

Preliminary Application for Site Certificate for the Muddy Creek Energy Park

Exhibit F. Retirement and Financial Assurance Exhibit

**Submitted to the
Oregon Energy Facility Siting Council**

**Prepared for
Muddy Creek Energy Park, LLC**

Prepared by



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May 2026

Table of Contents

1.0	Introduction.....	1
2.0	Project Retirement – OAR 345-022-0050(2).....	1
2.1	Estimated Useful Life of the Project – OAR 345-022-0050(2)(a).....	1
2.2	Actions to Restore the Project Site – OAR 345-022-0050(2)(b).....	2
2.3	Retirement Costs – OAR 345-022-0050(2)(c).....	3
2.4	Retirement Cost Methods and Assumptions – OAR 345-022-0050(2)(d)	3
2.5	Monitoring Plan for Site Contamination – OAR 345-022-0050(2)(e).....	4
3.0	Financial Assurance – OAR 345-022-0050(4)(a).....	4
3.1	Opinion of Legal Counsel – OAR 345-022-0050(4)(a)(A).....	5
3.2	Proposed Bond or Letter of Credit – OAR 345-022-0050(4)(a)(B)(C).....	5
4.0	Material Analysis – OAR 345-022-0050(4)(b).....	5
5.0	Approval Standards and Submittal Requirements.....	6

List of Tables

Table F-1.	Approval Standards and Submittal Requirements Matrix.....	6
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List of Appendices

Attachment F-1. Retirement Calculations

Attachment F-2. Opinion of Legal Counsel

Attachment F-3. Bank Letter Regarding a Bond or Letter of Credit (Pending)

Acronyms and Abbreviations

Acronym/Abbreviation	Definition
Applicant	Muddy Creek Energy Park, LLC
BESS	battery energy storage system
EFSC	Oregon Energy Facility Siting Council
Facility	Muddy Creek Energy Park
GSU	Generator Step-up
MW	megawatt
OAR	Oregon Administrative Rules
ODOE	Oregon Department of Energy
ORS	Oregon Revised Statutes

1.0 Introduction

Muddy Creek Energy Park, LLC (Applicant) seeks to develop the Muddy Creek Energy Park (Facility), consisting of a 150-megawatt (MW) solar energy generation facility, a 150-MW battery energy storage system (BESS) project, and related or supporting facilities on approximately 1,590 acres of private land in Linn County, Oregon. This Application for Site Certificate (ASC) demonstrates that the proposed Facility will be designed, constructed, and operated consistent with the relevant Oregon Energy Facility Siting Council (EFSC) siting criteria and standards. In addition to meeting the minimum required EFSC criteria, the Applicant proposes to design, construct, and operate the Facility using agrivoltaics. Agrivoltaics co-locates the Facility with active farm operations to retain agricultural production and minimize agricultural impacts within the Facility Site Boundary.

The information contained herein supports demonstration of compliance with the Retirement and Financial Assurance approval standard for Oregon Administrative Rules (OAR) 345-022-0050.

2.0 Project Retirement – OAR 345-022-0050(2)

(2) To assist the Council in determining whether the standard outlined in (1) has been met, the Applicant must submit information about site restoration, providing evidence to support a finding by the Council as required by this rule. The applicant must include:

2.1 Estimated Useful Life of the Project – OAR 345-022-0050(2)(a)

(a) The estimated useful life of the proposed facility;

The Applicant anticipates the useful life of the Facility will be 20 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 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 20-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 EFSC through the procedures outlined in OAR Chapter 345, Division 27.

2.2 Actions to Restore the Project Site – OAR 345-022-0050(2)(b)

(b) Specific actions and tasks to restore the site to a useful, non-hazardous condition;

Prior to retiring the Facility, the Applicant will obtain the required permits and landowner authorization needed to complete decommissioning of Project components. A description of decommissioning and site restoration activities has been provided below. A retirement and restoration cost estimate is included as Attachment F-1. Detailed assumptions used in preparing the cost estimate are provided as Attachment F-2.

- **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 BESS, collector substation, operations and maintenance (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 4 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 lithium-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 N).
- **Removal of foundations.** Concrete foundations for the BESS, collector substation and transformers, and inverters are assumed to be slab on grade; thus, they will be removed in their entirety. Foundation areas will be filled with soil 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 zoning and coordinated with the landowner. This process will include restoring the site to a condition suitable for agricultural use.
- **Revegetation.** Vegetation will be restored to the maximum extent practicable outside of the solar array area. Within the solar array area, disturbed tall fescue and ryegrasses will be returned to agricultural production. Disturbed areas outside of the solar array area will be returned to agricultural use consistent with the Draft Agrivoltaics Plan (provided as Attachment D-1 to Exhibit D) which will be developed in consultation with the Agrivoltaics Farm Operator and Linn County Noxious Weed Advisory Committee.
- **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.

2.3 Retirement Costs – OAR 345-022-0050(2)(c)

(c) An estimate, in current dollars, of the total and unit costs of restoring the site to a useful, non-hazardous condition;

Attachment F-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 \$10 million (2026 dollars; see Attachment F-1). The Applicant's ability to achieve the objectives of EFSC's financial assurance rules is described in Section 3.0. Decommissioning financial assurances will be in place prior to the start of Facility construction.

2.4 Retirement Cost Methods and Assumptions – OAR 345-022-0050(2)(d)

(d) A discussion and justification of the methods and assumptions used to estimate site restoration costs; and

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 Means¹. 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 are the actual cost to mobilize equipment, facilities, and crew to the Facility site, assuming the work is performed by local contractors. This amount does not include the front-loading of costs from other tasks.

