of 230-kilovolt generation tie transmission lines, medium voltage collector lines, operations and maintenance (O&M) structures, site access roads, internal roads, perimeter fencing, facility entry gates, and temporary laydown areas. The maximum generating capacity from the Solar Components will be 385 MW AC and construction may take place in phases.

PGE will own and operate the Solar Components as a part of the BCWF (together, Amended Facility or Facility), which, to date, have been developed by BIGL bn, LLC (BIGL or Project Developer). BIGL, in its capacity as the project developer, supports PGE in this RFA 4 and may construct and temporarily operate the Solar Components on behalf of PGE under a Build-Transfer Agreement.

This Exhibit X provides the information required by Oregon Administrative Rules (OAR) 345-021-0010(1)(x) in support of RFA 4. The information summarized in this exhibit and described in RFA 4 demonstrate that the Facility, as proposed, can be designed, engineered, constructed, operated, and retired in a manner that satisfies the applicable Council standards. The proposed changes in RFA 4 do not alter the Certificate Holder's ability to comply with applicable Site Certificate Conditions.

¹ Note, as described in further detail in Section 4.1.1.2 of the RFA 4 Division 27 document, the Solar Micrositing Area is the equivalent of the RFA 4 Site Boundary.

The focus of this exhibit is on retirement and restoration of the Solar Micrositing Area to a useful non-hazardous condition. The exhibit does not address retirement and restoration of the BCFW infrastructure and facilities previously approved by the Council.²

2.0 Estimated Useful Life of the Project – OAR 345-021-0010(1)(x)(A)

OAR 345-021-0010(1)(x) Information about site restoration, providing evidence to support a finding by the Council as required by OAR 345-022-0050(1). The applicant must include:

OAR 345-021-0010(1)(x)(A) The estimated useful life of the proposed facility;

Response: For financial and engineering purposes, the Solar Components are estimated to have a useful life of at least 40 years. While some components may need replacement during the operational life of the Project, these activities are anticipated to be routine. At the end of the estimated 40-year operational life, the Solar Components may be decommissioned. The Solar Components useful life could be extended if equipment continues to function well with routine maintenance or it could be repowered with updated equipment in the same locations.

While retirement of the Solar Components is possible, the need for renewable energy generation is expected to increase into the foreseeable future. Substantial changes to the Solar Components associated with repowering or upgrading, if warranted, may be approved by the Council through the Site Certificate amendment procedures outlined in OAR Chapter 345 Division 27.

3.0 Actions to Restore the Site – OAR 345-021-0010(1)(x)(B)

OAR 345-021-0010(1)(x)(B) Specific actions and tasks to restore the site to a useful, non-hazardous condition;

Response: In accordance with Site Certificate Conditions 107-109, prior to retiring the Solar Components, the Certificate Holder will prepare and submit a Retirement Plan to the Council for approval (Council 2006).³ The Retirement Plan will describe the activities necessary to restore the site to a useful, nonhazardous condition. After Council approval of the Retirement Plan, the Certificate Holder will obtain the necessary authorization from the appropriate regulatory agencies to proceed with restoration of the site.

The proposed final Retirement Plan will include the following specific information as required by OAR 345-027-0110(5):

² Final Order on Application for Site Certificate for the Biglow Canyon Wind Farm, p. 18-28 (Council 2006).

³ If both the BCWF and the Solar Components are retired at the same time, the retirement plan may address retirement of both (e.g. a separate retirement plan may not be prepared for each).

- Measures to complete retirement while protecting public health, safety, and the environment.
- Information on how impacts to fish, wildlife, and the environment will be minimized during the retirement process.
- A current detailed cost estimate and information on funding for completion of retirement.
- An updated list of property owners in accordance with OAR 345-021-0010(1)(f).

Measures to decommission the Solar Micrositing Area are anticipated to include the following:

- **Removal of all facilities.** Facilities to be removed will include aboveground solar and battery components, inverter and transformer pads, O&M buildings, the overhead collector line segment, the 0.25-mile and 2.7-mile-long transmission lines connecting the collector substations to the existing Biglow Canyon substation, collector substations, and perimeter fencing.
 - Underground electrical cable will be removed to its lateral depth; buried lateral runs are assumed to be a minimum of 3 feet deep and will be abandoned in place.
 - Solar modules will be separated from the racking and loaded into a truck or roll-off container for off-site disposal or recycling.
 - Posts will be removed from the ground and recycled as scrap metal.
 - Transformers will be decommissioned and disposed of off-site.
 - Self-contained battery components will be removed, transported, and disposed of or recycled.
 - Battery containers and associated components will be disassembled and transported off-site via truck for disposal or recycling. Materials that cannot be salvaged will be disposed of at authorized sites (as described in Exhibit W).
 - Concrete foundations for transformers, inverters, and battery storage system are assumed to be slab on grade; thus, they will be removed in their entirety. For all foundation areas, the area will be filled with soil or gravel as part of site restoration.
- **Removal of access roads.** Decommissioned roads within the solar perimeter fencing will be regraded to restore the surface soil to a useful condition consistent with site zoning. For purposes of estimating current reclamation costs, it is assumed that pre-existing roads will not be decommissioned, but new access roads built for the Solar Components will be decommissioned.
- **Site Restoration.** All Solar Micrositing Area locations will be restored to a useful condition consistent with site zoning. The restoration work will include restoring the site to a condition suitable for agricultural uses in the Exclusive Farm Use zoning district and uses comparable with surrounding land uses.

