## Solar Highway Initiative - Site Selection - Load Zone and Bundle Requirements 3-29-16

<table>
<thead>
<tr>
<th>Bundle</th>
<th>LOAD ZONE</th>
<th>USAGE: Total kWh for each Zone and Bundle</th>
<th>BUNDLE requirement as % of total bundle usage</th>
<th>ZONE requirement as % of total bundle requirement</th>
<th>Required annual kWh production for each Zone and Bundle</th>
<th>Approx. acres of panels to MEET kWh requirements (Total kWh divided by)*</th>
<th>Approx. acres available for development</th>
<th>Number of sites available in each load zone and bundle</th>
<th>DC capacity (kW); kWh requirement divided by**:</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>West</td>
<td>4,709,944</td>
<td>37.5%</td>
<td>1,500,000</td>
<td>2.34</td>
<td>34.50</td>
<td>3</td>
<td>1,198</td>
<td>1,252</td>
</tr>
<tr>
<td>B</td>
<td>Genesee</td>
<td>5,210,530</td>
<td>25.0%</td>
<td>1,000,000</td>
<td>1.56</td>
<td>16.80</td>
<td>4</td>
<td>799</td>
<td>25%</td>
</tr>
<tr>
<td>C</td>
<td>Central</td>
<td>6,240,043</td>
<td>37.5%</td>
<td>1,500,000</td>
<td>2.34</td>
<td>36.10</td>
<td>4</td>
<td>1,198</td>
<td>1,252</td>
</tr>
<tr>
<td></td>
<td>bundle 1 subtotal</td>
<td>16,160,517</td>
<td>25%</td>
<td>4,000,000</td>
<td>6.25</td>
<td>87.40</td>
<td>11</td>
<td>3,195</td>
<td>33%</td>
</tr>
<tr>
<td>E</td>
<td>Mohawk Valley</td>
<td>5,180,822</td>
<td>40.0%</td>
<td>1,600,000</td>
<td>2.50</td>
<td>15.30</td>
<td>3</td>
<td>1,278</td>
<td>1,252</td>
</tr>
<tr>
<td>F</td>
<td>Capital</td>
<td>6,836,104</td>
<td>60.0%</td>
<td>2,400,000</td>
<td>3.75</td>
<td>21.50</td>
<td>5</td>
<td>1,917</td>
<td>25%</td>
</tr>
<tr>
<td></td>
<td>bundle 2 subtotal</td>
<td>12,016,926</td>
<td>33%</td>
<td>4,000,000</td>
<td>6.25</td>
<td>36.80</td>
<td>8</td>
<td>3,195</td>
<td>33%</td>
</tr>
<tr>
<td>G</td>
<td>Hudson Valley</td>
<td>6,108,478</td>
<td>40.0%</td>
<td>2,000,000</td>
<td>3.13</td>
<td>14.80</td>
<td>5</td>
<td>1,597</td>
<td>36%</td>
</tr>
<tr>
<td>H</td>
<td>Milwood</td>
<td>1,820,179</td>
<td>20.0%</td>
<td>1,000,000</td>
<td>1.56</td>
<td>2.50</td>
<td>1</td>
<td>799</td>
<td>12.0%</td>
</tr>
<tr>
<td>I</td>
<td>Dunwoodie</td>
<td>6,073,372</td>
<td>40.0%</td>
<td>2,000,000</td>
<td>3.13</td>
<td>8.04</td>
<td>2</td>
<td>1,597</td>
<td>12.0%</td>
</tr>
<tr>
<td></td>
<td>bundle 3 subtotal</td>
<td>14,002,029</td>
<td>36%</td>
<td>5,000,000</td>
<td>7.81</td>
<td>25.34</td>
<td>8</td>
<td>3,994</td>
<td>36%</td>
</tr>
<tr>
<td>J</td>
<td>New York City</td>
<td>1,482,809</td>
<td>12.0%</td>
<td>840,000</td>
<td>1.31</td>
<td>20.00</td>
<td>2</td>
<td>671</td>
<td>25%</td>
</tr>
<tr>
<td>K</td>
<td>Long Island</td>
<td>19,958,384</td>
<td>88.0%</td>
<td>6,160,000</td>
<td>9.63</td>
<td>20.50</td>
<td>13</td>
<td>4,920</td>
<td>88.0%</td>
</tr>
<tr>
<td></td>
<td>bundle 4 subtotal</td>
<td>21,441,193</td>
<td>33%</td>
<td>7,000,000</td>
<td>10.94</td>
<td>40.50</td>
<td>15</td>
<td>5,591</td>
<td>33%</td>
</tr>
<tr>
<td>TOTAL ALL ZONES (DOT)</td>
<td>63,620,665</td>
<td>31%</td>
<td>20,000,000</td>
<td>31.25</td>
<td>190.04</td>
<td>42</td>
<td>15,974</td>
<td>31%</td>
<td></td>
</tr>
</tbody>
</table>

