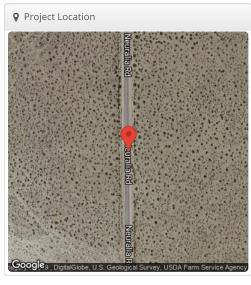
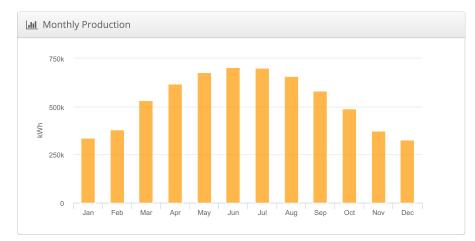
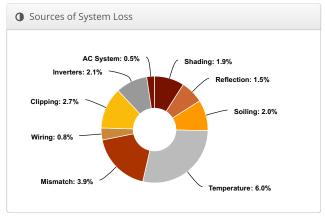
Design 1 Eland Phase Mini, 35.305278, -117.981667

№ Report						
Project Name	Eland Phase Mini					
Project Address	35.305278, -117.981667					
Prepared By	John Weaver commercialsolarguy@gmail.com					

Lill System Met	rics
Design	Design 1
Module DC Nameplate	2.65 MW
Inverter AC Nameplate	2.00 MW Load Ratio: 1.33
Annual Production	6.381 GWh
Performance Ratio	80.5%
kWh/kWp	2,407.0
Weather Dataset	TMY, 10km Grid (35.35,-117.95), NREL (prospector)
Simulator Version	3b47ac6544-be9b25fa34-64ebb62130- dad231d957







	Description	Output	% Delta
	Annual Global Horizontal Irradiance	2,144.1	
	POA Irradiance	2,991.4	39.5%
Irradiance	Shaded Irradiance	2,933.7	-1.9%
(kWh/m ²)	Irradiance after Reflection	2,890.0	-1.5%
	Irradiance after Soiling	2,832.2	-2.0%
	Total Collector Irradiance	2,832.2	0.0%
	Nameplate	7,510,087.7	
	Output at Irradiance Levels	7,510,382.9	0.0%
	Output at Cell Temperature Derate	7,056,158.2	-6.0%
Energy	Output After Mismatch	6,780,377.9	-3.9%
(kWh)	Optimal DC Output	6,727,800.9	-0.8%
	Constrained DC Output	6,547,188.1	-2.7%
	Inverter Output	6,412,630.0	-2.1%
	Energy to Grid	6,380,570.0	-0.5%
Temperature i	Metrics		
	Avg. Operating Ambient Temp		19.7 °C
	Avg. Operating Cell Temp		33.7 °C
Simulation Me	trics		
		Operating Hours	4665
		Solved Hours	4665

Condition Set														
Description	Condition Set 1													
Weather Dataset	TMY, 10km Grid (35.35,-117.95), NREL (prospector)													
Solar Angle Location	Meteo Lat/Lng													
Transposition Model	Perez Model													
Temperature Model	Sandia Model													
	Rack	с Туре			а		b			Te	mper	rature	Delta	
Temperature Model	Fixed Tilt				-3.	56	-0.075			3°	C			
Parameters	Flush Mount				-2.		-0.0455			0°C				
	East-West				-3.		-0.075			3°C				
	Carport				-3.	56	-0.0	75		3°C				
Soiling (%)	J	F	М	F	4	M	J	J	1	4	S	0	N	D
	2	2	2	2	2	2	2	2	1	2	2	2	2	2
Irradiation Variance	5%													
Cell Temperature Spread	4° C													
Module Binning Range	-2.59	6 to 2	.5%											
AC System Derate	0.50	%												
	Module CI							Cha	Characterization					
Module Characterizations	,								Spec Sheet Characterization, PAN					
Component Characterizations		Device								Characterization				
Component Characterizations	SC 2	2000-E	V-US ((SN	1A)				Sp	ec S	Sheet			

⊖ Components							
Component	Name	Count					
Inverters	SC 2000-EV-US (SMA)	1 (2.00 MW)					
Strings	10 AWG (Copper)	256 (186,269.2 ft)					
Module	Hanwha, Q.PLUS DUO L-G5.2 375 (375W)	7,069 (2.65 MW)					

A Wiring Zones			
Description (Combiner Poles	String Size	Stringing Strategy
Wiring Zone 1	12	23-28	Along Racking

Ⅲ Field Segments										
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power	
Field Segment	Single-axis Trackers (N/S)	Landscape (Horizontal)	15°	180°	8.0 ft	1x1	7,069	7,069	2.65 MW	