- **Revegetation.** Vegetation will be restored to the maximum extent practicable, and all areas disturbed during decommissioning will be restored in a manner compatible with surrounding land uses. Disturbed areas will be regraded as necessary and reseeded with appropriate seed mixes, consistent with the Amended Revegetation and Noxious Weed Control Plan (see Exhibit P).

4.0 Total Costs, Estimating Methods, and Assumptions

4.1 Estimate of Cost – OAR 345-021-0010(1)(x)(C)

OAR 345-021-0010(1)(x)(C) An estimate, in current dollars, of the total and unit costs of restoring the site to a useful, non-hazardous condition;

Response: Attachment X-1 provides a detailed retirement and restoration cost estimate for the Solar Components and Solar Micrositing Area. The total retirement and restoration cost of retirement and restoration for the Solar Components is \$32,604,249.77 (in Q4 2024 dollars; see Attachment X-1).

4.2 Estimating Methods and Assumptions – OAR 345-021-0010(1)(x)(D)

OAR 345-021-0010(1)(x)(D) A discussion and justification of the methods and assumptions used to estimate site restoration costs; and

Response: The scope of work and individual tasks were established using professional experience, in collaboration with the Certificate Holder's engineering staff and contractors. The Solar Components retirement is broken into individual tasks that were each estimated separately to include labor requirements, equipment needs, and duration. Production rates were established using professional experience and published standards that include RS Means (Gordian 2024). Labor and equipment rates prevalent to the geographic area of the Solar Micrositing Area were obtained based on U.S. Department of Labor wage determinations. After the estimate was completed, typical average markups that are industry standards were applied for contingency, overhead, and fee.

Estimating methods and assumptions specific to this estimate are as follows:

- Labor costs were developed by reviewing the U.S. Department of Labor wage determinations and rates published by RS Means. Using this method, an average rate is developed that includes base wage, fringe, and payroll tax liability. The final rate used in the estimate is an average of 40 hours of standard time and 10 hours of overtime per week, assuming a 50-hour work week during decommissioning activities.
- Equipment rates used in the estimate are developed by reviewing rates published by RS Means and historical vendor quotes. Rates include fuel, maintenance, and wear and tear of ground-engaging components. The rates assume the use of rental equipment, not owned equipment.

- Mobilization and demobilization costs reflect the actual costs to mobilize equipment, facilities, and crew to the Solar Micrositing Area and Solar Components. This amount does not include the front loading of cost from other tasks.
- Restoration is estimated on a unit cost basis, priced by task that follows the progression of work from start to finish, as illustrated in Attachment X-1. Unit costs are developed by including the labor, equipment, and production rate required for each individual task. RS Means and estimator experience are utilized to establish the crew, equipment, and production for each individual task. Several other miscellaneous costs have been approximated, including permits, engineering, signage, fencing, traffic control, utility disconnects, etc. In the context of the overall estimate, these are incidental costs that are covered in the estimate's contingency.
- Temporary facilities including one office trailer and one Conex storage unit have been included in the restoration cost. Additional management costs include portable toilets, first aid supplies, and office supplies.
- Field management during decommissioning activities has been included in the estimate. These include one Superintendent and one Field Engineer. These positions are critical to the safe and successful execution of work.
- The two collector substations will be removed in their entirety. This will include fence removal, transformer oil removal and disposal, transformer dismantling and removal, control building demolition and removal, concrete foundation demolition and removal to at least 4 feet below grade, and miscellaneous materials removal. Transformer oil will be disposed of in accordance with applicable state and federal regulations. For cost estimating purposes, disposal is estimated at \$4 per gallon (2024 dollars). Topsoil will be placed and the area will be reseeded.
- The O&M building will be demolished and transported off-site for disposal. The foundation will be removed to a minimum of 3 feet below grade, and the area will be regraded and reseeded.
- Roads within the solar perimeter fences will be restored so that they become a part of the natural surroundings and are no longer recognizable or usable as a road, unless landowner(s) request they remain in place. Road gravel will be used to backfill locations where needed. It is expected that the remaining road gravel will be accepted by local receivers with no additional disposal cost.
- Battery energy storage materials will be removed and transported off-site for recycling or disposal in accordance with applicable regulatory requirements. For cost estimating purposes, it is assumed that batteries will need to be recycled off-site, with transportation fees of \$2,000 per trip in 2024 dollars. Refrigerant associated with heating, ventilation, and air conditioning systems will be recovered in accordance with applicable state and federal regulations. Concrete foundations are assumed to be at-grade slabs and will be fully removed.

- Removal of solar arrays will consist of fence removal, solar panel removal and disposal, and removal of electrical cabling to 3 feet below grade.
- Solar panels will be removed from the racking systems and hauled off-site for recycling or disposal. For cost estimating purposes, it is assumed that panels will not have any scrap value and disposal fees will be required.
- Underground electrical cable will be removed to its lateral depth; lateral runs are assumed to be a minimum of 3 feet deep and will be abandoned in place.
- Racking systems and posts will require off-site disposal and are assumed to have no scrap value but will require disposal fees.
- Inverters and transformers will be removed, and their slab foundations will be removed in their entirety.
- Site restoration will include the placement of salvaged topsoil on disturbed areas.
- Reseeding is assumed to be required for the collector substation, along with an estimated 35 percent of the areas where solar panels and associated facilities will be removed (525 acres). For cost estimating purposes, it is assumed that final seeding will utilize a mix of native grasses. Actual seed mix will be determined by the Solar Component Revegetation Plan approved by ODOE.
- A contractor's Home Office, Project Management, Overhead, and Fee can vary widely by contractor. As such, averages were developed for the estimate and added as a percentage of total cost. These include 5 percent for Home Office and Project Management and 13 percent for Contractor Overhead and Fee.
- ODOE could incur additional costs in the case where the Certificate Holder is unable to manage the decommissioning process. Additional contingencies are included in the restoration costs for ODOE-incurred costs, including a 1 percent Performance Bond, 10 percent Administrative and Project Management fee, and 10 percent Future Development contingency.