* Conversion factor from NYSERDA - 1 Acre can generate 640,000 kWh annually

** Conversion factor from NYSERDA - 1kW of solar PV DC capacity yields approximately 1,252 AC kWh per year
<table>
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<tr>
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<th>USAGE: Total kWh for each Zone and Bundle</th>
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<th>Approx. acres of panels to MEET kWh requirements (Total kWh divided by)**:</th>
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<th>Number of sites available in each load zone and bundle</th>
<th>DC capacity (kW); kWh requirement divided by**:</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>West</td>
<td>2,954,378</td>
<td>50.0%</td>
<td>834,662</td>
<td>1.30</td>
<td>9.50</td>
<td>1</td>
<td>667</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Genesee</td>
<td>541,113</td>
<td>10.0%</td>
<td>166,932</td>
<td>0.26</td>
<td>2.70</td>
<td>1</td>
<td>133</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Central</td>
<td>2,068,919</td>
<td>40.0%</td>
<td>667,729</td>
<td>1.04</td>
<td>6.40</td>
<td>1</td>
<td>533</td>
<td></td>
</tr>
<tr>
<td>Bundle 5 subtotal</td>
<td>5,564,410</td>
<td>30%</td>
<td>100.0%</td>
<td>1,669,323</td>
<td>2.61</td>
<td>18.60</td>
<td>3</td>
<td>1,333</td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>Mohawk Valley</td>
<td>847,127</td>
<td>50.0%</td>
<td>329,930</td>
<td>0.52</td>
<td>8.60</td>
<td>2</td>
<td>264</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>Capital</td>
<td>1,352,408</td>
<td>50.0%</td>
<td>329,930</td>
<td>0.52</td>
<td>8.00</td>
<td>2</td>
<td>264</td>
<td></td>
</tr>
<tr>
<td>Bundle 6 subtotal</td>
<td>2,199,535</td>
<td>30%</td>
<td>100.0%</td>
<td>659,860</td>
<td>1.03</td>
<td>16.60</td>
<td>4</td>
<td>527</td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>Hudson Valley</td>
<td>3,493,222</td>
<td>100.0%</td>
<td>1,047,966</td>
<td>1.64</td>
<td>5.70</td>
<td>1</td>
<td>837</td>
<td></td>
</tr>
<tr>
<td>Bundle 7 subtotal</td>
<td>3,493,222</td>
<td>30%</td>
<td>100.0%</td>
<td>1,047,966</td>
<td>1.64</td>
<td>5.70</td>
<td>1</td>
<td>837</td>
<td></td>
</tr>
<tr>
<td>TOTAL ALL ZONES (TA)</td>
<td>11,257,167</td>
<td>30%</td>
<td>3,377,149</td>
<td>5.28</td>
<td>40.90</td>
<td>8</td>
<td>2,697</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Conversion factor from NYSERDA - 1 Acre can generate 640,000 kWh annually
** Conversion factor from NYSERDA - 1kW of solar PV DC capacity yields approximately 1,252 AC kWh per year
Baseline Solar Site Characteristics:

