DRYDEN RD 3.3 MW AC (Aggregate)
SOLAR PROJECT VIEWSHED STUDY

Prepared for:
TOWN OF DRYDEN
TOMPKINS COUNTY, NEW YORK

Prepared by:
Delaware River Solar, LLC

OCTOBER 30th 2017
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1. SOLAR FACILITY SUMMARY DATA

This view shed study ("Study") will consider the views from the buildings and roads near the "Solar Facility" in order to ensure the views of the Solar Facility are minimized through the use of existing natural barriers and topography and any proposed screening to be added.

The proposed Solar Facility will be located on the following site ("Facility Site").

<table>
<thead>
<tr>
<th>Address:</th>
<th>Dryden Road</th>
</tr>
</thead>
<tbody>
<tr>
<td>State:</td>
<td>New York</td>
</tr>
<tr>
<td>Town:</td>
<td>Dryden</td>
</tr>
<tr>
<td>County:</td>
<td>Tompkins</td>
</tr>
<tr>
<td>Tax ID:</td>
<td>47.-1-7.3</td>
</tr>
<tr>
<td>Acres:</td>
<td>Total: 113.78</td>
</tr>
<tr>
<td>Latitude, Longitude:</td>
<td>42.489873, -76.309275</td>
</tr>
</tbody>
</table>

Table 1: Site Summary
1.1. Location

The Facility Site for the proposed Solar Facility is located south of Dryden Road, north of Ferguson Road, east of Irish Settlement and west of Hilton Road.

Figure 1: Facility Site

Figure 2: Facility Site
1.2. Nearest Residential Structures

There are some residential structures near the Facility Site that may have direct visual contact of the Solar Facility. Some of these residential structures have existing vegetation that would impede views of the Solar Facility and others may require screening to impede the views. The residential structures with direct visual contact of the Solar Facility are indicated below.

Figure 3: Nearby Residential Structures with Views the of the proposed Solar Facility
**Group 1:** This group is located on the north side of the Facility north of Dryden Road and has direct visual contact with the Solar Facility.
- There is minimal existing vegetation to impede the view of the Solar Facility.
- At the closest residence the distance to the Solar Facility is 2,710 feet
- Screening should be considered either along Dryden Road or along the north perimeter of the Solar Facility to minimize views.

**Group 2:** This group is located north west of the Solar Facility on the south side of Dryden Road and has direct visual contact with the Solar Facility. There is minimal existing vegetation to impede the view of the Solar Facility. This group of structures is owned by the landowner that is leasing the Facility Site to the Solar Facility.
- At the closest residence the distance to the Solar Facility is 2,224 feet
- Screening should be considered along the north perimeter of the Solar Facility to minimize views.

**Group 3:** This group is located north east of the Solar Facility on the south side of Dryden Road and has direct visual contact with the Solar Facility.
- There is minimal existing vegetation to impede the view of the Solar Facility.
- At the closest residence the distance to the Solar Facility is 2,746 feet
- Screening should be considered along the north perimeter of the Solar Facility to minimize views.

**Group 4:** This group is located south east of the Solar Facility on the south side of Ferguson Road and has direct visual contact with the Solar Facility.
- There is minimal existing vegetation to impede the view of the Solar Facility.
- At the closest residence the distance to the Solar Facility is 1,417 feet
- Screening should be considered along the east perimeter of the Solar Facility to minimize views.

**Group 5:** These groups are located south east and north east of the Solar Facility and have limited direct visual contact with the Solar Facility due to existing natural barriers.
- At the closest residence the distance to the Solar Facility is 3,077 feet for the residences north east of the Solar Facility and 1,373 feet for the residences on the south west of the Solar Facility
- Screening may be considered however the distance and existing natural barriers currently minimize views of the Solar Facility.
1.3. Road Side Views

Dryden Road: Dryden Road runs along the north side of the Solar Facility. There is some existing natural vegetation, along with some residences, that will impede the views of the Solar Facility from certain portions of Dryden Road. For the portion of Dryden Road immediately to the north of the Solar Facility the screening proposed along the north perimeter of the Solar Facility to minimize views to residential groups 1, 2 and 3 above will also minimize views from those traveling along Dryden Road immediately north of the Facility Site.

Ferguson Road: Ferguson Road runs along the south side of the Solar Facility. There is some existing natural vegetation, along with some structures, that will impede the views of the Solar Facility from certain portions of Ferguson Road. The screening proposed along the east perimeter of the Solar Facility to minimize views to residential groups 3 and 4 above will also minimize views for those traveling west along Ferguson Road. Along the portion of Ferguson Road immediately south of the Solar Facility it is proposed that screening should be considered along the road as the Solar Facility is lower in elevation than Ferguson Road and placement of screening near Ferguson Road would minimize views of the Solar Facility.

Hilton Road: Hilton Road runs along the east side of the Solar Facility. There is existing vegetation, along with some structures, that will impede the views of the Solar Facility. The screening proposed along the east perimeter of the Solar Facility to minimize views to residential groups 3 and 4 above will also impede the views of the Solar Facility from Hilton Road.

Irish Settlement Road: Irish Settlement Road runs along the west side of the Solar Facility. There is existing vegetation, along with some structures, that will impede the views of the Solar Facility from Irish Settlement Road. It is not expected that screening will be required on the west side of the Solar Facility as the distance from Irish Settlement Road and natural screening will minimize views of the Solar Facility.

1.4. Proposed Vegetative Screening

Where necessary, screening of the Solar Facility shall include a naturalized mix of indigenous trees spaced in a design to minimize views of the Solar Facility year round.

Proposed Plants for Screening

<table>
<thead>
<tr>
<th>ABREVIATURE</th>
<th>BOTANICAL NAME</th>
<th>COMMON NAME</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG</td>
<td>Picea Pungens</td>
<td>Colorado White Spruce</td>
<td>15’-20’ ft.</td>
</tr>
<tr>
<td>WP</td>
<td>Pinus Strobus</td>
<td>Eastern White Pine</td>
<td>15’-20’ ft.</td>
</tr>
<tr>
<td>PA</td>
<td>Picea Abies</td>
<td>Norway Spruce</td>
<td>15’-20’ ft.</td>
</tr>
</tbody>
</table>
Figure 4. Solar Facility Contour and Orography
3. VIEWSHED GRAPhICS

Figure 5: Viewsheds Under Study
Solar Project

Perimeter fence

Property limits

Approx. 20 ft.

Approx. 6 ft.

Eye height
Solar Project

Properties

Approx. 6 ft. eye height

Approx. 20 ft. tree
4. SUMMARY

The proposed screening of the Solar Facility is set forth in Figure 6 below. Please note:

- The proposed screening is intended to minimize views of the Solar Facility to nearby residences and roads, however, will not eliminate all views of the Solar Facility.
- There is adequate areas and space to plant the proposed additional vegetation.
- The proposed vegetation may be of different height as considered in accordance with the elevation profile graphs.

5. PROPOSED SCREENING

Figure 6: Proposed Screening of the Solar Facility

NOTE: The appropriate areas are based on this preliminary study. Therefore, they may be subject to changes and future modifications when additional topographic studies are carried out.