The Certificate Holder's proposed cost estimate will be sufficient to fund the restoration of the Solar Micrositing Area to a useful, nonhazardous condition (per Site Certificate Conditions 107-109). Please see Exhibit M for information on the security the Certificate Holder will provide to cover this amount.

5.0 Monitoring Plan – OAR 345-021-0010(1)(x)(E)

OAR 345-021-0010(1)(x)(E) For facilities that might produce site contamination by hazardous materials, a proposed monitoring plan, such as periodic environmental site assessment and reporting, or an explanation why a monitoring plan is unnecessary.

Response: In the event that the Certificate Holder elects to retire the Solar Components, the site will be restored to a useful, non-hazardous condition consistent with site zoning and in accordance with the final Retirement Plan approved by the Council (see Section 3.0). The Solar Components are not expected to cause site contamination with hazardous materials, and no contamination monitoring plan is proposed. The Solar Components can be removed without significant risk of contamination.

Hazardous materials associated with the Solar Components will largely be limited to internal battery components, which would be removed by an authorized vendor prior to removing the equipment. The Solar Micrositing Area will not have any underground storage tanks or on-site bulk storage of hazardous materials. Small quantities of lubricants, vehicle fuel, and herbicides might be transported over and across the site during operation, and leaks, spills and improper handling of these materials could occur. Given the small amounts of such materials used at the Amended Biglow Canyon Wind Farm site, soil contamination is unlikely, and therefore a monitoring plan is unnecessary.

6.0 References

Council (Energy Facility Siting Council). 2006. Final Order, Application for a Site Certificate for the Biglow Canyon Wind Farm. Energy Facility Siting Council, Salem, Oregon. June 30, 2006.

https://www.oregon.gov/energy/facilities-safety/facilities/Facilities%20library/BCW_final_order_063006.pdf

Gordian. 2024. RSMeans Data. Greenville, South Carolina.

<https://www.gordian.com/products/rsmeans-data-services/>. Accessed October 2024.

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Attachment X-1. Estimated Retirement and Restoration Cost

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Estimate Summary**TETRA TECH EC, INC.****Job Code: Bright Night Biglow****Description: Decommissioning Estimate**

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1	1.00 Lump Sum	BRIGHT NIGHT BIGLOW SOLAR RETIREMENT	0.00	Detail	U.S. Dollar	32,604,249.77	32,604,249.77
1.1	1.00 Lump Sum	Equipment & Facilities Mob / Demob	0.20	Detail	U.S. Dollar	131,143.17	131,143.17
1.1.1	1.00 Lump Sum	Equipment Mob	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	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	1.00	Detail	U.S. Dollar	13,548.63	40,645.90
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	720.00	24.00 Each (hourly)	U.S. Dollar	43.52	31,337.50	
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	1.00	Detail	U.S. Dollar	13,548.63	27,097.27
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	480.00	24.00 Each (hourly)	U.S. Dollar	43.52	20,891.66	
L010101	OPERATOR	120.00	6.00 Each (hourly)	U.S. Dollar	51.71	6,205.60	
1.2	12.00 Month	Project Site Support	0.05	Detail	U.S. Dollar	56,701.60	680,419.15
1.2.1	12.00 Month	Site Facilities	0.00	Detail	U.S. Dollar	2,205.00	26,460.00
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	
UO1STAD	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)		48.00 Month	U.S. Dollar	300.00	14,400.00	
1.2.2	12.00 Month	Field Management	0.05	Detail	U.S. Dollar	54,496.60	653,959.15
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	125.40	331,056.00	
RPUTRK05	F-250 4X4 3/4 TON PICKUP	5,280.00	2.00 Each (hourly)	U.S. Dollar	11.88	62,726.40	
L90FEL00	Field - Engr. Tech	2,640.00	1.00 Each (hourly)	U.S. Dollar	98.55	260,176.75	
1.3	2.00 Each	Substation Retirement	0.03	Detail	U.S. Dollar	250,886.06	501,772.13
1.3.1	2.00 Day	Fence Removal	1.00	Detail	U.S. Dollar	1,305.08	2,610.15
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	43.52	870.49	
RBACKH09	Deere 710J BACKHOE, 1.62CY	20.00	1.00 Each (hourly)	U.S. Dollar	35.27	705.40	
1.3.2	4.00 Each	Transformer Removal	0.17	Detail	U.S. Dollar	93,640.68	374,562.72
1.3.2.1	4.00 Each	Oil Removal & Disposal	1.00	Detail	U.S. Dollar	58,245.49	232,981.94

