



HIGH RIVER ENERGY CENTER

Case No. 17-F-0597

1001.3 Exhibit 3

Location of Facilities

Contents

Exhibit 3: Location of Facilities.....	1
3(a) Topographic Maps.....	2
(1) Location of Project Components.....	2
(2) Proposed Interconnection Locations.....	2
(3) Proposed Ancillary Features.....	3
(4) Proposed Electric Transmission Facility Subject to Article VII.....	3
(5) Project Study Areas.....	3
3(b) Maps of Project Area.....	4
3(c) Description of the Proposed Facility Location Relations.....	4

Figures

Figure 3-1. Project Component Locations

Exhibit 3: Location of Facilities

This Exhibit will track the requirements of proposed Stipulation 3, dated August 26, 2019 and therefore, the requirements of NYCRR § 1001.3. This Exhibit contains maps, drawings, and explanations showing the proposed location of Project components including the commercial-scale solar arrays, access roads, inverters, fencing, buried electric collection lines, and electrical interconnection facilities. The Project Area totals 1,221 acres. The total area of the Limit of Disturbance (LOD) for the Project is 569 acres, and the area inside all fences for the Project totals 479 acres. The proposed ancillary features, including the access roads, collection substation, switchyard, and an approximately 500 foot 115 Kilovolt (kV) interconnection line from the switchyard looping into the existing National Grid Stoner-Rotterdam #12 115 kV transmission line, will primarily be located entirely within the Project Area (with the exception of portions of the collection line which will be located within the right-of-way of Thayer Road (approximately 922 feet), Bulls Head Road (approximately 2,197 feet), Mohr Road (approximately 50 feet), and County Route 152 (Pattersonville Road) (approximately 3,889 feet). The following sections describe specific Project features and representative mapping prepared.

The Project proposes to install fixed, tracker or a combination of both types of racking systems. As the technology is rapidly evolving for solar panel technology, and market conditions at the time procurement decisions need to be made are unknown at this time, the Applicant is proposing in this Application to evaluate both types of racking systems, with the final decision to be made and detailed in the Compliance Filing. The tracking and fixed array racking systems to be utilized would be similar to the Gamechange Solar Genius Tracker™ and the Gamechange Maxspan™ Pile Driven System, respectively, specification sheets of which have been included in Appendix 2-2 and Appendix 2-3. Regardless of the type of array racking system ultimately selected for the Project, the Applicant intends to utilize a solar module similar to the Jinko Solar Eagle 72HM G2 380-400 Watt Mono Perc Diamond Cell. A specification sheet for this module has been included in Appendix 2-1. Only selected elements of the Project would change based upon the combination of array racking system types used, but all changes would be within the component fence line and to the same land uses shown in the Proposed Layout. The location of interior access roads and inverters, depending upon the final locations, could differ from that shown in the Exhibit 11 plans. Land coverage ratios will also be adjusted but they are not expected to be substantial or significant. Again, land uses are the same in all locations.

Accordingly, the drawings, plan, and maps required by Exhibit 11 depict a combination of both panel types, fixed and tracker. Approximately 50 % of the panels are fixed and 50% are trackers. As part of the alternative layout evaluation, Exhibit 9 presents a site plan depicting all fixed panels.

3(a) Topographic Maps

The Applicant has reproduced the most recent United States Geologic Survey (USGS) maps at original scale to indicate the locations of the Project facilities, including all Project Components and interconnection facilities. Designed to deliver a coherent perspective of the data in a Geographic Information System (GIS) accessible format, the USGS/National Map topographic mapping portrays information consistent with the most recent USGS 7.5-minute (1:24,000) quadrangle topographic maps at large scales (USGS/The National Map, 2018). The Project Area is located in the Amsterdam and Pattersonville quadrangles. The USGS mapping database presents detailed topographic mapping for the United States, as well as land cover imagery for the world. The following sections describe mapping produced to represent Project Facilities on topographic mapping.

(1) Location of Project Components

Figure 3-1 depicts the locations of the proposed major electric generation components and interconnection facilities associated with the Project. These items include the solar panel arrays, inverters, fencing, access roads, collection lines, laydown/staging areas, collection substation, and Point of Interconnection (POI) switchyard and an approximately 500-foot interconnection line from the switchyard looping into the existing National Grid transmission line. No Operation & Maintenance (O&M) building will be proposed as part of the Project. The facilities mapped on Figure 3-1 are collectively referred to as the Project.

The Project is composed of multiple land parcels, currently under lease or purchase option from private landowners. The location of these parcels is shown on Figure 4-3 in Exhibit 4.

