

GREENSPARK  SOLAR

# Construction Progress Report

AC Power 9, LLC



**GREENSPARK  SOLAR**

Loyal to People. Loyal to Planet.

**DATE:** Friday, November 18th, 2022

**PREPARED BY:** Jason Martin



## GreenSpark Solar - Project Team

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## KSI - Project Team

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## SAFETY

- All site workers must complete GreenSpark Solar Safety Training before commencing work.
- OSHA 30 for supervisors, and OSHA 10 for all site workers
- Proper PPE must be worn as required by task
- Site cleanliness is a top priority throughout this project
- JHA/JHA lead by GreenSpark Solar to be documented daily

## SUMMARY OF WORK COMPLETED WEEK OF 11/10/2022 – 11/17/2022

- APA ballast basket and hardware delivery(ongoing)
- Racking survey
- Racking deliveries(ongoing)
- Swale work(ongoing)\*Percentage complete adjusted to reflect additional work required
- Racking leveling pads(ongoing)
- Ballast Basket assembly(ongoing)
- Racking assembly(ongoing)

## MAJOR COMPONENTS DELIVERY & INVENTORY

| Material                 | Delivery Date | Inspection | Storage |
|--------------------------|---------------|------------|---------|
| Ballast Baskets - Hanwha | 11/2/2022     | 0%         | 100%    |
| Racking - Hanwha         | 11/2022       | 0%         | 100%    |
| Ballast Baskets - REC    | TBD 2022      | 0%         | 100%    |
| Racking - REC            | TBD 2022      | 0%         | 50%     |
| DC Combiners             | TBD 2022      | 0%         | 0%      |
| Sungrow Inverters        | TBD 2022      | 0%         | 0%      |
| Hanwha Modules           | November 2022 | 0%         | 0%      |
| REC Modules              | December 2022 | 0%         | 0%      |
| AlsoEnergy DAS           | March 2023    | 0%         | 0%      |
| GOAB/Air Switch          | TBD 2023      | 0%         | 0%      |
| MV Transformer(s)        | TBD 2022      | 0%         | 0%      |
| AC Panelboard(s)         | TBD 2023      | 0%         | 0%      |

## **SITE CIVIL CONSTRUCTION**

| <b>Task</b>                      | <b>% Complete Previous Report</b> |      |
|----------------------------------|-----------------------------------|------|
| Erosion Controls                 | 0%                                | 100% |
| Temporary Road Installation      | 0%                                | 100% |
| Leveling Pads                    | 9%                                | 31%  |
| Equipment Pad Base Prep          | 0%                                | 0%   |
| Stabilized Entrance              | 0%                                | 100% |
| Swale Culverts                   | 35%                               | 10%  |
| Equipment Pad Base Prep          | 0%                                | 0%   |
| Concrete Washout                 | 0%                                | 0%   |
| Temporary Road Restoration       | 0%                                | 0%   |
| Final Site Restoration & Seeding | 0%                                | 0%   |

## **STRUCTURAL CONSTRUCTION**

| <b>Task</b>     | <b>% Complete Previous Report</b> | <b>% Complete to Date</b> |
|-----------------|-----------------------------------|---------------------------|
| Survey / Layout | 100%                              | 100%                      |
| Ballast Baskets | 10%                               | 29%                       |
| Racking         | 1%                                | 3%                        |
| Modules         | 0%                                | 0%                        |