¹ www.rsmeans.com

- 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 F-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 would be restored unless the Applicant is otherwise notified by the landowner so that they become a part of the natural surroundings and are no longer recognizable or usable as a road. On private lands, roads would be restored at the request of the current landowner.
- 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.

2.5 Monitoring Plan for Site Contamination – OAR 345-022-0050(2)(e)

(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, including Exclusive Farm Use zoning. 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 the Generator Step-up (GSU) transformer, which would be pumped out to a specialized vehicle for recycling prior to removing the equipment. The proposed Facility would not have any underground storage tanks or onsite 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.

3.0 Financial Assurance – OAR 345-022-0050(4)(a)

(4) To assist the Council in determining whether the standard outlined in (3) has been met, the Applicant must submit information:

(a) about the applicant's financial capability, providing evidence to support a finding by the Council as required by OAR 345-022-0050(2). Nothing in this section requires the disclosure of information or records protected from public disclosure by any provision of state or federal law. The applicant must include:

3.1 Opinion of Legal Counsel – OAR 345-022-0050(4)(a)(A)

(A) An opinion or opinions from legal counsel stating that, to counsel's best knowledge, the applicant has the legal authority to construct and operate the facility without violating its bond indenture provisions, articles of incorporation, common stock covenants, or similar agreements;

The legal counsel opinion stating that the Applicant has the legal authority to construct and operate the Facility conforming to the requirements of OAR 345-021-0050(4)(a)(A) is included as Attachment F-2.

3.2 Proposed Bond or Letter of Credit – OAR 345-022-0050(4)(a)(B)(C)

(B) The type and amount of the applicant's proposed bond or letter of credit to meet the requirements of OAR 345-022-0050; and

Before Facility construction begins, the Applicant will submit to ODOE a bond or letter of credit in a form and amount approved by the Energy Facility Siting Council. The Applicant will assure that adequate funds are available to restore the site to a useful, nonhazardous condition following permanent cessation of Facility construction or operation. The estimated cost to restore the site to a useful, non-hazardous condition per the requirements of OAR 345-022-0050(4) is approximately \$10 million (2026 dollars). A phased approach by which the bond or letter of credit will be implemented commensurate to the risk that the Facility may require for decommissioning at various stages of construction and operation. The bond or letter of credit will be adjusted for inflation according to the Gross Domestic Product Implicit Price Deflator Index.

(C) Evidence that the applicant has a reasonable likelihood of obtaining the proposed bond or letter of credit in the amount proposed in paragraph (B), before beginning construction of the facility.

The Applicant has requested a letter from Standard Chartered Bank (see pending Attachment F-3) demonstrating that it has a reasonable likelihood to obtain a letter of credit in an amount equal to or greater than the cost of Facility site restoration.

4.0 Material Analysis – OAR 345-022-0050(4)(b)

(b) A materials analysis, including:

(A) An inventory of substantial quantities of industrial materials flowing into and out of the proposed facility during construction and operation;

(B) The applicant's plans to manage hazardous substances during construction and operation, including measures to prevent and contain spills; and

(C) The applicant's plans to manage non-hazardous waste materials during construction and operation.

The materials analysis for the Project can be found in Section 5.3 of the Background Information Exhibit.

5.0 Approval Standards and Submittal Requirements

Table F-1. Approval Standards and Submittal Requirements Matrix

Requirements	Location
OAR 345-022-0050 Retirement and Financial Assurance	-
Approval Standards	
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.	
(3) 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.	
Submittal Requirements	
(2) To assist the Council in determining whether the standard outlined in (1) has been met, the Applicant must submit information about site restoration, providing evidence to support a finding by the Council as required by this rule. The applicant must include:	Section 2.0
(a) The estimated useful life of the proposed facility;	Section 2.1
(b) Specific actions and tasks to restore the site to a useful, non-hazardous condition;	Section 2.2
(c) An estimate, in current dollars, of the total and unit costs of restoring the site to a useful, non-hazardous condition;	Section 2.3
(d) A discussion and justification of the methods and assumptions used to estimate site restoration costs; and	Section 2.4
(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 2.5
(4) To assist the Council in determining whether the standard outlined in (3) has been met, the Applicant must submit information:	Section 3.0

**Preliminary Application for Site Certificate
Exhibit F. Retirement and Financial Assurance Exhibit**

Requirements	Location
(a) about the applicant's financial capability, providing evidence to support a finding by the Council as required by OAR 345-022-0050(2). Nothing in this section requires the disclosure of information or records protected from public disclosure by any provision of state or federal law. The applicant must include:	Section 3.0
(A) An opinion or opinions from legal counsel stating that, to counsel's best knowledge, the applicant has the legal authority to construct and operate the facility without violating its bond indenture provisions, articles of incorporation, common stock covenants, or similar agreements;	Section 3.1
(B) The type and amount of the applicant's proposed bond or letter of credit to meet the requirements of OAR 345-022-0050; and	Section 3.2
(C) Evidence that the applicant has a reasonable likelihood of obtaining the proposed bond or letter of credit in the amount proposed in paragraph (B), before beginning construction of the facility.	Section 3.2
(b) A materials analysis, including:	Section 5.3 of the Background Information Exhibit
(A) An inventory of substantial quantities of industrial materials flowing into and out of the proposed facility during construction and operation;	Section 5.3 of the Background Information Exhibit
(B) The applicant's plans to manage hazardous substances during construction and operation, including measures to prevent and contain spills; and	Section 5.3 of the Background Information Exhibit
(C) The applicant's plans to manage non-hazardous waste materials during construction and operation.	Section 5.3 of the Background Information Exhibit

Attachment F-1. Retirement Calculations

Estimate Summary
TETRA TECH, INC.

