

NY Middle Grove Road Solar LLC

Project Overview

Renesola Power Holdings LLC is proposing to build a new solar farm on a property located at 6654 Middle Grove Road, Middle Grove, NY 12850, owned by Elaine Austro and with the tax Parcel ID 162.-1-24. The project site occupies an area of 9 acres leased by Renesola.

Proposed Location

This location was chosen due to its proximity to 3-phase electrical distribution lines, association with a utility substation that has appears to have significant capacity to handle the electrical generation of a solar farm, the fact that the land is mostly cleared and flat so as to require minimal-to-no grading for constructing the facility, and the interest of the landowner in having a solar farm on his property.

Proposed Design

Solar panels will be installed in parallel rows as shown on the project map. Each panel will be approximately 2 meters high and 1 meter wide. In order to maximize power production a single axis tracker racking system has been chosen. Each row is composed of trackers with a minimum of 1x26 panels long or multiples of this. The rows will span the width of the project area, face East/West supported by a single-axis tracking system that is secured to the ground using embedded piles.

The solar panels will be wired together and connected to electrical boxes. Underground cabling will be installed to connect the boxes to inverter stations and switchgear. Connection to grid will be done overhead to a 4.8kV utility feeder located on Casey Road.

All the proposed work and equipment will comply with US standards and certifications, and it will take place within the identified property.

Interconnection Details

Interconnection (POI) to the utility grid (National Grid) will be done at the 13.2kV three phase over-head feeder running at Casey Road and connecting to New Whitesville substation. This project will meet the latest New York State Standardized Interconnection Requirements (SIR).

Landfill Considerations

This site is located on top of a State regulated closed landfill. As part of our due diligence for the site Renesola commissioned C&S Engineering to perform Landfill Sampling, which included collection of groundwater sampling of six (6) monitoring wells. Upstream and downstream samples from Clover Mill Brook were also collected. A certified NYSDOH Analytical Laboratory analyzed the samples. The results indicated no adverse environmental impacts from the landfill.

Cultural Resource Assessment

Renesola has reviewed the New York Cultural Resource Information System. Please note that there are no known historic structures near the site and that the project is not identified as an area of archaeological sensitivity.

Fencing

The new solar farm will be entirely surrounded by a 7 foot chain linked fence, topped with barbed wire for public safety and site security. There will be a 20ft setback from the fence to the array.

A setback distance of 100ft between the solar array and the adjacent property, as well as between the solar array and surrounding roads' center line, has been considered.