



# DECOMMISSIONING PLAN

**THREE RIVERS SOLAR POWER  
TOWNSHIP 16 MD BPP  
HANCOCK COUNTY, MAINE**

***SEPTEMBER 2019***

WITH ASSISTANCE BY:

***Acheron Engineering Services***

Engineering, Environmental & Geologic Consultants

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## **1.0 PROJECT DECOMMISSIONING AND SITE RESTORATION**

### **1.1 Introduction**

The Three Rivers Solar Power facility (Project) is a 100-Megawatt (MW) power generation facility located in Township 16 MD BPP in Hancock County, Maine. The project is located on a 1,115-acre parcel and approximately 465-acres will be used for installation of solar panels. It anticipated that the project life expectancy is 50 years.

Currently, Three Rivers Solar Power, LLC's use of the parcel for the project is described in a 50-year lease agreement between Three Rivers Solar Power, LLC and Elliot Jordan and Son's.

Following the life of the project or at the end of lease terms, Three Rivers Solar Power, LLC will evaluate the project and decide whether to extend the life of the project or begin the decommissioning process. At the time of decommissioning Three Rivers Solar Power, LLC or its successor will be responsible for the removal, recycling, and disposal of the solar panels, panel racks, fencing inverters, 115kV transformer and substation structures.

### **1.2 Project Decommissioning**

The project decommissioning process will return the project area for agricultural use. At the time it is determined that the project has reached its operational life, within 24 months the project equipment and structures will be disconnected, removed and recycled. All waste from dismantling will be transported by licensed transporters and recycled or disposed of in accordance with all local, State and federal rules.

Steps of the decommission process is summarized below, but not limited to the following:

- The facility will be disconnected from the 115kV transmission line.
- Solar panels will be disconnected from the system.
- All substation equipment, structures and foundations will be removed using conventional methods. Equipment and structure will be either reused at another site, recycled or disposed of.
- The substation area will be regraded and seeded to establish vegetation and prevent erosion.
- Panels will be unbolted from rack system and shipped to a designated facility for recycling or reuse.
- The steel panel rack system will be dismantled. Rack support posts will either be pulled from the ground or abandoned in place at a depth of at least 2-feet below grade. All steel will be recycled off site.
- All buried collector cables will be abandoned in place at a minimum depth of 2-feet below grade. Any above ground cables will be removed and recycled.

- Any materials that meet the definition of hazardous waste will be removed and disposed of in accordance with the Maine Hazardous Waste rules.
- All project fencing will be removed, reused or recycled.

## 2.0 ESTIMATED COST AND FINANCIAL ASSURANCE

### 2.1 Cost Estimate

The estimated cost for decommissioning is approximately \$2,230,450. The following table provides details of the potential costs. Estimates are based on potential unit costs for decommissioning published by the NYSERDA and based on the Massachusetts solar market.

<b>Three Rivers Solar</b>		
<b>Opinion of Potential Decommissioning Costs</b>		
<b>September 2019</b>		
<b>Tasks</b>	<b>Estimated unit Cost/2MW</b>	<b>Project Cost per Task</b>
Remove Rack Wiring	\$2,459	\$122,950
Remove Panels	\$2,450	\$122,500
Dismantle Racks	\$12,350	\$617,500
Remove Electrical Equipment	\$1,850	\$92,500
Breakup and Remove Concrete Pads or Ballast	\$400	\$20,000
Remove Racks	\$7,800	\$390,000
Remove Cable	\$500	\$25,000
Remove Ground Screws and Power Poles	\$13,850	\$692,500
Remove Fence	\$200	\$10,000
Grading	\$400	\$20,000
Seed Disturbed Areas	\$100	\$5,000
Truck to Recycling Center	\$2,250	\$112,500
	<b>Total</b>	<b>\$2,230,450.00</b>

### 2.2 Financial Assurance

Three Rivers Solar will demonstrate financial assurance to Hancock County, Maine through a performance bond, surety bond, or letter of credit prior to the start of construction. To identify any changes in the estimated net cost of decommissioning, the budgeted costs will be reassessed every 5-years throughout operations and updated cost of decommissioning will be submitted to Hancock County, Maine. Financial assurance will be updated based on most recent estimates and will remain in place until the decommissioning work has been completed.