Job Code: Muddy Creek Energy Park
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	MUDDY CREEK RETIREMENT	0.00	Detail	U.S. Dollar	9,831,727.47	9,831,727.47
1.1	1.00 Lump Sum	Equipment & Facilities Mob / Demob	0.25	Detail	U.S. Dollar	68,136.96	68,136.96
1.1.1	1.00 Lump Sum	Equipment Mob	0.00	Detail	U.S. Dollar	40,600.00	40,600.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
UERNTRLG	Rental Equip Transp-Large		4.00 Each	U.S. Dollar	10,000.00	40,000.00	
UERNTRSM	Rental Equip Transp-Small		4.00 Each	U.S. Dollar	150.00	600.00	
1.1.2	1.00 Lump Sum	Site Facilities	0.00	Detail	U.S. Dollar	2,200.00	2,200.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
UOCONMOB	Connex Box Mob		2.00 Each	U.S. Dollar	300.00	600.00	
UOTRLTRN	Trailer Trnsp/Setup/Trdwn		2.00 Each	U.S. Dollar	800.00	1,600.00	
1.1.3	2.00 Day	Crew Mob & Site Setup	1.00	Detail	U.S. Dollar	6,334.24	12,668.48
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	160.00	8.00 Each (hourly)	U.S. Dollar	48.31	7,729.92	
L010101	OPERATOR	80.00	4.00 Each (hourly)	U.S. Dollar	61.73	4,938.56	
1.1.4	2.00 Day	Crew Demob & Site Cleanup	1.00	Detail	U.S. Dollar	6,334.24	12,668.48
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	160.00	8.00 Each (hourly)	U.S. Dollar	48.31	7,729.92	
L010101	OPERATOR	80.00	4.00 Each (hourly)	U.S. Dollar	61.73	4,938.56	
1.2	1.00 Lump Sum	Project Site Support	0.01	Detail	U.S. Dollar	454,887.60	454,887.60
1.2.1	6.00 Month	Site Facilities	0.00	Detail	U.S. Dollar	1,305.00	7,830.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
URCONNEX	Connex Box		6.00 Month	U.S. Dollar	150.00	900.00	
UROFFTRL	Office Trailer -12x60		6.00 Month	U.S. Dollar	500.00	3,000.00	
UO1STAI	1st Aid Supplies		6.00 Month	U.S. Dollar	300.00	1,800.00	
UOOFFSUP	Office Supplies(\$/prs/mo)		6.00 Month	U.S. Dollar	55.00	330.00	
URPRTAJH	Port-a-John Unit(s) (4)		6.00 Month	U.S. Dollar	300.00	1,800.00	
1.2.2	6.00 Month	Field Management	0.05	Detail	U.S. Dollar	74,509.60	447,057.60
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L90FXX02	Field - Proj Superintendent	1,320.00	1.00 Each (hourly)	U.S. Dollar	114.95	151,734.00	
RPUTRK05	F-250 4X4 3/4 TON PICKUP	3,960.00	3.00 Each (hourly)	U.S. Dollar	15.14	59,954.40	
L90FEL00	Field - Engr. Tech	1,320.00	1.00 Each (hourly)	U.S. Dollar	73.81	97,429.20	
L90FXX03	Field - SHSO	1,320.00	1.00 Each (hourly)	U.S. Dollar	104.50	137,940.00	
1.3	1.00 Lump Sum	Substation & T-Line Retirement	0.02	Detail	U.S. Dollar	265,133.30	265,133.30
1.3.1	1.00 Lump Sum	Substation Retirement	0.02	Detail	U.S. Dollar	251,254.51	251,254.51
1.3.1.1	1.00 Day	Fence Removal	1.00	Detail	U.S. Dollar	1,534.54	1,534.54
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L010101	OPERATOR	10.00	1.00 Each (hourly)	U.S. Dollar	61.73	617.32	
L060100	GENERAL LABORER	10.00	1.00 Each (hourly)	U.S. Dollar	48.31	483.12	
RBACKH09	Deere 710J BACKHOE, 1.62CY	10.00	1.00 Each (hourly)	U.S. Dollar	43.41	434.10	
1.3.1.2	1.00 Each	Transformer Removal	0.17	Detail	U.S. Dollar	98,265.84	98,265.84

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1.3.1.2.1	1.00 Each	Oil Removal & Disposal	1.00	Detail	U.S. Dollar	58,341.24	58,341.24
1.3.1.2.1.1	1.00 Each	Oil Removal	1.00	Detail	U.S. Dollar	966.24	966.24
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	20.00	2.00 Each (hourly)	U.S. Dollar	48.31	966.24	
1.3.1.2.1.2	14,000.00 Gallon	Oil Disposal	0.00	Detail	U.S. Dollar	4.00	56,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USDISPOSAL	Disposal Fee's		56,000.00 Each	U.S. Dollar	1.00	56,000.00	
1.3.1.2.1.3	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	
1.3.1.2.2	1.00 Each	Dismantle & Loadout Transformer	0.20	Detail	U.S. Dollar	39,924.60	39,924.60
1.3.1.2.2.1	1.00 Each	Dismantle, Cut & Size	0.20	Detail	U.S. Dollar	33,924.60	33,924.60
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	200.00	4.00 Each (hourly)	U.S. Dollar	48.31	9,662.40	
L010101	OPERATOR	100.00	2.00 Each (hourly)	U.S. Dollar	61.73	6,173.20	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	50.00	1.00 Each (hourly)	U.S. Dollar	150.41	7,520.50	
*REXCAV06E	Excav 100K w/ Shear	50.00	1.00 Each (hourly)	U.S. Dollar	211.37	10,568.50	
1.3.1.2.2.2	4.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,500.00	6,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		6,000.00 Each	U.S. Dollar	1.00	6,000.00	
1.3.1.3	1.00 Each	Remove Control Building	2.00	Detail	U.S. Dollar	2,802.27	2,802.27
1.3.1.3.1	1.00 Each	Demo	2.00	Detail	U.S. Dollar	1,302.27	1,302.27
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	5.00	1.00 Each (hourly)	U.S. Dollar	48.31	241.56	
L010101	OPERATOR	5.00	1.00 Each (hourly)	U.S. Dollar	61.73	308.66	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	5.00	1.00 Each (hourly)	U.S. Dollar	150.41	752.05	
1.3.1.3.2	1.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,500.00	1,500.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		1,500.00 Each	U.S. Dollar	1.00	1,500.00	
1.3.1.4	1.00 Day	UG Utility & Ground Removal	1.00	Detail	U.S. Dollar	1,534.54	1,534.54
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L010101	OPERATOR	10.00	1.00 Each (hourly)	U.S. Dollar	61.73	617.32	
L060100	GENERAL LABORER	10.00	1.00 Each (hourly)	U.S. Dollar	48.31	483.12	
RBACKH09	Deere 710J BACKHOE, 1.62CY	10.00	1.00 Each (hourly)	U.S. Dollar	43.41	434.10	
1.3.1.5	4,700.00 Cubic Yard	Remove Concrete Fill & Stone	120.00	Detail	U.S. Dollar	17.91	84,182.80
1.3.1.5.1	4,700.00 Cubic Yard	Excavate / Remove	600.00	Detail	U.S. Dollar	8.48	39,873.70