## **ELECTRICAL CONSTRUCTION**

| <b>Task</b>                                      | <b>% Complete Previous Report</b> | <b>% Complete to Date</b> |
|--|-----------------------------------|---------------------------|
| Module Series Connections                        | 0%                                | 0%                        |
| DC Cable Trays Installed                         | 0%                                | 0%                        |
| DC Source Circuit Strings Pulled                 | 0%                                | 0%                        |
| DC Source Circuit String Terminations (Field)    | 0%                                | 0%                        |
| DC Source Circuit String Terminations (Inverter) | 0%                                | 0%                        |
| DC Wire Management                               | 0%                                | 0%                        |
| Inverter Racks Installed                         | 0%                                | 0%                        |
| DC Combiners Installed                           | 0%                                | 0%                        |
| Inverters Installed                              | 0%                                | 0%                        |
| AC Cable Trays Installed                         | 0%                                | 0%                        |
| AC Output Circuits Pulled                        | 0%                                | 0%                        |
| AC Output Circuit Terminations (Inverter)        | 0%                                | 0%                        |
| AC Output Circuit Terminations (Panelboard)      | 0%                                | 0%                        |
| AC Panelboard Installed                          | 0%                                | 0%                        |
| MV Cable Trays Installed                         | 0%                                | 0%                        |
| MV Feeders Pulled                                | 0%                                | 0%                        |
| MV Feeder Terminations (AC Panelboard)           | 0%                                | 0%                        |
| MV Feeder Terminations (Transformer)             | 0%                                | 0%                        |
| Equipment Pad Installed                          | 0%                                | 0%                        |
| Transformer Installed                            | 0%                                | 0%                        |
| MV Output Circuit Conduit                        | 0%                                | 0%                        |
| MV Output Circuit Pulled                         | 0%                                | 0%                        |

|   |    |    |
|---|----|----|
| MV Output Circuit Terminations (X-Former) | 0% | 0% |
| MV Output Circuit Termination (NG Pole)   | 0% | 0% |
| DAS & Communication Installed             | 0% | 0% |
| Grounding Transformer Installed           | 0% | 0% |
| Grounding Transformer Terminations        | 0% | 0% |

## **ELECTRICAL CIVIL CONSTRUCTION**

| <b>Task</b>    | <b>% Complete Previous Report</b> | <b>% Complete to Date</b> |
|----------------|-----------------------------------|---------------------------|
| Equipment Pads | 0%                                | 0%                        |

## **UTILITY CONSTRUCTION**

| <b>Task</b>   | <b>% Complete Previous Report</b> | <b>% Complete to Date</b> |
|---------------|-----------------------------------|---------------------------|
| Recloser Pole | 0%                                | 0%                        |
| Recloser      | 0%                                | 0%                        |
| Metering Pole | 0%                                | 0%                        |
| Metering CT's | 0%                                | 0%                        |

## INSPECTIONS

| Inspection               | Inspected By                    | Frequency | Pass / Fail | Date |
|--------------------------|---------------------------------|-----------|-------------|------|
| Electrical (PV & Final)  | 3 <sup>rd</sup> Party Inspector | 1x        | -           | -    |
| Building Permit Closeout | Town of Verona                  | 1x        | -           | -    |
| Witness Test             | National Grid                   | 1x        | -           | -    |

## QUALITY CONTROL

| Quality Control Measure            | Performed By           | Date Range |
|------------------------------------|------------------------|------------|
| Visual Inspections & Documentation | GreenSpark             | Ongoing    |
| Ballast & Racking Installation     | TBD & GreenSpark       | TBD        |
| Module Installation                | TBD & GreenSpark       | TBD        |
| IRT/Megger                         | GreenSpark             | TBD        |
| HiPot/VLF                          | MV Subcontractor (TBD) | TBD        |
| Grounding Continuity               | GreenSpark             | TBD        |
| Open-Circuit Voltage               | GreenSpark             | TBD        |
| Short Circuit Current              | GreenSpark             | TBD        |
| IV-Curve Tracing                   | GreenSpark             | TBD        |

## LOOKING FORWARD

- APA ballast basket and hardware delivery(ongoing)
- Racking assembly
- Swale work(ongoing)
- Racking leveling pads(ongoing)
- Ballast Basket assembly(ongoing)
- Tree removal

