

# Exhibit W

## Facility Retirement and Site Restoration

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**Wagon Trail Solar Project  
January 2022**

**Prepared for**



**Prepared by**



**Tetra Tech, Inc.**

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Attachment W-1. Estimated Retirement and Restoration Cost

## **Acronyms and Abbreviations**

Applicant	Wheatridge East Wind, LLC c/o NextEra Energy Resources, LLC
Council	Energy Facility Siting Council
Facility	Wagon Trail Solar Project
Li-ion	lithium-ion
O&M	operations and maintenance
OAR	Oregon Administrative Rule
ODOE	Oregon Department of Energy

## 1.0 Introduction

Wheatridge East Wind, LLC c/o NextEra Energy Resources, LLC (Applicant) proposes to construct and operate the Wagon Trail Solar Project (Facility), a solar energy generation facility and related or supporting facilities in Morrow County, Oregon. This Exhibit W was prepared to meet the submittal requirements in Oregon Administrative Rule (OAR) 345-021-0010(1)(w).

## 2.0 Estimated Useful Life of the Project

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

*(A) The estimated useful life of the proposed facility.*

The estimated useful life of the Facility is estimated to be 50 years. This assumes that solar panels and supporting equipment are designed to have a useful life of 35 years or more. 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.

At the end of that period, the Facility may be decommissioned; its useful life could be extended if equipment continues to function well with routine maintenance; or the Facility could be repowered with newer-generation equipment in the same locations. While retirement of the Facility is possible, the need for electricity generation and transmission, along with supporting facilities, is expected to increase into the foreseeable future. Substantial changes to the Facility associated with repowering may be approved by the Energy Facility Siting Council (Council) through the procedures outlined in OAR Chapter 345, Division 027.

## 3.0 Actions to Restore the Site

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

*The Retirement Plan will include, pursuant to OAR 345-027-0110(5), the following information:*

*(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.*

*(d) An updated list of the owners of property located within or adjacent to the site of the facility, as described in OAR 345-021-0010(1)(f).*

Prior to retiring the Facility, the Applicant will prepare a final Retirement Plan for approval by the Council (per OAR 345-025-0006(9)). The Applicant will coordinate the development of the final Retirement Plan with the appropriate regulatory agencies and landowners. 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). After Council approval of the Retirement Plan, the Applicant will obtain the necessary authorization from the appropriate regulatory agencies to proceed with restoration of the site.

The final Retirement Plan is anticipated to include the following specific actions to decommission the Facility:

- **Removal of all facilities.** Facilities to be removed will include aboveground solar and battery components, the operations and maintenance (O&M) building, transmission and overhead collector lines, inverter pads, the substation, 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 modules from the poles, and load the modules into a truck or roll-off container for off-site disposal or recycling. Poles will be removed from the ground and recycled as scrap metal. Transformers will be decommissioned and disposed of off-site.
- **Decommission battery 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 V).
- **Removal of foundations.** 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.
- **Site Restoration.** All Facility locations and access roads will be restored to a useful condition consistent with site zoning as coordinated with the landowner. This restoration will include restoring the site to a condition suitable for agricultural uses and uses comparable with the surrounding land uses, intended land use, and then-current technologies.
- **Revegetation:** Vegetation will be restored to the maximum extent practicable, and all areas disturbed by construction shall 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 Reclamation and Revegetation Plan (provided as Attachment P-3 to Exhibit P).

- **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 access roads built for the Facility will be decommissioned.

## 4.0 Decommission Cost Estimate

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

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

Attachment W-1 provides a detailed Facility retirement and restoration cost estimate for the Facility. The total retirement and restoration cost of retirement and restoration for the solar facility is \$28.342 million (in October 2021 dollars; see Attachment W-1). The estimated cost for the energy storage facility is \$1.521 million (included in total cost; see Attachment W-1).

The Applicant's ability to achieve the objectives of the Council's financial assurance rules is described in Exhibit M.

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

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

The scope of work and individual tasks were established using professional experience, in collaboration with the Applicant's engineering staff and contractors. The Facility 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<sup>1</sup>. 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

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<sup>1</sup> [www.rsmeans.com](http://www.rsmeans.com)

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 W-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.
- Roads will be restored pursuant to the Council-approved Retirement Plan so that they become a part of the natural surroundings and are no longer recognizable or usable as a road. On private lands, roads will be restored at the request of the current landowner. 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.
- 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 2021 dollars.
- For estimating purposes, the 230-kilovolt transmission line was assumed to be composed of steel monopoles and cable. Towers were assumed to be recyclable and will be disassembled on-site and shipped off-site. The control building was assumed to have no scrap value.

- Site restoration will include the placement of approximately 5,000 cubic yards of topsoil on disturbed areas, with a final seeding utilizing a mix of native grasses. With the exception of the substation area, it was assumed that topsoil required for restoration 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, four Conex storage units, portable toilets, first aid supplies, and utilities.
- Field management during construction activities has been added to the estimate. These include two Superintendents, two Health and Safety Representatives, and two Field Engineers. 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 W-1), financial assurances will be made so that the Facility is restored to a useful, non-hazardous condition (per OAR 345-025-0006(7)). A phased approach to decommissioning security will be implemented, as described below.

