



A DECOMMISSIONING PLAN FOR

# Sun Trust Solar Project

Kane County, Illinois

AUGUST 1, 2025

PREPARED FOR:

SV CSG Sun Trust Solar, LLC

PREPARED BY:

**Westwood**

# Decommissioning Plan

**Sun Trust Solar Project**

Kane County, Illinois

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## Attachments

Attachment A: Decommissioning Cost Estimate



## 1.0 Introduction / Project Description

This Decommissioning Plan (“Plan”) has been prepared for the Sun Trust Solar Project in accordance with the Kane County Ordinance Section 25-5-4-9: Commercial Solar Energy Facilities and the Illinois Department of Agriculture’s (IDOA) Standard Solar Agriculture Impact Mitigation Agreement (AIMA). The purpose of the Plan is to describe the means and methods that can be used to remove all structures, foundations, underground cables, and equipment and to reclaim and restore the land altered during the construction and operation of the solar project to its predevelopment condition to the extent feasible.

The Sun Trust Solar Project (“Project”) is a solar power generation project proposed by SV CSG Sun Trust Solar, LLC (“Applicant”) in Kane County, Illinois. The Project will have an aggregate nameplate capacity of up to 5.0-megawatt (MW) alternating current (AC), 6.80-MW direct current (DC). Upon completion, the Project will comprise a solar array consisting of solar modules, tracking systems, inverters, transformers, underground collection lines, transmission lines, access roads, and fencing. The Project will be built within a general Project Area of approximately 23 acres.

The useful life of solar panels is generally considered to be thirty-five (35) years. At that time, the Project will either be decommissioned or repowered with newer technology. The Plan identifies components which may be removed and areas that may be restored once the Project Applicant has not paid the Landowner amounts owed for six (6) consecutive months in accordance with the AIMA, or when the Project has surpassed the useful lifespan of the modules and facilities.

## 2.0 Proposed Future Land Use

Prior to the development of the Project, the land use of the Project Area was primarily used for agricultural production. After all equipment and infrastructure is removed during decommissioning, any holes or voids created by poles, concrete pads, and other equipment will be filled in with native soil to the surrounding grade, and the site will be restored to pre-construction conditions to the extent practicable. Access roads and other areas compacted by equipment may be decompacted to a depth necessary to ensure drainage of the soil and root penetration prior to fine grading and tilling to a farmable condition. Please refer to Section 3.2 for a detailed description of reclamation activities.

## 3.0 Decommissioning Activities

Decommissioning of the Project will include removing the solar panels, solar panel racking, steel foundation posts and beams, inverters, transformers, underground cables and lines, transmission lines, equipment pads and foundations, equipment cabinets, and ancillary equipment. The civil facilities, access roads, security fencing, and drainage structures and sedimentation basins are included in the scope. Standard decommissioning practices will be utilized, including dismantling and repurposing, salvaging/recycling, or disposing of the solar energy improvements.

During decommissioning, the landowners will be consulted to identify the extent and type of work to be completed. Some Project infrastructure, such as the access roads, and fencing, may be removed at the discretion of the landowner(s). Underground utility lines, if deeper than five (5) feet below ground surface elevation, may be left in place to minimize land disturbance and associated impacts to future

land use.

Decommissioning will include the removal and transportation of all Project components from the Project site. All dismantling, removal, recycling, and disposal of materials generated during decommissioning will comply with rules, regulations, and prevailing Federal, State, and local laws at the time decommissioning is initiated and will use approved local or regional disposal or recycling sites as available. Recyclable materials will be recycled to the furthest extent practicable. Non-recyclable materials will be disposed of in accordance with State and Federal law.

### **3.1 Decommissioning of Project Components**

#### **3.1.1 Solar Modules**

Solar modules will be inspected for physical damage, tested for functionality, and disconnected and removed from racking. Functioning modules will be packed, palletized, and shipped to an off-site facility for reuse or resale. Non-functioning modules will be shipped to the manufacturer or a third party for recycling or disposal.

#### **3.1.2 Racking**

Racking and racking components will be disassembled and removed from the steel foundation posts, processed to appropriate size, and sent to a metal recycling facility.