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	78.33	1.00 Each (hourly)	U.S. Dollar	48.31	3,784.44	
L010101	OPERATOR	156.67	2.00 Each (hourly)	U.S. Dollar	61.73	9,671.35	
*REXCAV06C	Excav 100K w/ Hammer	78.33	1.00 Each (hourly)	U.S. Dollar	186.84	14,635.80	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	78.33	1.00 Each (hourly)	U.S. Dollar	150.41	11,782.12	
1.3.1.5.2	4,700.00 Cubic Yard	Material Transport Offsite	150.00	Detail	U.S. Dollar	9.43	44,309.09
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
RDUTRK06	CAT D350D, 18CY-24CY	313.33	1.00 Each (hourly)	U.S. Dollar	86.39	27,068.87	
L080940	TEAMSTER	313.33	1.00 Each (hourly)	U.S. Dollar	55.02	17,240.23	
1.3.1.6	1.00 Lump Sum	Misc. Material Disposal	0.00	Detail	U.S. Dollar	2,200.00	2,200.00
1.3.1.6.1	1.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,500.00	1,500.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		1,500.00 Each	U.S. Dollar	1.00	1,500.00	
1.3.1.6.2	10.00 Ton	Disposal Cost	0.00	Detail	U.S. Dollar	70.00	700.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USDISPOSAL	Disposal Fee's		700.00 Each	U.S. Dollar	1.00	700.00	
1.3.1.7	1.00 Lump Sum	Restore Yard	0.14	Detail	U.S. Dollar	60,734.53	60,734.53
1.3.1.7.1	1.00 Acre	Backfill / Regrade	2.00	Detail	U.S. Dollar	1,930.26	1,930.26
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	10.00	2.00 Each (hourly)	U.S. Dollar	48.31	483.12	
L010101	OPERATOR	10.00	2.00 Each (hourly)	U.S. Dollar	61.73	617.32	
REXCAV06B	Gradall - Excavator	5.00	1.00 Each (hourly)	U.S. Dollar	95.20	476.02	
*RDOZER08	CAT D6 LGP Dozer	5.00	1.00 Each (hourly)	U.S. Dollar	70.76	353.80	
1.3.1.7.2	2,000.00 Cubic Yard	Vegetative Cover	300.00	Detail	U.S. Dollar	28.90	57,804.27
1.3.1.7.2.1	2,000.00 Cubic Yard	Topsoil, Delivered	0.00	Detail	U.S. Dollar	20.00	40,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
MSOIL	Topsoil		2,000.00 Cubic Yard	U.S. Dollar	20.00	40,000.00	
1.3.1.7.2.2	2,000.00 Cubic Yard	Placement	300.00	Detail	U.S. Dollar	8.90	17,804.27
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L010101	OPERATOR	133.33	2.00 Each (hourly)	U.S. Dollar	61.73	8,230.93	
RDOZER08	CAT D6N XL	133.33	2.00 Each (hourly)	U.S. Dollar	71.80	9,573.33	
1.3.1.7.3	1.00 Acre	Re-Seed With Native Vegetation	0.00	Detail	U.S. Dollar	1,000.00	1,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USLANDSCAPE	Landscape Sub		1.00 Acre	U.S. Dollar	1,000.00	1,000.00	
1.3.2	1.00 Lump Sum	Transmission Line Retirement	0.42	Detail	U.S. Dollar	13,878.78	13,878.78
1.3.2.1	8.00 Each	Wood Monopole Removal	3.33	Detail	U.S. Dollar	984.85	7,878.78
1.3.2.1.1	8.00 Each	Cut / Lower Pole & Cable Span	4.00	Detail	U.S. Dollar	845.84	6,766.72