**During Construction.** Prior to construction, the Applicant will provide a decommissioning bond for the full amount, not including scrap value. The amount will be scaled to the actual Facility size based on final design using the unit costs in Attachment W-1. The bond will be an amount satisfactory to the Council to restore the site to a useful, non-hazardous conditions and will be maintained in effect at all times until the Facility has been retired (per OAR 345-025-0006(8)). The Applicant understands that the Council may specify different amounts for the bond during construction and operation of the Facility.

### During Operations

- **Phasing.** Each phase of the Facility will hold separate financial assurances for decommissioning that portion of the Facility.
- **Shared Facilities.** Supporting facilities that are shared with other projects may not be decommissioned at the same time as the Facility. For example, if the Wheatridge Renewable Energy Facilities<sup>2</sup> (located in Morrow County, adjacent to the Facility) share the O&M

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<sup>2</sup> Wheatridge Renewable Energy Facility I, II, III, and East



building, then the obligation to decommission the O&M building would be transferred to those facilities. The Applicant shall provide a shared facilities agreement or other real estate rights at the time of decommissioning to demonstrate remaining components will be used for other facilities.

The Applicant asserts that a phased approach to the decommissioning bond could be made in partnership with one or more equity investors in a project in compliance with OAR 345-022-0050. Independent evaluators may perform due diligence for equity investors. Once a project has begun commercial operations, the bond will be reduced to \$1.00. In the event that the project owner becomes insolvent during the lifetime of the Facility, the project's equity investors would ensure the project would remain operational. An Officer's Certificate could be provided by the Applicant affirming the length of the Power Purchase Agreement or other acceptable proof of contracted agreement could be provided in lieu of the bond amount (greater than \$1.00).

## 6.0 Monitoring Plan

*OAR 345-021-0010(1)(w)(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 7a 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, including Exclusive Farm Use zoning (per OAR 345-025-0006(9)). The Facility will be retired according to the final Retirement Plan approved by the Council (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. Note, used Li-ion batteries are not considered hazardous waste by the U.S. Environmental Protection Agency. The Facility 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 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 W-1. Submittal Requirements Matrix**

Requirement	Location
OAR 345-021-0010(1)(w) Information about site restoration, providing evidence to support a finding by the Council as required by OAR 345-022-0050(1). The applicant shall 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.	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 W-2. Approval Standard**

Requirement	Location
<b>OAR 345-022-0050 Retirement and Financial Assurances</b>	
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

## **Attachment W-1. Estimated Retirement and Restoration Cost**

**Estimate Summary****TETRA TECH EC, INC.****Job Code: Wagon Trail Solar****Description: Decommissioning Estimate**

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1	1.00 Lump Sum	WAGON TRAIL SOLAR RETIREMENT	1,590.73	0.00	Detail	U.S. Dollar	28,342,664.72	28,342,664.72
1.1	1.00 Lump Sum	Equipment & Facilities Mob / Demob	5.00	0.20	Detail	U.S. Dollar	269,918.33	269,918.33
1.1.1	1.00 Lump Sum	Equipment Mob	0.00	0.00	Detail	U.S. Dollar	122,400.00	122,400.00
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		16.00 Each		U.S. Dollar		150.00	2,400.00
1.1.2	1.00 Lump Sum	Site Facilities	0.00	0.00	Detail	U.S. Dollar	4,400.00	4,400.00
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
UOCONMOB	Connex Box Mob		4.00 Each		U.S. Dollar		300.00	1,200.00
UOTRLTRN	Trailer Trnsp/Setup/Trdwn		4.00 Each		U.S. Dollar		800.00	3,200.00
1.1.3	3.00 Day	Crew Mob & Site Setup	3.00	1.00	Detail	U.S. Dollar	28,623.67	85,871.00
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	1,440.00	48.00 Each (hourly)		U.S. Dollar		45.44	65,439.79
L010101	OPERATOR	360.00	12.00 Each (hourly)		U.S. Dollar		56.75	20,431.21
1.1.4	2.00 Day	Crew Demob & Site Cleanup	2.00	1.00	Detail	U.S. Dollar	28,623.67	57,247.33
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	960.00	48.00 Each (hourly)		U.S. Dollar		45.44	43,626.53
L010101	OPERATOR	240.00	12.00 Each (hourly)		U.S. Dollar		56.75	13,620.80
1.2	1.00 Lump Sum	Project Site Support	264.00	0.00	Detail	U.S. Dollar	1,336,854.79	1,336,854.79
1.2.1	12.00 Month	Site Facilities	0.00	0.00	Detail	U.S. Dollar	3,510.00	42,120.00
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
URCONNEX	Connex Box		48.00 Month		U.S. Dollar		150.00	7,200.00
UROFFTRL	Office Trailer -12x60		24.00 Month		U.S. Dollar		500.00	12,000.00
UO1STAD	1st Aid Supplies		24.00 Month		U.S. Dollar		300.00	7,200.00
UOOFFSUP	Office Supplies(\$/prs/mo)		24.00 Month		U.S. Dollar		55.00	1,320.00
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	264.00	0.05	Detail	U.S. Dollar	107,894.57	1,294,734.79
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
L90FXX02	Field - Proj Superintendent	5,280.00	2.00 Each (hourly)		U.S. Dollar		83.18	439,200.96
RPUTRK05	F-250 4X4 3/4 TON PICKUP	15,840.00	6.00 Each (hourly)		U.S. Dollar		11.07	175,269.60
L90FEL00	Field - Engr. Tech	5,280.00	2.00 Each (hourly)		U.S. Dollar		39.57	208,950.84
L90FXX03	Field - SHSO	5,280.00	2.00 Each (hourly)		U.S. Dollar		89.26	471,313.39
1.3	1.00 Lump Sum	Substation & T-Line Retirement	101.18	0.01	Detail	U.S. Dollar	691,767.42	691,767.42
1.3.1	1.00 Lump Sum	Substation Retirement	60.74	0.02	Detail	U.S. Dollar	493,682.56	493,682.56
1.3.1.1	1.00 Day	Fence Removal	1.00	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
1.3.1.2	1.00 Each	Transformer Removal	18.00	0.06	Detail	U.S. Dollar	282,148.74	282,148.74

