

Exhibit X

Facility Retirement and Site Restoration

**Yellow Rosebush Energy Center
August 2024**

**Prepared for
Yellow Rosebush Energy Center, LLC**

Prepared by



TETRA TECH

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Attachment X-1. Retirement and Restoration Cost Estimate Summary and Detailed Assumptions

Acronyms and Abbreviations

Applicant	Yellow Rosebush Energy Center, LLC
ASC	Application for Site Certificate
BESS	battery energy storage system
EFSC	Oregon Energy Facility Siting Council
Facility	Yellow Rosebush Energy Center
Li-ion	lithium-ion
O&M	operations and maintenance
OAR	Oregon Administrative Rules
ODOE	Oregon Department of Energy

1.0 Introduction

Yellow Rosebush Energy Center, LLC (Applicant) seeks to develop the Yellow Rosebush Energy Center (Facility), a solar energy generation facility, battery energy storage system, and related or supporting facilities in Wasco and Sherman counties, Oregon. Exhibit X was prepared to demonstrate that the Facility complies with the approval standard in Oregon Administrative Rules (OAR) 345-022-0050(1) based on information provided pursuant to OAR 345-021-0010(1)(x), paragraphs (A) through (E).

2.0 Estimated Useful Life of the Facility – 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;

The Applicant anticipates the useful life of the Facility will be 40 years. During the operational life of the Facility some components may need replacement. For example, solar panels and supporting equipment are designed to have a useful life of 50 years or more but may need periodic replacement during routine maintenance. Racking and inverter manufacturers estimate a useful life of 10 to 15 years. Lithium-ion (Li-ion) battery systems will require replacement of the batteries every 5 to 10 years.

Replacement of components would be performed as part of routine maintenance activities that are described elsewhere in this Application for Site Certificate. The Facility may be decommissioned at the end of the estimated 40-year operational life. This timeline could be extended if equipment continues to function well with routine maintenance. Alternatively, the Facility could be repowered with updated equipment in the same location.

Due to the anticipated demand and need for electricity generation and transmission for the foreseeable future, repowering of the Facility will be evaluated by the Applicant at the appropriate time. Changes to the Facility associated with repowering that require a site certificate amendment may be approved by the Oregon Energy Facility Siting Council (EFSC) through the 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;

This retirement plan would include, pursuant to OAR 345-027-0110(5), the following information:

(5) In the proposed final retirement plan, the certificate holder must include:

(a) A plan for retirement that provides for completion of retirement without significant delay and that protects public health, safety and the environment;

(b) A description of actions the certificate holder proposes to take to restore the site to a useful, non-hazardous condition, including information on how impacts to fish, wildlife and the environment would be minimized during the retirement process;

(c) A current detailed cost estimate and a plan for ensuring the availability of adequate funds for completion of retirement; and

(d) An updated list of property owners, as described in OAR 345-021-0010(1)(f).

Prior to retiring the Facility, the Applicant will prepare and submit a Retirement Plan to the Oregon Department of Energy (ODOE) for EFSC approval in accordance with the mandatory site certificate conditions identified in OAR 345-025-0006(9). The proposed final Retirement Plan will be submitted to the Oregon Department of Energy (ODOE) at least 90 days prior to Facility retirement (per OAR 345-025-0006(16)). The Retirement Plan will describe the activities necessary to restore the site to a useful, nonhazardous condition, as described in OAR 345-027-0110(5). Once EFSC approves the Retirement Plan, the Applicant will obtain the necessary authorization from the appropriate regulatory agencies to proceed with restoration of the site.

Specific actions to be taken to restore the site, provided in the Retirement Plan, will include, among others:

- **Removal of facilities.** The Applicant will dismantle and remove major aboveground solar array components, as well as major aboveground related or supporting equipment (i.e., the battery energy storage system (BESS), collector substation, operations and maintenance (O&M) building, generation-tie components, and perimeter fencing). 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. Facility service roads will be used to allow the deconstruction contractor to separate the solar panels from the piles, and load the modules into a truck or roll-off container for off-site disposal or recycling. Piles will be removed from the ground and recycled as scrap metal. Transformers will be decommissioned and disposed of off-site.
- **Decommission battery energy storage system.** Self-contained Li-ion battery components will be removed, transported, and disposed of or recycled by a qualified vendor. Battery containers and associated components will be disassembled and transported off-site via truck for disposal or recycling. Materials which cannot be salvaged will be disposed of at authorized sites (as described in Exhibit W).
- **Removal of foundations.** Concrete foundations for the BESS, collector substation and transformers, O&M building, and inverters are assumed to be slab on grade; thus, they will

be removed in their entirety. Foundation areas will be filled with soil or gravel as part of site restoration.

- **Site Restoration.** Facility component locations and site access and service roads will be restored to a useful condition consistent with site zoning and as coordinated with the landowner. This process will include restoring the site to a condition suitable for agricultural uses such as grazing or for uses comparable with surrounding land uses.
- **Revegetation.** Vegetation will be restored to the maximum extent practicable and areas disturbed by construction will be landscaped in a manner compatible with the surroundings and proposed use. Disturbed areas may be regraded and reseeded with native plant seed mixes, consistent with the Draft Revegetation Plan (provided as Attachment P-3 to Exhibit P) which will be developed in consultation with the Wasco County Weed Department Supervisor and the Sherman County Weed District Supervisor.
- **Removal of access roads.** Decommissioned roads will be regraded to restore the surface soil to a useful condition consistent with site zoning. Alternatively, roads may be left in place based on landowner preference. It is expected that improved, pre-existing roads will not be decommissioned, but new service roads built for the Facility will be decommissioned.

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;

Attachment X-1 provides unit costs and a summary total of the Facility retirement and restoration cost estimate. The total Facility retirement and restoration cost is approximately \$45.3 million (in Q2 2024 dollars; see Attachment X-1). The Applicant's ability to achieve the objectives of EFSC's financial assurance rules is described in Exhibit M. Decommissioning financial assurances will be in place prior to the start of Facility construction.

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

The methods and assumptions used to estimate site restoration costs were established by professional estimators with industry experience, in collaboration with the Applicant's engineering staff and contractors. The Facility retirement estimate 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.¹ Labor and equipment rates prevalent to the geographic area of the Facility 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 construction 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 Facility site. 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.
- Service roads will be restored at the request of the current landowner. If the current landowner requests that service roads be restored, they will be restored pursuant to the EFSC-approved Retirement Plan so that they become a part of the natural surroundings and are no longer recognizable or usable as a road. 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.
- Concrete foundations constructed at grade will be fully removed; other foundations will be removed to a depth of 4 feet below grade. Gravel from removal of roads will be used as backfill.