#### **3.1.3 Steel Foundation Posts**

Structural foundation steel posts will be pulled out to full depth, removed, processed to appropriate size, and shipped to a recycling facility. The posts can be removed using back hoes or similar equipment. During decommissioning, the area around the foundation posts may be compacted by equipment and, if compacted, the area will be decompact in a manner to adequately restore the topsoil and sub-grade material to a density consistent for vegetation.

#### **3.1.4 Underground Cables and Lines**

All underground cables and conduits will be removed to a depth of five (5) feet. For the purposes of this decommissioning cost estimate, it has been assumed that all cables will be installed deeper than five (5) feet below ground and may therefore be abandoned in place, with the exception of those cables running to surface equipment. Topsoil will be segregated and stockpiled for later use prior to any excavation and the subsurface soils will be staged next to the excavation. The subgrade will be compacted per standards. Topsoil will be redistributed across the disturbed area.

#### **3.1.5 Transmission Lines**

The overhead transmission lines, consisting of a ground conductor, and SCADA line, will be destrung in the opposite manner that the conductor was installed, using pull trucks, reel trucks, tensioners, and pullers, in addition to standard equipment. Insulators and insulator gangs will also be removed from each tower. It is anticipated that one (1) crew will work on removing the conductors while another crew works on the ground conductor and SCADA. Once the wires are removed, the transmission towers will be brought to the ground for disassembly. All removed equipment will be disassembled to sizes suitable for hauling, then loaded onto standard hauling trucks for off-site recycling or disposal. Disturbed areas,

including the temporary compacted access roads, will be decompacted to facilitate revegetation.

### **3.1.6 Inverters, Transformers, and Ancillary Equipment**

All electrical equipment will be disconnected and disassembled. All parts will be removed from the site and reconditioned and reused, sold as scrap, recycled, or disposed of appropriately, at the Applicant's sole discretion, consistent with applicable regulations and industry standards.

### **3.1.7 Equipment Foundations and Ancillary Foundations**

The ancillary foundations are pile foundations for the equipment pads. As with the solar array steel foundation posts, the foundation piles will be pulled out completely. Duct banks will be excavated to full depth. All unexcavated areas compacted by equipment used in decommissioning will be decompacted in a manner to adequately restore the topsoil and sub-grade material to a density similar to the surrounding soils. All materials will be removed from the site and reconditioned and reused, sold as scrap, recycled, or disposed of appropriately, at the Applicant's sole discretion, consistent with applicable regulations and industry standards.

### **3.1.8 Fence**

Fence parts and foundations will be removed from the site and reconditioned and reused, sold as scrap, recycled, or disposed of appropriately, at the Applicant's sole discretion, consistent with applicable regulations and industry standards. The surrounding areas will be restored to pre-solar farm conditions to the extent feasible.

### **3.1.9 Access Roads**

Project access roads will be used for decommissioning purposes, after which removal of roads will be discussed with the landowner(s) and one of the following options will be pursued:

1. After final clean-up, roads may be left intact through mutual agreement of the landowner and the Applicant unless otherwise restricted by federal, state, or local regulations.
2. If a road is to be removed, aggregate will be removed and shipped from the site to be reused, sold, or disposed of appropriately, at the Applicant's sole discretion, consistent with applicable regulations and industry standards. Clean aggregate can often be used as "daily cover" at landfills for no disposal cost. Internal service roads are constructed with geotextile fabric and eight (8) inches of aggregate over compacted subgrade. Any ditch crossing connecting access roads to public roads will be removed unless the landowner requests it remains. The subgrade will be decompacted in a manner to adequately restore the topsoil and sub-grade material to a reintroduction of farming. Topsoil that was stockpiled during the original construction will be distributed across the open area. Finally, the access road corridors will be tilled to an agricultural condition.

## **3.2 Re-Establishing Subsurface Drainage**

In accordance with the AIMA Section 6.D, if underground drainage tile lines present within the footprint of the Project are severed or damaged during construction, operation, or decommissioning activities, the Applicant will repair existing drainage tiles or install new drainage tile lines of comparable quality and cost to the original within twelve (12) months of the end of Project life, as part of the

decommissioning efforts. Any permanent drainage tile line repairs beyond those described above (that is, that are discovered after the fact) will be made within thirty (30) days of identification or notification of the damage, weather and soil conditions permitting.

