



Longneck Solar, LLC
Catawba County

09/02/2016

Decommission Plan

As a supplement to the Conditional District Rezoning application to establish a photovoltaic solar array power generation facility located opposite 2725 Providence Mill Road Maiden, NC 28650, PIN #s 365802950767; 365802862732, Longneck Solar, LLC presents this decommissioning plan.

Decommissioning will occur as a result of any of the following conditions:

1. The system does not produce power for a period of 6 months; or
2. The system is rendered inoperable and will not be repaired or replaced

The operator of the facility will do the following as a minimum to decommission the project:

1. Remove all non-utility owned equipment, conduits, structures, and foundations to a depth of at least three feet below grade; and
2. Restore the land, to the extent possible, to the condition in which it existed before construction of the Solar Energy System ("SES"), by replacing a layer of top soil where the existing top soil has been removed or eroded as a result of construction and operation of the SES; and
3. Establish vegetative ground cover on the site that is native to the region, unless future redevelopment is better suited to occur on land without vegetative cover.

Longneck Solar, LLC shall notify the county when the site is abandoned. All said removal and decommissioning shall occur within 6 months of any aforementioned decommissioning condition.

The operator of the farm, currently Longneck Solar, LLC, is responsible for decommissioning the SES.

DocuSigned by:
 SES Operator Signature: Evan Riley Date: 9/6/2016
ETA914985F34495...

Property Owner Signature: Shirley S. Parker Date: 9-11-16



Even at the end of life, solar farms will have the ability to produce significant revenue streams.

End of Life Financial Estimates vs. Decommissioning Costs	
Assumptions	
System Size:	5 Megawatt AC
Decommissioning Estimate:	\$300,000
Projected Annual Output in 2056:	8,500,000 kilowatt-hours*
Scenario 1	
Solar Rates rise as expected. Conservative estimate of 12 cents per kilowatt-hour in 2056.	
Months of Operation to Cover Estimated Decommissioning Costs	3.5
Scenario 2	
No change in Solar Rates. Current price of 6 cents per kilowatt-hour in 2056.	
Months of Operation to Cover Estimated Decommissioning Costs	7.1
<i>*Varies slightly by farm location and panel type</i>	

End of Life Options (25-40 years)

- I. If Cypress Creek Renewables retains the site at the end of the power purchase agreement, we will have the following options:
 - a. Upgrade the Solar Farm: Cypress Creek Renewables would prefer to refit an existing facility for future use with new, lower-priced panels, inverters, and transformers. This would entail resigning a lease with the landowner, seeking new permits, and establishing new power purchase agreement with the utility.
 - b. Decommission and Salvage the Solar Farm: In the event that a land owner, local authority, or utility refuse to allow power production to continue, Cypress Creek Renewables would be forced to decommission and salvage the site. Three pricing scenarios are possible
 - i. The currently salvage value of solar farm materials slightly exceeds estimated decommissioning costs (see Engineer's Opinion of Cost).
 - ii. If electricity prices rise as expected and material salvage value improbably falls to zero, the estimated decommissioning cost could be recovered with less than 4 months of operational revenue (see End of Life Financial Estimate – Scenario 1).
 - iii. If material salvage value improbably falls to zero and electricity prices remain flat at the current rate, the estimated decommissioning cost could be covered with less than 8 months of operation (see End of Life Financial Estimate - Scenario 2).
- II. If the property changes hands, the site could be profitably operated by its owner or a third party asset management company to recover decommissioning costs.

5-MW Solar Facility

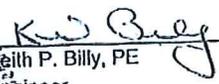
ENGINEER'S OPINION OF COSTS

Estimated quantities and associated costs to decommission the constructed improvements of a typical 5-MW Solar Facility (utilizing 315-Watt polycrystalline panels) in North Carolina

NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	Removal/Disposal				
1	Solar Module	22,222	Units	\$3.50	\$77,777.78
2	Inverter	3	Units	\$2,000.00	\$6,000.00
3	Transformer	3	Units	\$2,000.00	\$6,000.00
4	Racking Frame (Steel)	585	Units	\$100.00	\$58,479.53
5	Racking Post (Steel)	2,047	Units	\$7.25	\$14,839.18
6	Wire (Aluminum)	35,000	LF	\$0.50	\$17,500.00
7	Wire (Copper)	120,000	LF	\$0.25	\$30,000.00
8	Asphalt	0	SY	\$50.00	\$0.00
9	Concrete	69	CY	\$75.00	\$5,208.33
10	Gravel	556	CY	\$25.00	\$13,888.89
11	Chain Link Fence (6' high & barbed wire)	5,000	LF	\$5.00	\$25,000.00
	Site Restoration				
12	Grading/Seeding/Mulching	30	AC	\$1,300.00	\$39,000.00
				SubTotal	\$293,693.71
	Salvage Value (alum, copper, and steel prices per scrapregister.com)				
	US Region: East Coast				
	Date of Pricing: 2/4/2016				
13	Solar Module	22,222	Units	\$10.00	\$222,222.22
14	Inverter	3	Units	\$2,500.00	\$7,500.00
15	Transformer	3	Units	\$2,000.00	\$6,000.00
16	Racking Frame (Steel)	527,193	LB	\$0.062	\$32,605.81
17	Racking Post (Steel)	221,053	LB	\$0.062	\$13,671.65
18	Wire (Aluminum)	17,475	LB	\$0.576	\$10,065.60
19	Wire (Copper)	3,768	LB	\$1.725	\$6,499.80
20	Chain Link Fence (6' high & barbed wire)	22,500	LB	\$0.062	\$1,391.58
				SubTotal	\$299,956.66
NET COST OF DECOMMISSIONING					-\$6,262.95

The above is an opinion of costs based upon the current cost of comparable work being paid to qualified contractors in the project area. I accept no liability or responsibility for any errors, omissions, or the adequacy of any amounts contained herein.

Cypress Creek Renewables


 Keith P. Billy, PE
 Engineer



SEAL
31037
ENGINEER
KEITH P. BILLY