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1.3.1.2.1	3.00 Each	Oil Removal & Disposal	3.00	1.00	Detail	U.S. Dollar	58,283.89	174,851.66
1.3.1.2.1.1	3.00 Each	Oil Removal	3.00	1.00	Detail	U.S. Dollar	908.89	2,726.66
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	60.00	2.00 Each (hourly)		U.S. Dollar		45.44	2,726.66
1.3.1.2.1.2	42,000.00 Gallon	Oil Disposal	0.00	0.00	Detail	U.S. Dollar	4.00	168,000.00
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
USDISPOSAL	Disposal Fee's		168,000.00 Each		U.S. Dollar		1.00	168,000.00
1.3.1.2.1.3	3.00 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	4,125.00
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
USTRUCKING	Trucking Sub		4,125.00 Each		U.S. Dollar		1.00	4,125.00
1.3.1.2.2	3.00 Each	Dismantle & Loadout Transformer	15.00	0.20	Detail	U.S. Dollar	35,765.70	107,297.09
1.3.1.2.2.1	3.00 Each	Dismantle, Cut & Size	15.00	0.20	Detail	U.S. Dollar	30,265.70	90,797.09
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	600.00	4.00 Each (hourly)		U.S. Dollar		45.44	27,266.58
L010101	OPERATOR	300.00	2.00 Each (hourly)		U.S. Dollar		56.75	17,026.01
*REXCAV06A	Excav 100K w/ Bucket & Grapple	150.00	1.00 Each (hourly)		U.S. Dollar		124.54	18,680.25
*REXCAV06E	Excav 100K w/ Shear	150.00	1.00 Each (hourly)		U.S. Dollar		185.50	27,824.25
1.3.1.2.2.2	12.00 Each	Trucking - Per Load	0.00	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
1.3.1.3	1.00 Each	Remove Control Building	0.50	2.00	Detail	U.S. Dollar	2,508.66	2,508.66
1.3.1.3.1	1.00 Each	Demo	0.50	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
1.3.1.3.2	1.00 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	1,375.00
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
USTRUCKING	Trucking Sub		1,375.00 Each		U.S. Dollar		1.00	1,375.00
1.3.1.4	3.00 Day	UG Utility & Ground Removal	3.00	1.00	Detail	U.S. Dollar	1,354.33	4,062.98
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
L010101	OPERATOR	30.00	1.00 Each (hourly)		U.S. Dollar		56.75	1,702.60
L060100	GENERAL LABORER	30.00	1.00 Each (hourly)		U.S. Dollar		45.44	1,363.33
RBACKH09	Deere 710J BACKHOE, 1.62CY	30.00	1.00 Each (hourly)		U.S. Dollar		33.24	997.05
1.3.1.5	1,000.00 Cubic Yard	Remove Foundations To Subgrade	13.57	73.68	Detail	U.S. Dollar	27.85	27,846.68
1.3.1.5.1	1,000.00 Cubic Yard	Excavate / Remove Foundation - Various Depth	3.57	280.00	Detail	U.S. Dollar	15.87	15,873.25