Following completion of the repair work, the Applicant will be responsible for correcting any drainage tile line repairs that fail for one (1) year following the completion of decommissioning, provided those repairs were made by the Applicant. The Applicant will not be responsible for drainage tile repairs that they paid the Landowner to perform.

### 3.3 Reclamation

The Applicant will restore and reclaim the site to the pre-solar farm condition consistent with the site lease agreement. The Applicant assumes that most of the site will be returned to farmland after decommissioning through implementation of appropriate measures to facilitate such uses. If no specific use is identified, the Applicant will vegetate the site with a seed mix approved by the local soil and water conservation district or similar agency. The goal of restoration will be to restore natural hydrology and plant communities to the greatest extent practicable while minimizing new disturbance and removal of native vegetation. In addition to the reclamation activities described above for each decommissioning activity, all unexcavated areas compacted by equipment and activity during the decommissioning will be decompacted as required in Section 8 of the AIMA. Cropland shall be ripped at least eighteen (18) inches or to the extent practicable. The existence of underground utilities may necessitate less ripping depth. Following ripping, the disturbed area shall then be disced. Additionally, ruts caused by operation of the facility or decommissioning activities will be corrected. All materials and debris associated with Project decommissioning will be removed and properly recycled or disposed of at off-site facilities.

## 4.0 Best Management Practices (BMPs)

### 4.1 Construction Stormwater Practices

During decommissioning, erosion and sediment control BMPs will be implemented to minimize potential for erosion of site soils and sedimentation of surface waters and waters of the state. Because decommissioning will entail disturbance of more than one (1) acre of soil, the Applicant will prepare a Stormwater Pollution Prevention Plan (SWPPP) and obtain coverage with the Illinois Environmental Protection Agency (EPA) under the Illinois General National Pollutant Discharge Elimination System (NPDES) permit No. ILR10 prior to initiating soil disturbing activities. Potential BMPs to be implemented during decommissioning activities are described below and will be subject to refinement in the SWPPP. The decommissioning team will review the permitting requirements at the time of decommissioning and obtain any other necessary permits, which may include a US Army Corps of Engineers (USACE) Section 404 Permit to Discharge Dredged or Fill Material.

#### 4.1.1 Erosion Control

Erosion control measures will be refined based on the standard of practice current at the time the SWPPP is developed for decommissioning. All disturbed areas without permanent impermeable or gravel surfaces, or planned for use as crop land, will be vegetated for final stabilization. All slopes steeper than 4:1 should be protected with erosion control blankets. Restoration should include seed

application prior to application of the blanket. All slopes 4:1 or flatter should be restored with seed and mulch, which will be disc anchored.

#### **4.1.2 Sediment Control**

Sediment controls, such as silt fences, fiber logs, dewatering practices, construction entrances, and sedimentation traps and/or basins will be implemented during construction to prevent the transport of sediment off-site during decommissioning activities. Street sweeping/scraping will also be implemented to mitigate potential tracking of sediment onto public roadways.

#### **4.1.3 Controlling Stormwater Flowing onto and Through the Project**

Given the low gradient of the slopes in the Project Area, controlling stormwater flow that enters the Project Area will likely require minimal effort during decommissioning activities. Only newly disturbed areas may require new, temporary stormwater control. If necessary, water may be diverted around the Project site using diversion berms.

### **4.2 Permitting**

All decommissioning and reclamation activities will comply with Federal and State permit requirements. Decommissioning activities that will disturb more than one (1) acre of soil will require coverage under the Illinois General NPDES permit No. ILR10 for construction stormwater. The permits will be applied for and received prior to decommissioning construction activities commencing. A SWPPP will be developed prior to filing for construction stormwater permit coverage, and a Kane County Stormwater Management permit will be obtained prior to beginning any decommissioning work.

If necessary for decommissioning activities, wetlands and waters permits will be obtained from the USACE or Illinois EPA. A Spill Prevention, Control, and Countermeasure (SPCC) Plan for decommissioning will likely also be required for decommissioning work.

