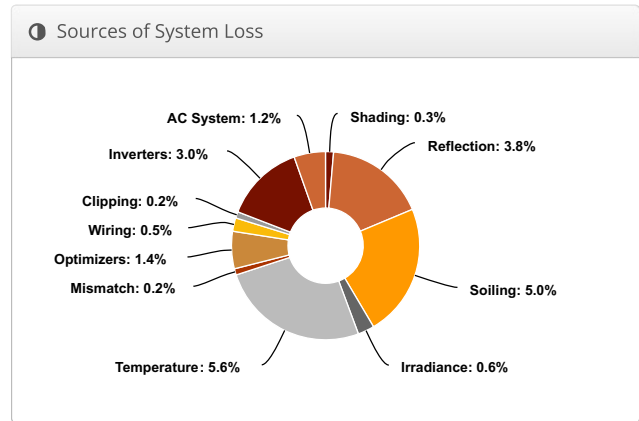
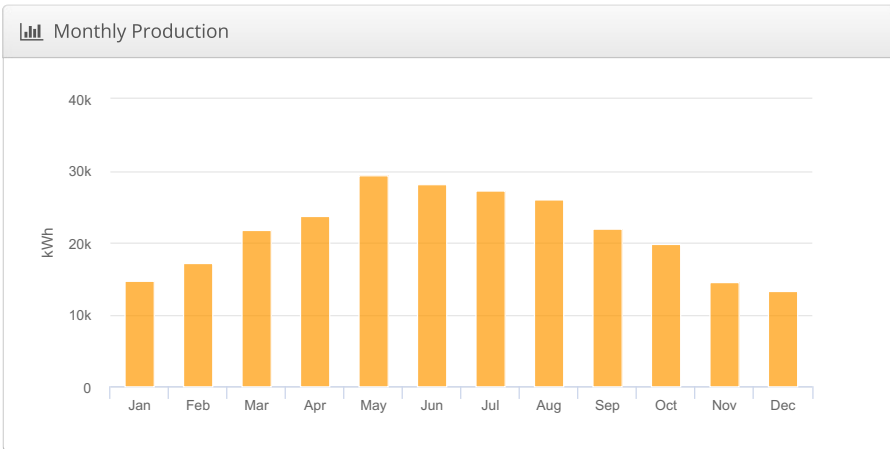
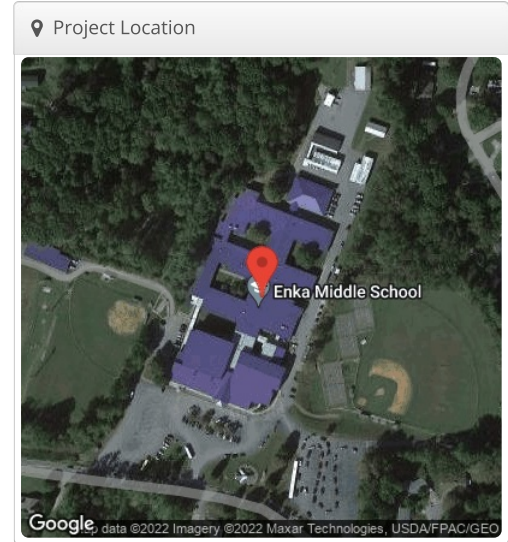


Meter # 324 748 478 BCS - Enka Middle - 390 Asbury Rd, 390 Asbury Rd, Candler, NC 28715

Report	
Project Name	BCS - Enka Middle - 390 Asbury Rd
Project Address	390 Asbury Rd, Candler, NC 28715
Prepared By	Jay Radcliffe ops@renuenergysolutions.com

System Metrics	
Design	Meter # 324 748 478
Module DC Nameplate	195.4 kW
Inverter AC Nameplate	150.0 kW Load Ratio: 1.30
Annual Production	257.8 MWh
Performance Ratio	80.0%
kWh/kWp	1,319.5
Weather Dataset	TMY, 10km grid (35.55,-82.65), NREL (prospector)
Simulator Version	Ocee300acc-3b7092d7ff-41629a9a21-c717987783