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1.3.2.1.1	4.00 Each	Oil Removal	1.00	Detail	U.S. Dollar	870.49	3,481.94
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	80.00	2.00 Each (hourly)	U.S. Dollar		43.52	3,481.94
1.3.2.1.2	56,000.00 Gallon	Oil Disposal	0.00	Detail	U.S. Dollar	4.00	224,000.00
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USDISPOSAL	Disposal Fee's		224,000.00 Each	U.S. Dollar		1.00	224,000.00
1.3.2.1.3	4.00 Each	Trucking - Per Load	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
1.3.2.2	4.00 Each	Dismantle & Loadout Transformer	0.20	Detail	U.S. Dollar	35,395.20	141,580.78
1.3.2.2.1	4.00 Each	Dismantle, Cut & Size	0.20	Detail	U.S. Dollar	29,895.20	119,580.78
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	800.00	4.00 Each (hourly)	U.S. Dollar		43.52	34,819.44
L010101	OPERATOR	400.00	2.00 Each (hourly)	U.S. Dollar		51.71	20,685.34
*REXCAV06A	Excav 100K w/ Bucket & Grapple	200.00	1.00 Each (hourly)	U.S. Dollar		129.71	25,942.00
*REXCAV06E	Excav 100K w/ Shear	200.00	1.00 Each (hourly)	U.S. Dollar		190.67	38,134.00
1.3.2.2.2	16.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,375.00	22,000.00
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USTRUCKING	Trucking Sub		22,000.00 Each	U.S. Dollar		1.00	22,000.00
1.3.3	2.00 Each	Remove Control Building & Switchgear	1.00	Detail	U.S. Dollar	4,999.48	9,998.95
1.3.3.1	2.00 Each	Demo	1.00	Detail	U.S. Dollar	2,249.48	4,498.95
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	20.00	1.00 Each (hourly)	U.S. Dollar		43.52	870.49
L010101	OPERATOR	20.00	1.00 Each (hourly)	U.S. Dollar		51.71	1,034.27
*REXCAV06A	Excav 100K w/ Bucket & Grapple	20.00	1.00 Each (hourly)	U.S. Dollar		129.71	2,594.20
1.3.3.2	4.00 Each	Trucking - Per Load	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
1.3.4	4.00 Day	UG Utility & Ground Removal	1.00	Detail	U.S. Dollar	1,305.08	5,220.31
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L010101	OPERATOR	40.00	1.00 Each (hourly)	U.S. Dollar		51.71	2,068.53
L060100	GENERAL LABORER	40.00	1.00 Each (hourly)	U.S. Dollar		43.52	1,740.97
RBACKH09	Deere 710J BACKHOE, 1.62CY	40.00	1.00 Each (hourly)	U.S. Dollar		35.27	1,410.80
1.3.5	1,000.00 Cubic Yard	Remove Foundations To Subgrade	60.00	Detail	U.S. Dollar	41.54	41,543.50
1.3.5.1	1,000.00 Cubic Yard	Excavate / Remove Foundation - Various Depth	150.00	Detail	U.S. Dollar	29.52	29,520.07
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	66.67	1.00 Each (hourly)	U.S. Dollar		43.52	2,901.62
L010101	OPERATOR	133.33	2.00 Each (hourly)	U.S. Dollar		51.71	6,895.11
*REXCAV06C	Excav 100K w/ Hammer	66.67	1.00 Each (hourly)	U.S. Dollar		166.14	11,076.00

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
*REXCAV06A	Excav 100K w/ Bucket & Grapple	66.67	1.00 Each (hourly)	U.S. Dollar		129.71	8,647.33
1.3.5.2	1,000.00 Cubic Yard	Concrete Transport Offsite	100.00	Detail	U.S. Dollar	12.02	12,023.43
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
RDUTRK06	CAT D350D, 18CY-24CY	100.00	1.00 Each (hourly)	U.S. Dollar		76.71	7,671.00
L080940	TEAMSTER	100.00	1.00 Each (hourly)	U.S. Dollar		43.52	4,352.43
1.3.6	1.00 Lump Sum	Misc. Material Disposal	0.00	Detail	U.S. Dollar	2,075.00	2,075.00
1.3.6.1	1.00 Each	Trucking - Per Load	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
1.3.6.2	10.00 Ton	Disposal Cost	0.00	Detail	U.S. Dollar	70.00	700.00
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USDISPOSAL	Disposal Fee's		700.00 Each	U.S. Dollar		1.00	700.00
1.3.7	1.00 Lump Sum	Restore Yard	0.12	Detail	U.S. Dollar	65,761.49	65,761.49
1.3.7.1	4.00 Acre	Backfill / Regrade	2.00	Detail	U.S. Dollar	1,654.59	6,618.38
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	40.00	2.00 Each (hourly)	U.S. Dollar		43.52	1,740.97
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
1.3.7.2	2,000.00 Cubic Yard	Vegetative Cover	300.00	Detail	U.S. Dollar	27.57	55,143.11
1.3.7.2.1	2,000.00 Cubic Yard	Topsoil, Delivered	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
1.3.7.2.2	2,000.00 Cubic Yard	Placement	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
1.3.7.3	4.00 Acre	Re-Seed With Native Vegetation	0.00	Detail	U.S. Dollar	1,000.00	4,000.00
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USLANDSCAPE	Landscape Sub		4.00 Acre	U.S. Dollar		1,000.00	4,000.00
1.4	1.00 Lump Sum	Transmission Line Retirement	0.03	Detail	U.S. Dollar	141,340.01	141,340.01
1.4.1	23.00 Each	Structure Removal	1.00	Detail	U.S. Dollar	4,651.74	106,990.02
1.4.1.1	23.00 Each	Cut / Lower Structure	2.00	Detail	U.S. Dollar	1,886.75	43,395.31
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	460.00	4.00 Each (hourly)	U.S. Dollar		43.52	20,021.18
L010101	OPERATOR	115.00	1.00 Each (hourly)	U.S. Dollar		51.71	5,947.04
*RXMISC14	MAN LIFT GAS 125ft	115.00	1.00 Each (hourly)	U.S. Dollar		54.88	6,311.20
*RXMISC23	GROVE RT 200 TON	115.00	1.00 Each (hourly)	U.S. Dollar		96.66	11,115.90
1.4.1.2	23.00 Each	Cut / Size Structure & Loadout	2.00	Detail	U.S. Dollar	2,047.60	47,094.70
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	690.00	6.00 Each (hourly)	U.S. Dollar		43.52	30,031.77