# GREENSPARK SOLAR

## HISTORICAL & FORECASTED WEATHER DATA

November  2022  [View](#)

| SUN  | MON  | TUE  | WED   | THU  | FRI  | SAT  |
|--|--|--|---|--|--|--|
| 30<br><br>Mostly Sunny<br>68°<br>32°<br><br>0 in | 31<br><br>Mostly Sunny<br>61°<br>36°<br><br>0 in   | 1<br><br>Cloudy<br>65°<br>52°<br><br>0 in  | 2<br><br>Mostly Sunny<br>60°<br>37°<br><br>0 in | 3<br><br>Mostly Sunny<br>60°<br>42°<br><br>0 in        | 4<br><br>Partly Cloudy<br>68°<br>56°<br><br>0 in | 5<br><br>Mostly Cloudy<br>72°<br>63°<br><br>0 in |
| 6<br><br>Cloudy<br>71°<br>57°<br><br>0.06 in   | 7<br><br>Partly Cloudy<br>66°<br>36°<br><br>0 in | 8<br><br>Sunny<br>49°<br>28°<br><br>0 in | 9<br><br>Sunny<br>54°<br>34°<br><br>0 in      | 10<br><br>Partly Cloudy<br>60°<br>43°<br><br>0.11 in | 11<br><br>Showers<br>62°<br>45°<br><br>0.24 in | 12<br><br>Showers<br>55°<br>35°<br><br>0.15 in |

# GREENSPARK SOLAR

|   |   |   |  |  |  |  |
|---|---|---|--|--|--|--|
| <p>13</p>  <p>Partly Cloudy</p> <p><b>48°</b></p> <p>30°</p>  <p>0 in</p> | <p>14</p>  <p>Partly Cloudy</p> <p><b>47°</b></p> <p>31°</p>  <p>0.2 in</p> | <p>15</p>  <p>Mostly Cloudy</p> <p><b>48°</b></p> <p>30°</p>  <p>0 in</p> | <p>16</p>  <p>PM<br/>Rain/Snow<br/>Showers</p> <p><b>46°</b></p> <p>31°</p>  <p>1.2 in</p> | <p>17</p>  <p>AM<br/>Rain/Snow</p> <p><b>44°</b></p> <p>27°</p>  <p>0.3 in</p> | <p>18</p> <p><b>45°</b></p> <p>25°</p>  <p>0.1 in</p>   | <p>19</p> <p><b>45°</b></p> <p>25°</p>  <p>0.1 in</p>   |
| <p>20</p> <p><b>44°</b></p> <p>25°</p>  <p>0.1 in</p>  | <p>21</p> <p><b>44°</b></p> <p>24°</p>  <p>0.1 in</p>  | <p>22</p> <p><b>44°</b></p> <p>24°</p>  <p>0.2 in</p>  | <p>23</p> <p><b>43°</b></p> <p>24°</p>  <p>0.2 in</p>   | <p>24</p> <p><b>43°</b></p> <p>23°</p>  <p>0.2 in</p>  | <p>25</p> <p><b>42°</b></p> <p>23°</p>  <p>0.2 in</p> | <p>26</p> <p><b>42°</b></p> <p>23°</p>  <p>0.2 in</p> |
| <p>27</p> <p><b>42°</b></p> <p>22°</p>  <p>0.2 in</p>  | <p>28</p> <p><b>41°</b></p> <p>22°</p>  <p>0.2 in</p>  | <p>29</p> <p><b>41°</b></p> <p>22°</p>  <p>0.2 in</p>  | <p>30</p> <p><b>40°</b></p> <p>21°</p>  <p>0 in</p>   | <p>1</p> <p><b>40°</b></p> <p>21°</p>  <p>0 in</p>   | <p>2</p> <p><b>40°</b></p> <p>21°</p>  <p>0.2 in</p>  | <p>3</p> <p><b>39°</b></p> <p>21°</p>  <p>0.2 in</p>  |

## Construction Photos Week Ending 11/17/22



Site Overview(drone shot)



Site Overview(drone shot)



Leveling Pads



Leveling Pads



Basket Assembly



Basket Assembly

## Construction Photos Week Ending 11/17/22



Racking Assembly



Racking Assembly



Racking Deliveries



Racking Deliveries



Swale Work



Swale Work