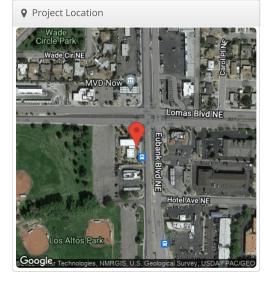
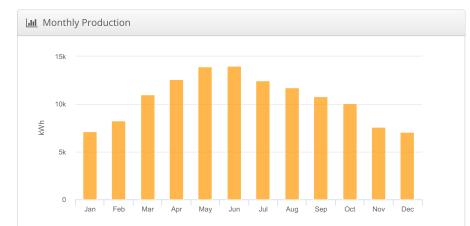


$Roof \ Only \ {\sf Los \ Altos \ Swimming \ Pool, \ 10300 \ Lomas \ Blvd \ NE}$

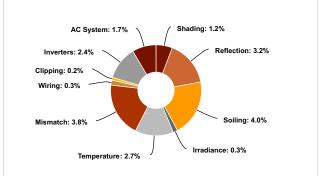
🖋 Report	
Project Name	Los Altos Swimming Pool
Project Address	10300 Lomas Blvd NE
Prepared By	OE Solar info@osceolaenergy.com

Lul System Metrics						
Design	Roof Only					
Module DC Nameplate	71.8 kW					
Inverter AC Nameplate	69.0 kW Load Ratio: 1.04					
Annual Production	126.7 MWh					
Performance Ratio	81.8%					
kWh/kWp	1,764.5					
Weather Dataset	TMY, 10km grid (35.05,-106.55), NREL (prospector)					
Simulator Version	976710bd6f-d16b7b72d4-0dcfd22a50- 1d0eb092a8					





• Sources of System Loss



	Description	Output	% Delta			
	Annual Global Horizontal Irradiance	2,042.9				
	POA Irradiance	2,156.5	5.6%			
Irradiance	Shaded Irradiance	2,131.7	-1.2%			
(kWh/m²)	Irradiance after Reflection	2,062.9	-3.2%			
	Irradiance after Soiling	1,980.4	-4.0%			
	Total Collector Irradiance	1,980.4	0.0%			
	Nameplate	142,265.4				
	Output at Irradiance Levels	141,808.2	-0.3%			
	Output at Cell Temperature Derate	137,969.6	-2.7%			
Energy	Output After Mismatch	132,669.1	-3.8%			
(kWh)	Optimal DC Output	132,210.2	-0.3%			
	Constrained DC Output	131,943.1	-0.2%			
	Inverter Output	128,832.1	-2.4%			
	Energy to Grid	126,658.7	-1.7%			
Temperature	Metrics					
	Avg. Operating Ambient Temp		14.2 °C			
Avg. Operating Cell Temp						
Simulation N	etrics					
	Operating Hours					
Solved Hours						

Condition Set														
Description	Cond	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	Sanc	Sandia Model												
	Rack	Туре			а		b			Temperature Delta				
Temperature Model Parameters	Fixed Tilt				-3.56		-0.075			3°C				
	Flus	h Moι	unt		-2.8	1	-0.0	-0.0455		0°C				
Soiling (%)	J	F	М	A		Μ	J	J		A S	0	Ν	D	
	4	4	4	4		4	4	4		4 4	4	4	4	
Irradiation Variance	5%													
Cell Temperature Spread	4° C	4° C												
Module Binning Range	-2.5% to 2.5%													
AC System Derate	0.75%													
Module Characterizations	Module					Uploaded By			Characterization					
	CS3U-370MB-AG (Canadian Solar)						HelioScope		5	Spec Sheet Characterization, PAN				
Component	Device L						Uploaded By			Characterization				
Characterizations	PVI 23TL-480 (Solectria)					ŀ	HelioScope			Default Characterization				



Annual Production Report produced by OE Solar

🖴 Components						
Component	Name	Count				
Inverters	PVI 23TL-480 (Solectria)	3 (69.0 kW)				
AC Panels	3 input AC Panel	1				
AC Home Runs	6 AWG (Aluminum)	3 (1,197.5 ft)				
AC Home Runs	4 AWG (Aluminum)	1 (257.9 ft)				
Strings	10 AWG (Copper)	14 (1,901.3 ft)				
Module	Canadian Solar, CS3U-370MB-AG (370W)	194 (71.8 kW)				

🛔 Wiring Zor	nes									
Description		Combiner Poles		Str	ing Size	Stringing Strategy				
Wiring Zone	Viring Zone -			13-	-19	Along Racking				
III Field Segments										
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power	
Field Segment 2	Fixed Tilt	Landscape (Horizontal)	10°	220.815°	1.5 ft	1x1	194	194	71.8 kW	

Oetailed Layout