¹ www.rsmeans.com.

- Concrete foundation removal will be accomplished using excavators with concrete breakers. Processed concrete will be transported off-site under the same assumptions as road gravel.
- 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.
- Oil from transformers will be drained prior to removal, and the oil will be disposed of following state and federal regulations. Oil disposal cost is assumed to be \$4 per gallon in Q2 2024 dollars.
- For estimating purposes, the alternate 500-kilovolt generation-tie line was assumed to be composed of steel tower structures and cables. Towers were assumed to be recyclable and will be disassembled on-site and shipped off-site. Tower foundations will be removed to at least 4 feet below grade.
- Site restoration will include the placement of approximately 1,290 cubic yards of delivered topsoil on disturbed areas associated with the collector substation. Final seeding will use a mix of native grasses. With the exception of the collector substation area, it was assumed that topsoil required for other restoration activities is available on-site as a result of the original installation.
- The cost for temporary facilities has been included in the restoration cost. These include an office trailer, Conex storage units, portable toilets, first-aid supplies, and utilities.
- Field management during construction activities has been added to the estimate. These include one Superintendent, one Health and Safety Representative, and one Field Engineer. These positions are critical to the safe and successful execution of work.
- 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, 5 percent Contingency, and 15 percent for Overhead and Fee.
- ODOE could incur additional costs in the case where the Applicant 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.

5.0 Decommissioning Financial Assurance

Using the decommissioning cost estimates (Attachment X-1), financial assurances will be made so that the Facility is restored to a useful, non-hazardous condition (per OAR 345-025-0006[7]). Decommissioning financial assurances will be in place prior to the start of Facility construction. A phased approach to decommissioning security will be implemented, as described below.

Construction. Prior to construction, the Applicant will provide a bond or letter of credit for the full amount of the Facility phased for construction, not including scrap value. The amount will be scaled to the actual Facility size based on final design using the unit costs in Attachment X-1. The bond will be an amount satisfactory to the EFSC to restore the site to a useful, non-hazardous condition and will be maintained in effect until the Facility has been retired (per OAR 345-025-0006[8]). The Applicant understands that the EFSC may specify different amounts for the bond or letter of credit during construction and operation of the Facility.

Operations. Each phase of the Facility will hold separate financial assurances for decommissioning that portion of the Facility. The Applicant asserts that a phased approach to the decommissioning bond or letter of credit could be made in partnership with one or more equity investors in a facility in compliance with OAR 345-022-0050.

6.0 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.

In the event that the Applicant elects to retire the Facility, the site could be restored to a useful, non-hazardous condition consistent with site zoning (per OAR 345-025-0006[9]). The Facility will be retired according to the final Retirement Plan approved by EFSC (see Section 3.0). The Facility is not expected to cause site contamination with hazardous materials, and no contamination monitoring plan is proposed. The existing facilities could be removed without significant risk of contamination.

Hazardous materials associated with the Facility would largely be limited to internal battery components, which would be removed by an authorized vendor prior to removing the equipment. Used Li-ion batteries are not considered hazardous waste by the U.S. Environmental Protection Agency. The Facility will not have 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 Facility site, soil contamination is highly unlikely, and therefore a monitoring plan is unnecessary.

7.0 Submittal Requirements and Approval Standards

7.1 Submittal Requirements

Table X-1. Submittal Requirements

Requirement	Location
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:	-
(A) The estimated useful life of the proposed facility;	Section 2.0
(B) Specific actions and tasks to restore the site to a useful, non-hazardous condition;	Section 3.0
(C) An estimate, in current dollars, of the total and unit costs of restoring the site to a useful, non-hazardous condition;	Section 4.1
(D) A discussion and justification of the methods and assumptions used to estimate site restoration costs; and	Section 4.2
(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.	Section 6.0

7.2 Approval Standards

Table X-2. Approval Standards

Requirement	Location
OAR 345-022-0050 Retirement and Financial Assurances	
To issue a site certificate, the Council must find that:	-
(1) The site, taking into account mitigation, can be restored adequately to a useful, non-hazardous condition following permanent cessation of construction or operation of the facility.	Sections 2.0 through 6.0
(2) The applicant has a reasonable likelihood of obtaining a bond or letter of credit in a form and amount satisfactory to the Council to restore the site to a useful, non-hazardous condition.	Exhibit M

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Attachment X-1. Retirement and Restoration Cost Estimate Summary and Detailed Assumptions

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Estimate Summary

TETRA TECH EC, INC.

