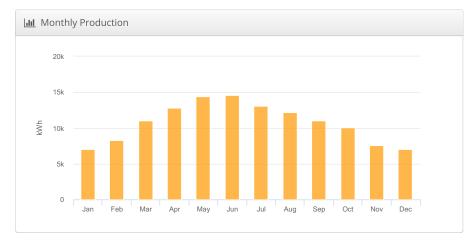


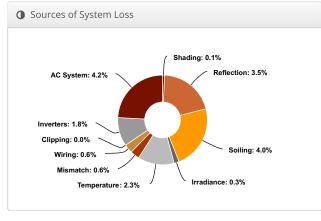
## Carport & roof (copy) 5th Command Center, 12800 Iomas blvd NE

| & Report        |                                    |
|-----------------|------------------------------------|
| Project Name    | 5th Command Center                 |
| Project Address | 12800 Iomas blvd NE                |
| Prepared By     | OE Solar<br>info@osceolaenergy.com |

| <u>Idd</u> System Metrics |   |  |  |  |  |  |
|---------------------------|---|--|--|--|--|--|
| Design                    | Carport & roof (copy)                             |  |  |  |  |  |
| Module DC<br>Nameplate    | 72.0 kW   |  |  |  |  |  |
| Inverter AC<br>Nameplate  | 75.0 kW<br>Load Ratio: 0.96                       |  |  |  |  |  |
| Annual<br>Production      | 128.9 MWh   |  |  |  |  |  |
| Performance<br>Ratio      | 83.9%   |  |  |  |  |  |
| kWh/kWp                   | 1,790.2   |  |  |  |  |  |
| Weather Dataset           | TMY, 10km grid (35.05,-106.55), NREL (prospector) |  |  |  |  |  |
| Simulator Version         | 976710bd6f-d16b7b72d4-0dcfd22a50-<br>1d0eb092a8   |  |  |  |  |  |







|                 | Description                         | Output       | % Delta |  |  |  |
|-----------------|-------------------------------------|--------------|---------|--|--|--|
|                 | Annual Global Horizontal Irradiance | 2,042.9      |         |  |  |  |
|                 | POA Irradiance                      | 2,134.5      | 4.5%    |  |  |  |
| Irradiance      | Shaded Irradiance                   | 2,131.9      | -0.1%   |  |  |  |
| (kWh/m²)        | Irradiance after Reflection         | 2,056.7      | -3.5%   |  |  |  |
|                 | Irradiance after Soiling            | 1,974.4      | -4.0%   |  |  |  |
|                 | Total Collector Irradiance          | 1,974.4      | 0.0%    |  |  |  |
|                 | Nameplate                           | 142,256.8    |         |  |  |  |
|                 | Output at Irradiance Levels         | 141,801.8    | -0.3%   |  |  |  |
|                 | Output at Cell Temperature Derate   | 138,572.8    | -2.3%   |  |  |  |
| Energy          | Output After Mismatch               | 137,769.7    | -0.6%   |  |  |  |
| (kWh)           | Optimal DC Output                   | 137,011.3    | -0.6%   |  |  |  |
|                 | Constrained DC Output               | 137,006.9    | 0.0%    |  |  |  |
|                 | Inverter Output                     | 134,540.8    | -1.8%   |  |  |  |
|                 | Energy to Grid                      | 128,894.6    | -4.2%   |  |  |  |
| Temperature N   | Metrics                             |              |         |  |  |  |
|                 | Avg. Operating Ambient Temp         |              | 14.2 °C |  |  |  |
|                 | Avg. Operating Cell Temp            |              | 24.2 °C |  |  |  |
| Simulation Me   | trics                               |              |         |  |  |  |
| Operating Hours |                                     |              |         |  |  |  |
|                 |                                     | Solved Hours | 4648    |  |  |  |