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
L010101	OPERATOR	115.00	1.00 Each (hourly)	U.S. Dollar		51.71	5,947.04
*RXMISC23	GROVE RT 200 TON	115.00	1.00 Each (hourly)	U.S. Dollar		96.66	11,115.90
1.4.1.3	12.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,375.00	16,500.00
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USTRUCKING	Trucking Sub		16,500.00 Each	U.S. Dollar		1.00	16,500.00
1.4.2	23.00 Each	Remove Foundations To Subgrade	3.04	Detail	U.S. Dollar	1,493.48	34,349.99
1.4.2.1	23.00 Each	Excavate / Remove Foundation - Various Depth	3.33	Detail	U.S. Dollar	1,458.98	33,556.45
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	138.00	2.00 Each (hourly)	U.S. Dollar		43.52	6,006.35
L010101	OPERATOR	138.00	2.00 Each (hourly)	U.S. Dollar		51.71	7,136.44
*REXCAV06C	Excav 100K w/ Hammer	69.00	1.00 Each (hourly)	U.S. Dollar		166.14	11,463.66
*REXCAV06A	Excav 100K w/ Bucket & Grapple	69.00	1.00 Each (hourly)	U.S. Dollar		129.71	8,949.99
1.4.2.2	66.00 Cubic Yard	Concrete Transport Offsite	100.00	Detail	U.S. Dollar	12.02	793.55
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
RDUTRK06	CAT D350D, 18CY-24CY	6.60	1.00 Each (hourly)	U.S. Dollar		76.71	506.29
L080940	TEAMSTER	6.60	1.00 Each (hourly)	U.S. Dollar		43.52	287.26
1.5	1.00 Lump Sum	O&M Building Removal	0.19	Detail	U.S. Dollar	21,345.81	21,345.81
1.5.1	40.00 Ton	Structure Demo	20.00	Detail	U.S. Dollar	255.43	10,217.11
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		43.52	1,740.97
Notes: ***** Assume steel structure *****							
1.5.2	200.00 Cubic Yard	Remove Foundations To Subgrade	60.00	Detail	U.S. Dollar	41.54	8,308.70
1.5.2.1	200.00 Cubic Yard	Excavate / Remove Foundation - Various Depth	150.00	Detail	U.S. Dollar	29.52	5,904.01
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	13.33	1.00 Each (hourly)	U.S. Dollar		43.52	580.32
L010101	OPERATOR	26.67	2.00 Each (hourly)	U.S. Dollar		51.71	1,379.02
*REXCAV06C	Excav 100K w/ Hammer	13.33	1.00 Each (hourly)	U.S. Dollar		166.14	2,215.20
*REXCAV06A	Excav 100K w/ Bucket & Grapple	13.33	1.00 Each (hourly)	U.S. Dollar		129.71	1,729.47
1.5.2.2	200.00 Cubic Yard	Concrete Transport Offsite	100.00	Detail	U.S. Dollar	12.02	2,404.69
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
1.5.3	2.00 Each	Trucking - Per Load	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 *****							
1.5.4	1.00 Ton	Disposal Cost	0.00	Detail	U.S. Dollar	70.00	70.00

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USDISPOSAL	Disposal Fee's		70.00 Each	U.S. Dollar		1.00	70.00
1.6	549.00 Each	BESS Unit Removal	0.82	Detail	U.S. Dollar	7,439.50	4,084,285.65
1.6.1	549.00 Each	BESS Unit Removal	1.00	Detail	U.S. Dollar	6,491.07	3,563,594.81
1.6.1.1	549.00 Each	Disconnect Electrical	10.00	Detail	U.S. Dollar	99.51	54,632.99
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L010110	ELECTRCIAN	549.00	1.00 Each (hourly)	U.S. Dollar		55.99	30,738.15
L060100	GENERAL LABORER	549.00	1.00 Each (hourly)	U.S. Dollar		43.52	23,894.84
1.6.1.2	41,057.69 Gallon	Glycol Recovery & Disposal	747.86	Detail	U.S. Dollar	3.63	149,242.10
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USLIQUID	Liquids T&D		41,057.69 Each	U.S. Dollar		1.00	41,057.69
L060100	GENERAL LABORER	2,196.00	4.00 Each (hourly)	U.S. Dollar		43.52	95,579.36
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	549.00	1.00 Each (hourly)	U.S. Dollar		22.96	12,605.04
1.6.1.3	549.00 Each	Battery Removal & Recycling	2.00	Detail	U.S. Dollar	2,985.29	1,638,922.01
1.6.1.3.1	274.50 Day	Remove Batteries, Load For Transport	1.00	Detail	U.S. Dollar	1,970.57	540,922.01
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	10,980.00	4.00 Each (hourly)	U.S. Dollar		43.52	477,896.81
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	2,745.00	1.00 Each (hourly)	U.S. Dollar		22.96	63,025.20
1.6.1.3.2	549.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	2,000.00	1,098,000.00
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USTRUCKING	Trucking Sub		1,098,000.00 Each	U.S. Dollar		1.00	1,098,000.00
1.6.1.4	549.00 Each	Unit Removal	3.33	Detail	U.S. Dollar	3,134.42	1,720,797.71
1.6.1.4.1	549.00 Each	Remove Misc Waste	5.00	Detail	U.S. Dollar	394.11	216,368.81
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	4,392.00	4.00 Each (hourly)	U.S. Dollar		43.52	191,158.73
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	1,098.00	1.00 Each (hourly)	U.S. Dollar		22.96	25,210.08
1.6.1.4.2	549.00 Each	Loadout Unit For Transport	10.00	Detail	U.S. Dollar	165.31	90,753.90
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
RHYDCR06	GROVE RT880 73 TON	549.00	1.00 Each (hourly)	U.S. Dollar		70.07	38,468.43
L010101	OPERATOR	549.00	1.00 Each (hourly)	U.S. Dollar		51.71	28,390.63
L060100	GENERAL LABORER	549.00	1.00 Each (hourly)	U.S. Dollar		43.52	23,894.84
1.6.1.4.3	549.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,375.00	754,875.00
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USTRUCKING	Trucking Sub		754,875.00 Each	U.S. Dollar		1.00	754,875.00
1.6.1.4.4	8,235.00 Ton	Waste Recyling & Disposal Cost	0.00	Detail	U.S. Dollar	80.00	658,800.00
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USDISPOSAL	Disposal Fee's		658,800.00 Each	U.S. Dollar		1.00	658,800.00
1.6.2	138.00 Each	Inverter Removal	3.33	Detail	U.S. Dollar	2,431.93	335,606.99
1.6.2.1	138.00 Each	Disconnect Electrical	10.00	Detail	U.S. Dollar	99.51	13,732.88

