

This Decommissioning Estimate has been prepared by LaBella Associates D.P.C. in an attempt to predict the cost associated with removal of the proposed solar facility. The primary cost of decommissioning is the labor to dismantle and load as the cost of trucking and equipment. All material will be removed from the site, including any concrete foundations, which will be broken up at the site and hauled to the nearest transfer station.

The following values were used in this Decommissioning Estimate

SYSTEM SPECIFICATIONS

Number of Modules		7,280
Number of Racks		380
Number of Inverters		20
Number of Transformers		1
Number of Switchboards		1
Number of Batteries		0
Number of Trees		0
Electrical Wiring Length	ft	494
Number of Foundation Screws		1520
Length of Perimeter Fence	ft	2795
Number of Power Poles		3
Access Rd Material Volume	CY	237
Total Disturbed Area	AC	13.7
Length of Wetland Fencing	LF	0
Length of Storm Piping	LF	0
Access Road Fill Material Volume	CY	20

LABOR AND EQUIPMENT COSTS

Labor Rate	\$/hr	\$	28.00
Bobcat Cost	\$/hr	\$	85.00
Front End Loader Cost	\$/hr	\$	125.00
Excavator Cost	\$/Day	\$	1,000.00
Trucking Cost	\$/hr	\$	130.00
Backhoe Cost	\$/hr	\$	105.00
Power Pole Removal Cost	\$/pole	\$	1,500.00
Grader Cost	\$/Day	\$	1,800.00
Gravel Export Cost	\$/CY	\$	8.00
Loam Import Cost*	\$/CY		
Seeding Cost	\$/AC	\$	2,500.00
Fuel Cost	\$/mile	\$	0.65
Tree Removal Labor Rate	\$/Tree	\$	100.00
Tree Removal Equipment Cost	\$/Tree	\$	120.00
Silt/Wetland Fence Install Cost	\$/LF	\$	1.25
Silt/Wetland Fence Removal Cost	\$/LF	\$	1.25
SWPPP Report	LS	\$	2,500.00
Const. Support, Inspections, Permitting	LS	\$	3,500.00
Battery Removal Cost	LS/Bat	\$	-
Pipe Removal Cost	\$/LF	\$	5.00
Access Road Fill Removal Cost	\$/CY	\$	10.15

EQUIPMENT & MATERIAL REMOVAL RATES

Module Removal Rate	min/module	2
Rack Wiring Rem. Rate	min/module	0.6
Racking Dismantling Rate	min/rack	60
Inverter Removal Rate	units/hr	1
Transformer Removal Rate	units/hr	2
Switchboard Removal Rate	units/hr	1
Battery Removal Rate	units/hr	0
Rack Loading Rate	hr/rack	0.2
Elect. Wiring Removal Rate	hr/LF	0.05
Screw Rem. Rate	screws/hr	27
Fence Removal Rate	min/LF	2
Bridge Removal/Dismantle Rate	hr	0
Days req to remove skids		1
Days req. with Rough Grader		1
Days req. with Fine Grade		1
Total Truckloads to Modern Landfill		15
Total Truckloads to Recycle Center		65
Total Truckloads for Scrap		10
Total Truckloads to Transfer Station		2
Round-Trip Dist. to Scrap Yard	mile	20
Round-Trip Time to Scrap Yard	hr	0.683
Round-Trip Dist. to Transfer Sta	mile	35
Round-Trip Time to Transfer Sta	hr	0.767
Round-Trip Dist. to Recycle Center	mile	35
Round-Trip Time to Recycle Center	hr	0.767
Cost/LB for Disposal to Recycle	\$/lb	0.04
Concrete Disposal to Recycle Center	Lump Sum	2000
Combined weight to Transfer Sta	lb	10110
Round-Trip Dist. to Modern Landfill	mile	35
Round-Trip time to Modern Landfill	hr	1
Panel Weight to Modern Landfill	lb	457184
Combined weight to Scrap Yard	lb	243831
Value/lb for scrap metal**	\$/lb	0.05
Value/lb for tracker wire**	\$/lb	2.5