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	40.00	2.00 Each (hourly)	U.S. Dollar	48.31	1,932.48	
L010101	OPERATOR	20.00	1.00 Each (hourly)	U.S. Dollar	61.73	1,234.64	
*RXMISC14	MAN LIFT GAS 125ft	20.00	1.00 Each (hourly)	U.S. Dollar	60.32	1,206.40	
*RXMISC23	GROVE RT 200 TON	20.00	1.00 Each (hourly)	U.S. Dollar	119.66	2,393.20	
1.3.2.1.2	8.00 Each Cut / Size Pole & Loadout		20.00	Detail	U.S. Dollar	139.01	1,112.06
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	8.00	2.00 Each (hourly)	U.S. Dollar	48.31	386.50	
L010101	OPERATOR	4.00	1.00 Each (hourly)	U.S. Dollar	61.73	246.93	
*RXMISC23	GROVE RT 200 TON	4.00	1.00 Each (hourly)	U.S. Dollar	119.66	478.64	
1.3.2.2	4.00 Each Trucking - Per Load		0.00	Detail	U.S. Dollar	1,500.00	6,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		6,000.00 Each	U.S. Dollar	1.00	6,000.00	
1.4	1.00 Lump Sum DC Storage Retirement		0.00	Detail	U.S. Dollar	1,102,980.13	1,102,980.13
1.4.1	4.00 Each Aux Transformer Removal		0.33	Detail	U.S. Dollar	45,103.60	180,414.40
1.4.1.1	4.00 Each Oil Removal & Disposal		1.00	Detail	U.S. Dollar	30,466.24	121,864.96
1.4.1.1.1	4.00 Each Oil Removal		1.00	Detail	U.S. Dollar	966.24	3,864.96
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	80.00	2.00 Each (hourly)	U.S. Dollar	48.31	3,864.96	
1.4.1.1.2	28,000.00 Gallon Oil Disposal		0.00	Detail	U.S. Dollar	4.00	112,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USDISPOSAL	Disposal Fee's		112,000.00 Each	U.S. Dollar	1.00	112,000.00	
1.4.1.1.3	4.00 Each Trucking - Per Load		0.00	Detail	U.S. Dollar	1,500.00	6,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		6,000.00 Each	U.S. Dollar	1.00	6,000.00	
1.4.1.2	4.00 Each Dismantle & Loadout Transformer		0.50	Detail	U.S. Dollar	14,637.36	58,549.44
1.4.1.2.1	4.00 Each Dismantle, Cut & Size		0.50	Detail	U.S. Dollar	11,637.36	46,549.44
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	160.00	2.00 Each (hourly)	U.S. Dollar	48.31	7,729.92	
L010101	OPERATOR	160.00	2.00 Each (hourly)	U.S. Dollar	61.73	9,877.12	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	80.00	1.00 Each (hourly)	U.S. Dollar	150.41	12,032.80	
*REXCAV06E	Excav 100K w/ Shear	80.00	1.00 Each (hourly)	U.S. Dollar	211.37	16,909.60	
1.4.1.2.2	8.00 Each Trucking - Per Load		0.00	Detail	U.S. Dollar	1,500.00	12,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		12,000.00 Each	U.S. Dollar	1.00	12,000.00	
1.4.2	2,070.00 Linear Feet Fence Removal		1,000.00	Detail	U.S. Dollar	2.74	5,676.56
1.4.2.1	2,070.00 Linear Feet Fence Removal		1,000.00	Detail	U.S. Dollar	2.02	4,176.56
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L010101	OPERATOR	20.70	1.00 Each (hourly)	U.S. Dollar	61.73	1,277.85	

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
L060100	GENERAL LABORER	41.40	2.00 Each (hourly)	U.S. Dollar		48.31	2,000.12
RBACKH09	Deere 710J BACKHOE, 1.62CY	20.70	1.00 Each (hourly)	U.S. Dollar		43.41	898.59
1.4.2.2	1.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,500.00	1,500.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		1,500.00 Each	U.S. Dollar	1.00	1,500.00	
1.4.3	122.00 Each	BESS Unit Removal	0.70	Detail	U.S. Dollar	6,812.48	831,122.11
1.4.3.1	122.00 Each	Disconnect Electrical	4.00	Detail	U.S. Dollar	275.11	33,563.42
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L010110	ELECTRCIAN	305.00	1.00 Each (hourly)	U.S. Dollar	61.73	18,828.26	
L060100	GENERAL LABORER	305.00	1.00 Each (hourly)	U.S. Dollar	48.31	14,735.16	
1.4.3.2	9,122.71 Gallon	Glycol Recovery & Disposal	747.86	Detail	U.S. Dollar	3.96	36,138.19
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USLIQUID	Liquids T&D		9,122.71 Each	U.S. Dollar	1.00	9,122.71	
L060100	GENERAL LABORER	487.93	4.00 Each (hourly)	U.S. Dollar	48.31	23,573.10	
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	121.98	1.00 Each (hourly)	U.S. Dollar	28.22	3,442.38	
1.4.3.3	122.00 Each	Battery Removal & Recycling	2.00	Detail	U.S. Dollar	2,865.78	349,625.16
1.4.3.3.1	61.00 Day	Remove Batteries, Load For Transport	1.00	Detail	U.S. Dollar	1,731.56	105,625.16
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	1,830.00	3.00 Each (hourly)	U.S. Dollar	48.31	88,410.96	
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	610.00	1.00 Each (hourly)	U.S. Dollar	28.22	17,214.20	
1.4.3.3.2	122.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	2,000.00	244,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		244,000.00 Each	U.S. Dollar	1.00	244,000.00	
1.4.3.4	122.00 Each	Unit Removal	1.71	Detail	U.S. Dollar	3,375.37	411,795.34
1.4.3.4.1	122.00 Each	Remove Misc Waste	3.00	Detail	U.S. Dollar	577.19	70,416.77
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	1,220.00	3.00 Each (hourly)	U.S. Dollar	48.31	58,940.64	
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	406.67	1.00 Each (hourly)	U.S. Dollar	28.22	11,476.13	
1.4.3.4.2	122.00 Each	Loadout Unit For Transport	4.00	Detail	U.S. Dollar	498.19	60,778.57
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
RHYDCR06	GROVE RT880 73 TON	305.00	1.00 Each (hourly)	U.S. Dollar	89.23	27,215.15	
L010101	OPERATOR	305.00	1.00 Each (hourly)	U.S. Dollar	61.73	18,828.26	
L060100	GENERAL LABORER	305.00	1.00 Each (hourly)	U.S. Dollar	48.31	14,735.16	
1.4.3.4.3	122.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,500.00	183,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		183,000.00 Each	U.S. Dollar	1.00	183,000.00	
1.4.3.4.4	1,220.00 Ton	Waste Recycling & Disposal Cost	0.00	Detail	U.S. Dollar	80.00	97,600.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USDISPOSAL	Disposal Fee's		97,600.00 Each	U.S. Dollar	1.00	97,600.00	

