



Verdanterra
37 Bailey Avenue
Latham, NY 12110
(518) 857-7169

Re: Oak Hill Solar
13590 Duanesburg Road, Duanesburg, NY 12053
Issued for Construction (IFC) Plans
Summary of Plan Changes

July 28, 2021

Dear Mr. Warner:

Dale Warner
Town Planner / Building
Inspector / Code
Enforcement Officer
Town of Duanesburg
5853 Western Turnpike
Duanesburg, NY 12053

Greencells USA, Inc. plans to install a solar generation facility at 13590 Duanesburg Road, Duanesburg, NY. The Town of Duanesburg Planning Board approved the project on September 19, 2019, by issuing a Resolution Approving Special Use Permit, Subdivision and Site Plan for the Eden Renewables Oak Hill Solar Energy Projects – 1206 Oak Hill Road. The solar project design has been slightly updated since 2019 due to technological advancements and the evolution of the documents from a permit set to full construction drawings.

During the July 15, 2021 Duanesburg planning board meeting it was discussed that the town engineer, Prime AE Group, Inc. represented by Doug Cole, will review the IFC (Issued For Construction) plan and SWPPP changes before the next scheduled planning board meeting on August 19, 2021.

The following is a summary of design changes between the permit plans – Proposed Site Plan for Oak Hill Solar 1 & 2, dated June 6, 2019, prepared by Environmental Design Partnership, LLP. and the construction plans, Oak Hill Solar 1 & 2 – Issued for Construction Plans, dated May 28, 2021, prepared by Verdanterra and Greencells USA, Inc.

Design changes:

- Point of Interconnection – Replaced pole design with a combination pad mounted and pole setup for two connections at the entrance.
- Extension of the northern access drive and addition of a southern access drive to Oak Hill 1 due to an updated electrical design. The northern access drive has been revised and extended by approximately 500 feet. The southern access drive is approximately 933 feet. The main access drive layout has been slightly altered within the project site to better avoid wetland disturbance. The project proposes the use of the NYSDEC limited use pervious access road detail; therefore, the additional lengths of access drives do not affect stormwater runoff. The SWPPP has been updated accordingly.
- The proposed wetland crossings for the access drive have been slightly revised and result in an overall decrease in permanent wetland disturbance. The permanent wetland disturbance decreased from approximately 0.04 acres to 0.02 acres. A revised permit has been requested from the USACE to reflect the newly proposed permanent wetland impacts. This permit will be provided to the Town upon receipt.

- Fewer solar panels are proposed within wetlands. The overall solar panel footprint has decreased from permitting plan stage. Under permitting plans the site used Astronergy solar panels. Oak Hill 1 & 2 combined had 45,455 solar panels and 3,950 solar panel posts. Under IFC design the site uses Vikram bifacial solar panels. Oak Hill 1 and Oak Hill 2 have 21,728 solar panels each. Oak Hill 1 has 1,512 solar panel posts and Oak Hill 2 has 1,501 solar panel posts.
- Equipment pad locations have been revised due to electrical design.
- The impervious area has increased from approximately 0.029 acres to 0.088 acres. The impervious area increase is due to the equipment pad size based on the electrical design.
- Turnaround at entrance gate added as requested by the Town of Duanesburg.
- Stormwater infiltration trenches have been added and designed to account for the final equipment pad sizes and locations.
- Landscape buffer added along the eastern border of the Oak Hill 2 site to provide additional visual shading. Additional landscaping added at the site entrance.
- The site disturbance now takes into consideration the full project site and access to the project site. Permit disturbance took only the access road, trenching and equipment pad installation into consideration (approximately 0.88 acres). The site disturbance is now approximately 69.72 acres (a.k.a. the limit of disturbance). This is a better representation of the possible disturbance that will be encountered during construction.
- The single-axis tracker has evolved from having a single module in portrait orientation in the permit drawings to having two modules in portrait orientation in the Issued For Construction drawings.
- The energy storage solution has changed from a distributed, decentralized architecture to a centralized architecture. There are four energy systems included in the Issued For Construction drawings. Each project (Oak Hill 1 and Oak Hill 2) will contain two containers for a total of four containers. The batteries will be housed in those shipping containers, which will be placed on concrete pads.

If you have any questions regarding the enclosed information, please contact me at (518) 857-7169 or cconnelly@verdanterra.com.

Sincerely,
Verdanterra, LLC



Christopher W. Connelly, PE
Civil Engineer

cc: Doug Cole, Prime AE Group, Inc.
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