| Condition Set                  |   |   |     |   |          |    |         |                                    |    |                  |            |         |      |   |
|--------------------------------|---|---|-----|---|----------|----|---------|------------------------------------|----|------------------|------------|---------|------|---|
| Description                    | Conc                                      | Condition Set 1                                   |     |   |          |    |         |                                    |    |                  |            |         |      |   |
| Weather Dataset                | TMY,                                      | TMY, 10km grid (35.05,-106.55), NREL (prospector) |     |   |          |    |         |                                    |    |                  |            |         |      |   |
| Solar Angle Location           | Mete                                      | Meteo Lat/Lng                                     |     |   |          |    |         |                                    |    |                  |            |         |      |   |
| Transposition Model            | Pere                                      | Perez Model                                       |     |   |          |    |         |                                    |    |                  |            |         |      |   |
| Temperature Model              | Sand                                      | Sandia Model                                      |     |   |          |    |         |                                    |    |                  |            |         |      |   |
|                                | Rack Type                                 |   |     |   | a b      |    |         | T                                  |    | Te               | empera     | ature D | elta |   |
| Temperature Model Parameters   | Fixed Tilt                                |   |     |   | -3.56 -0 |    | 0.075 3 |                                    | 39 | ,C               |            |         |      |   |
|                                | Flus                                      | h Mou   | ınt |   | -2.8     | 31 | -(      | -0.0455                            |    | 0,               | 0°C        |         |      |   |
| Soiling (%)                    | J   | F   | М   | Α |          | M  | J       |                                    | J  | Α                | S          | 0       | N    | D |
|                                | 4   | 4   | 4   | 4 |          | 4  | 2       | 1                                  | 4  | 4                | 4          | 4       | 4    | 4 |
| Irradiation Variance           | 2%  |   |     |   |          |    |         |                                    |    |                  |            |         |      |   |
| Cell Temperature<br>Spread     | 2° C                                      | 2° C  |     |   |          |    |         |                                    |    |                  |            |         |      |   |
| Module Binning Range           | -1% t                                     | o 1%  |     |   |          |    |         |                                    |    |                  |            |         |      |   |
| AC System Derate               | 0.759                                     | %   |     |   |          |    |         |                                    |    |                  |            |         |      |   |
| Module                         | Module                                    |   |     |   |          |    |         | Uploaded<br>By                     |    | Characterization |            |         |      |   |
| Characterizations              | CS3N-400MS(IEC1500 V)<br>(Canadian Solar) |   |     |   |          |    |         | HelioScope Spec Sheet Characteriza |    |                  | ation, PAN |         |      |   |
| Component<br>Characterizations | Device Uploaded By Characterization       |   |     |   |          |    |         |                                    |    |                  |            |         |      |   |



## Annual Production Report produced by OE Solar

| ☐ Components    |  |                       |  |  |  |  |  |
|-----------------|--|-----------------------|--|--|--|--|--|
| Component       | Name   | Count                 |  |  |  |  |  |
| Inverters       | Sunny Highpower PEAK1 (400V)<br>(SMA)            | 1 (75.0<br>kW)        |  |  |  |  |  |
| AC Panels       | 1 input AC Panel                                 | 1                     |  |  |  |  |  |
| AC Home<br>Runs | 3 AWG (Aluminum)                                 | 2 (986.2<br>ft)       |  |  |  |  |  |
| Strings         | 10 AWG (Copper)                                  | 10<br>(2,409.9<br>ft) |  |  |  |  |  |
| Module          | Canadian Solar, CS3N-<br>400MS(IEC1500 V) (400W) | 180 (72.0<br>kW)      |  |  |  |  |  |

| ♣ Wiring Zones |                |             |                    |
|----------------|----------------|-------------|--------------------|
| Description    | Combiner Poles | String Size | Stringing Strategy |
| Wiring Zone    | -              | 17-19       | Along Racking      |

| <b>Ⅲ</b> Field Segments   |               |                           |      |         |                     |               |        |         |            |  |
|---------------------------|---------------|---------------------------|------|---------|---------------------|---------------|--------|---------|------------|--|
| Description               | Racking       | Orientation               | Tilt | Azimuth | Intrarow<br>Spacing | Frame<br>Size | Frames | Modules | Power      |  |
| Field Segment 2           | Fixed<br>Tilt | Landscape<br>(Horizontal) | 5°   | 181.4°  | 0.9 ft              | 1x1           | 86     | 86      | 34.4<br>kW |  |
| Field Segment 2           | Fixed<br>Tilt | Landscape<br>(Horizontal) | 5°   | 183°    | 0.9 ft              | 1x1           | 20     | 20      | 8.00<br>kW |  |
| Field Segment 3           | Fixed<br>Tilt | Landscape<br>(Horizontal) | 5°   | 180°    | 0.9 ft              | 1x1           | 42     | 42      | 16.8<br>kW |  |
| Field Segment 2<br>(copy) | Fixed<br>Tilt | Landscape<br>(Horizontal) | 5°   | 183°    | 0.9 ft              | 1x1           | 22     | 22      | 8.80<br>kW |  |
| Field Segment 3 (copy)    | Fixed<br>Tilt | Landscape<br>(Horizontal) | 5°   | 181°    | 0.9 ft              | 1x1           | 10     | 10      | 4.00<br>kW |  |