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1.4.4	31.00 Each	Transformer Removal	2.00	Detail	U.S. Dollar	1,547.49	47,972.15
1.4.4.1	31.00 Each	Disconnect Electrical	4.00	Detail	U.S. Dollar	275.11	8,528.41
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L010110	ELECTRCIAN	77.50	1.00 Each (hourly)	U.S. Dollar	61.73	4,784.23	
L060100	GENERAL LABORER	77.50	1.00 Each (hourly)	U.S. Dollar	48.31	3,744.18	
1.4.4.2	31.00 Each	Loadout For Transport	4.00	Detail	U.S. Dollar	498.19	15,443.74
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
RHYDCR06	GROVE RT880 73 TON	77.50	1.00 Each (hourly)	U.S. Dollar	89.23	6,915.33	
L010101	OPERATOR	77.50	1.00 Each (hourly)	U.S. Dollar	61.73	4,784.23	
L060100	GENERAL LABORER	77.50	1.00 Each (hourly)	U.S. Dollar	48.31	3,744.18	
1.4.4.3	16.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,500.00	24,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		24,000.00 Each	U.S. Dollar	1.00	24,000.00	
1.4.5	976.00 Cubic Yard	Concrete Pad Removal - BESS Units	73.68	Detail	U.S. Dollar	32.32	31,545.00
1.4.5.1	976.00 Cubic Yard	Excavate / Remove Foundation	280.00	Detail	U.S. Dollar	18.18	17,743.19
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	34.86	1.00 Each (hourly)	U.S. Dollar	48.31	1,684.02	
L010101	OPERATOR	69.71	2.00 Each (hourly)	U.S. Dollar	61.73	4,303.60	
*REXCAV06C	Excav 100K w/ Hammer	34.86	1.00 Each (hourly)	U.S. Dollar	186.84	6,512.71	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	34.86	1.00 Each (hourly)	U.S. Dollar	150.41	5,242.86	
1.4.5.2	976.00 Cubic Yard	Concrete Transport Offsite	100.00	Detail	U.S. Dollar	14.14	13,801.81
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
RDUTRK06	CAT D350D, 18CY-24CY	97.60	1.00 Each (hourly)	U.S. Dollar	86.39	8,431.66	
L080940	TEAMSTER	97.60	1.00 Each (hourly)	U.S. Dollar	55.02	5,370.15	
1.4.6	130.00 Cubic Yard	Concrete Pad Removal - Transformers	60.00	Detail	U.S. Dollar	48.08	6,249.91
1.4.6.1	130.00 Cubic Yard	Excavate / Remove Foundation - Various Depth	150.00	Detail	U.S. Dollar	33.94	4,411.56
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	8.67	1.00 Each (hourly)	U.S. Dollar	48.31	418.70	
L010101	OPERATOR	17.33	2.00 Each (hourly)	U.S. Dollar	61.73	1,070.02	
*REXCAV06C	Excav 100K w/ Hammer	8.67	1.00 Each (hourly)	U.S. Dollar	186.84	1,619.28	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	8.67	1.00 Each (hourly)	U.S. Dollar	150.41	1,303.55	
1.4.6.2	130.00 Cubic Yard	Concrete Transport Offsite	100.00	Detail	U.S. Dollar	14.14	1,838.36
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
RDUTRK06	CAT D350D, 18CY-24CY	13.00	1.00 Each (hourly)	U.S. Dollar	86.39	1,123.07	
L080940	TEAMSTER	13.00	1.00 Each (hourly)	U.S. Dollar	55.02	715.29	
1.5	1.00 Lump Sum	Solar Array Retirement	0.01	Detail	U.S. Dollar	4,353,308.30	4,353,308.30
1.5.1	80,719.00 Linear Feet	Fence Removal	5,124.80	Detail	U.S. Dollar	1.61	129,838.45
1.5.1.1	80,719.00 Linear Feet	Fence Removal	5,124.80	Detail	U.S. Dollar	1.18	95,338.45
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L010101	OPERATOR	472.52	3.00 Each (hourly)	U.S. Dollar	61.73	29,169.60	
L060100	GENERAL LABORER	945.04	6.00 Each (hourly)	U.S. Dollar	48.31	45,656.76	
RBACKH09	Deere 710J BACKHOE, 1.62CY	472.52	3.00 Each (hourly)	U.S. Dollar	43.41	20,512.09	
1.5.1.2	23.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,500.00	34,500.00