- **Lot Size**: Approximately two acres; **Grade**: Relatively level, generally 0 – 15%.
- **Shape**: Sites vary; may be regular (square, rectangle, linear, etc.) or irregular.
- **Site prep**: Requires suitable finish grade for proper panel installation.
- **Vegetation**: Mostly grass; generally free of trees greater than 6” diameter at breast height (dbh) but will require clearing & grubbing of up to ½ acre of brush and scattered small trees (6” dbh or less); Dispose of all trees, brush & debris in accordance with NYSDOT Standard Specifications § 201-Clearing & Grubbing (p. 183) and as approved by NYSDOT/NYSTA; Re-establish vegetation (grass, etc.) on disturbed areas not occupied by solar panels or access roads.
- **Soils**: Well drained soil with no contaminants.
- **Rock**: Soils may contain some loose rock but bedrock will likely not be close to the soil surface.
- **Power Connection**: Three phase power connection within 500 feet; underground utility connection required.
- **Access**: Provide a crushed aggregate (equivalent to NYSDOT Standard Specifications §703-02 (p. 937), Size designation 2) access roadway, approximately 10' wide, 4-6' deep and up to 500 feet long.
- **Security**: No fencing, or security cameras.
- **Setback**: ROW: 50 feet from travel way; adjacent property lines: 30 feet.
- **Panel Coverage**: Panels will cover approximately 80% of the site.
<table>
<thead>
<tr>
<th>SITE #</th>
<th>Route #</th>
<th>Description</th>
<th>NYISO Load Zone Name</th>
<th>Estimated Areas (acre)</th>
<th>To Meet Power Requirement</th>
<th>Avg. Annual Daily Traffic</th>
<th>County</th>
<th>Town/ City/ Village</th>
<th>Geographic Coordinates</th>
<th>General Shape</th>
<th>General Slope (%)</th>
<th>Approx. Distance to 3-Phase (feet)</th>
<th>Current Use and Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>2E1</td>
<td>NY 12</td>
<td>Rte 12 Collins Landing Sub Residency</td>
<td>Mohawk Valley</td>
<td>4.8</td>
<td>3,750</td>
<td>Jefferson</td>
<td>Orleans</td>
<td>44° 17' 31.00&quot;</td>
<td>-75° 58' 33.00&quot;</td>
<td>rectangular</td>
<td>0-5</td>
<td>50</td>
<td>DOT Sub Residency</td>
</tr>
<tr>
<td>2E2</td>
<td>NY 342</td>
<td>Rte 342 Town of Brownville</td>
<td>Mohawk Valley</td>
<td>2 to 4</td>
<td>15.3</td>
<td>2,500</td>
<td>Jefferson</td>
<td>Brownville</td>
<td>44° 01' 53.00&quot;</td>
<td>-75° 55' 05.00&quot;</td>
<td>rectangular</td>
<td>0-5</td>
<td>50</td>
</tr>
<tr>
<td>2E3</td>
<td>NY 17</td>
<td>NY17 East Branch Rest Area</td>
<td>Mohawk Valley</td>
<td>6.5</td>
<td>7,090</td>
<td>Delaware</td>
<td>Town of Hancock</td>
<td>41° 59' 35.88&quot;</td>
<td>-75° 09' 39.60&quot;</td>
<td>rectangular</td>
<td>0-5</td>
<td>250</td>
<td>East Branch Rest Area - mowed</td>
</tr>
<tr>
<td>2F1</td>
<td>I-787 &amp; I-90</td>
<td>Unused ROW between I-787 and rears of commercial/industrial properties along Erie Boulevard in Albany.</td>
<td>Capital District</td>
<td>5</td>
<td>114,500</td>
<td>Albany</td>
<td>City of Albany</td>
<td>42° 39' 48.53&quot;</td>
<td>-73° 44' 12.12&quot;</td>
<td>square</td>
<td>5-15</td>
<td>&lt;250'</td>
<td>Unused ROW between I-787 and rears of commercial/industrial properties along Erie Boulevard in Albany.</td>
</tr>
<tr>
<td>2F2</td>
<td>NY 85</td>
<td>West Side of Slingerlands Bypass near Overlook Street-Autumn Drive</td>
<td>Capital District</td>
<td>3</td>
<td>15,300</td>
<td>Albany</td>
<td>Behtlehem</td>
<td>42° 39' 19.73&quot;</td>
<td>-73° 50’ 00.78&quot;</td>
<td>irregular</td>
<td>5-15</td>
<td>&lt;2500</td>
<td>Brushy area btwn Slingerlands bypass and Normans Kill/Beverwyck Retirement Community</td>
</tr>
<tr>
<td>2F3</td>
<td>I-87</td>
<td>SB I-87 Exit 5-4 Mainline to Service Road Median</td>
<td>Capital District</td>
<td>2.5</td>
<td>21.5</td>
<td>3.75</td>
<td>126,000</td>
<td>Albany</td>
<td>Town of Colonie</td>
<td>42° 43’ 55.60&quot;</td>
<td>-73° 47’ 26.77&quot;</td>
<td>rectangular</td>
<td>0-5</td>
</tr>
<tr>
<td>2F4</td>
<td>I-88</td>
<td>I-88 at Exit 22</td>
<td>Capital District</td>
<td>7</td>
<td>9,334</td>
<td>Schoharie</td>
<td>Town of Cobleskill</td>
<td>42° 40’ 37.50&quot;</td>
<td>-74° 25’ 18.91&quot;</td>
<td>irregular</td>
<td>5-15</td>
<td>100</td>
<td>Open area used as NYSDOT storage material lot. Parcel is between I-88 &amp; Mineral Springs Road.</td>
</tr>
<tr>
<td>2F5</td>
<td>I-88</td>
<td>I-88 at South Grand</td>
<td>Capital District</td>
<td>4</td>
<td>9,334</td>
<td>Schoharie</td>
<td>Town &amp; Village of Cobleskill</td>
<td>42° 40’ 24.35&quot;</td>
<td>-74° 28’ 39.33&quot;</td>
<td>irregular</td>
<td>5-15</td>
<td>250</td>
<td>Open area along Interstate gentle slope. Parcel is land locked between Interstate and Cobleskill Creek.</td>
</tr>
</tbody>
</table>
2E3 - NY17 East Branch Rest Area – Hancock
2F1 - SB I-787 BELOW I-90
2F2 - R1 site 18 - West Side of Slingerlands Bypass near Overlook Street-Autumn Drive Town of Bethlehem, Albany Co.
Southbound I-87 Exit 5-Exit 4 Mainline/Service Road Median
Town of Colonie, Albany County

(site is west of I-87 and across service road from Atlantic Detroit Diesel - at the time this image was taken, it was being used as a staging area for our I-87 Exit 4 bridge reconstruction project)

2F3 - SB I-87 Exit 5-4 Mainline to Service Road Median
2F4
I-88 at Exit 22
Cobleskill
2F5
I-88 at South Grand – Cobleskill
NYSDOT is identifying potential solar facility sites in the state highway right-of-way. These sites are not to adversely affect highway safety, design, construction, maintenance, or the current highway stability. In addition, sites are not to interfere with or impair future highway expansion and also have minimal or no environmental impacts. The intent is to identify sites owned by NYSDOT that are:

- equal to or greater than 2 acres (available for solar arrays/infrastructure, e.g. beyond the clear zone),
- relatively flat (if sloped, gentle to moderate, with south facing aspect),
- visible but not distractive to highway users,
- not environmentally sensitive,
- not going to require mature tree stand removal,
- in close proximity to minimally a 3-phase power connection,
- not going to negatively impact any scenic, historic or environmentally-significant resource, and
- not going to interfere with or impair future expansion of the transportation facility.