Cost Item								
CBS Position Code	Quantity UM	Description	Days	Cost UM/Day	Source	Currency	Unit Cost	Total Cost
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		
*REXCAV06A	Excav 100K w/ Bucket & Grapple	35.71	1.00 Each (hourly)	U.S. Dollar	124.54	4,447.68		
1.3.1.5.2	1,000.00 Cubic Yard	Concrete Transport Offsite	10.00	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		
1.3.1.6	1.00 Lump Sum	Misc. Material Disposal	0.00	0.00 Detail	U.S. Dollar	1,975.00	1,975.00	
1.3.1.6.1	1.00 Each	Trucking - Per Load	0.00	0.00 Detail	U.S. Dollar	1,375.00	1,375.00	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		1,375.00 Each	U.S. Dollar	1.00	1,375.00		
1.3.1.6.2	20.00 Ton	Disposal Cost	0.00	0.00 Detail	U.S. Dollar	30.00	600.00	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USDISPOSAL	Disposal Fee's		600.00 Each	U.S. Dollar	1.00	600.00		
1.3.1.7	1.00 Lump Sum	Restore Yard	24.67	0.04 Detail	U.S. Dollar	173,786.17	173,786.17	
1.3.1.7.1	16.00 Acre	Backfill / Regrade	8.00	2.00 Detail	U.S. Dollar	1,692.29	27,076.72	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	160.00	2.00 Each (hourly)	U.S. Dollar	45.44	7,271.09		
L010101	OPERATOR	160.00	2.00 Each (hourly)	U.S. Dollar	56.75	9,080.54		
REXCAV06B	Gradall - Excavator	80.00	1.00 Each (hourly)	U.S. Dollar	75.73	6,058.29		
*RDOZER08	CAT D6 LGP Dozer	80.00	1.00 Each (hourly)	U.S. Dollar	58.34	4,666.80		
1.3.1.7.2	5,000.00 Cubic Yard	Vegetative Cover	16.67	300.00 Detail	U.S. Dollar	27.74	138,709.45	
1.3.1.7.2.1	5,000.00 Cubic Yard	Topsoil, Delivered	0.00	0.00 Detail	U.S. Dollar	20.00	100,000.00	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
IMSOIL	Topsoil		5,000.00 Cubic Yard	U.S. Dollar	20.00	100,000.00		
1.3.1.7.2.2	5,000.00 Cubic Yard	Placement	16.67	300.00 Detail	U.S. Dollar	7.74	38,709.45	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L010101	OPERATOR	333.33	2.00 Each (hourly)	U.S. Dollar	56.75	18,917.78		
RDOZER08	CAT D6N XL	333.33	2.00 Each (hourly)	U.S. Dollar	59.38	19,791.67		
1.3.1.7.3	16.00 Acre	Re-Seed With Native Vegetation	0.00	0.00 Detail	U.S. Dollar	500.00	8,000.00	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USLANDSCAPE	Landscape Sub		16.00 Acre	U.S. Dollar	500.00	8,000.00		
1.3.2	1.00 Lump Sum	Transmission Line Retirement	40.44	0.02 Detail	U.S. Dollar	198,084.86	198,084.86	
1.3.2.1	20.00 Each	Structure Removal	20.00	1.00 Detail	U.S. Dollar	4,978.95	99,578.97	
1.3.2.1.1	20.00 Each	Cut / Lower Structure	10.00	2.00 Detail	U.S. Dollar	1,914.80	38,296.06	

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	400.00	4.00 Each (hourly)		U.S. Dollar		45.44	18,177.72
L010101	OPERATOR	100.00	1.00 Each (hourly)		U.S. Dollar		56.75	5,675.34
*RXMISC14	MAN LIFT GAS 125ft	100.00	1.00 Each (hourly)		U.S. Dollar		53.52	5,352.00
*RXMISC23	GROVE RT 200 TON	100.00	1.00 Each (hourly)		U.S. Dollar		90.91	9,091.00
1.3.2.1.2	20.00 Each	Cut / Size Structure & Loadout	10.00	2.00 Detail	U.S. Dollar		2,101.65	42,032.92
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	600.00	6.00 Each (hourly)		U.S. Dollar		45.44	27,266.58
L010101	OPERATOR	100.00	1.00 Each (hourly)		U.S. Dollar		56.75	5,675.34
*RXMISC23	GROVE RT 200 TON	100.00	1.00 Each (hourly)		U.S. Dollar		90.91	9,091.00
1.3.2.1.3	14.00 Each	Trucking - Per Load	0.00	0.00 Detail	U.S. Dollar		1,375.00	19,250.00
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
USTRUCKING	Trucking Sub		19,250.00 Each		U.S. Dollar		1.00	19,250.00
<b>Notes:</b> ***** Assume 9 ton per steel structure and cable span *****								
1.3.2.2	20.00 Each	Remove Foundations To Subgrade	20.44	0.98 Detail	U.S. Dollar		4,925.29	98,505.89
1.3.2.2.1	20.00 Each	Excavate / Remove Foundation - Various Depth	20.00	1.00 Detail	U.S. Dollar		4,898.95	97,979.06
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	400.00	2.00 Each (hourly)		U.S. Dollar		45.44	18,177.72
L010101	OPERATOR	400.00	2.00 Each (hourly)		U.S. Dollar		56.75	22,701.34
*REXCAV06C	Excav 100K w/ Hammer	200.00	1.00 Each (hourly)		U.S. Dollar		160.97	32,193.00
*REXCAV06A	Excav 100K w/ Bucket & Grapple	200.00	1.00 Each (hourly)		U.S. Dollar		124.54	24,907.00
1.3.2.2.2	33.00 Cubic Yard	Concrete Transport Offsite	0.44	75.00 Detail	U.S. Dollar		15.96	526.83
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
RDUTRK06	CAT D350D, 18CY-24CY	4.40	1.00 Each (hourly)		U.S. Dollar		74.29	326.88
L080940	TEAMSTER	4.40	1.00 Each (hourly)		U.S. Dollar		45.44	199.95
1.4	1.00 Each	O&M Building Removal	4.70	0.21 Detail	U.S. Dollar		26,163.89	26,163.89
1.4.1	40.00 Ton	Structure Demo	4.00	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
1.4.2	50.00 Cubic Yard	Remove Foundations To Subgrade	0.70	71.43 Detail	U.S. Dollar		35.74	1,786.88
1.4.2.1	50.00 Cubic Yard	Excavate / Remove Foundation - Various Depth	0.20	250.00 Detail	U.S. Dollar		17.78	888.90
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	2.00	1.00 Each (hourly)		U.S. Dollar		45.44	90.89
L010101	OPERATOR	4.00	2.00 Each (hourly)		U.S. Dollar		56.75	227.01
*REXCAV06C	Excav 100K w/ Hammer	2.00	1.00 Each (hourly)		U.S. Dollar		160.97	321.93
*REXCAV06A	Excav 100K w/ Bucket & Grapple	2.00	1.00 Each (hourly)		U.S. Dollar		124.54	249.07
1.4.2.2	50.00 Cubic Yard	Concrete Transport Offsite	0.50	100.00 Detail	U.S. Dollar		17.96	897.98