*Undetermined quantity

**Scrape values obtained are subject to change

LABOR, MATERIAL, AND EQUIPMENT COSTS

1. REMOVE MODULES

The solar modules are fastened to racking with clamps. They slide in a track. A laborer needs on unclamp the module and reach over and slide the module out of the track.

$$(Module\ Removal\ Rate \times Total\ Number\ of\ Solar\ Modules \times Labor\ Rate) = Module\ Removal\ Cost$$

Total = \$ 6,794.67

2. REMOVE RACK WIRING

The modules are plugged together in the same manner as most electronics. The string wires are in a tray. A laborer only needs to unplug the module, reach into the array and remove the strands of wire.

$$Wire\ Removal\ Rate \times Total\ Number\ of\ Solar\ Modules \times Labor\ Rate = Rack\ Wiring\ Removal\ Cost$$

Total = \$ 2,038.40

3. DISMANTLE RACKS

The racking is supported by ground screw foundations. The racking will be disconnected from the foundation and removed separately.

$$Number\ of\ Racks \times Rack\ Dismantling\ Rate \times Labor\ Rate = Rack\ Dismantling\ Cost$$

Total = \$ 10,640.00

4. REMOVE AND LOAD ELECTRICAL EQUIPMENT

Inverters, transformers, and all other electrical equipment.

$$((Number\ of\ Inverters \times inverter\ Removal\ Rate) + (Number\ of\ Transformers \times Transformer\ Removal\ Rate) + (Number\ of\ Switchboards \times Switchboard\ Removal\ Rate) \times (Labor\ Rate + Front\ End\ Loader)) + (Number\ of\ Batteries \times Battery\ Removal\ Cost) = Remove\ And\ Load\ Electrical\ Equipment\ Cost$$

Total = \$ 3,519.00

5. LOAD RACKS

Once the racks have been dismantled, they will be loaded onto trucks for removal from the site. The cost for the trucking to a disposal facility is included in a later item in this estimate

$$Number\ of\ Racks \times Rack\ Loading\ Rate \times (Labor\ Rate + Front\ End\ Loader\ Cost) = Total\ Rack\ Removal\ Cost$$

Total = \$ 11,628.00

6. REMOVE LOW VOLTAGE ELECTRICAL WIRING

Electrical wiring will be removed from all underground conduits

$$Cable\ Length \times Cable\ Removal\ Rate \times (Labor\ Cost + Backhoe\ Cost) = Total\ Cable\ Removal\ Cost$$

Total = \$ 2,404.70

LABOR, MATERIAL, AND EQUIPMENT COSTS

7. REMOVE FOUNDATION SCREWS

Foundation screws will be backed out of the ground and loaded onto a truck to be removed from the site.

$$\text{Number of Screws} \times \text{Screw Removal Rate} \times \text{Labor Rate} = \text{Screw Removal Cost}$$

Total = \$ 1,576.30

8. REMOVE FENCING

Fencing posts, fabric, and foundations will be loaded onto a truck and removed from the site. Trucking to a disposal facility included in a later line item.

$$(\text{Total Length of Fence} \times \text{Fence Removal Rate}) \times (\text{Labor Rate} + \text{Bobcat Cost} + \text{Trucking Cost}) = \text{Fence Removal Cost}$$

Total = \$ 10,527.83

9. REMOVE UTILITY POLES

Power poles will be removed and shipped off site.

$$\text{Number of Power Poles} \times \text{Pole Removal Cost} = \text{Total Power Pole Removal Cost}$$

Total = \$ 4,500.00

10. GRAVEL ROAD RECLAMATION

Reclamation of the gravel access road will entail removing the gravel material and exporting it off site. The area will then be backfilled with loam and graded.