Job Code: Yellow Rosebush Solar

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	YELLOW ROSEBUSH SOLAR RETIREMENT	0.00	Detail	U.S. Dollar	45,292,785.44	45,292,785.44
1.1	1.00 Lump Sum	Equipment & Facilities Mob / Demob	0.25	Detail	U.S. Dollar	272,788.46	272,788.46
1.1.1	1.00 Lump Sum	Equipment Mob	0.00	Detail	U.S. Dollar	121,800.00	121,800.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
UERNTRLG	Rental Equip Transp-Large		12.00 Each	U.S. Dollar	10,000.00	120,000.00	
UERNTRSM	Rental Equip Transp-Small		12.00 Each	U.S. Dollar	150.00	1,800.00	
1.1.2	1.00 Lump Sum	Site Facilities	0.00	Detail	U.S. Dollar	5,600.00	5,600.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
UOCONMOB	Connex Box Mob		8.00 Each	U.S. Dollar	300.00	2,400.00	
UOTRLTRN	Trailer Trnsp/Setup/Trdwn		4.00 Each	U.S. Dollar	800.00	3,200.00	
1.1.3	2.00 Day	Crew Mob & Site Setup	1.00	Detail	U.S. Dollar	36,347.12	72,694.23
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	1,200.00	60.00 Each (hourly)	U.S. Dollar	45.44	54,533.16	
L010101	OPERATOR	320.00	16.00 Each (hourly)	U.S. Dollar	56.75	18,161.07	
1.1.4	2.00 Day	Crew Demob & Site Cleanup	1.00	Detail	U.S. Dollar	36,347.12	72,694.23
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	1,200.00	60.00 Each (hourly)	U.S. Dollar	45.44	54,533.16	
L010101	OPERATOR	320.00	16.00 Each (hourly)	U.S. Dollar	56.75	18,161.07	
1.2	1.00 Lump Sum	Project Site Support	0.00	Detail	U.S. Dollar	572,022.83	572,022.83
1.2.1	10.00 Month	Site Facilities	0.00	Detail	U.S. Dollar	3,255.00	32,550.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
URCONNEX	Connex Box		40.00 Month	U.S. Dollar	150.00	6,000.00	
UROFFTRL	Office Trailer -12x60		10.00 Month	U.S. Dollar	500.00	5,000.00	
UO1STAD	1st Aid Supplies		10.00 Month	U.S. Dollar	300.00	3,000.00	
UOOFFSUP	Office Supplies(\$/prs/mo)		10.00 Month	U.S. Dollar	55.00	550.00	
URPRTAJH	Port-a-John Unit(s) (4)		60.00 Month	U.S. Dollar	300.00	18,000.00	
1.2.2	10.00 Month	Field Management	0.05	Detail	U.S. Dollar	53,947.28	539,472.83
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L90FXX02	Field - Proj Superintendent	2,200.00	1.00 Each (hourly)	U.S. Dollar	83.18	183,000.40	
RPUTRK05	F-250 4X4 3/4 TON PICKUP	6,600.00	3.00 Each (hourly)	U.S. Dollar	11.07	73,029.00	
L90FEL00	Field - Engr. Tech	2,200.00	1.00 Each (hourly)	U.S. Dollar	39.57	87,062.85	
L90FXX03	Field - SHSO	2,200.00	1.00 Each (hourly)	U.S. Dollar	89.26	196,380.58	
1.3	1.00 Each	Substation Retirement	0.03	Detail	U.S. Dollar	280,289.79	280,289.79
1.3.1	1.00 Day	Fence Removal	1.00	Detail	U.S. Dollar	1,354.33	1,354.33
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L010101	OPERATOR	10.00	1.00 Each (hourly)	U.S. Dollar	56.75	567.53	
L060100	GENERAL LABORER	10.00	1.00 Each (hourly)	U.S. Dollar	45.44	454.44	
RBACKH09	Deere 710J BACKHOE, 1.62CY	10.00	1.00 Each (hourly)	U.S. Dollar	33.24	332.35	
1.3.2	2.00 Each	Transformer Removal	0.17	Detail	U.S. Dollar	102,049.58	204,099.16
1.3.2.1	2.00 Each	Oil Removal & Disposal	1.00	Detail	U.S. Dollar	66,283.89	132,567.77

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1.3.2.1.1	2.00 Each	Oil Removal	1.00	Detail	U.S. Dollar	908.89	1,817.77
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	40.00	2.00 Each (hourly)	U.S. Dollar	45.44	1,817.77	
1.3.2.1.2	32,000.00 Gallon	Oil Disposal	0.00	Detail	U.S. Dollar	4.00	128,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USDISPOSAL	Disposal Fee's		128,000.00 Each	U.S. Dollar	1.00	128,000.00	
1.3.2.1.3	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	
1.3.2.2	2.00 Each	Dismantle & Loadout Transformer	0.20	Detail	U.S. Dollar	35,765.70	71,531.39
1.3.2.2.1	2.00 Each	Dismantle, Cut & Size	0.20	Detail	U.S. Dollar	30,265.70	60,531.39
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	400.00	4.00 Each (hourly)	U.S. Dollar	45.44	18,177.72	
L010101	OPERATOR	200.00	2.00 Each (hourly)	U.S. Dollar	56.75	11,350.67	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	100.00	1.00 Each (hourly)	U.S. Dollar	124.54	12,453.50	
*REXCAV06E	Excav 100K w/ Shear	100.00	1.00 Each (hourly)	U.S. Dollar	185.50	18,549.50	
1.3.2.2.2	8.00 Each	Trucking - Per Load	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	
1.3.3	1.00 Each	Remove Control Building	2.00	Detail	U.S. Dollar	2,508.66	2,508.66
1.3.3.1	1.00 Each	Demo	2.00	Detail	U.S. Dollar	1,133.66	1,133.66
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	5.00	1.00 Each (hourly)	U.S. Dollar	45.44	227.22	
L010101	OPERATOR	5.00	1.00 Each (hourly)	U.S. Dollar	56.75	283.77	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	5.00	1.00 Each (hourly)	U.S. Dollar	124.54	622.68	
1.3.3.2	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	
1.3.4	1.00 Day	UG Utility & Ground Removal	1.00	Detail	U.S. Dollar	1,354.33	1,354.33
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L010101	OPERATOR	10.00	1.00 Each (hourly)	U.S. Dollar	56.75	567.53	
L060100	GENERAL LABORER	10.00	1.00 Each (hourly)	U.S. Dollar	45.44	454.44	
RBACKH09	Deere 710J BACKHOE, 1.62CY	10.00	1.00 Each (hourly)	U.S. Dollar	33.24	332.35	
1.3.5	1,000.00 Cubic Yard	Remove Foundations To Subgrade	73.68	Detail	U.S. Dollar	27.85	27,846.68
1.3.5.1	1,000.00 Cubic Yard	Excavate / Remove Foundation - Various Depth	280.00	Detail	U.S. Dollar	15.87	15,873.25
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	35.71	1.00 Each (hourly)	U.S. Dollar	45.44	1,623.01	
L010101	OPERATOR	71.43	2.00 Each (hourly)	U.S. Dollar	56.75	4,053.81	
*REXCAV06C	Excav 100K w/ Hammer	35.71	1.00 Each (hourly)	U.S. Dollar	160.97	5,748.75	