Cost Item								
CBS Position Code	Quantity UM	Description	Days	Cost UM/Day	Source	Currency	Unit Cost	Total Cost
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
RDUTRK06	CAT D350D, 18CY-24CY	5.00	1.00 Each (hourly)	U.S. Dollar	74.29	371.45		
L080940	TEAMSTER	5.00	1.00 Each (hourly)	U.S. Dollar	45.44	227.22		
L010101	OPERATOR	2.50	0.50 Each (hourly)	U.S. Dollar	56.75	141.88		
RFELWH09	CAT 966F LOADER, 4.25CY	2.50	0.50 Each (hourly)	U.S. Dollar	62.97	157.43		
1.4.3	40.00 Ton	Material T&D	0.00	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		
1.5	3.00 Each	MET Tower Removal	2.12	1.42 Detail	U.S. Dollar	3,932.80	11,798.41	
1.5.1	3.00 Each	Structure Demo	1.50	2.00 Detail	U.S. Dollar	2,572.13	7,716.38	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
*REXCAV06A	Excav 100K w/ Bucket & Grapple	15.00	1.00 Each (hourly)	U.S. Dollar	124.54	1,868.03		
*REXCAV06E	Excav 100K w/ Shear	15.00	1.00 Each (hourly)	U.S. Dollar	185.50	2,782.43		
L010101	OPERATOR	30.00	2.00 Each (hourly)	U.S. Dollar	56.75	1,702.60		
L060100	GENERAL LABORER	30.00	2.00 Each (hourly)	U.S. Dollar	45.44	1,363.33		
1.5.2	45.00 Cubic Yard	Remove Foundation	0.31	146.00 Detail	U.S. Dollar	48.47	2,181.00	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	6.16	2.00 Each (hourly)	U.S. Dollar	45.44	280.14		
L010101	OPERATOR	9.25	3.00 Each (hourly)	U.S. Dollar	56.75	524.77		
*REXCAV06C	Excav 100K w/ Hammer	6.16	2.00 Each (hourly)	U.S. Dollar	160.97	992.25		
*REXCAV06A	Excav 100K w/ Bucket & Grapple	3.08	1.00 Each (hourly)	U.S. Dollar	124.54	383.84		
1.5.3	45.00 Cubic Yard	Concrete Transport Offsite	0.31	146.67 Detail	U.S. Dollar	12.25	551.03	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
RDUTRK06	CAT D350D, 18CY-24CY	3.07	1.00 Each (hourly)	U.S. Dollar	74.29	227.94		
L080940	TEAMSTER	3.07	1.00 Each (hourly)	U.S. Dollar	45.44	139.43		
L010101	OPERATOR	1.53	0.50 Each (hourly)	U.S. Dollar	56.75	87.06		
RFELWH09	CAT 966F LOADER, 4.25CY	1.53	0.50 Each (hourly)	U.S. Dollar	62.97	96.60		
1.5.4	30.00 Ton	Structure Salvage & Recovery	0.00	0.00 Detail	U.S. Dollar	45.00	1,350.00	
1.5.4.1	30.00 Ton	Scrap Trucking Cost	0.00	0.00 Detail	U.S. Dollar	45.00	1,350.00	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		1,350.00 Each	U.S. Dollar	1.00	1,350.00		
1.6	500.00 MW	Battery Storage Retirement	187.85	2.66 Detail	U.S. Dollar	3,042.73	1,521,366.39	
1.6.1	500.00 MW	Battery Removal & Disposal	100.00	5.00 Detail	U.S. Dollar	1,984.51	992,254.80	
1.6.1.1	100.00 Day	Remove Batteries, Load For Transport	100.00	1.00 Detail	U.S. Dollar	3,159.56	315,955.80	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	6,000.00	6.00 Each (hourly)	U.S. Dollar	45.44	272,665.80		
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	2,000.00	2.00 Each (hourly)	U.S. Dollar	21.65	43,290.00		
1.6.1.2	165.00 Each	Transport Batteries	0.00	0.00 Detail	U.S. Dollar	1,480.60	244,299.00	
1.6.1.2.1	165.00 Each	Roll Off Liners	0.00	0.00 Detail	U.S. Dollar	105.60	17,424.00	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
UODCLINER	Rolloff Liner		165.00 Each	U.S. Dollar	105.60	17,424.00		



Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1.6.1.2.2	165.00 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	226,875.00
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
USTRUCKING	Trucking Sub		226,875.00 Each		U.S. Dollar		1.00	226,875.00
1.6.1.3	2,160.00 Ton	Disposal Fee's	0.00	0.00	Detail	U.S. Dollar	200.00	432,000.00
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
USDISPOSAL	Disposal Fee's		432,000.00 Each		U.S. Dollar		1.00	432,000.00
1.6.2	500.00 MW	Structure & Components Removal	87.85	5.69	Detail	U.S. Dollar	1,058.22	529,111.59
1.6.2.1	50.00 Day	Refrigerant Recovery	50.00	1.00	Detail	U.S. Dollar	1,275.93	63,796.40
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
L010110	Craft - MEP	1,000.00	2.00 Each (hourly)		U.S. Dollar		63.80	63,796.40
1.6.2.2	1,640.00 Ton	Structure Demo	37.85	43.33	Detail	U.S. Dollar	118.71	194,690.19
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
*REXCAV06A	Excav 100K w/ Bucket & Grapple	378.46	1.00 Each (hourly)		U.S. Dollar		124.54	47,131.71
*REXCAV06E	Excav 100K w/ Shear	378.46	1.00 Each (hourly)		U.S. Dollar		185.50	70,202.72
L010101	OPERATOR	756.92	2.00 Each (hourly)		U.S. Dollar		56.75	42,957.92
L060100	GENERAL LABORER	756.92	2.00 Each (hourly)		U.S. Dollar		45.44	34,397.84
1.6.2.3	165.00 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	226,875.00
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
USTRUCKING	Trucking Sub		226,875.00 Each		U.S. Dollar		1.00	226,875.00
1.6.2.4	43,750.00 Gallon	Glycol Recovery & Disposal	0.00	0.00	Detail	U.S. Dollar	1.00	43,750.00
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
USLIQUID	Liquids T&D		43,750.00 Each		U.S. Dollar		1.00	43,750.00
1.7	1.00 Lump Sum	Solar Array Retirement	919.39	0.00	Detail	U.S. Dollar	13,671,584.89	13,671,584.89
1.7.1	243,236.00 Linear Feet	Fence Removal	47.46	5,124.80	Detail	U.S. Dollar	1.32	322,169.42
1.7.1.1	243,236.00 Linear Feet	Fence Removal	47.46	5,124.80	Detail	U.S. Dollar	1.06	257,546.36
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
L010101	OPERATOR	1,423.88	3.00 Each (hourly)		U.S. Dollar		56.75	80,809.74
L060100	GENERAL LABORER	2,847.75	6.00 Each (hourly)		U.S. Dollar		45.44	129,414.10
RBACKH09	Deere 710J BACKHOE, 1.62CY	1,423.88	3.00 Each (hourly)		U.S. Dollar		33.24	47,322.52
1.7.1.2	47.00 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	64,623.07
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
USTRUCKING	Trucking Sub		64,623.07 Each		U.S. Dollar		1.00	64,623.07
1.7.2	178.00 Each	Inverter / Transformer Removal	356.00	0.50	Detail	U.S. Dollar	5,616.16	999,676.93
1.7.2.1	178.00 Each	Disconnect Electrical	178.00	1.00	Detail	U.S. Dollar	1,203.06	214,144.15
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
L010110	Craft - MEP	1,780.00	1.00 Each (hourly)		U.S. Dollar		63.80	113,557.59
L060100	GENERAL LABORER	1,780.00	1.00 Each (hourly)		U.S. Dollar		45.44	80,890.85
RPUTRK05	F-250 4X4 3/4 TON PICKUP	1,780.00	1.00 Each (hourly)		U.S. Dollar		11.07	19,695.70
1.7.2.2	178.00 Each	Loadout Inverter & Transformer	178.00	1.00	Detail	U.S. Dollar	3,038.11	540,782.78
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	7,120.00	4.00 Each (hourly)		U.S. Dollar		45.44	323,563.42
L010101	OPERATOR	1,780.00	1.00 Each (hourly)		U.S. Dollar		56.75	101,020.96