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L010110	ELECTRICIAN	138.00	1.00 Each (hourly)	U.S. Dollar		55.99	7,726.53
L060100	GENERAL LABORER	138.00	1.00 Each (hourly)	U.S. Dollar		43.52	6,006.35
1.6.2.2	138.00 Each	Remove Misc Waste	10.00	Detail	U.S. Dollar	197.06	27,193.89
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	552.00	4.00 Each (hourly)	U.S. Dollar		43.52	24,025.41
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	138.00	1.00 Each (hourly)	U.S. Dollar		22.96	3,168.48
1.6.2.3	138.00 Each	Loadout Inverter For Transport	10.00	Detail	U.S. Dollar	165.31	22,812.46
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
RHYDCR06	GROVE RT880 73 TON	138.00	1.00 Each (hourly)	U.S. Dollar		70.07	9,669.66
L010101	OPERATOR	138.00	1.00 Each (hourly)	U.S. Dollar		51.71	7,136.44
L060100	GENERAL LABORER	138.00	1.00 Each (hourly)	U.S. Dollar		43.52	6,006.35
1.6.2.4	1,026.47 Ton	Waste Recycling & Disposal Cost	0.00	Detail	U.S. Dollar	80.00	82,117.75
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USDISPOSAL	Disposal Fee's		82,117.75 Each	U.S. Dollar		1.00	82,117.75
1.6.2.5	138.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,375.00	189,750.00
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USTRUCKING	Trucking Sub		189,750.00 Each	U.S. Dollar		1.00	189,750.00
1.6.3	3,843.00 Cubic Yard	Concrete Pad Removal - BESS Units	60.00	Detail	U.S. Dollar	41.54	159,651.66
1.6.3.1	3,843.00 Cubic Yard	Excavate / Remove Foundation - Various Depth	150.00	Detail	U.S. Dollar	29.52	113,445.62
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	256.20	1.00 Each (hourly)	U.S. Dollar		43.52	11,150.93
L010101	OPERATOR	512.40	2.00 Each (hourly)	U.S. Dollar		51.71	26,497.92
*REXCAV06C	Excav 100K w/ Hammer	256.20	1.00 Each (hourly)	U.S. Dollar		166.14	42,565.07
*REXCAV06A	Excav 100K w/ Bucket & Grapple	256.20	1.00 Each (hourly)	U.S. Dollar		129.71	33,231.70
1.6.3.2	3,843.00 Cubic Yard	Concrete Transport Offsite	100.00	Detail	U.S. Dollar	12.02	46,206.04
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
RDUTRK06	CAT D350D, 18CY-24CY	384.30	1.00 Each (hourly)	U.S. Dollar		76.71	29,479.65
L080940	TEAMSTER	384.30	1.00 Each (hourly)	U.S. Dollar		43.52	16,726.39
1.6.4	138.00 Cubic Yard	Concrete Pad Removal - Inverters	60.00	Detail	U.S. Dollar	41.54	5,733.00
1.6.4.1	138.00 Cubic Yard	Excavate / Remove Foundation - Various Depth	150.00	Detail	U.S. Dollar	29.52	4,073.77
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	9.20	1.00 Each (hourly)	U.S. Dollar		43.52	400.42
L010101	OPERATOR	18.40	2.00 Each (hourly)	U.S. Dollar		51.71	951.53
*REXCAV06C	Excav 100K w/ Hammer	9.20	1.00 Each (hourly)	U.S. Dollar		166.14	1,528.49
*REXCAV06A	Excav 100K w/ Bucket & Grapple	9.20	1.00 Each (hourly)	U.S. Dollar		129.71	1,193.33
1.6.4.2	138.00 Cubic Yard	Concrete Transport Offsite	100.00	Detail	U.S. Dollar	12.02	1,659.23
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
RDUTRK06	CAT D350D, 18CY-24CY	13.80	1.00 Each (hourly)	U.S. Dollar		76.71	1,058.60
L080940	TEAMSTER	13.80	1.00 Each (hourly)	U.S. Dollar		43.52	600.64
1.6.5	10.00 Day	UG Cable Removal	1.00	Detail	U.S. Dollar	1,969.92	19,699.20
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
L010101	OPERATOR	100.00	1.00 Each (hourly)	U.S. Dollar		51.71	5,171.34
L060100	GENERAL LABORER	200.00	2.00 Each (hourly)	U.S. Dollar		43.52	8,704.86
RBACKH09	Deere 710J BACKHOE, 1.62CY	100.00	1.00 Each (hourly)	U.S. Dollar		35.27	3,527.00
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	100.00	1.00 Each (hourly)	U.S. Dollar		22.96	2,296.00
1.7	102.00 Each	Inverter / Transformer Removal	5.00	Detail	U.S. Dollar	1,007.73	102,788.01
1.7.1	102.00 Each	Disconnect Electrical	10.00	Detail	U.S. Dollar	111.39	11,362.15
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L010110	ELECTRICIAN	102.00	1.00 Each (hourly)	U.S. Dollar		55.99	5,710.91
L060100	GENERAL LABORER	102.00	1.00 Each (hourly)	U.S. Dollar		43.52	4,439.48
RPUTRK05	F-250 4X4 3/4 TON PICKUP	102.00	1.00 Each (hourly)	U.S. Dollar		11.88	1,211.76
1.7.2	102.00 Each	Loadout Inverter & Transformer	10.00	Detail	U.S. Dollar	208.83	21,300.86
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	204.00	2.00 Each (hourly)	U.S. Dollar		43.52	8,878.96
L010101	OPERATOR	102.00	1.00 Each (hourly)	U.S. Dollar		51.71	5,274.76
RHYDCR06	GROVE RT880 73 TON	102.00	1.00 Each (hourly)	U.S. Dollar		70.07	7,147.14
1.7.3	51.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,375.00	70,125.00
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USTRUCKING	Trucking Sub		70,125.00 Each	U.S. Dollar		1.00	70,125.00
1.8	102.00 Each	Inverter / Transformer Pad Removal	8.10	Detail	U.S. Dollar	307.91	31,406.88
1.8.1	756.00 Cubic Yard	Excavate / Remove Foundation - Various Depth	150.00	Detail	U.S. Dollar	29.52	22,317.17
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	50.40	1.00 Each (hourly)	U.S. Dollar		43.52	2,193.62
L010101	OPERATOR	100.80	2.00 Each (hourly)	U.S. Dollar		51.71	5,212.71
*REXCAV06C	Excav 100K w/ Hammer	50.40	1.00 Each (hourly)	U.S. Dollar		166.14	8,373.46
*REXCAV06A	Excav 100K w/ Bucket & Grapple	50.40	1.00 Each (hourly)	U.S. Dollar		129.71	6,537.38
1.8.2	756.00 Cubic Yard	Concrete Transport Offsite	100.00	Detail	U.S. Dollar	12.02	9,089.71
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
RDUTRK06	CAT D350D, 18CY-24CY	75.60	1.00 Each (hourly)	U.S. Dollar		76.71	5,799.28
L080940	TEAMSTER	75.60	1.00 Each (hourly)	U.S. Dollar		43.52	3,290.44
1.9	1.00 Lump Sum	Solar Array Retirement	0.00	Detail	U.S. Dollar	15,550,461.97	15,550,461.97
1.9.1	163,680.00 Linear Feet	Fence Removal	5,124.80	Detail	U.S. Dollar	1.27	208,001.19
1.9.1.1	163,680.00 Linear Feet	Fence Removal	5,124.80	Detail	U.S. Dollar	1.02	166,751.19
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L010101	OPERATOR	958.16	3.00 Each (hourly)	U.S. Dollar		51.71	49,549.88
L060100	GENERAL LABORER	1,916.33	6.00 Each (hourly)	U.S. Dollar		43.52	83,406.85
RBACKH09	Deere 710J BACKHOE, 1.62CY	958.16	3.00 Each (hourly)	U.S. Dollar		35.27	33,794.45
1.9.1.2	30.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,375.00	41,250.00
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USTRUCKING	Trucking Sub		41,250.00 Each	U.S. Dollar		1.00	41,250.00
1.9.2	815,698.00 Each	Solar Panel Removal & Disposal	4,800.00	Detail	U.S. Dollar	6.85	5,585,765.50
1.9.2.1	815,698.00 Each	Solar Panel Removal	4,800.00	Detail	U.S. Dollar	3.11	2,536,520.50
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	10,196.23	6.00 Each (hourly)	U.S. Dollar		22.96	234,105.33