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
*REXCAV06A	Excav 100K w/ Bucket & Grapple	35.71	1.00 Each (hourly)	U.S. Dollar		124.54	4,447.68
1.3.5.2	1,000.00 Cubic Yard	Concrete Transport Offsite	100.00	Detail	U.S. Dollar	11.97	11,973.43
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	74.29	7,429.00	
L080940	TEAMSTER	100.00	1.00 Each (hourly)	U.S. Dollar	45.44	4,544.43	
1.3.6	1.00 Each	Misc. Material Disposal	0.00	Detail	U.S. Dollar	2,675.00	2,675.00
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	20.00 Ton	Disposal Cost	0.00	Detail	U.S. Dollar	65.00	1,300.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USDISPOSAL	Disposal Fee's		1,300.00 Each	U.S. Dollar	1.00	1,300.00	
1.3.7	1.00 Each	Restore Yard	0.19	Detail	U.S. Dollar	40,451.63	40,451.63
1.3.7.1	1.60 Acre	Remove Aggregate / Backfill / Regrade	1.60	Detail	U.S. Dollar	2,115.37	3,384.59
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	20.00	2.00 Each (hourly)	U.S. Dollar	45.44	908.89	
L010101	OPERATOR	20.00	2.00 Each (hourly)	U.S. Dollar	56.75	1,135.07	
REXCAV06B	Gradall - Excavator	10.00	1.00 Each (hourly)	U.S. Dollar	75.73	757.29	
*RDOZER08	CAT D6 LGP Dozer	10.00	1.00 Each (hourly)	U.S. Dollar	58.34	583.35	
1.3.7.2	1,290.00 Cubic Yard	Vegetative Cover	300.00	Detail	U.S. Dollar	27.74	35,787.04
1.3.7.2.1	1,290.00 Cubic Yard	Topsoil, Delivered	0.00	Detail	U.S. Dollar	20.00	25,800.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
IMSOIL	Topsoil		1,290.00 Cubic Yard	U.S. Dollar	20.00	25,800.00	
1.3.7.2.2	1,290.00 Cubic Yard	Placement	300.00	Detail	U.S. Dollar	7.74	9,987.04
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L010101	OPERATOR	86.00	2.00 Each (hourly)	U.S. Dollar	56.75	4,880.79	
RDOZER08	CAT D6N XL	86.00	2.00 Each (hourly)	U.S. Dollar	59.38	5,106.25	
1.3.7.3	1.60 Acre	Re-Seed With Native Vegetation	0.00	Detail	U.S. Dollar	800.00	1,280.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USLANDSCAPE	Landscape Sub		1.60 Acre	U.S. Dollar	800.00	1,280.00	
1.4	1.00 Each	Switchyard Retirement	0.08	Detail	U.S. Dollar	58,381.42	58,381.42
1.4.1	1.00 Day	Fence Removal	1.00	Detail	U.S. Dollar	1,354.33	1,354.33
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L010101	OPERATOR	10.00	1.00 Each (hourly)	U.S. Dollar	56.75	567.53	
L060100	GENERAL LABORER	10.00	1.00 Each (hourly)	U.S. Dollar	45.44	454.44	
RBACKH09	Deere 710J BACKHOE, 1.62CY	10.00	1.00 Each (hourly)	U.S. Dollar	33.24	332.35	
1.4.2	1.00 Day	UG Utility & Ground Removal	1.00	Detail	U.S. Dollar	1,354.33	1,354.33
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L010101	OPERATOR	10.00	1.00 Each (hourly)	U.S. Dollar	56.75	567.53	
L060100	GENERAL LABORER	10.00	1.00 Each (hourly)	U.S. Dollar	45.44	454.44	
RBACKH09	Deere 710J BACKHOE, 1.62CY	10.00	1.00 Each (hourly)	U.S. Dollar	33.24	332.35	

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1.4.3	1.00 Each	Dismantle & Loadout Racks & Switching	0.50	Detail	U.S. Dollar	13,481.28	13,481.28
1.4.3.1	1.00 Each	Dismantle, Cut & Size	0.50	Detail	U.S. Dollar	12,106.28	12,106.28
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	80.00	4.00 Each (hourly)	U.S. Dollar	45.44	3,635.54	
L010101	OPERATOR	40.00	2.00 Each (hourly)	U.S. Dollar	56.75	2,270.13	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	20.00	1.00 Each (hourly)	U.S. Dollar	124.54	2,490.70	
*REXCAV06E	Excav 100K w/ Shear	20.00	1.00 Each (hourly)	U.S. Dollar	185.50	3,709.90	
1.4.3.2	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	
1.4.4	284.00 Cubic Yard	Remove Foundations To Subgrade	73.68	Detail	U.S. Dollar	27.85	7,908.46
1.4.4.1	284.00 Cubic Yard	Excavate / Remove Foundation - Various Depth	280.00	Detail	U.S. Dollar	15.87	4,508.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	10.14	1.00 Each (hourly)	U.S. Dollar	45.44	460.94	
L010101	OPERATOR	20.29	2.00 Each (hourly)	U.S. Dollar	56.75	1,151.28	
*REXCAV06C	Excav 100K w/ Hammer	10.14	1.00 Each (hourly)	U.S. Dollar	160.97	1,632.65	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	10.14	1.00 Each (hourly)	U.S. Dollar	124.54	1,263.14	
1.4.4.2	284.00 Cubic Yard	Concrete Transport Offsite	100.00	Detail	U.S. Dollar	11.97	3,400.45
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
RDUTRK06	CAT D350D, 18CY-24CY	28.40	1.00 Each (hourly)	U.S. Dollar	74.29	2,109.84	
L080940	TEAMSTER	28.40	1.00 Each (hourly)	U.S. Dollar	45.44	1,290.62	
1.4.5	1.00 Each	Misc. Material Disposal	0.00	Detail	U.S. Dollar	2,675.00	2,675.00
1.4.5.1	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	
1.4.5.2	20.00 Ton	Disposal Cost	0.00	Detail	U.S. Dollar	65.00	1,300.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USDISPOSAL	Disposal Fee's		1,300.00 Each	U.S. Dollar	1.00	1,300.00	
1.4.6	1.00 Each	Restore Yard	0.24	Detail	U.S. Dollar	31,608.04	31,608.04
1.4.6.1	1.25 Acre	Remove Aggregate / Backfill / Regrade	1.60	Detail	U.S. Dollar	2,115.37	2,644.21
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	15.63	2.00 Each (hourly)	U.S. Dollar	45.44	710.07	
L010101	OPERATOR	15.63	2.00 Each (hourly)	U.S. Dollar	56.75	886.77	
REXCAV06B	Gradall - Excavator	7.81	1.00 Each (hourly)	U.S. Dollar	75.73	591.63	
*RDOZER08	CAT D6 LGP Dozer	7.81	1.00 Each (hourly)	U.S. Dollar	58.34	455.74	
1.4.6.2	1,008.00 Cubic Yard	Vegetative Cover	300.00	Detail	U.S. Dollar	27.74	27,963.83
1.4.6.2.1	1,008.00 Cubic Yard	Topsoil, Delivered	0.00	Detail	U.S. Dollar	20.00	20,160.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
IMSOIL	Topsoil		1,008.00 Cubic Yard	U.S. Dollar	20.00	20,160.00	
1.4.6.2.2	1,008.00 Cubic Yard	Placement	300.00	Detail	U.S. Dollar	7.74	7,803.83
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		67.20	2.00 Each (hourly)	U.S. Dollar	56.75	3,813.83
RDOZER08	CAT D6N XL		67.20	2.00 Each (hourly)	U.S. Dollar	59.38	3,990.00
1.4.6.3	1.25 Acre	Re-Seed With Native Vegetation		0.00	Detail	U.S. Dollar	800.00
1,000.00							
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USLANDSCAPE	Landscape Sub		1.25 Acre	U.S. Dollar	800.00	1,000.00	
1.5	1.00 Lump Sum	Transmission Line Retirement		0.02	Detail	U.S. Dollar	258,457.38
258,457.38							
1.5.1	25.00 Each	Structure Removal		1.00	Detail	U.S. Dollar	5,391.45
134,786.21							
1.5.1.1	25.00 Each	Cut / Lower Structure		2.00	Detail	U.S. Dollar	1,914.80
47,870.07							
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	500.00	4.00 Each (hourly)	U.S. Dollar	45.44	22,722.15	
L010101	OPERATOR	125.00	1.00 Each (hourly)	U.S. Dollar	56.75	7,094.17	
*RXMISC14	MAN LIFT GAS 125ft	125.00	1.00 Each (hourly)	U.S. Dollar	53.52	6,690.00	
*RXMISC23	GROVE RT 200 TON	125.00	1.00 Each (hourly)	U.S. Dollar	90.91	11,363.75	
1.5.1.2	25.00 Each	Cut / Size Structure & Loadout		2.00	Detail	U.S. Dollar	2,101.65
52,541.14							
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	750.00	6.00 Each (hourly)	U.S. Dollar	45.44	34,083.23	
L010101	OPERATOR	125.00	1.00 Each (hourly)	U.S. Dollar	56.75	7,094.17	
*RXMISC23	GROVE RT 200 TON	125.00	1.00 Each (hourly)	U.S. Dollar	90.91	11,363.75	
1.5.1.3	25.00 Each	Trucking - Per Load		0.00	Detail	U.S. Dollar	1,375.00
34,375.00							
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		34,375.00 Each	U.S. Dollar	1.00	34,375.00	
Notes: ***** Assume 9 ton per steel structure and cable span *****							
1.5.2	25.00 Each	Remove Foundations To Subgrade		0.96	Detail	U.S. Dollar	4,946.85
123,671.17							
1.5.2.1	25.00 Each	Excavate / Remove Foundation - Various Depth		1.00	Detail	U.S. Dollar	4,898.95
122,473.83							
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	500.00	2.00 Each (hourly)	U.S. Dollar	45.44	22,722.15	
L010101	OPERATOR	500.00	2.00 Each (hourly)	U.S. Dollar	56.75	28,376.68	
*REXCAV06C	Excav 100K w/ Hammer	250.00	1.00 Each (hourly)	U.S. Dollar	160.97	40,241.25	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	250.00	1.00 Each (hourly)	U.S. Dollar	124.54	31,133.75	
1.5.2.2	75.00 Cubic Yard	Concrete Transport Offsite		75.00	Detail	U.S. Dollar	15.96
1,197.34							
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
RDUTRK06	CAT D350D, 18CY-24CY	10.00	1.00 Each (hourly)	U.S. Dollar	74.29	742.90	
L080940	TEAMSTER	10.00	1.00 Each (hourly)	U.S. Dollar	45.44	454.44	
1.6	1.00 Each	O&M Building Removal		0.17	Detail	U.S. Dollar	30,181.42
30,181.42							
1.6.1	40.00 Ton	Structure Demo		10.00	Detail	U.S. Dollar	514.43
20,577.01							
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	40.00	1.00 Each (hourly)	U.S. Dollar	124.54	4,981.40	
*REXCAV06E	Excav 100K w/ Shear	40.00	1.00 Each (hourly)	U.S. Dollar	185.50	7,419.80	
L010101	OPERATOR	80.00	2.00 Each (hourly)	U.S. Dollar	56.75	4,540.27	
L060100	GENERAL LABORER	80.00	2.00 Each (hourly)	U.S. Dollar	45.44	3,635.54	
1.6.2	56.00 Cubic Yard	Remove Foundations To Subgrade		71.43	Detail	U.S. Dollar	35.74
2,001.31							

