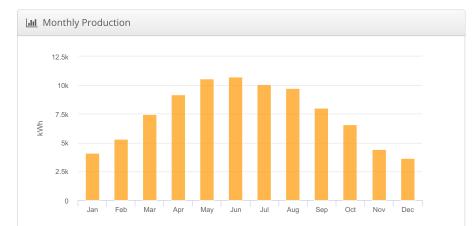
Rooftop Model Buncombe County - 60 Court Plaza, 60 Court Plaza

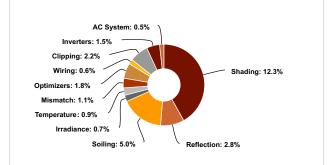
⊮ Report						
Project Name	Buncombe County - 60 Court Plaza					
Project Address	60 Court Plaza					
Prepared By	Jay Radcliffe ops@renuenergysolutions.com					

LILI System Metrics							
Design	Rooftop Model						
Module DC Nameplate	70.1 kW						
Inverter AC Nameplate	60.0 kW Load Ratio: 1.17						
Annual Production	89.94 MWh						
Performance Ratio	73.8%						
kWh/kWp	1,283.4						
Weather Dataset	TMY, 10km Grid (35.55,-82.55), NREL (prospector)						
Simulator Version	ea2516024e-ca7e60f5c3-b7edc3b8d7- f100cd0da1						





• Sources of System Loss



	Description	Output	% Delta			
	Annual Global Horizontal Irradiance	1,620.9				
	POA Irradiance	1,739.3	7.3%			
Irradiance	Shaded Irradiance	1,525.2	-12.39			
(kWh/m²)	Irradiance after Reflection	1,483.0	-2.89			
	Irradiance after Soiling	1,408.9	-5.0%			
	Total Collector Irradiance	1,409.1	0.0%			
	Nameplate	98,751.0				
	Output at Irradiance Levels	98,033.7	-0.79			
	Output at Cell Temperature Derate	97,168.8	-0.9%			
_	Output After Mismatch	96,079.8	-1.19			
Energy (kWh)	Optimizer Output	94,371.3	-1.89			
(KWN)	Optimal DC Output	93,846.8	-0.69			
	Constrained DC Output	91,790.4	-2.29			
	Inverter Output	90,396.2	-1.5%			
	Energy to Grid	89,939.3	-0.5%			
Temperature M	etrics					
	Avg. Operating Ambient Temp		12.2 °			
	Avg. Operating Cell Temp		19.2 °			
Simulation Met	ics					
	Operating Hours					
Solved Hours						

Condition Set															
Description	Condition Set 2														
Weather Dataset	TMY, 10km Grid (35.55,-82.55), NREL (prospector)														
Solar Angle Location	Mete	Meteo Lat/Lng													
Transposition Model	Pere	Perez Model													
Temperature Model	Sandia Model														
Temperature Model Parameters	Rack Type				а		b			Ter	npera	ature l	Delta		
	Fixed Tilt				3.56		-0.0	75		3°0	:				
	Flush Mount				2.81		-0.0455			0°0	0°C				
Soiling (%)	J	F	М	A		Л	J	J		A	S	0	N	D	
	5	5	5	5	5	5	5	5		5	5	5	5	5	
Irradiation Variance	5%														
Cell Temperature Spread	4° C	4° C													
Module Binning Range	-2.5%	5 to 2.	5%												
AC System Derate	2.009	6													
Module Characterizations	Module							Uploaded By			Ch	Characterization			
	Q.PEAK DUO XL-G10.3/BFG 480 (2021) (Hanwha)							HelioScope			Ch	Spec Sheet Characterization, PAN			
Component Characterizations	Device Uploaded By					Characterization									

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Annual Production Report produced by Jay Radcliffe

🖴 Components							
Component	Name	Count					
Inverters	SE30KUS (SolarEdge)	2 (60.0 kW)					
AC Home Runs	4 AWG (Copper)	2 (1,220.3 ft)					
Strings	10 AWG (Copper)	5 (1,475.4 ft)					
Optimizers	P1101 (SolarEdge)	75 (82.5 kW)					
Module	Hanwha, Q.PEAK DUO XL-G10.3/BFG 480 (2021) (480W)	146 (70.1 kW)					

🛔 Wiring Zones										
Description Combiner Pole		Combiner Poles	String Size			Stringing S	trategy			
Wiring Zone -				13-3	4	Along Rack				
III Field Segments										
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power	
Field Segment 1	Fixed Tilt	Landscape (Horizontal)	10°	164.81416°	1.4 ft	1x1	50	50	24.0 kW	
Field Segment 2	Fixed Tilt	Landscape (Horizontal)	10°	164.81416°	1.4 ft	1x1	36	36	17.3 kW	
Field Segment 3	Fixed Tilt	Landscape (Horizontal)	10°	164.76273°	1.4 ft	1x1	17	17	8.16 kW	
Field Segment 4	Fixed Tilt	Landscape (Horizontal)	10°	164.76273°	1.4 ft	1x1	43	43	20.6 kW	

Oetailed Layout