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
L010101	OPERATOR	10,196.23	6.00 Each (hourly)	U.S. Dollar		51.71	527,280.95
L060100	GENERAL LABORER	40,784.90	24.00 Each (hourly)	U.S. Dollar		43.52	1,775,134.22
Notes: ***** Assumed production: 20 panels per laborer per hour, Includes packaging and preparing for shipment offsite. *****							
1.9.2.2	1,119.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,375.00	1,538,625.00
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USTRUCKING	Trucking Sub		1,538,625.00 Each	U.S. Dollar		1.00	1,538,625.00
Notes: ***** Assumption: 45,000 lbs per load *****							
1.9.2.3	25,177.00 Ton	Recyclingl Cost	0.00	Detail	U.S. Dollar	60.00	1,510,620.00
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USDISPOSAL	Disposal Fee's		1,510,620.00 Each	U.S. Dollar		1.00	1,510,620.00
Notes: ***** Assumption: 815,698 modules x 61.73 lbs each *****							
1.9.3	31,373.00 Each	Solar Rack (Trackers) & Post Removal	133.33	Detail	U.S. Dollar	310.99	9,756,695.28
1.9.3.1	31,373.00 Each	Solar Rack (Trackers) & Post Removal	133.33	Detail	U.S. Dollar	280.40	8,796,945.28
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L010101	OPERATOR	37,647.60	16.00 Each (hourly)	U.S. Dollar		51.71	1,946,883.52
L060100	GENERAL LABORER	18,823.80	8.00 Each (hourly)	U.S. Dollar		43.52	819,292.72
*REXCAV06A	Excav 100K w/ Bucket & Grapple	18,823.80	8.00 Each (hourly)	U.S. Dollar		129.71	2,441,635.10
*REXCAV06E	Excav 100K w/ Shear	18,823.80	8.00 Each (hourly)	U.S. Dollar		190.67	3,589,133.95
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. *****							
1.9.3.2	698.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,375.00	959,750.00
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USTRUCKING	Trucking Sub		959,750.00 Each	U.S. Dollar		1.00	959,750.00
Notes: ***** Assumption: 45,000 lbs per load *****							
1.10	1.00 Lump Sum	Site Restoration - Partial Site Seeding	0.01	Detail	U.S. Dollar	896,269.81	896,269.81
1.10.1	148,368.00 Linear Feet	Strip & Decompact Roads	2,500.00	Detail	U.S. Dollar	1.43	211,608.41
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
*RDOZER08	CAT D6 LGP Dozer	1,186.94	2.00 Each (hourly)	U.S. Dollar		60.82	72,189.93
L010101	OPERATOR	1,780.42	3.00 Each (hourly)	U.S. Dollar		51.71	92,071.28
*RFELWH08C	CAT 980 LOADER	593.47	1.00 Each (hourly)	U.S. Dollar		79.78	47,347.20
Notes: ***** Decompaction to include discing and regrading Assume removed road base transported offsite at no charge *****							
1.10.2	525.00 Acre	Spot Grade Disturbed Areas	8.00	Detail	U.S. Dollar	281.33	147,700.02
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
*RDOZER08	CAT D6 LGP Dozer	1,312.50	2.00 Each (hourly)	U.S. Dollar		60.82	79,826.25
L010101	OPERATOR	1,312.50	2.00 Each (hourly)	U.S. Dollar		51.71	67,873.77