Multiple alternative solar panel array locations were evaluated during the course of the Project siting effort. These alternative locations are shown on Figure 9-1 and discussed in Exhibit 9 (Alternatives).

(2) Proposed Interconnection Locations

The Project Components, excluding portions of the collector line at Thayer Road, Bulls Head Road, Mohr Road, and County Route 152 (Pattersonville Road), will be located within the defined

Project Area and therefore, are mapped in Figure 3-1. More specifically, the interconnection facilities will be located within the fence line of the collection substation that will be situated approximately 500 feet south of the New York State (NYS) Thruway I-90 in the Town of Florida. The Project will have no need for potable water connection or wastewater connection as there is no proposed O&M building as part of the Project.

(3) Proposed Ancillary Features

The proposed ancillary features, including the access roads, collection substation, switchyard and an approximately 500 foot 115 kV interconnection line from the switchyard looping into National Grid's existing Stoner-Rotterdam #12 115 kV transmission line, will primarily be located entirely within the Project Area with the exception of portions of the collection line which will be located within the right-of-way of Thayer Road (approximately 922 feet), Bulls Head Road (approximately 2,197 feet), Mohr Road (approximately 50 feet), and County Route 152 (Pattersonville Road) (approximately 3,889 feet) and therefore, are shown on Figure 3-1.

(4) Proposed Electric Transmission Facility Subject to Article VII

There are no proposed electric transmission line or fuel gas transmission line interconnections that are subject to review under Article VII of the Public Service Law (PSL) proposed as part of the Project; therefore, this information is not required to be included as part of the Application.

(5) Project Study Areas

Numerous studies were conducted in support of this Article 10 Application. A Study Area encompassing a 2-mile radius around the proposed Project Area was employed during the Preliminary Scoping Statement process. Depending upon the specific resource being evaluated, variations from the 2-mile Study Area we employed are described below:

- Noise (see Exhibit 19 for additional detail): The potential for noise generated from operation of the proposed Facility was assessed for receptor locations to a distance of 0.25 miles from the Project Area based upon proximity of residences, outdoor public facilities and areas, hospitals, places of worship, and schools to facility components, and structure areas assumed to be sensitive where a structure was not accessible for field verification or classifiable using aerial imagery.
- Archaeological Area of Potential Effect (see Exhibit 20 for additional detail): Archaeological Area of Potential Effect (APE) was defined as where ground disturbances

may occur, inclusive of access roads, workspaces, collection lines, the proposed substation and interconnection facilities, and other areas of significant ground-disturbing activities in accordance with New York State Office of Parks, Recreation, and Historic Preservation (OPRHP) guidance.

- Architectural Survey Area (see Exhibit 20 for additional details): For assessment of direct effects, the APE is defined as the area of construction. For assessment of indirect effects, the APE is defined as those areas removed in distance, where Project Components will be visible and where there is a potential for significant visual effect, the extents of which were determined based up on the results of a viewshed assessment (see Exhibit 24 for additional details on the viewshed assessment).
- Wetland/Stream Survey Area (see Exhibits 22 and 23 for additional detail): Wetland and stream delineations were conducted for 1,221 acres within the 13 land parcels comprising the Project Area. Approximately 569.05 acres are proposed for the installation of the Project and associated components, including a new collection substation, all located in the Town of Florida, New York.
- Visual Study Area (see Exhibit 24 for additional detail): A primary Visual Study Area (VSA) of 5 miles was evaluated.

3(b) Maps of Project Area

Figure 3-1 shows the location of the Project Area and Project Components, including the commercial-scale solar arrays, interconnections, electric collection lines, collection substation, and the POI facilities in relations to municipal boundaries, taxing jurisdictions, designated neighborhoods or community districts.

3(c) Description of the Proposed Facility Location Relations

The Project Area and all ancillary features are located entirely within Montgomery County and more specifically within the Town of Florida. The Project is not located within designated neighborhood or community districts. Refer to Exhibit 4 for additional information regarding municipalities.

Much of the Project and its proposed components, including its interconnection facilities, are located within the Amsterdam City School District, and a very small portion of the Project Area, on the eastern edge, is located within the Schalmont Central School District. There are no solar

panels proposed within the Schalmont Central School District boundary. The City of Amsterdam is located approximately 1.15 miles northwest of the Project Area boundary.

References

USGS Topo Maps. 2018. *ESRI Map Service*.

<https://www.arcgis.com/home/item.html?id=99cd5fbd98934028802b4f797c4b1732>.

Accessed 2019.