### Potential Solar Site Information

**Region:** 7  
**Route Number:** 12-- Collins Landing Sub Residency  
**County:** Jefferson  
**Town/City/Village:** Orleans

**Mile Marker:** 12  
**306 3268**  
**AADT:** 3750

**Geographic coordinates (lat/long at parcel center point):** 44 17 31 N 75 58 33 W

**Area within site available for solar infrastructure (in acres):** 4.8

**General shape:** ☑square or rectangular ☐discontinuous or irregular ☐narrow or linear

What is the current site use and character? (e.g. exit loops, median, DOT facility (rest area, residency, open storage area, etc.), forested, brush, mowed/agricultural, utility access, park and ride, vacant, etc.) Describe:

DOT Sub Residency

**Surrounding area character and predominant land use, check one:**

☐ Urban  ☑ Suburban  ☑ Rural  ☐ Backcountry

Is the site on a parkway, within or adjacent to a public park or recreational area, or on a highway with a historic, scenic or other designation? Check one: ☑ Yes  ☐ No

If yes, describe: NY 12 - Great Lakes Seaway Trail

What is the future (next 5-20 years) site plan (e.g. full reconstruction, lane expansion, bike lane addition, rest area closure, new ramp system, etc.)? Briefly describe: No known plans

### 2E1 - Rte 12 Collins Landing Sub Residency – Orleans
Is there an unobstructed, safe access to the area from the highway, frontage road, connector or parallel roadway? Check one: ☒Yes ☐No
If yes, describe: access from sub residency

Are there any unique geometric or design considerations, check one: ☐Yes ☒No
If yes, describe:

Topography:
Check one: ☒level (0-5%) ☐gentle (5%-15%) ☐moderate (15%-30%) ☐steep (>30%)
If other than level, what is the predominant slope aspect? ☐north ☒south ☐east ☐west

Area electric utility company name: National Grid

Distance to nearest 3-phase power connection: 50 feet.
Distance to nearest power substation: 5 miles.

Are there any known or potentially sensitive environmental issues such as wetlands, protected stream corridors, floodplain, cultural resources, unique vegetation, threatened or endangered species/habitat, or hazardous material considerations at this site?
If yes describe: No known issues

Additional site notes or comments (optional):

Inset a Google air photo/map (PDF, jpg, gif, screen shot, etc.) clearly indicating the location (include caption):
NYSDOT is identifying potential solar facility sites in the state highway right-of-way. These sites are not to adversely affect highway safety, design, construction, maintenance, or the current highway stability. In addition, sites are not to interfere with or impair future highway expansion and also have minimal or no environmental impacts. The intent is to identify sites owned by NYSDOT that are:

- equal to or greater than 2 acres (available for solar arrays/infrastructure, e.g. beyond the clear zone),
- relatively flat (if sloped, gentle to moderate, with south facing aspect),
- visible but not distracting to highway users,
- not environmentally sensitive,
- not going to require mature tree stand removal,
- in close proximity to minimally a 3-phase power connection,
- not going to negatively impact any scenic, historic or environmentally-significant resource, and
- not going to interfere with or impair future expansion of the transportation facility.

### Potential Solar Site Information

**Region:** 7  
**Route Number:** 342  
**Mile Marker:** 1008  
**AADT:** 2500

**County:** Jefferson  
**Town/City/Village:** Brownville

**Geographic coordinates (lat/long at parcel center point):** 44 01' 53" N  75 55' 05" W

**Area within site available for solar infrastructure (in acres):** 35  
**General shape:** ☑ square or rectangular ☐ discontinuous or irregular ☐ narrow or linear

**What is the current site use and character? (e.g. exit loops, median, DOT facility (rest area, residency, open storage area, etc.), forested, brush, mowed/agricultural, utility access, park and ride, vacant, etc.) Describe:** DOT residency / Equipment Management

**Surrounding area character and predominant land use, check one:**  
☐ Urban ☐ Suburban ☑ Rural ☐ Backcountry

**Is the site on a parkway, within or adjacent to a public park or recreational area, or on a highway with a historic, scenic or other designation? Check one:** ☐ Yes ☑ No  
If yes, describe:

**What is the future (next 5-20 years) site plan (e.g. full reconstruction, lane expansion, bike lane addition, rest area closure, new ramp system, etc.)? Briefly describe:** No known plans

---

**2E2 - Rte 342 Town of Brownville**
Is there an unobstructed, safe access to the area from the highway, frontage road, connector or parallel roadway? Check one: ☑ Yes ☐ No
If yes, describe: access from Rte 342 and residency

Are there any unique geometric or design considerations, check one: ☐ Yes ☑ No
If yes, describe:

Topography:
Check one: ☑ level (0-5%) ☐ gentle (5%-15%) ☐ moderate (15%-30%) ☐ steep (>30%)
If other than level, what is the predominant slope aspect? ☐ north ☐ south ☐ east ☐ west

Area electric utility company name: National Grid

Distance to nearest 3-phase power connection: 50 feet.

Distance to nearest power substation: 5 miles.