$$((\text{Days with Rough Grader} + \text{Days with Fine Grader}) \times \text{Grader Cost per Day}) + (\text{Roadway Material Volume} \times (\text{Gravel Export Cost} + \text{Loam Import Cost}) + (\text{Imported Fill Export Cost} \times \text{Imported Fill Volume}) + (\text{Pipe Removal Cost} \times \text{LF of Storm Pipe})) = \text{Gravel Road Reclamation Cost}$$

Total = \$ 5,699.00

11. SEED DISTURBED AREAS

Seeding cost includes seed and materials for resseeding all disturbed areas including the reclaimed gravel road area, former electrical areas, and areas disturbed by racking foundation removal.

$$\text{Seeding Cost} \times \text{Disturbed Area} = \text{Total Seeding Cost}$$

Total = \$ 34,125.00

12. TRUCK TO SCRAP YARD

All metal material will be trucked to the nearest scrap yard that accepts metal material. These materials include the racking, fences, electrical wiring, and ground screws. The value of the scrap will be deducted from this cost. The nearest scrap yard that accepts these materials is Sahd Metal Recycling, located at 1045 Lancaster Ave, Columbia, PA 17512.

$$(\text{Total Truckloads to Scrap} \times \text{Roundtrip Distance} \times \text{Fuel Cost}) + (\text{Total Truckloads to Scrap} \times \text{Round Trip Time} \times \text{Trucking Cost}) - (\text{Weight of Scrap} \times \text{Value of Scrap}) = \text{Total Trucking Cost to Transfer Scrap}$$

Total = \$ (11,173.65)

13. TRUCK TO TRANSFER STATION

All construction material excluding the electrical components, metal, and gravel/fill will be trucked to the nearest transfer station that accepts that material. These materials include the utility poles, storm piping, and geoweb. The transfer station that accepts this material is the Lancaster County Solid Waste Management Authority's Transfer Station Complex located at 1299 Harrisburg Pike, Lancaster, PA 17603. Frey Farm Landfill also accepts this material.

$$(\text{Total Truckloads to Transfer Station} \times \text{Roundtrip Distance} \times \text{Fuel Cost}) + (\text{Total Truckloads to Transfer Station} \times \text{Round Trip Time} \times \text{Trucking Cost}) + (\text{Weight} \times \text{Cost/lb}) = \text{Total Trucking Cost to Transfer Station}$$



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PROJECT	Abundant Solar Power, Inc (SUNN 1020, LLC)			
PROJECT NO.	2263503	SHEET	4	OF 5
SUBJECT	Decommissioning Estimate			
	CALC. BY	LSN	DATE	6/16/2026
	CKD. BY		DATE	

LABOR, MATERIAL, AND EQUIPMENT COSTS

14 TRUCK TO RECYCLE CENTER

Construction materials such as gravel, access road fill material, and concrete pads shall be transported to the Lancaster County Solid Waste Management Authority's Transfer Station Complex located at 1299 Harrisburg Pike, Lancaster, PA 17603. There is no fee for disposal of the fill material or the gravel, but there is a lump sum cost \$2,000 for the concrete material being disposed.

$$(Total\ Truckloads\ to\ Recycle\ Center \times Roundtrip\ Distance \times Fuel\ Cost) + (Total\ Truckloads\ to\ Recycle\ Center \times Round\ Trip\ Time \times Trucking\ Cost) + (Lump\ Sum\ Concrete\ Removal\ Cost) = \\ Total\ Truckng\ Cost\ to\ Victor\ Recycle\ Center$$

Total = \$ 9,959.90

15 TRUCK TO ELECTRONIC WASTE CENTER

All electrical materials including panels, transformers, inverters, combiner boxes, etc. shall be delivered to Modern Landfill located at 4400 Mt Pisgah Rd, Yorkana, PA 17406. There is no fee for disposal, however there is a cost to deliver to Modern Landfill, and Modern Landfill will not provide payment towards the valuable materials (such as copper) associated with the electronic waste that is delivered.