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
RHYDCR06	GROVE RT880 73 TON	1,780.00	1.00	Each (hourly)	U.S. Dollar		65.28	116,198.40
1.7.2.3	178.00 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	244,750.00
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
USTRUCKING	Trucking Sub		244,750.00	Each	U.S. Dollar		1.00	244,750.00
1.7.3	178.00 Each	Remove Foundations To Subgrade	231.91	0.77	Detail	U.S. Dollar	2,673.28	475,844.07
<b>Notes:</b> ***** Assumption: 24x36x1 concrete pad per inverter/ transformer *****								
1.7.3.1	17,088.00 Cubic Yard	Excavate / Remove Foundation	61.03	280.00	Detail	U.S. Dollar	15.87	271,242.10
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	610.29	1.00	Each (hourly)	U.S. Dollar		45.44	27,734.01
L010101	OPERATOR	1,220.57	2.00	Each (hourly)	U.S. Dollar		56.75	69,271.52
*REXCAV06C	Excav 100K w/ Hammer	610.29	1.00	Each (hourly)	U.S. Dollar		160.97	98,234.64
*REXCAV06A	Excav 100K w/ Bucket & Grapple	610.29	1.00	Each (hourly)	U.S. Dollar		124.54	76,001.93
1.7.3.2	17,088.00 Cubic Yard	Concrete Transport Offsite	170.88	100.00	Detail	U.S. Dollar	11.97	204,601.97
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
RDUTRK06	CAT D350D, 18CY-24CY	1,708.80	1.00	Each (hourly)	U.S. Dollar		74.29	126,946.75
L080940	TEAMSTER	1,708.80	1.00	Each (hourly)	U.S. Dollar		45.44	77,655.22
1.7.4	965,007.00 Each	Solar Panel Removal & Disposal	172.32	5,600.00	Detail	U.S. Dollar	5.84	5,639,622.20
1.7.4.1	965,007.00 Each	Solar Panel Removal	172.32	5,600.00	Detail	U.S. Dollar	3.11	3,003,292.20
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	10,339.36	6.00	Each (hourly)	U.S. Dollar		21.65	223,795.46
L010101	OPERATOR	10,339.36	6.00	Each (hourly)	U.S. Dollar		56.75	586,793.36
L060100	GENERAL LABORER	48,250.35	28.00	Each (hourly)	U.S. Dollar		45.44	2,192,703.38
<b>Notes:</b> ***** Assumed production: 20 panels per laborer per hour, Includes packaging and preparing for shipment offsite. *****								
1.7.4.2	1,286.00 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	1,768,250.00
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
USTRUCKING	Trucking Sub		1,768,250.00	Each	U.S. Dollar		1.00	1,768,250.00
<b>Notes:</b> ***** Assumption: 45,000 lbs per load *****								
1.7.4.3	28,936.00 Ton	Disposal Cost	0.00	0.00	Detail	U.S. Dollar	30.00	868,080.00
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
USDISPOSAL	Disposal Fee's		868,080.00	Each	U.S. Dollar		1.00	868,080.00
<b>Notes:</b> ***** Assumption: 965,007 modules x 59.97 lbs each *****								
1.7.5	1.00 Lump Sum	Solar Rack (Trackers) & Post Removal	111.69	0.01	Detail	U.S. Dollar	6,234,272.27	6,234,272.27
1.7.5.1	17,871.00 Each	Solar Rack (Trackers) & Post Removal	111.69	160.00	Detail	U.S. Dollar	257.21	4,596,647.27
Resource Code	Description	Hours	Quantity UM		Currency		Unit Cost	Total Cost
L010101	OPERATOR	17,871.00	16.00	Each (hourly)	U.S. Dollar		56.75	1,014,239.12
L060100	GENERAL LABORER	17,871.00	16.00	Each (hourly)	U.S. Dollar		45.44	812,135.09
*REXCAV06A	Excav 100K w/ Bucket & Grapple	8,935.50	8.00	Each (hourly)	U.S. Dollar		124.54	1,112,782.49
*REXCAV06E	Excav 100K w/ Shear	8,935.50	8.00	Each (hourly)	U.S. Dollar		185.50	1,657,490.57