Are there any known or potentially sensitive environmental issues such as wetlands, protected stream corridors, floodplain, cultural resources, unique vegetation, threatened or endangered species/habitat, or hazardous material considerations at this site?
If yes describe: No known issues

Additional site notes or comments (optional):

Inset a Google air photo/map (PDF, jpg, gif, screen shot, etc.) clearly indicating the location (include caption):
NYSDOT is identifying potential solar facility sites in the state highway right-of-way. These sites are not to adversely affect highway safety, design, construction, maintenance, or the current highway stability. In addition, sites are not to interfere with or impair future highway expansion and also have minimal or no environmental impacts. The intent is to identify sites owned by NYSDOT that are:

- equal to or greater than 2 acres (available for solar arrays/infrastructure, e.g. beyond the clear zone),
- relatively flat (if sloped, gentle to moderate, with south facing aspect),
- visible but not distracting to highway users,
- not environmentally sensitive,
- not going to require mature tree stand removal,
- in close proximity to minimally a 3-phase power connection,
- not going to negatively impact any scenic, historic or environmentally-significant resource, and
- not going to interfere with or impair future expansion of the transportation facility.

**Potential Solar Site Information**

Region: 9  Route Number: 17  Mile Marker: 17-9308-1213  AADT: 7090

County: Delaware  Town/City/Village: Town of Hancock

Geographic coordinates (lat/long at parcel center point): N 41.9933  W 75.161

Area within site available for solar infrastructure (in acres): 6.5 acres

General shape: □ square or rectangular  □ discontinuous or irregular  □ narrow or linear

What is the current site use and character? (e.g. exit loops, median, DOT facility (rest area, residency, open storage area, etc.), forested, brush, mowed/agricultural, utility access, park and ride, vacant, etc.) Describe: East Branch Rest Area - mowed

Surrounding area character and predominant land use, check one:

□ Urban  □ Suburban  □ Rural  □ Backcountry

Is the site on a parkway, within or adjacent to a public park or recreational area, or on a highway with a historic, scenic or other designation? Check one: □ Yes  □ No

If yes, describe:

What is the future (next 5-20 years) site plan (e.g. full reconstruction, lane expansion, bike lane addition, rest area closure, new ramp system, etc.)? Briefly describe: No known future changes at this time.
Is there an unobstructed, safe access to the area from the highway, frontage road, connector or parallel roadway? Check one: ☑Yes ☐No
If yes, describe: Access from the rest area parking lots.

Are there any unique geometric or design considerations, check one: ☑Yes ☐No
If yes, describe: Need to make sure that the installation will not interfere with the rest area leachfields.

Topography:
Check one: ☑level (0-5%) ☐gentle (5%-15%) ☐moderate (15%-30%) ☐steep (>30%)
If other than level, what is the predominant slope aspect? ☐north ☑south ☐east ☐west

Area electric utility company name: NYSEG

Distance to nearest 3-phase power connection: 2500 feet.

Distance to nearest power substation: 8 miles.

Are there any known or potentially sensitive environmental issues such as wetlands, protected stream corridors, floodplain, cultural resources, unique vegetation, threatened or endangered species/habitat, or hazardous material considerations at this site?
If yes describe: Need to verify that the installation does not impact the rest area leach fields.

Additional site notes or comments (optional): Residential and light commercial in the area for potential end users.

Inset a Google air photo/map (PDF, jpg, gif, screen shot, etc.) clearly indicating the location (include caption):

See Below..
Preliminary Solar Site Screening Worksheet

NYSDOT is identifying potential solar facility sites in the state highway right-of-way. These sites are not to adversely affect highway safety, design, construction, maintenance, or the current highway stability. In addition, sites are not to interfere with or impair future highway expansion and also have minimal or no environmental impacts. The intent is to identify sites owned by NYSDOT that are:

- equal to or greater than 2 acres (available for solar arrays/infrastructure, e.g. beyond the clear zone),
- relatively flat (if sloped, gentle to moderate, with south facing aspect),
- visible but not distracting to highway users,
- not environmentally sensitive,
- not going to require mature tree stand removal,
- in close proximity to minimally a 3-phase power connection,
- not going to negatively impact any scenic, historic or environmentally-significant resource, and
- not going to interfere with or impair future expansion of the transportation facility.

Potential Solar Site Information

<table>
<thead>
<tr>
<th>I-787</th>
<th>Region: 1 Route Number:</th>
<th>Mile Marker: 787I11011033 to 787I11011035</th>
<th>AADT: 114,500</th>
</tr>
</thead>
<tbody>
<tr>
<td>County: Albany</td>
<td>Town/City/Village: City of Albany</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Geographic coordinates (lat/long at parcel center point):</td>
<td>NORTH 42.66348 WEST 73.73670</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area within site available for solar infrastructure (in acres):</td>
<td>5.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General shape:</td>
<td>square or rectangular discontinuous or irregular narrow or linear</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

What is the current site use and character? (e.g. exit loops, median, DOT facility (rest area, residency, open storage area, etc.), forested, brush, mowed/agricultural, utility access, park and ride, vacant, etc.) Describe: Unused ROW between I-787 and rears of commercial/industrial properties along Erie Boulevard in Albany.