$$(Total\ Truckloads\ to\ Modern\ Landfill \times Roundtrip\ Distance \times Fuel\ Cost) + (Total\ Truckloads\ to\ Modern\ Landfill \times Round\ Trip\ Time \times Trucking\ Cost) = Total\ Truckng\ Cost\ to\ Modern\ Landfill$$

Total = \$ 8,791.25

16 TREE REMOVAL

Removal of screening plants including tree, stump, and reclamation of the soil impacted.

$$Total\ Number\ of\ Trees \times (Labor\ Rate + Equipment\ Rate) = Tree\ Removal\ Cost$$

Total = \$ -

17 MISCELANEOUS ITEMS

Fee for permitting, inspections, etc

$$(Construuction\ Support, permitting, inspections) = Misc\ Cost$$

Total = \$ 3,500.00



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PROJECT NO.	2263503	SHEET	5 OF 5
SUBJECT	Decommissioning Estimate		
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SUMMARY OF DECOMMISSIONING COSTS

The costs below are the current estimated costs to decommission a 5.0 MWAC Solar Facility, based on guidance from NYSDERDA and estimates from the New York solar market. The salvage values of valuable recyclable materials (aluminum, steel, copper, ect) are not factored into the below costs below. The scrap value is considered below, but will be determined on current market rates at the time of salvage.

LINE ITEM	TASK	COST
1	Remove Modules	\$ 6,794.67
2	Rack Wiring Removal	\$ 2,038.40
3	Rack Dismantling	\$ 10,640.00
4	Electrical Equipment Loading and Removal	\$ 3,519.00
5	Load Racks	\$ 11,628.00
6	Electrical Wiring Removal	\$ 2,404.70
7	Foundation Screw Removal	\$ 1,576.30
8	Fence Removal	\$ 10,527.83
9	Power Pole Removal	\$ 4,500.00
10	Gravel Road Reclamation*	\$ 5,699.00
11	Seed Disturbed Areas	\$ 34,125.00
12	Salvage to Scrap Yard	\$ (11,173.65)
13	Trucking to Transfer Station	\$ 649.32
14	Trucking to Victor Recycle Center	\$ 9,959.90
15	Trucking to EWASTE+	\$ 8,791.25
16	Tree Removal*	\$ -
19	Misc. Items	\$ 3,500.00
Subtotal =		\$ 105,179.72
8% Inspection & Permitting Contingency =		\$ 8,414.38
2% Legal Contingency =		\$ 2,103.59
Total =		\$ 115,697.69
Rounded Total =		\$ 116,000.00

* Refer to 'Summary of Decommissioning Fund' for contingency.

SUMMARY OF DECOMMISSIONING FUND

A decommissioning fund to guarantee that monies are available to perform the facility decommissioning will be created. The funds will be established as a bond, and will remain available to the Municipality to perform the decommissioning if needed. At the start of construction a bond will be established in the total amount of the project's 30-year maturity with a 2.5% inflation rate. The landowner may choose to keep the trees or road following the decommissioning of the site with the written approval from the Town. The bond shall be in place for the full life of the project (30 years).

YEAR	BOND VALUE
1	\$ 116,000
2	\$ 118,900
3	\$ 121,873
4	\$ 124,919
5	\$ 128,042
6	\$ 131,243
7	\$ 134,524
8	\$ 137,888
9	\$ 141,335
10	\$ 144,868
11	\$ 148,490
12	\$ 152,202
13	\$ 156,007
14	\$ 159,907
15	\$ 163,905
16	\$ 168,003
17	\$ 172,203
18	\$ 176,508
19	\$ 180,920

YEAR	BOND VALUE
20	\$ 185,443
21	\$ 190,080
22	\$ 194,831
23	\$ 199,702
24	\$ 204,695
25	\$ 209,812
26	\$ 215,058
27	\$ 220,434
28	\$ 225,945
29	\$ 231,593
30	\$ 237,383