

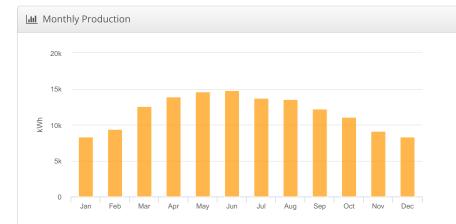
Final Design - Seraphim 360M (For Construction) City of ABQ Griegos Center (P2G2),

1231 Candelaria, Albuquerque, NM 87107

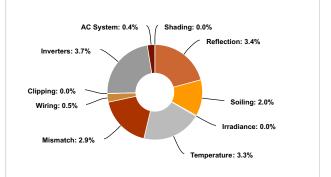
🖋 Report	
Project Name	City of ABQ Griegos Center (P2G2)
Project Address	1231 Candelaria, Albuquerque, NM 87107
Prepared By	Benjamin Rodefer ben@riogranderenewables.com

Lill System Met	rics					
Design	Final Design - Seraphim 360M (For Construction)					
Module DC Nameplate	75.6 kW					
Inverter AC Nameplate	70.0 kW Load Ratio: 1.08					
Annual Production	141.5 MWh					
Performance Ratio	84.9%					
kWh/kWp	1,871.4					
Weather Dataset	TMY, 10km grid (35.15,-106.65), NREL (prospector)					
Simulator Version	45a06c4782-65a2e3a7bc-cce9d61228- 18ebce00b3					





Sources of System Loss



	Description	Output	% Delta			
	Annual Global Horizontal Irradiance	2,040.2				
	POA Irradiance	2,204.0	8.09			
Irradiance	Annual Global Horizontal Irradiance (2,040.2 POA Irradiance (2,204.0 POA Irradiance (2,203.0) POA Irradiance (2,203.0) POA Irradiance (2,203.0) Irradiance after Reflection (2,129.7) Irradiance after Soiling (2,087.1) Irradiance After Soiling (2,087.1) Irradianc	0.0				
(kWh/m²)	Irradiance after Reflection	Irradiance 2,040,2 Irradiance 2,204,0 Irradiance 2,203,9 Reflection 2,129,7 ter Soiling 2,087,1 radiance 2,087,1 rradiance 2,087,1 rradiance 2,087,1 rradiance 2,087,1 rradiance 157,948,7 Ince Levels 157,871,5 Ince Levels 152,679,5 Mismatch 148,244,2 OC Output 147,548,8 OC Output 142,064,8 ter Output 141,480,5 renot Temp Cell Temp	-3.4			
	Irradiance after Soiling		-2.0			
	Total Collector Irradiance	2,087.1	0.0			
	Nameplate	157,948.7				
	Output at Irradiance Levels	157,871.5	0.0			
	Output at Cell Temperature Derate	152,679.5	-3.3			
Energy	Output After Mismatch	148,244.2	-2.9			
(kWh)	Optimal DC Output	147,548.8	-0.5			
	Constrained DC Output	147,527.2	0.0			
	Inverter Output	142,064.8	-3.7			
	Energy to Grid	141,480.5	-0.4			
Temperature M	letrics					
	Avg. Operating Ambient Temp		14.4 °			
	Avg. Operating Cell Temp		25.2 °			
Simulation Met	rics					
		Operating Hours	465			
	Solved Hours					



Condition Set														
Description	Cond	Condition Set 1												
Weather Dataset	TMY	TMY, 10km grid (35.15,-106.65), NREL (prospector)												
Solar Angle Location	Mete	Meteo Lat/Lng												
Transposition Model	Pere	Perez Model												
Temperature Model	Sandia Model													
	Rack Type				а		b	b		Te	mper	ature l	Delta	
Temperature Model Parameters	Fixed Tilt				-3.	56	-0.0		3°C					
	Flush Mount				-2.	81	-0.0455			0°C				
Soiling (%)	J	F	М		A	М	J	J		A	S	0	Ν	D
	2	2	2		2	2	2	2		2	2	2	2	2
Irradiation Variance	5%													
Cell Temperature Spread	4° C													
Module Binning Range	-2.5%	% to 2	.5%											
AC System Derate	0.50	%												
Module Characterizations	Mod	lule				Uploaded By			Characterization					
		-360-6 aphin				He	elioScope Seraphim_PV360_6MA.P PAN				PAN,			
Component Characterizations	Devi	Device Uploaded By Characterization												

🖨 Components								
Component	nponent Name Count							
Inverters	PVI 14TL-208 (Solectria)	5 (70.0 kW)						
AC Home Runs	4 AWG (Copper)	5 (4,763.7 ft)						
Strings	10 AWG (Copper)	20 (3,382.8 ft)						
Module	Seraphim, SRP-360-6MA (360W)	210 (75.6 kW)						

🛔 Wiring Zor	ies								
Description Combiner Poles		S		String Size	Stringing	Strategy			
Wiring Zone 4 -			ç	9-11	Along Ra	cking			
III Field Segments									
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power
Field Segment 4	Carport	Landscape (Horizontal)	10°	190.389°	0.0 ft	1x1	210	210	75.6 kW



Oetailed Layout