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		34,500.00 Each	U.S. Dollar	1.00	34,500.00	
1.5.2	40.00 Each	Inverter / Transformer Removal	1.43	Detail	U.S. Dollar	2,621.09	104,843.68
1.5.2.1	40.00 Each	Disconnect Electrical	2.00	Detail	U.S. Dollar	625.92	25,036.80
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L010110	ELECTRICIAN	200.00	1.00 Each (hourly)	U.S. Dollar	61.73	12,346.40	
L060100	GENERAL LABORER	200.00	1.00 Each (hourly)	U.S. Dollar	48.31	9,662.40	
RPUTRK05	F-250 4X4 3/4 TON PICKUP	200.00	1.00 Each (hourly)	U.S. Dollar	15.14	3,028.00	
1.5.2.2	40.00 Each	Loadout Inverter & Transformer	5.00	Detail	U.S. Dollar	495.17	19,806.88
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	160.00	2.00 Each (hourly)	U.S. Dollar	48.31	7,729.92	
L010101	OPERATOR	80.00	1.00 Each (hourly)	U.S. Dollar	61.73	4,938.56	
RHYDCR06	GROVE RT880 73 TON	80.00	1.00 Each (hourly)	U.S. Dollar	89.23	7,138.40	
1.5.2.3	40.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,500.00	60,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		60,000.00 Each	U.S. Dollar	1.00	60,000.00	
1.5.3	40.00 Each	Remove Foundations To Subgrade	2.23	Detail	U.S. Dollar	810.10	32,403.86
1.5.3.1	320.00 Cubic Yard	Excavate / Remove Foundation	280.00	Detail	U.S. Dollar	18.18	5,817.44
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	11.43	1.00 Each (hourly)	U.S. Dollar	48.31	552.14	
L010101	OPERATOR	22.86	2.00 Each (hourly)	U.S. Dollar	61.73	1,411.02	
*REXCAV06C	Excav 100K w/ Hammer	11.43	1.00 Each (hourly)	U.S. Dollar	186.84	2,135.31	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	11.43	1.00 Each (hourly)	U.S. Dollar	150.41	1,718.97	
1.5.3.2	960.00 Cubic Yard	Excavate / Remove Elevated Stone Base	240.00	Detail	U.S. Dollar	8.84	8,485.68
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L010101	OPERATOR	40.00	1.00 Each (hourly)	U.S. Dollar	61.73	2,469.28	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	40.00	1.00 Each (hourly)	U.S. Dollar	150.41	6,016.40	
1.5.3.3	1,280.00 Cubic Yard	Concrete & Stone Transport Offsite	100.00	Detail	U.S. Dollar	14.14	18,100.74
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
RDUTRK06	CAT D350D, 18CY-24CY	128.00	1.00 Each (hourly)	U.S. Dollar	86.39	11,057.92	
L080940	TEAMSTER	128.00	1.00 Each (hourly)	U.S. Dollar	55.02	7,042.82	
1.5.4	280,240.00 Each	Solar Panel Removal & Disposal	4,800.00	Detail	U.S. Dollar	9.18	2,571,269.60
1.5.4.1	280,240.00 Each	Solar Panel Removal	4,800.00	Detail	U.S. Dollar	3.54	992,049.60
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	3,503.00	6.00 Each (hourly)	U.S. Dollar	28.22	98,854.66	
L010101	OPERATOR	3,503.00	6.00 Each (hourly)	U.S. Dollar	61.73	216,247.20	
L060100	GENERAL LABORER	14,012.00	24.00 Each (hourly)	U.S. Dollar	48.31	676,947.74	
Notes: *****							
Assumed production: 20 panels per laborer per hour, Includes packaging and preparing for shipment offsite. *****							
1.5.4.2	514.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,500.00	771,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		771,000.00 Each	U.S. Dollar	1.00	771,000.00	

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

Notes: *****
Assumption: 45,000 lbs per load

1.5.4.3	11,546.00 Ton	Recycling Cost	0.00	Detail	U.S. Dollar	70.00	808,220.00
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
USDISPOSAL	Disposal Fee's		808,220.00 Each	U.S. Dollar	1.00	808,220.00

Notes: *****
Assumption: 280,240 modules x 82.4 lbs each

1.5.5	1.00 Lump Sum	Solar Rack (Trackers) & Post Removal	0.03	Detail	U.S. Dollar	1,514,952.71	1,514,952.71
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1.5.5.1	4,671.00 Each	Solar Rack (Trackers) & Post Removal	160.00	Detail	U.S. Dollar	290.93	1,358,952.71
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
L010101	OPERATOR	4,671.00	16.00 Each (hourly)	U.S. Dollar	61.73	288,350.17
L060100	GENERAL LABORER	4,671.00	16.00 Each (hourly)	U.S. Dollar	48.31	225,665.35
*REXCAV06A	Excav 100K w/ Bucket & Grapple	2,335.50	8.00 Each (hourly)	U.S. Dollar	150.41	351,282.56
*REXCAV06E	Excav 100K w/ Shear	2,335.50	8.00 Each (hourly)	U.S. Dollar	211.37	493,654.64

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.
6 piles & 60 modules per rack.

1.5.5.2	104.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,500.00	156,000.00
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub		156,000.00 Each	U.S. Dollar	1.00	156,000.00

Notes: *****
Assumption: 45,000 lbs per load

1.6	1.00 Lump Sum	Remove Underground Cable	0.10	Detail	U.S. Dollar	36,512.80	36,512.80
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1.6.1	1.00 Lump Sum	Remove Underground Cable	0.10	Detail	U.S. Dollar	33,512.80	33,512.80
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
RBACKH09	Deere 710J BACKHOE, 1.62CY	200.00	2.00 Each (hourly)	U.S. Dollar	43.41	8,682.00
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	100.00	1.00 Each (hourly)	U.S. Dollar	28.22	2,822.00
L010101	OPERATOR	200.00	2.00 Each (hourly)	U.S. Dollar	61.73	12,346.40
L060100	GENERAL LABORER	200.00	2.00 Each (hourly)	U.S. Dollar	48.31	9,662.40

1.6.2	2.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,500.00	3,000.00
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub		3,000.00 Each	U.S. Dollar	1.00	3,000.00

Notes: *****
Assumption: 45,000 lbs per load

1.7	1.00 Lump Sum	Site Restoration - Partial Site Seeding	0.02	Detail	U.S. Dollar	413,591.10	413,591.10
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1.7.1	290.00 Acre	Spot Grade Disturbed Areas	8.00	Detail	U.S. Dollar	331.23	96,056.70
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
*RDOZER08	CAT D6 LGP Dozer	725.00	2.00 Each (hourly)	U.S. Dollar	70.76	51,301.00
L010101	OPERATOR	725.00	2.00 Each (hourly)	U.S. Dollar	61.73	44,755.70

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
Notes: *****							
Assumption: 827 acres total property area.							
Assume that 35% of the area disturbed by construction will be regraded.							