Surrounding area character and predominant land use, check one:
- Urban
- Suburban
- Rural
- Backcountry

Is the site on a parkway, within or adjacent to a public park or recreational area, or on a highway with a historic, scenic or other designation? Check one: Yes No

If yes, describe: The City of Albany's Riverfront Preserve linear park is across I-787 from the site. However, a solar array would not likely be visible from the Preserve as the view in this direction would be blocked due to the elevation of the ramp from Northbound I-787 to I-90.
What is the future (next 5-20 years) site plan (e.g. full reconstruction, lane expansion, bike lane addition, rest area closure, new ramp system, etc.)? Briefly describe: None beyond normal maintenance activities.

Is there an unobstructed, safe access to the area from the highway, frontage road, connector or parallel roadway? Check one: [X] Yes  [ ] No
If yes, describe: It may be possible to get either direct or right-of-way access to the site from Erie Boulevard in Albany. Alternatively, it is possible that a pulloff access from the ramp from I-90 to southbound I-787 could be constructed.

Are there any unique geometric or design considerations, check one: [ ] Yes  [X] No
If yes, describe:

Topography:
Check one: [X] level (0-5%)  [ ] gentle (5%-15%)  [ ] moderate (15%-30%)  [ ] steep (>30%)
If other than level, what is the predominant slope aspect? [ ] north  [ ] south  [X] east  [ ] west

Area electric utility company name: National Grid

Distance to nearest 3-phase power connection: _______ feet.
Distance to nearest power substation: 0.35 miles.

Are there any known or potentially sensitive environmental issues such as wetlands, protected stream corridors, floodplain, cultural resources, unique vegetation, threatened or endangered species/habitat, or hazardous material considerations at this site?
If yes describe:

Additional site notes or comments (optional): Nearby significant power consumers include the Huck Finn's Warehouse and Playland (latter is amusement park) both just on the other side of the right-of-way line from the site, and numerous industrial and commercial/warehouse activities from 500 to 2,500 feet of the site.
NYSDOT is identifying potential solar facility sites in the state highway right-of-way. These sites are not to adversely affect highway safety, design, construction, maintenance, or the current highway stability. In addition, sites are not to interfere with or impair future highway expansion and also have minimal or no environmental impacts. The intent is to identify sites owned by NYSDOT that are:

- equal to or greater than 2 acres (available for solar arrays/infrastructure, e.g. beyond the clear zone),
- relatively flat (if sloped, gentle to moderate, with south facing aspect),
- visible but not distracting to highway users,
- not environmentally sensitive,
- not going to require mature tree stand removal,
- in close proximity to minimally a 3-phase power connection,
- not going to negatively impact any scenic, historic or environmentally-significant resource, and
- not going to interfere with or impair future expansion of the transportation facility.

### Potential Solar Site Information

<table>
<thead>
<tr>
<th>Region: 1</th>
<th>Route Number: 85</th>
<th>Mile Marker: 85-1101-1232 to 1235</th>
<th>AADT: 15,300</th>
</tr>
</thead>
<tbody>
<tr>
<td>County: Albany</td>
<td>Town/City/Village: Bethlehem</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Geographic coordinates (lat/long at parcel center point): NORTH 42.65548 WEST 73.83355</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area within site available for solar infrastructure (in acres): 3.0 acres</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General shape:</td>
<td>square or rectangular</td>
<td>discontinuous or irregular</td>
<td>narrow or linear</td>
</tr>
<tr>
<td>What is the current site use and character? (e.g. exit loops, median, DOT facility (rest area, residency, open storage area, etc.), forested, brush, mowed/agricultural, utility access, park and ride, vacant, etc.) Describe: Brushy area between Slingerlands Bypass and Normans Kill/Beverwyck Retirement Community</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surrounding area character and predominant land use, check one:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Urban</td>
<td>- Suburban</td>
<td>- Rural</td>
<td>- Backcountry</td>
</tr>
<tr>
<td>Is the site on a parkway, within or adjacent to a public park or recreational area, or on a highway with a historic, scenic or other designation? Check one:</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

**2F2 - R1 site 18 - West Side of Slingerlands Bypass near Overlook Street-Autumn Drive**
What is the future (next 5-20 years) site plan (e.g. full reconstruction, lane expansion, bike lane addition, rest area closure, new ramp system, etc.)? Briefly describe: None beyond normal maintenance activities (brush clearing/shoulder mowing).

Is there an unobstructed, safe access to the area from the highway, frontage road, connector or parallel roadway? Check one: ☑Yes ☐No
If yes, describe: Access could be either directly from the Bypass or possibly from Overlook Street/Andover Drive (short public road abutting the northern end of the site)

Are there any unique geometric or design considerations, check one: ☑Yes ☐No
If yes, describe: Site is bordered by the Normans Kill, and thus a buffer was assumed in arriving at the 3.0 acre figure for available space. Site's "long side" is north-south, and the site rises up from the road toward the Beverwyck property (i.e., slope faces east).

Topography:
Check one: ☐level (0-5%) ☑gentle (5%-15%) ☐moderate (15%-30%) ☐steep (>30%)
If other than level, what is the predominant slope aspect? ☐north ☐south ☑east ☐west

Area electric utility company name: National Grid

Distance to nearest 3-phase power connection: _____ feet.

Distance to nearest power substation: 0.50 miles.