### **4.3 Health and Safety Standards**

Work will be conducted in strict accordance with the Applicant's health and safety plan. The construction contractor hired to perform the decommissioning will also be required to prepare a site-specific health and safety plan. All site workers, including subcontractors, will be required to read, understand, and abide by the plans. A site safety officer will be designated by the construction contractor to ensure compliance. This official will have stop-work authority over all activities on the site should unsafe conditions or lapses in the safety plan be observed.

## **5.0 Timeline**

Decommissioning of the Project will be initiated if the Project Applicant has not paid the Landowner amounts owed for six (6) consecutive months in accordance with the AIMA, or when the Project has surpassed the useful lifespan of the modules and facilities. It is anticipated that the decommissioning activities for the Project can be completed in a twelve (12) week period. The estimated costs for decommissioning are tied to assumptions about the amount of equipment mobilized, the crew sizes, weather and climate conditions, and the productivity of the equipment and crews.



## 6.0 Decommissioning Costs

The decommissioning costs are calculated using current pricing. In keeping with the Requirements of the IODA's AIMA, the estimate of net costs should be reevaluated after the tenth (10<sup>th</sup>) anniversary and every five (5) years thereafter the Commercial Operation Date (COD) to recognize price trends for both decommissioning costs and the salvage and resale values of the components.

There are currently active markets for scrap steel, aluminum, and copper, used transformers and electrical equipment, and used solar panels. Scrap metal prices have been discounted from posted spot prices found on [www.scrapmonster.com](http://www.scrapmonster.com). Pricing for used panels has been discounted from the average price of used panels, as published in EnergyBin's 2024 "Module Price Index."

The total estimated cost of decommissioning the Sun Trust Solar is approximately \$581,543 (\$85,561 per MW). Estimated salvage/scrap value of the modules, racking, transformers, and other materials is approximately \$544,215. The net decommissioning costs after accounting for resale and salvage values is approximately \$37,400 in surplus, or \$5,503 in surplus per MW.

## 7.0 Financial Assurance

The Applicant shall be responsible for submittal of a financial assurance to cover the cost of decommissioning the Project. The financial assurance is defined as "a reclamation of surety bond or other commercially available assurance that is acceptable to the County, with the County as beneficiary.

The financial assurance shall be implemented as follows:

1. On or before the first (1<sup>st</sup>) anniversary of the COD, the Applicant shall provide the County with Financial Security to cover ten percent (10%) of the estimate decommissioning costs, as presented in this Plan;
2. On or before the sixth (6<sup>th</sup>) anniversary of the COD, the Applicant shall provide fifty percent (50%) of the estimate decommissioning costs to the County; and
3. On or before the eleventh (11<sup>th</sup>) anniversary of the COD, the Applicant shall provide one hundred percent (100%) of the estimated decommissioning costs to the County, as determined by the Decommissioning Plan provided in the tenth year after the COD.

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# **Attachment A**

## **Decommissioning Cost Estimate**



## SV CSG Sun Trust Solar Project

	Quantity	Unit	Unit Cost	Total Cost
<b>Mobilization/Demobilization</b>	1	Lump Sum	\$30,200.00	\$30,200

*Mobilization was estimated to be approximately 7% of total cost of other items.*

### Permitting

County Permits	1	Lump Sum	\$10,000.00	\$10,000
State Permits	1	Lump Sum	\$20,000.00	\$20,000
<b>Subtotal Permitting</b>				<b>\$30,000</b>

*Decommissioning will require SWPPP and SPCC Plans. Cost is an estimate of the permit preparation cost.*

### Civil Infrastructure

Remove Gravel Surfacing from Road	211	Cubic Yards (BV)	\$3.39	\$715
Haul Gravel Removed from Road to Landfill (Elgin, IL)	264	Cubic Yards (LV)	\$16.21	\$4,279
Dispose of Gravel Removed from Road (Landfill uses as Daily Cover)	342	Tons	\$0.00	\$0
Remove Geotextile Fabric from Beneath Access Roads	1,189	Square Yards	\$1.40	\$1,665
Haul Geotech Fabric to Landfill (Elgin, IL)	0.3	Tons	\$8.84	\$3
Dispose of Geotech Fabric	0.3	Tons	\$81.00	\$24
Remove and Load Culvert from Beneath Access Roads	1	Each	\$420.00	\$420
Haul Culvert Removed from Access Roads to Landfill (Elgin, IL)	1	Each	\$62.11	\$62
Dispose of Culvert	0.3	Tons	\$81.00	\$24
Grade Road Corridor (Re-spread Topsoil)	535	Linear Feet	\$2.97	\$1,589
Decompact Road Area	0.2	Acres	\$249.40	\$50
Remove Chainlink Fence	4,175	Linear Feet	\$8.72	\$36,406
Haul Chainlink Fence to Metal Recycling (Gilberts, IL)	22	Tons	\$7.01	\$154
<b>Subtotal Civil Infrastructure</b>				<b>\$45,392</b>