1.7.2	1.00 Lump Sum	Restore Stormwater Controls	0.10	Detail	U.S. Dollar	27,534.40	27,534.40
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L010101	OPERATOR	200.00	2.00 Each (hourly)	U.S. Dollar	61.73	12,346.40	
RFELWH09	CAT 966F LOADER, 4.25CY	100.00	1.00 Each (hourly)	U.S. Dollar	81.12	8,112.00	
*RDOZER08	CAT D6 LGP Dozer	100.00	1.00 Each (hourly)	U.S. Dollar	70.76	7,076.00	
1.7.3	290.00 Acre	Re-Seed With Native Vegetation - Roads & Areas Disturbed By Construction	0.00	Detail	U.S. Dollar	1,000.00	290,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USLANDSCAPE	Landscape Sub		290.00 Acre	U.S. Dollar	1,000.00	290,000.00	
Notes: *****							
Assumption: 827 acres total property area.							
Assume that 35% of the area disturbed by construction will be re-seeded.							

1.8	1.00 Lump Sum	Contractor Markups	0.00	Detail	U.S. Dollar	1,248,533.64	1,248,533.64
1.8.1	1.00 Lump Sum	Home Office, Project Management (5% Of Cost)	0.00	Detail	U.S. Dollar	334,727.50	334,727.50
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USMARKUP5	5% Markup		6,694,550.00 Each	U.S. Dollar	0.05	334,727.50	
1.8.2	1.00 Lump Sum	Contractor OH & Fee (13% Of Cost)	0.00	Detail	U.S. Dollar	913,806.14	913,806.14
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USMARKUP	13% Markup		7,029,278.00 Each	U.S. Dollar	0.13	913,806.14	
1.9	1.00 Lump Sum	ODOE Mandated Contingencies	0.00	Detail	U.S. Dollar	1,888,643.64	1,888,643.64
1.9.1	1.00 Lump Sum	20% Contingency on BESS	0.00	Detail	U.S. Dollar	220,596.00	220,596.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
UODCBESS	20% ODOE Mandated Contingency		1,102,980.00 Each	U.S. Dollar	0.20	220,596.00	
1.9.2	1.00 Lump Sum	1% Performance Bond	0.00	Detail	U.S. Dollar	79,430.84	79,430.84
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
UODOE1	ODOE 1% Markup		7,943,084.00 Each	U.S. Dollar	0.01	79,430.84	
1.9.3	1.00 Lump Sum	10% Administrative and Project Management	0.00	Detail	U.S. Dollar	794,308.40	794,308.40
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
UODOE2	ODOE 10% Markup		7,943,084.00 Each	U.S. Dollar	0.10	794,308.40	
1.9.4	1.00 Lump Sum	10% Future Development Contingency	0.00	Detail	U.S. Dollar	794,308.40	794,308.40
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
UODOE2	ODOE 10% Markup		7,943,084.00 Each	U.S. Dollar	0.10	794,308.40	
Report Total:							9,831,727.47

Cost Item								
CBS Position Code	Quantity	UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
Category						Total		
Labor								2,376,541.40
Rented Equipment								1,347,061.08
Supplies								2,130.00
Materials								40,000.00
Subcontract								4,166,028.64
Travel-Risk-Adj								9,122.71
ODCs								1,890,843.64

Attachment F-2. Opinion of Legal Counsel

April 16, 2026

Oregon Energy Facility Siting Council
550 Capitol St. NE, 1st Floor
Salem, Oregon 97301

Subject: In the Matter of the Application for a Site Certificate for the Muddy Creek Energy Park Project

Dear Sir or Madam:

I am the General Counsel for Hanwha Renewables, LLC, a Delaware limited liability company, and its wholly owned subsidiary and affiliate, Muddy Creek Energy Park, LLC (the "Applicant"). I have examined originals or certified copies of the books and records of Applicant and such other documents, limited liability company records, certificates of public officials, and instruments regarding the Applicant as I have deemed necessary and appropriate for the purposes of this opinion letter.

In rendering the opinion expressed below, I have assumed (i) the authenticity of all the documents submitted to me as originals and (ii) the conformity to original documents of all documents submitted to me as copies. As to factual matters, I have relied to the extent deemed proper upon statements and certifications of officers and managers of the Applicant.

Based on the foregoing, to the best of my knowledge, I am of the opinion that, subject to the Applicant's meeting of all applicable federal, state and local laws (including all rules and regulations promulgated thereunder), the Applicant has the legal authority to construct and operate the up to 200 MW nameplate capacity solar photovoltaic generation facility and associated facilities located in Linn County, Oregon (the "Project") without violating its articles of organization, covenants, or similar agreements.

The foregoing opinion is limited solely to whether the Applicant has the authority under its operating agreements to construct, own, and operate the Project. I express no opinion as to the applicability of any federal, state, or local laws (including all Oregon laws and any rules and regulations promulgated thereunder) to such construction and operation or as to the effects of the foregoing laws on such construction and operation.

Sincerely,

Hanwha Renewables, LLC



Daniel Judge
General Counsel

Attachment F-3. Bank Letter Regarding a Bond or Letter of Credit (Pending)