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
Notes: ***** Assumption: 1,500 acres total property area. Assume that 35% of the area disturbed by construction will be regraded. *****							
1.10.3	1.00 Lump Sum	Misc Stormwater Controls Removal & Restoration	0.20	Detail	U.S. Dollar	11,961.38	11,961.38
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
*REXCAV06D	Excav 100K	50.00	1.00 Each (hourly)	U.S. Dollar	103.99	5,199.50	
L010101	OPERATOR	50.00	1.00 Each (hourly)	U.S. Dollar	51.71	2,585.67	
L060100	GENERAL LABORER	50.00	1.00 Each (hourly)	U.S. Dollar	43.52	2,176.22	
UST&D03	T&D of Construction Debris		20.00 Ton	U.S. Dollar	100.00	2,000.00	
1.10.4	525.00 Acre	Re-Seed With Native Vegetation - Roads & Areas Disturbed By Construction	0.00	Detail	U.S. Dollar	1,000.00	525,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USLANDSCAPE	Landscape Sub		525.00 Acre	U.S. Dollar	1,000.00	525,000.00	
Notes: ***** Assumption: 1,500 acres total property area. Assume that 35% of the area disturbed by construction will be re-seeded. *****							
1.11	1.00 Lump Sum	Contractor Markups	0.00	Detail	U.S. Dollar	4,129,339.87	4,129,339.87
1.11.1	1.00 Lump Sum	Home Office, Project Management (5% Of Cost)	0.00	Detail	U.S. Dollar	1,107,061.65	1,107,061.65
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USMARKUP5	5% Markup		22,141,233.00 Each	U.S. Dollar	0.05	1,107,061.65	
1.11.2	1.00 Lump Sum	Contractor OH & Fee (13% Of Cost)	0.00	Detail	U.S. Dollar	3,022,278.22	3,022,278.22
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USMARKUP	13% Markup		23,248,294.00 Each	U.S. Dollar	0.13	3,022,278.22	
1.12	1.00 Lump Sum	ODOE Mandated Contingencies	0.00	Detail	U.S. Dollar	6,333,677.32	6,333,677.32
1.12.1	1.00 Lump Sum	20% Contingency on BESS	0.00	Detail	U.S. Dollar	816,857.20	816,857.20
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
UODCBESS	20% ODOE Mandated Contingency		4,084,286.00 Each	U.S. Dollar	0.20	816,857.20	
1.12.2	1.00 Lump Sum	1% Performance Bond	0.00	Detail	U.S. Dollar	262,705.72	262,705.72
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
UODOE1	ODOE 1% Markup		26,270,572.00 Each	U.S. Dollar	0.01	262,705.72	
1.12.3	1.00 Lump Sum	10% Administrative and Project Management	0.00	Detail	U.S. Dollar	2,627,057.20	2,627,057.20
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
UODOE2	ODOE 10% Markup		26,270,572.00 Each	U.S. Dollar	0.10	2,627,057.20	
1.12.4	1.00 Lump Sum	10% Future Development Contingency	0.00	Detail	U.S. Dollar	2,627,057.20	2,627,057.20
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
UODOE2	ODOE 10% Markup		26,270,572.00 Each	U.S. Dollar	0.10	2,627,057.20	
Report Total:							32,604,249.77

				Cost Item				
CBS Position Code	Quantity	UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
Category					Total			
Labor					7,226,366.27			
Rented Equipment					7,052,840.86			
Supplies					4,260.00			
Materials					40,000.00			
Subcontract					11,903,847.62			
Travel-Risk-Adj					41,057.69			
ODCs					6,335,877.32			