Are there any known or potentially sensitive environmental issues such as wetlands, protected stream corridors, floodplain, cultural resources, unique vegetation, threatened or endangered species/habitat, or hazardous material considerations at this site?
If yes describe: As noted above, site is bordered by the Normans Kill. No known site flooding issues.

Additional site notes or comments (optional): Site runs north to south with no tree cover/shadowing from the south or west. Site would likely need some brush hogging and removal of stray trees to prepare for solar array placement. No large established stands of trees. Nearest substation is on Krumkill Road, just northeast of the Thruway.

Inset a Google air photo/map (PDF, jpg, gif, screen shot, etc.) clearly indicating the location (include caption):

2F2 - R1 site 18 - West Side of Slingerlands Bypass near Overlook Street-Autumn Drive
NYSDOT is identifying potential solar facility sites in the state highway right-of-way. These sites are not to adversely affect highway safety, design, construction, maintenance, or the current highway stability. In addition, sites are not to interfere with or impair future highway expansion and also have minimal or no environmental impacts. The intent is to identify sites owned by NYSDOT that are:

- equal to or greater than 2 acres (available for solar arrays/infrastructure, e.g. beyond the clear zone),
- relatively flat (if sloped, gentle to moderate, with south facing aspect),
- visible but not distracting to highway users,
- not environmentally sensitive,
- not going to require mature tree stand removal,
- in close proximity to minimally a 3-phase power connection,
- not going to negatively impact any scenic, historic or environmentally-significant resource, and
- not going to interfere with or impair future expansion of the transportation facility.

**Potential Solar Site Information**

Region: 1 Route Number: I-87 Mile Marker: 87I11082031 AADT: 126,000

County: Albany Town/City/Village: Town of Colonie

Geographic coordinates (lat/long at parcel center point): NORTH 42.73211 WEST 73.79077

Area within site available for solar infrastructure (in acres): 2.5

General shape: ☑ square or rectangular ☐ discontinuous or irregular ☐ narrow or linear

What is the current site use and character? (e.g. exit loops, median, DOT facility (rest area, residency, open storage area, etc.), forested, brush, mowed/agricultural, utility access, park and ride, vacant, etc.) Describe: Median between southbound mainline of I-87 and the service road between Exits 5 and 4.

Surrounding area character and predominant land use, check one: ☐ Urban ☑ Suburban ☐ Rural ☐ Backcountry

Is the site on a parkway, within or adjacent to a public park or recreational area, or on a highway with a historic, scenic or other designation? Check one: ☑ Yes ☐ No

If yes, describe: I-87 is designated Adirondack Veterans Memorial Highway.
What is the future (next 5-20 years) site plan (e.g. full reconstruction, lane expansion, bike lane addition, rest area closure, new ramp system, etc.)? Briefly describe: We anticipate beginning design soon of a project which will include removal of the frontage road and the onramp, but this would not affect the viability of this location as a site for a solar array other than to in fact enhance access to it from the nearby street system (particularly from State Route 155/County Route 153 Old Wolf Road).

Is there an unobstructed, safe access to the area from the highway, frontage road, connector or parallel roadway? Check one: [ ] Yes [ ] No
If yes, describe: This area has been used as a staging area for several construction projects. There is a temporary access from the service road which can be solar operator's purposes.

Are there any unique geometric or design considerations, check one: [ ] Yes [ ] No
If yes, describe:

Topography:
Check one: [ ] level (0-5%) [ ] gentle (5%-15%) [ ] moderate (15%-30%) [ ] steep (>30%)
If other than level, what is the predominant slope aspect? [ ] north [ ] south [ ] east [ ] west

Area electric utility company name: National Grid

Distance to nearest 3-phase power connection: [ ] feet.

Distance to nearest power substation: 1.2 miles.

Are there any known or potentially sensitive environmental issues such as wetlands, protected stream corridors, floodplain, cultural resources, unique vegetation, threatened or endangered species/habitat, or hazardous material considerations at this site?
If yes describe:

Additional site notes or comments (optional): Nearby significant power consumers include two hotels within approximately 1,500 to 2,000 feet of the site (Desmond Americana and Hotel Indigo); a Times-Union newspaper headquarters and printing plant also approximately 1,500 feet away; and an Atlantic Detroit Diesel truck sales and repair facility approximately 300 feet away. Further to the north and west but still within two miles or less of the site there are scores of industrial and large commercial operations.

Inset a Google air photo/map (PDF, jpg, gif, screen shot, etc.) clearly indicating the location (include caption):

2F3 - SB I-87 Exit 5-4 Mainline to Service Road Median – Colonie
NYSDOT is identifying potential solar facility sites in the state highway right-of-way. These sites are not to adversely affect highway safety, design, construction, maintenance, or the current highway stability. In addition, sites are not to interfere with or impair future highway expansion and also have minimal or no environmental impacts. The intent is to identify sites owned by NYSDOT that are:

- equal to or greater than 2 acres (available for solar arrays/infrastructure, e.g. beyond the clear zone),
- relatively flat (if sloped, gentle to moderate, with south facing aspect),
- visible but not distracting to highway users,
- not environmentally sensitive,
- not going to require mature tree stand removal,
- in close proximity to minimally a 3-phase power connection,
- not going to negatively impact any scenic, historic or environmentally-significant resource, and
- not going to interfere with or impair future expansion of the transportation facility.