*Civil removal costs are a combination of MNDOT unit costs where applicable, RSMeans cost for Chicago, Illinois, and industry standards provided to Westwood.*

### Structural Infrastructure

Remove Steel Foundation Posts (Arrays)	2,198	Each	\$16.90	\$37,146
Haul Steel Post to Metal Recycling (Gilberts, IL)	198	Tons	\$7.01	\$1,388
Remove Tracker Racking per String	480	Each	\$247.71	\$118,901
Haul Tracker Racking to Metal Recycling (Gilberts, IL)	329	Tons	\$7.01	\$2,306
<b>Subtotal Structural Infrastructure</b>				<b>\$159,741</b>

*Steel removal costs were calculated by using RSMeans information for demolition of steel members.*

*Hauling calculations are based on the locations of metals recyclers.*

### Electrical Collection System

Remove PV Panels	11,520	Each	\$13.46	\$155,059
Haul PV 95% of Panels to Reseller (Chicago, IL)	421	Tons	\$17.25	\$7,262
Haul 5% of PV Panels to Landfill (Elgin, IL)	22	Tons	\$8.41	\$185
Dispose of PV Panels	22	Tons	\$81.00	\$1,782
Remove Combiner Boxes	40	Each	\$60.00	\$2,400
Remove Equipment Skids	2	Each	\$1,210.20	\$2,420
Remove Equipment Pad Concrete Foundations	2	Each	\$6,220.35	\$12,441
Haul Concrete Foundations	51	Tons	\$12.23	\$624
Dispose Concrete Foundations	51	Tons	\$6.67	\$340
Haul Equipment to Transformer Disposal (Gilberts, IL)	2	Each	\$73.25	\$147
Remove SCADA Equipment	1	Each	\$2,000.00	\$2,000
Remove DC Collector System Cables (Copper)	6.80	Per MW	\$2,000.00	\$13,600
Remove Underground (AC) Collector System Cables & Fiber Optic	2	Locations	\$400.00	\$800
Load and Haul Cables for Recycling	6.9	Tons	\$8.06	\$56
Dispose of Fiber Optic Cables	0.25	Tons	\$81.00	\$20
<b>Subtotal Electrical Collection</b>				<b>\$199,136</b>

*Electrical removal costs of PV Panels and Combiner Boxes were based industry standard installation rates. Equipment pads, MV Equipment, and SCADA Equipment removal cost are based on removal of equipment, concrete pads, and conduits using a truck mounted crane and RSMeans information on crew production rates.*

**Transmission System**

Remove Overhead Cables	50.0	Feet	\$4.23	\$212
Loadout Overhead Cables	1.0	Tons	\$6.27	\$6
Haul Overhead Cables to Metals Recycling (Gilberts, IL)	1.0	Tons	\$7.01	\$7
Remove Insulators and Gangs	9	Each	\$577.48	\$5,197
Remove and Load Timber Transmission Poles	3	Each	\$946.11	\$2,838
Haul Timber Poles to Landfill (Elgin, IL)	3	Each	\$248.42	\$745
Erosion and Sediment Controls	13	LF	\$4.98	\$62
<b>Subtotal Transmission System</b>				<b>\$9,068</b>

**Site Restoration**

Stabilized Construction Entrance	1	Each	\$2,000.00	\$2,000
Perimeter Controls (Erosion and Sediment Control)	2,088	Linear Feet	\$4.98	\$10,398
Permanent Seeding on Roadway Areas	0.2	Acres	\$2,065.07	\$413
Till Array Areas to Agricultural Condition	23	Acres	\$216.22	\$4,943
<b>Subtotal Site Restoration</b>				<b>\$17,754</b>