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1.6.2.1	56.00 Cubic Yard	Excavate / Remove Foundation - Various Depth	250.00	Detail	U.S. Dollar	17.78	995.57
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	2.24	1.00 Each (hourly)	U.S. Dollar	45.44	101.80	
L010101	OPERATOR	4.48	2.00 Each (hourly)	U.S. Dollar	56.75	254.26	
*REXCAV06C	Excav 100K w/ Hammer	2.24	1.00 Each (hourly)	U.S. Dollar	160.97	360.56	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	2.24	1.00 Each (hourly)	U.S. Dollar	124.54	278.96	
1.6.2.2	56.00 Cubic Yard	Concrete Transport Offsite	100.00	Detail	U.S. Dollar	17.96	1,005.74
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
RDUTRK06	CAT D350D, 18CY-24CY	5.60	1.00 Each (hourly)	U.S. Dollar	74.29	416.02	
L080940	TEAMSTER	5.60	1.00 Each (hourly)	U.S. Dollar	45.44	254.49	
L010101	OPERATOR	2.80	0.50 Each (hourly)	U.S. Dollar	56.75	158.91	
RFELWH09	CAT 966F LOADER, 4.25CY	2.80	0.50 Each (hourly)	U.S. Dollar	62.97	176.32	
1.6.3	1.00 Lump Sum	Remove Stone Base & Parking	1.00	Detail	U.S. Dollar	3,803.10	3,803.10
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
*RDOZER08	CAT D6 LGP Dozer	10.00	1.00 Each (hourly)	U.S. Dollar	58.34	583.35	
L010101	OPERATOR	30.00	3.00 Each (hourly)	U.S. Dollar	56.75	1,702.60	
RDUTRK06	CAT D350D, 18CY-24CY	10.00	1.00 Each (hourly)	U.S. Dollar	74.29	742.90	
*RFELWH08C	CAT 980 LOADER	10.00	1.00 Each (hourly)	U.S. Dollar	77.43	774.25	
Notes: ***** Assume topsoil for restoration available onsite. *****							
1.6.4	40.00 Ton	Material T&D	0.00	Detail	U.S. Dollar	95.00	3,800.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		2,600.00 Each	U.S. Dollar	1.00	2,600.00	
USDISPOSAL	Disposal Fee's		1,200.00 Each	U.S. Dollar	1.00	1,200.00	
1.7	800.00 MW	DC Storage Retirement	2.47	Detail	U.S. Dollar	3,103.13	2,482,504.94
1.7.1	800.00 MW	Battery Removal & Disposal	5.00	Detail	U.S. Dollar	1,986.36	1,589,088.28
1.7.1.1	160.00 Day	Remove Batteries, Load For Transport	1.00	Detail	U.S. Dollar	3,159.56	505,529.28
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	9,600.00	6.00 Each (hourly)	U.S. Dollar	45.44	436,265.28	
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	3,200.00	2.00 Each (hourly)	U.S. Dollar	21.65	69,264.00	
1.7.1.2	265.00 Each	Transport Batteries	0.00	Detail	U.S. Dollar	1,480.60	392,359.00
1.7.1.2.1	265.00 Each	Roll Off Liners	0.00	Detail	U.S. Dollar	105.60	27,984.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
UODCLINER	Rolloff Liner		265.00 Each	U.S. Dollar	105.60	27,984.00	
1.7.1.2.2	265.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,375.00	364,375.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		364,375.00 Each	U.S. Dollar	1.00	364,375.00	
1.7.1.3	3,456.00 Ton	Disposal Fee's	0.00	Detail	U.S. Dollar	200.00	691,200.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USDISPOSAL	Disposal Fee's		691,200.00 Each	U.S. Dollar	1.00	691,200.00	
1.7.2	800.00 MW	Structure & Components Removal	4.90	Detail	U.S. Dollar	1,116.77	893,416.66