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
<b>Notes:</b> ***** 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. *****								
1.7.5.2	1,191.00 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	1,637,625.00
<b>Resource Code</b>	<b>Description</b>	<b>Hours</b>	<b>Quantity UM</b>		<b>Currency</b>		<b>Unit Cost</b>	<b>Total Cost</b>
USTRUCKING	Trucking Sub		1,637,625.00 Each		U.S. Dollar		1.00	1,637,625.00
<b>Notes:</b> ***** Assumption: 45,000 lbs per load *****								
1.8	1.00 Lump Sum	Site Restoration - Partial Site Seeding	106.51	0.01	Detail	U.S. Dollar	945,308.60	945,308.60
1.8.1	248,160.00 Linear Feet	Decompact Roads	49.63	5,000.00	Detail	U.S. Dollar	0.92	228,482.60
<b>Resource Code</b>	<b>Description</b>	<b>Hours</b>	<b>Quantity UM</b>		<b>Currency</b>		<b>Unit Cost</b>	<b>Total Cost</b>
*RDOZER08	CAT D6 LGP Dozer	1,985.28	4.00 Each (hourly)		U.S. Dollar		58.34	115,811.31
L010101	OPERATOR	1,985.28	4.00 Each (hourly)		U.S. Dollar		56.75	112,671.29
<b>Notes:</b> ***** Decompaction to include discing and regrading *****								
1.8.2	910.00 Acre	Spot Grade Disturbed Areas	56.88	16.00	Detail	U.S. Dollar	287.72	261,826.00
<b>Resource Code</b>	<b>Description</b>	<b>Hours</b>	<b>Quantity UM</b>		<b>Currency</b>		<b>Unit Cost</b>	<b>Total Cost</b>
*RDOZER08	CAT D6 LGP Dozer	2,275.00	4.00 Each (hourly)		U.S. Dollar		58.34	132,712.13
L010101	OPERATOR	2,275.00	4.00 Each (hourly)		U.S. Dollar		56.75	129,113.87
<b>Notes:</b> ***** Assumption: 3,638 acres total property area. Assume that 25% of the area disturbed by construction will be regraded. *****								
1.8.3	910.00 Acre	Re-Seed With Native Vegetation - Roads & Areas Disturbed By Construction	0.00	0.00	Detail	U.S. Dollar	500.00	455,000.00
<b>Resource Code</b>	<b>Description</b>	<b>Hours</b>	<b>Quantity UM</b>		<b>Currency</b>		<b>Unit Cost</b>	<b>Total Cost</b>
USLANDSCAPE	Landscape Sub		910.00 Acre		U.S. Dollar		500.00	455,000.00
<b>Notes:</b> ***** Assumption: 3,638 acres total property area. Assume that 25% of the area disturbed by construction will be re-seeded. *****								
1.9	1.00 Lump Sum	Contractor Markups	0.00	0.00	Detail	U.S. Dollar	4,948,927.10	4,948,927.10
1.9.1	1.00 Lump Sum	Home Office, Project Management (5% Of Cost)	0.00	0.00	Detail	U.S. Dollar	923,738.15	923,738.15
<b>Resource Code</b>	<b>Description</b>	<b>Hours</b>	<b>Quantity UM</b>		<b>Currency</b>		<b>Unit Cost</b>	<b>Total Cost</b>
USMARKUP5	5% Markup		18,474,763.00 Each		U.S. Dollar		0.05	923,738.15
1.9.2	1.00 Lump Sum	Contractor Contingency (5% Of Cost)	0.00	0.00	Detail	U.S. Dollar	969,925.05	969,925.05
<b>Resource Code</b>	<b>Description</b>	<b>Hours</b>	<b>Quantity UM</b>		<b>Currency</b>		<b>Unit Cost</b>	<b>Total Cost</b>
USMARKUP5	5% Markup		19,398,501.00 Each		U.S. Dollar		0.05	969,925.05
1.9.3	1.00 Lump Sum	Contractor OH & Fee (15% Of Cost)	0.00	0.00	Detail	U.S. Dollar	3,055,263.90	3,055,263.90
<b>Resource Code</b>	<b>Description</b>	<b>Hours</b>	<b>Quantity UM</b>		<b>Currency</b>		<b>Unit Cost</b>	<b>Total Cost</b>
USMARKUP	15% Markup		20,368,426.00 Each		U.S. Dollar		0.15	3,055,263.90
1.10	1.00 Lump Sum	ODOE Applied Contingencies	0.00	0.00	Detail	U.S. Dollar	4,918,974.90	4,918,974.90

Cost Item									
CBS Position Code	Quantity	UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1.10.1	1.00	Lump Sum	1% Performance Bond	0.00	0.00	Detail	U.S. Dollar	234,236.90	234,236.90
Resource Code	Description	Hours	Quantity	UM	Currency	Unit Cost	Total Cost		
UODOE1	ODOE 1% Markup		23,423,690.00	Each	U.S. Dollar	0.01	234,236.90		
1.10.2	1.00	Lump Sum	10% Administrative and Project Management	0.00	0.00	Detail	U.S. Dollar	2,342,369.00	2,342,369.00
Resource Code	Description	Hours	Quantity	UM	Currency	Unit Cost	Total Cost		
UODOE2	ODOE 10% Markup		23,423,690.00	Each	U.S. Dollar	0.10	2,342,369.00		
1.10.3	1.00	Lump Sum	10% Future Development Contingency	0.00	0.00	Detail	U.S. Dollar	2,342,369.00	2,342,369.00
Resource Code	Description	Hours	Quantity	UM	Currency	Unit Cost	Total Cost		
UODOE2	ODOE 10% Markup		23,423,690.00	Each	U.S. Dollar	0.10	2,342,369.00		
Report Total:				1,590.73					28,342,664.72

Category	Total
Labor	7,735,917.93
Rented Equipment	4,293,897.73
Supplies	25,944.00
Materials	100,000.00
Subcontract	11,219,780.17
Travel-Risk-Adj	43,750.00
ODCs	4,923,374.90