**Project Management**

Project Manager	12	Weeks	\$3,749.00	\$44,988
Superintendent (half-time)	12	Weeks	\$1,762.50	\$21,150
Field Engineer (half-time)	12	Weeks	\$1,634.50	\$19,614
Clerk (half-time)	12	Weeks	\$375.00	\$4,500
<b>Subtotal Project Management</b>				<b>\$90,252</b>

*Standard industry weekly rates from RSMeans.*

<b>Subtotal Demolition/Removals</b>				<b>\$581,543</b>
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**Salvage**

Fencing (Chain Link)	22	Tons	\$248.34	\$5,463
Steel Posts	158	Tons	\$248.34	\$39,238
Module Racking	329	Tons	\$248.34	\$81,704
PV Modules	10,944	Each	\$36.40	\$398,314
Transformers and Inverters	6,785	Pounds	\$0.36	\$2,443
Transformers (Oil)	1,220	Gallons	\$0.70	\$854
DC Collection Lines (Copper)	5,600	Pounds	\$1.46	\$8,176
AC Collection Lines (Aluminum)	7,500	Pounds	\$0.79	\$5,925
Ground Conductor Lines (Copper)	762	Pounds	\$1.46	\$1,113
Transmission Lines (Aluminum)	1,248	Pounds	\$0.79	\$986
<b>Subtotal Salvage</b>				<b>\$544,215</b>

*Salvage values are a combination of the following factors; current market metal salvage prices, current secondary market for solar panel module recycling, discussions with national companies that specialize in recycling and reselling electrical transformers and inverters, and the assumption that care is taken to prevent any damage or breakage of equipment.*

<b>Total Demolition Minus Salvage</b>				<b>\$37,400</b>
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**Notes:**

1. Prices used in analysis are estimated based on research of current average costs and salvage values.
2. Prices provided are estimates and may fluctuate over the life of the project.
3. Contractor means and methods may vary and price will be affected by these.

## Cost Estimate Assumptions

To develop a cost estimate for the decommissioning of the Sun Trust Solar, Westwood engineers made the following assumptions and used the following pricing references. Costs were estimated based on current pricing, technology, and regulatory requirements. The assumptions are listed in order from top to bottom of the estimate spreadsheet. When publicly available bid prices or State Department of Transportation bid summaries were not available for particular work items, we developed time- and material-based estimates considering composition of work crews and equipment and material required. While materials may have a salvage value at the end of the Project life, the construction activity costs and the hauling/freight costs are separated from the disposal costs or salvage value to make revisions to salvage values more transparent.

1. Project quantities are based on the site plan prepared for SV CSG Sun Trust Solar, LLC, dated June 30, 2025.
2. A project of this size and complexity requires a full-time project manager with part-time support staff.
3. RS Means pricing was used for the Chicago, Illinois region for the second (2<sup>nd</sup>) quarter of 2025.
4. Common labor will be used for the majority of tasks, supplemented by electricians, steel workers, and equipment operators where labor rules may require. The labor rates reflect union labor rates.
5. Mobilization was estimated at approximately seven percent (7%) of total cost of other items.
6. Permit applications will require the preparation of a SWPPP and an SPCC Plan.
7. Road gravel removal was estimated on a time and material basis. Since the material will not remain on-site, a hauling cost is added to the removal cost. Clean aggregate can typically be used as “daily cover” at landfills without incurring a disposal cost. The road gravel may also be used to fortify local driveways and roads, lowering hauling costs but incurring placing and compaction costs. The hauling costs to a landfill represents an upper limit to costs for disposal of the road gravel.
8. The selected disposal facility (WM – Elgin Transfer Station) is located in Elgin, Illinois, approximately 12.8 miles from the Project site. Hauling costs to the landfill are estimated to be \$8.84 per ton.
9. Erosion and sediment control along road reflects the cost of silt fence on the downgradient side of the proposed roads. As such, the length of controls has been estimated to be approximately fifty percent (50%) of the road length.
10. Topsoil is required to be stockpiled on-site during construction, so no topsoil replacement is expected to replace the road aggregate. Subsoiling cost to decompact roadway areas is estimated as \$249.40 per acre, and tilling to an agriculture-ready condition is estimated as \$216.22 per acre.
11. The selected metal recycling facility (Elgin Recycling and Scrap Metal) is located in Gilberts, Illinois, approximately 1.3 miles from the Project site. Hauling costs to the recycling facility are approximately \$5.39 per ton mile, or \$7.01 per ton.
12. Tracker foundation posts are lightweight “I” beam sections installed with a specialized piece of equipment and can be removed with a standard backhoe with an attachment for gripping the piles. We estimate crew productivity at two hundred forty (240) posts per day, resulting in a per post cost of approximately \$16.90. The posts weigh approximately one hundred fifty (150) pounds each.
13. It is assumed that the racking structures weigh approximately fifteen (15) pounds per linear foot of array. Each solar panel has a width of 44.65 inches. The Project will have approximately 11,520 modules and 43,895 feet of array. The arrays are made of steel pipes; a crew with hand tools can