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1.7.2.1	80.00 Day	Refrigerant Recovery	1.00	Detail	U.S. Dollar	1,275.93	102,074.24
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L010110	Craft - MEP	1,600.00	2.00 Each (hourly)	U.S. Dollar	63.80	102,074.24	
1.7.2.2	2,624.00 Ton	Structure Demo	43.33	Detail	U.S. Dollar	118.71	311,504.30
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	605.54	1.00 Each (hourly)	U.S. Dollar	124.54	75,410.73	
*REXCAV06E	Excav 100K w/ Shear	605.54	1.00 Each (hourly)	U.S. Dollar	185.50	112,324.36	
L010101	OPERATOR	1,211.08	2.00 Each (hourly)	U.S. Dollar	56.75	68,732.67	
L060100	GENERAL LABORER	1,211.08	2.00 Each (hourly)	U.S. Dollar	45.44	55,036.54	
1.7.2.3	264.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,375.00	363,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		363,000.00 Each	U.S. Dollar	1.00	363,000.00	
1.7.2.4	70,000.00 Gallon	Glycol Recovery & Disposal	0.00	Detail	U.S. Dollar	1.00	70,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USLIQUID	Liquids T&D		70,000.00 Each	U.S. Dollar	1.00	70,000.00	
1.7.2.5	1,682.00 Cubic Yard	Remove Foundations To Subgrade	73.68	Detail	U.S. Dollar	27.85	46,838.12
1.7.2.5.1	1,682.00 Cubic Yard	Excavate / Remove Foundation	280.00	Detail	U.S. Dollar	15.87	26,698.81
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	60.07	1.00 Each (hourly)	U.S. Dollar	45.44	2,729.90	
L010101	OPERATOR	120.14	2.00 Each (hourly)	U.S. Dollar	56.75	6,818.51	
*REXCAV06C	Excav 100K w/ Hammer	60.07	1.00 Each (hourly)	U.S. Dollar	160.97	9,669.40	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	60.07	1.00 Each (hourly)	U.S. Dollar	124.54	7,481.00	
1.7.2.5.2	1,682.00 Cubic Yard	Concrete Transport Offsite	100.00	Detail	U.S. Dollar	11.97	20,139.31
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
RDUTRK06	CAT D350D, 18CY-24CY	168.20	1.00 Each (hourly)	U.S. Dollar	74.29	12,495.58	
L080940	TEAMSTER	168.20	1.00 Each (hourly)	U.S. Dollar	45.44	7,643.73	
1.8	1.00 Lump Sum	Solar Array Retirement	0.00	Detail	U.S. Dollar	24,386,100.74	24,386,100.74
1.8.1	268,418.00 Linear Feet	Fence Removal	5,124.80	Detail	U.S. Dollar	1.30	350,209.90
1.8.1.1	268,418.00 Linear Feet	Fence Removal	5,124.80	Detail	U.S. Dollar	1.06	284,209.90
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L010101	OPERATOR	1,571.29	3.00 Each (hourly)	U.S. Dollar	56.75	89,175.89	
L060100	GENERAL LABORER	3,142.58	6.00 Each (hourly)	U.S. Dollar	45.44	142,812.22	
RBACKH09	Deere 710J BACKHOE, 1.62CY	1,571.29	3.00 Each (hourly)	U.S. Dollar	33.24	52,221.78	
1.8.1.2	48.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,375.00	66,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		66,000.00 Each	U.S. Dollar	1.00	66,000.00	
1.8.2	2,037,360.00 Each	Solar Panel Removal & Disposal	10,000.00	Detail	U.S. Dollar	8.58	17,470,776.58
1.8.2.1	2,037,360.00 Each	Solar Panel Removal	10,000.00	Detail	U.S. Dollar	3.06	6,226,576.58
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	20,373.60	10.00 Each (hourly)	U.S. Dollar	21.65	440,986.57	
L010101	OPERATOR	20,373.60	10.00 Each (hourly)	U.S. Dollar	56.75	1,156,270.05	
L060100	GENERAL LABORER	101,868.00	50.00 Each (hourly)	U.S. Dollar	45.44	4,629,319.95	

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost

Notes: *****
 Assumed production: 20 panels per laborer per hour,
 Includes packaging and preparing for shipment offsite.

1.8.2.2	89,155.00 Ton	Disposal Cost	0.00	Detail	U.S. Dollar	65.00	5,795,075.00
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
USDISPOSAL	Disposal Fee's		5,795,075.00 Each	U.S. Dollar	1.00	5,795,075.00

Notes: *****
 Assumption: 2,037,360 modules x 87.52 lbs each

1.8.2.3	3,963.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,375.00	5,449,125.00
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub		5,449,125.00 Each	U.S. Dollar	1.00	5,449,125.00

Notes: *****
 Assumption: 45,000 lbs per load. 2,037,360 modules x 87.52 lbs each

1.8.3	1.00 Lump Sum	Solar Rack (Trackers) & Post Removal	0.01	Detail	U.S. Dollar	6,565,114.27	6,565,114.27
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1.8.3.1	20,622.00 Each	Solar Rack (Trackers) & Post Removal	160.00	Detail	U.S. Dollar	257.21	5,304,239.27
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
L010101	OPERATOR	20,622.00	16.00 Each (hourly)	U.S. Dollar	56.75	1,170,367.58
L060100	GENERAL LABORER	20,622.00	16.00 Each (hourly)	U.S. Dollar	45.44	937,152.35
*REXCAV06A	Excav 100K w/ Bucket & Grapple	10,311.00	8.00 Each (hourly)	U.S. Dollar	124.54	1,284,080.39
*REXCAV06E	Excav 100K w/ Shear	10,311.00	8.00 Each (hourly)	U.S. Dollar	185.50	1,912,638.95

Notes: *****
 Assumed production: .5 hour per rack per crew. 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.