**Potential Solar Site Information**

Region: 09  Route Number: I-88  Mile Marker: 95  AADT: 9,334

County: Schoharie  Town/City/Village: T of Cobleskill

Geographic coordinates (lat/long at parcel center point): 42°40'37.50"N 74°25'18.91"W

Area within site available for solar infrastructure (in acres): 7.0
General shape: ☐ square or rectangular ☑ discontinuous or irregular ☐ narrow or linear

What is the current site use and character? (e.g. exit loops, median, DOT facility (rest area, residency, open storage area, etc.), forested, brush, mowed/agricultural, utility access, park and ride, vacant, etc.) Describe: Open area along Interstate used as NYSDOT storage material lot. Parcel is between Interstate 88 and Mineral Springs Road.

Surrounding area character and predominant land use, check one:
☐ Urban ☐ Suburban ☑ Rural ☐ Backcountry

Is the site on a parkway, within or adjacent to a public park or recreational area, or on a highway with a historic, scenic or other designation? Check one: ☐ Yes ☑ No
If yes, describe:

What is the future (next 5-20 years) site plan (e.g. full reconstruction, lane expansion, bike lane addition, rest area closure, new ramp system, etc.)? Briefly describe: Material Storage
Is there an unobstructed, safe access to the area from the highway, frontage road, connector or parallel roadway? Check one: ☑Yes ☐No
If yes, describe: Access would be from Mineral Springs Road.

Are there any unique geometric or design considerations, check one: ☐Yes ☑No
If yes, describe:

Topography:
Check one: ☐level (0-5%) ☑gentle (5%-15%) ☐moderate (15%-30%) ☐steep (>30%)

If other than level, what is the predominant slope aspect? ☐north ☐south ☑east ☐west

Area electric utility company name: National Grid

Distance to nearest 3-phase power connection: 100 feet.

Distance to nearest power substation: 3.3 miles.

Are there any known or potentially sensitive environmental issues such as wetlands, protected stream corridors, floodplain, cultural resources, unique vegetation, threatened or endangered species/habitat, or hazardous material considerations at this site?
If yes describe:

Additional site notes or comments (optional):

Inset a Google air photo/map (PDF, jpg, gif, screen shot, etc.) clearly indicating the location (include caption):
NYSDOT is identifying potential solar facility sites in the state highway right-of-way. These sites are not to adversely affect highway safety, design, construction, maintenance, or the current highway stability. In addition, sites are not to interfere with or impair future highway expansion and also have minimal or no environmental impacts. The intent is to identify sites owned by NYSDOT that are:

- equal to or greater than 2 acres (available for solar arrays/infrastructure, e.g. beyond the clear zone),
- relatively flat (if sloped, gentle to moderate, with south facing aspect),
- visible but not distractive to highway users,
- not environmentally sensitive,
- not going to require mature tree stand removal,
- in close proximity to minimally a 3-phase power connection,
- not going to negatively impact any scenic, historic or environmentally-significant resource, and
- not going to interfere with or impair future expansion of the transportation facility.

Potential Solar Site Information

Region: 09    Route Number: I-88    Mile Marker: 92    AADT: 9,334

County: Schoharie    Town/City/Village: T&V of Cobleskill

Geographic coordinates (lat/long at parcel center point): 42°40'24.35"N  74°28'39.33"W

Area within site available for solar infrastructure (in acres): 4.0

General shape: ☐square or rectangular ☒discontinuous or irregular ☐narrow or linear

What is the current site use and character? (e.g. exit loops, median, DOT facility (rest area, residency, open storage area, etc.), forested, brush, mowed/agricultural, utility access, park and ride, vacant, etc.) Describe: Open area along Interstate gentle slope. Parcel is land locked between Interstate and Cobleskill Creek.

Surrounding area character and predominant land use, check one:

☐Urban ☐Suburban ☒Rural ☐Backcountry

Is the site on a parkway, within or adjacent to a public park or recreational area, or on a highway with a historic, scenic or other designation? Check one: ☐Yes ☒No

If yes, describe:

What is the future (next 5-20 years) site plan (e.g. full reconstruction, lane expansion, bike lane addition, rest area closure, new ramp system, etc.)? Briefly describe: None
Is there an unobstructed, safe access to the area from the highway, frontage road, connector or parallel roadway? Check one: ☒Yes ☐No
If yes, describe: Access would be from South Grand Street, Village of Cobleskill

Are there any unique geometric or design considerations, check one: ☐Yes ☒No
If yes, describe:

Topography:
Check one: ☐level (0-5%) ☒gentle (5%-15%) ☐moderate (15%-30%) ☐steep (>30%)
If other than level, what is the predominant slope aspect? ☐north ☒south ☐east ☐west

Area electric utility company name: National Grid

Distance to nearest 3-phase power connection: 250 feet.

Distance to nearest power substation: 0.25 miles.

Are there any known or potentially sensitive environmental issues such as wetlands, protected stream corridors, floodplain, cultural resources, unique vegetation, threatened or endangered species/habitat, or hazardous material considerations at this site?
If yes describe:

Additional site notes or comments (optional):

Inset a Google air photo/map (PDF, jpg, gif, screen shot, etc.) clearly indicating the location (include caption):