disassemble and cut the pieces to sizes for recycling at a rate of about 1,800 pounds per person per hour, or about \$353.55 per ton.

14. The solar panels for the Project measure approximately 3.72 feet by 8.08 feet and weigh 76.94 pounds. They can easily be disconnected, removed, and packed by a three- (3-) person crew at a rate we estimate at eighteen (18) panels per hour.
15. The equipment skids will consist of inverter(s), a transformer, and a panel on a metal frame approximately nineteen (19) feet long by eight (8) feet wide by eight (8) feet six (6) inches tall. The skids weigh approximately 18,000 pounds and can be disconnected by a crew of electricians. They must be lifted by a mobile crane for transport to the recycler. They contain copper or aluminum windings.
16. The transformers contain copper windings that have significant salvage value. They are typically oil filled, but most transformer recyclers will accept the transformers with oil. The estimated costs include removal of metal frame and conduits feeding the equipment.
17. Medium voltage (MV) equipment and SCADA equipment are mounted on the same equipment skids as the inverters and transformers, and they are enclosed in weatherproof cabinets. Their size requires light equipment to remove them. The costs for the removal of the pile foundations are included in the "Remove Steel Foundation Posts" estimate.
18. The underground collector system cables are placed in trenches with a minimum of eighteen (18) inches of cover. Several cables/circuits are placed side by side in each trench. The conduits and cables can be removed by trenching.
19. Perimeter control pricing is based on silt fence installation around downgradient sides of the project perimeter.
20. Metal salvage prices (steel, aluminum, copper) are based on July, 2025 quotes from [www.scrapmonster.com](http://www.scrapmonster.com) for the Midwest. Posted prices are three (3) months old. These prices are based on delivery to the recycling facility with the material prepared to meet size, thickness, cleanliness, and other specifications.
21. A reduction of twenty-five percent (25%) has been taken from all pricing obtained from [www.scrapmonster.com](http://www.scrapmonster.com) to reflect the processing by the contractor to meet the specifications.
22. The salvage value for steel uses pricing from the Midwest United States at \$365 per metric ton, or \$331.12 for U.S. ton.
23. Solar module salvage values are shown in current values, assuming near-new conditions for the first few years of operations. Pricing for used panels has been discounted from the average resale price of used panels, as published in EnergyBin's 2024 "Module Price Index." Module values will decline over time as a function of loss of output and age.
24. There is an active market for reselling and recycling electrical transformers and inverters with several national companies specializing in recycling. However, we have assumed that the electrical equipment will be obsolete at the time of decommissioning, so we have based the pricing on a percentage of the weight that reflects the copper windings that can be salvaged. Pricing was used for Copper Transformer Scrap for the Midwest United States, at \$0.48 per pound.
25. The collection lines are priced assuming copper conductor wire for the direct current circuits and aluminum wire for the alternating current circuits. The prices reflect a reduced yield of copper or aluminum resulting from the stripping of insulation and other materials from the wire prior to recycling. The estimate uses the Midwest prices of #2 insulated copper wire with a fifty percent (50%) recovery rate (\$1.95 /pound) and E.C. Aluminum Wire (\$1.05 /pound).

26. Care to prevent damage and breakage of equipment, PV modules, inverters, capacitors, and SCADA must be exercised, but removal assumes unskilled common labor under supervision.