Annual Production			
	Description	Output	% Delta
Irradiance (kWh/m ²)	Annual Global Horizontal Irradiance	1,611.4	
	POA Irradiance	1,649.9	2.4%
	Shaded Irradiance	1,645.0	-0.3%
	Irradiance after Reflection	1,582.5	-3.8%
	Irradiance after Soiling	1,503.3	-5.0%
	Total Collector Irradiance	1,503.4	0.0%
Energy (kWh)	Nameplate	293,726.6	
	Output at Irradiance Levels	291,904.2	-0.6%
	Output at Cell Temperature Derate	275,496.3	-5.6%
	Output After Mismatch	274,840.3	-0.2%
	Optimizer Output	270,983.0	-1.4%
	Optimal DC Output	269,612.4	-0.5%
	Constrained DC Output	268,969.0	-0.2%
	Inverter Output	260,885.6	-3.0%
	Energy to Grid	257,783.3	-1.2%
Temperature Metrics			
	Avg. Operating Ambient Temp		12.5 °C
	Avg. Operating Cell Temp		28.3 °C
Simulation Metrics			
	Operating Hours	4713	
	Solved Hours	4713	

Condition Set												
Description	Condition Set 2											
Weather Dataset	TMY, 10km grid (35.55,-82.65), NREL (prospector)											
Solar Angle Location	Meteo Lat/Lng											
Transposition Model	Perez Model											
Temperature Model	Sandia Model											
Temperature Model Parameters	Rack Type	a	b									
	Fixed Tilt	-3.56	-0.075									
	Flush Mount	-2.81	-0.0455									
Soiling (%)	J	F	M	A	M	J	J	A	S	O	N	D
	5	5	5	5	5	5	5	5	5	5	5	5
Irradiation Variance	5%											
Cell Temperature Spread	4° C											
Module Binning Range	-2.5% to 2.5%											
AC System Derate	2.00%											
Module Characterizations	Module	Uploaded By	Characterization									
	Q.peak DUO XL-G10.3 480 (Hanwha Q Cells)	HelioScope	Spec Sheet Characterization, PAN									
Component Characterizations	Device	Uploaded By	Characterization									

Components		
Component	Name	Count
Inverters	SE50KUS (SolarEdge)	3 (150.0 kW)
AC Panels	3 input AC Panel	1
AC Home Runs	3 AWG (Copper)	3 (303.5 ft)
AC Home Runs	300 MCM (Copper)	1 (164.2 ft)
Strings	10 AWG (Copper)	23 (8,518.4 ft)
Optimizers	P1101 (SolarEdge)	207 (227.7 kW)
Module	Hanwha Q Cells, Q.peak DUO XL-G10.3 480 (480W)	407 (195.4 kW)

Wiring Zones			
Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone	-	9-18	Along Racking

Field Segments									
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power
Field Segment 1	Flush Mount	Portrait (Vertical)	2°	200.70154°	0.1 ft	1x1	295	260	124.8 kW
Field Segment 2	Flush Mount	Portrait (Vertical)	5°	201.49054°	0.1 ft	1x1	64	62	29.8 kW
Field Segment 3	Flush Mount	Portrait (Vertical)	5°	200.93242°	0.1 ft	1x1	177	85	40.8 kW
Field Segment 4	Flush Mount	Portrait (Vertical)	5°	21.500303°	0.1 ft	1x1	0	0	0
Field Segment 5	Flush Mount	Portrait (Vertical)	5°	290.30392°	0.1 ft	1x1	0	0	0
Field Segment 6	Flush Mount	Portrait (Vertical)	5°	110.29147°	0.1 ft	1x1	0	0	0
Field Segment 7	Flush Mount	Portrait (Vertical)	5°	247.06569°	0.1 ft	1x1	0	0	0
Field Segment 8	Flush Mount	Portrait (Vertical)	5°	200.41257°	0.1 ft	1x1	0	0	0
Field Segment 9	Flush Mount	Portrait (Vertical)	5°	157.415°	0.1 ft	1x1	0	0	0
Field Segment 10	Flush Mount	Portrait (Vertical)	5°	157.415°	0.1 ft	1x1	0	0	0
Field Segment 11	Flush Mount	Portrait (Vertical)	5°	157.415°	0.1 ft	1x1	0	0	0

📍 Detailed Layout