1.8.3.2	917.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,375.00	1,260,875.00
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub		1,260,875.00 Each	U.S. Dollar	1.00	1,260,875.00

Notes: *****
 Assumption: 45,000 lbs per load. 2000LB
 per rack assembly w/ 12 piles

1.9	199.00 Each	Inverter / Transformer Removal	1.50	Detail	U.S. Dollar	2,485.76	494,666.01
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1.9.1	199.00 Each	Disconnect Electrical	3.00	Detail	U.S. Dollar	401.02	79,802.78
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
L010110	Craft - MEP	663.33	1.00 Each (hourly)	U.S. Dollar	63.80	42,318.28
L060100	GENERAL LABORER	663.33	1.00 Each (hourly)	U.S. Dollar	45.44	30,144.72
RPUTRK05	F-250 4X4 3/4 TON PICKUP	663.33	1.00 Each (hourly)	U.S. Dollar	11.07	7,339.78

1.9.2	199.00 Each	Loadout Inverter & Transformer	3.00	Detail	U.S. Dollar	709.74	141,238.23
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
L060100	GENERAL LABORER	1,326.67	2.00 Each (hourly)	U.S. Dollar	45.44	60,289.44
L010101	OPERATOR	663.33	1.00 Each (hourly)	U.S. Dollar	56.75	37,646.39
RHYDCR06	GROVE RT880 73 TON	663.33	1.00 Each (hourly)	U.S. Dollar	65.28	43,302.40

1.9.3	199.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,375.00	273,625.00
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub		273,625.00 Each	U.S. Dollar	1.00	273,625.00

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1.10	1,474.00 Cubic Yard	Remove Inverter / Transformer Foundations	73.68	Detail	U.S. Dollar	27.85	41,046.01
1.10.1	1,474.00 Cubic Yard	Excavate / Remove Foundation	280.00	Detail	U.S. Dollar	15.87	23,397.17
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	52.64	1.00 Each (hourly)	U.S. Dollar	45.44	2,392.32	
L010101	OPERATOR	105.29	2.00 Each (hourly)	U.S. Dollar	56.75	5,975.32	
*REXCAV06C	Excav 100K w/ Hammer	52.64	1.00 Each (hourly)	U.S. Dollar	160.97	8,473.66	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	52.64	1.00 Each (hourly)	U.S. Dollar	124.54	6,555.88	
1.10.2	1,474.00 Cubic Yard	Concrete Transport Offsite	100.00	Detail	U.S. Dollar	11.97	17,648.84
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
RDUTRK06	CAT D350D, 18CY-24CY	147.40	1.00 Each (hourly)	U.S. Dollar	74.29	10,950.35	
L080940	TEAMSTER	147.40	1.00 Each (hourly)	U.S. Dollar	45.44	6,698.49	
1.11	1.00 Lump Sum	Site Restoration - Partial Site Seeding	0.01	Detail	U.S. Dollar	2,123,191.75	2,123,191.75
1.11.1	123,781.00 Linear Feet	Site Roads - Removal & Restoration	5,000.00	Detail	U.S. Dollar	1.71	212,066.18
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
*RDOZER08	CAT D6 LGP Dozer	990.25	4.00 Each (hourly)	U.S. Dollar	58.34	57,766.12	
L010101	OPERATOR	1,732.93	7.00 Each (hourly)	U.S. Dollar	56.75	98,349.81	
RDUTRK06	CAT D350D, 18CY-24CY	495.12	2.00 Each (hourly)	U.S. Dollar	74.29	36,782.76	
*RFELWH08C	CAT 980 LOADER	247.56	1.00 Each (hourly)	U.S. Dollar	77.43	19,167.49	
Notes: ***** Assume topsoil for restoration available onsite. *****							
1.11.2	1,757.00 Acre	Spot Grade Disturbed Areas	16.00	Detail	U.S. Dollar	287.72	505,525.58
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
*RDOZER08	CAT D6 LGP Dozer	4,392.50	4.00 Each (hourly)	U.S. Dollar	58.34	256,236.49	
L010101	OPERATOR	4,392.50	4.00 Each (hourly)	U.S. Dollar	56.75	249,289.09	
Notes: ***** Assumption: 5,020 acres total property area. Assume that 35% of the area disturbed by construction will be regraded. *****							
1.11.3	1,757.00 Acre	Re-Seed With Native Vegetation - Roads & Areas Disturbed By Construction	0.00	Detail	U.S. Dollar	800.00	1,405,600.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USLANDSCAPE	Landscape Sub		1,757.00 Acre	U.S. Dollar	800.00	1,405,600.00	
Notes: ***** Assumption: 5,020 acres total property area. Assume that 35% of the area disturbed by construction will be re-seeded. *****							
1.12	1.00 Lump Sum	Contractor Markups	0.00	Detail	U.S. Dollar	6,432,423.35	6,432,423.35
1.12.1	1.00 Lump Sum	Home Office, Project Management (5% Of Cost)	0.00	Detail	U.S. Dollar	1,549,981.55	1,549,981.55
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USMARKUP5	5% Markup		30,999,631.00 Each	U.S. Dollar	0.05	1,549,981.55	
1.12.2	1.00 Lump Sum	Contractor OH & Fee (15% Of Cost)	0.00	Detail	U.S. Dollar	4,882,441.80	4,882,441.80
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USMARKUP	15% Markup		32,549,612.00 Each	U.S. Dollar	0.15	4,882,441.80	
1.13	1.00 Lump Sum	ODOE Applied Contingencies	0.00	Detail	U.S. Dollar	7,860,731.34	7,860,731.34

Cost Item								
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost	
1.13.1	1.00	Lump Sum	1% Performance Bond	0.00	Detail	U.S. Dollar	374,320.54	374,320.54
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
UODOE1	ODOE 1% Markup		37,432,054.00 Each	U.S. Dollar	0.01	374,320.54		
1.13.2	1.00	Lump Sum	10% Administrative and Project Management	0.00	Detail	U.S. Dollar	3,743,205.40	3,743,205.40
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
UODOE2	ODOE 10% Markup		37,432,054.00 Each	U.S. Dollar	0.10	3,743,205.40		
1.13.3	1.00	Lump Sum	10% Future Development Contingency	0.00	Detail	U.S. Dollar	3,743,205.40	3,743,205.40
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
UODOE2	ODOE 10% Markup		37,432,054.00 Each	U.S. Dollar	0.10	3,743,205.40		
Report Total:						45,292,785.44		

Category	Total
Labor	10,149,840.15
Rented Equipment	4,715,716.60
Supplies	31,534.00
Materials	45,960.00
Subcontract	22,413,403.35
Travel-Risk-Adj	70,000.00
ODCs	7,866,331.34

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Unit Cost	Total Cost (Forecast)
1	YELLOW ROSEBUSH SOLAR RETIREMENT	1.00	Lump Sum	\$45,292,785.44	\$45,292,785.44
1.1	Equipment & Facilities Mob / Demob	1.00	Lump Sum	\$272,788.46	\$272,788.46
1.1.1	Equipment Mob	1.00	Lump Sum	\$121,800.00	\$121,800.00
1.1.2	Site Facilities	1.00	Lump Sum	\$5,600.00	\$5,600.00
1.1.3	Crew Mob & Site Setup	2.00	Day	\$36,347.12	\$72,694.23
1.1.4	Crew Demob & Site Cleanup	2.00	Day	\$36,347.12	\$72,694.23
1.2	Project Site Support	1.00	Lump Sum	\$572,022.83	\$572,022.83
1.2.1	Site Facilities	10.00	Month	\$3,255.00	\$32,550.00
1.2.2	Field Management	10.00	Month	\$53,947.28	\$539,472.83
1.3	Substation Retirement	1.00	Each	\$280,289.79	\$280,289.79
1.3.1	Fence Removal	1.00	Day	\$1,354.33	\$1,354.33
1.3.2	Transformer Removal	2.00	Each	\$102,049.58	\$204,099.16
1.3.3	Remove Control Building	1.00	Each	\$2,508.66	\$2,508.66
1.3.4	UG Utility & Ground Removal	1.00	Day	\$1,354.33	\$1,354.33
1.3.5	Remove Foundations To Subgrade	1,000.00	Cubic Yard	\$27.85	\$27,846.68
1.3.6	Misc. Material Disposal	1.00	Each	\$2,675.00	\$2,675.00
1.3.7	Restore Yard	1.00	Each	\$40,451.63	\$40,451.63
1.4	Switchyard Retirement	1.00	Each	\$58,381.42	\$58,381.42
1.4.1	Fence Removal	1.00	Day	\$1,354.33	\$1,354.33
1.4.2	UG Utility & Ground Removal	1.00	Day	\$1,354.33	\$1,354.33
1.4.3	Dismantle & Loadout Racks & Switching	1.00	Each	\$13,481.28	\$13,481.28
1.4.4	Remove Foundations To Subgrade	284.00	Cubic Yard	\$27.85	\$7,908.46
1.4.5	Misc. Material Disposal	1.00	Each	\$2,675.00	\$2,675.00
1.4.6	Restore Yard	1.00	Each	\$31,608.04	\$31,608.04
1.5	Transmission Line Retirement	1.00	Lump Sum	\$258,457.38	\$258,457.38
1.5.1	Structure Removal	25.00	Each	\$5,391.45	\$134,786.21
1.5.2	Remove Foundations To Subgrade	25.00	Each	\$4,946.85	\$123,671.17
1.6	O&M Building Removal	1.00	Each	\$30,181.42	\$30,181.42
1.6.1	Structure Demo	40.00	Ton	\$514.43	\$20,577.01
1.6.2	Remove Foundations To Subgrade	56.00	Cubic Yard	\$35.74	\$2,001.31
1.6.3	Remove Stone Base & Parking	1.00	Lump Sum	\$3,803.10	\$3,803.10
1.6.4	Material T&D	40.00	Ton	\$95.00	\$3,800.00
1.7	DC Storage Retirement	800.00	MW	\$3,103.13	\$2,482,504.94
1.7.1	Battery Removal & Disposal	800.00	MW	\$1,986.36	\$1,589,088.28
1.7.2	Structure & Components Removal	800.00	MW	\$1,116.77	\$893,416.66
1.8	Solar Array Retirement	1.00	Lump Sum	\$24,386,100.74	\$24,386,100.74
1.8.1	Fence Removal	268,418.00	Linear Feet	\$1.30	\$350,209.90
1.8.2	Solar Panel Removal & Disposal	2,037,360.00	Each	\$8.58	\$17,470,776.58
1.8.3	Solar Rack (Trackers) & Post Removal	1.00	Lump Sum	\$6,565,114.27	\$6,565,114.27
1.9	Inverter / Transformer Removal	199.00	Each	\$2,485.76	\$494,666.01
1.9.1	Disconnect Electrical	199.00	Each	\$401.02	\$79,802.78
1.9.2	Loadout Inverter & Transformer	199.00	Each	\$709.74	\$141,238.23
1.9.3	Trucking - Per Load	199.00	Each	\$1,375.00	\$273,625.00
1.10	Remove Inverter / Transformer Foundations	1,474.00	Cubic Yard	\$27.85	\$41,046.01
1.10.1	Excavate / Remove Foundation	1,474.00	Cubic Yard	\$15.87	\$23,397.17
1.10.2	Concrete Transport Offsite	1,474.00	Cubic Yard	\$11.97	\$17,648.84
1.11	Site Restoration - Partial Site Seeding	1.00	Lump Sum	\$2,123,191.75	\$2,123,191.75
1.11.1	Site Roads - Removal & Restoration	123,781.00	Linear Feet	\$1.71	\$212,066.18
1.11.2	Spot Grade Disturbed Areas	1,757.00	Acre	\$287.72	\$505,525.58
	Re-Seed With Native Vegetation - Roads & Areas				
1.11.3	Disturbed By Construction	1,757.00	Acre	\$800.00	\$1,405,600.00
1.12	Contractor Markups	1.00	Lump Sum	\$6,432,423.35	\$6,432,423.35
1.12.1	Home Office, Project Management (5% Of Cost)	1.00	Lump Sum	\$1,549,981.55	\$1,549,981.55
1.12.2	Contractor OH & Fee (15% Of Cost)	1.00	Lump Sum	\$4,882,441.80	\$4,882,441.80

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Unit Cost	Total Cost (Forecast)
1.13	ODOE Applied Contingencies	1.00	Lump Sum	\$7,860,731.34	\$7,860,731.34
1.13.1	1% Performance Bond	1.00	Lump Sum	\$374,320.54	\$374,320.54
1.13.2	10% Administrative and Project Management	1.00	Lump Sum	\$3,743,205.40	\$3,743,205.40
1.13.3	10% Future Development Contingency	1.00	Lump Sum	\$3,743,205.40	\$3,743,205.40