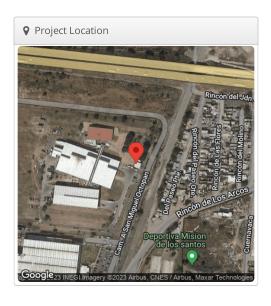


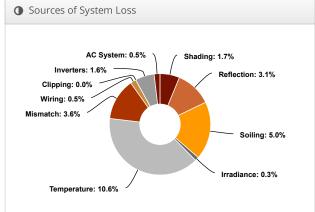
## Celay CELAY, 20.553204689804407, -100.79294056258342



Lill System	Metrics
Design	Celay
Module DC Nameplate	500.0 kW
Inverter AC Nameplate	425.0 kW Load Ratio: 1.18
Annual Production	815.1 MWh
Performance Ratio	75.7%
kWh/kWp	1,630.3
Weather Dataset	TMY, 10km Grid, meteonorm/nrel medium resolution (meteonorm)
Simulator Version	7775c238ad-4d3541e201-fe6a049ac2- 80a92caeed









	Description	Output	% Delta				
	Annual Global Horizontal Irradiance	2,109.7					
	POA Irradiance	2,153.1	2.1%				
Irradiance	Shaded Irradiance	2,116.7	-1.7%				
(kWh/m <sup>2</sup> )	Irradiance after Reflection	2,050.6	-3.1%				
	Irradiance after Soiling	1,948.1	-5.0%				
	Total Collector Irradiance	1,948.0	0.0%				
Energy	Nameplate	974,086.9					
	Output at Irradiance Levels	970,987.6	-0.3%				
	Output at Cell Temperature Derate	868,210.4	-10.6%				
	Output After Mismatch	836,978.8	-3.6%				
(kWh)	Optimal DC Output	832,875.3	-0.5%				
	Constrained DC Output	832,858.2	0.0%				
	Inverter Output	819,185.1	-1.6%				
	Energy to Grid	815,089.2	-0.5%				
Temperature	Metrics						
Avg. Operating Ambient Temp							
Avg. Operating Cell Temp							
Simulation M	etrics						
Operating Hours							
Solved Hours							

Condition Set												
Description	Condition Set 1											
Weather Dataset	TMY, 10km Grid, meteonorm/nrel medium resolution (meteonorm)											
Solar Angle Location	Met	Meteo Lat/Lng										
Transposition Model	Hay	Hay Model										
Temperature Model	Diffu	ısion	Model									
	Rac	k Туре	9				U <sub>const</sub>			U <sub>wind</sub>		
Temperature Model	Fixe	d Tilt					29			0		
Parameters	Flus	h Mo	unt				15			0		
	East	East-West								0		
	Car	oort					29			0		
Soiling (%)	J	F	M	Α	М	J	J	Α	S	0	N	D
5(1)	5	5	5	5	5	5	5	5	5	5	5	5
Irradiation Variance	5%	5%										
Cell Temperature Spread	4° C											
Module Binning Range	-2.59	6 to 2	.5%									
AC System Derate	0.50	%										
Module Characterizations	Modifie					Uplo By	Uploaded By Chara			acterization		
	JAM72S30-550/MR (1000V) (JA Solar)					Hel	lelioscope ' '			Sheet acterization, PAN		
Component Characterizations	Device						Uploaded By			Characterization		
	MAX 75KTL3 LV (220V) (Growatt)						) HelioScope			Spec Sheet		
	MAX 125KTL3-X MV (Growatt) HelioScope Spec Sheet											

☐ Components							
Component	Name	Count					
Inverters	MAX 75KTL3 LV (220V) (Growatt)	4 (300.0 kW)					
Inverters	MAX 125KTL3-X MV (Growatt)	1 (125.0 kW)					
Home Runs	1/0 AWG (Copper)	8 (119.6 m)					
Home Runs	4/0 AWG (Copper)	2 (43.9 m)					
Combiners	4 input Combiner	2					
Combiners	5 input Combiner	3					
Combiners	8 input Combiner	4					
Combiners	9 input Combiner	1					
Strings	10 AWG (Copper)	64 (2,769.0 m)					
Module	JA Solar, JAM72S30-550/MR (1000V) (550W)	909 (500.0 kW)					

A Wiring Zones			
Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone	12	7-14	Along Racking
Wiring Zone 2	12	10-20	Along Racking

Field Segments									
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power
Field Segment 1	Flush Mount	Portrait (Vertical)	4.5°	185°	0.0 m	1x1	448	448	246.4 kW
Field Segment 2	Flush Mount	Portrait (Vertical)	10°	5°	0.0 m	1x1			0
Field Segment 4	Fixed Tilt	Portrait (Vertical)	10°	5°	0.0 m	1x1			0
Field Segment 5	Flush Mount	Portrait (Vertical)	4.5°	185°	0.0 m	1x1	271	271	149.1 kW
Field Segment 6	Flush Mount	Portrait (Vertical)	10°	5°	0.0 m	1x1			0
Field Segment 6	Flush Mount	Portrait (Vertical)	4.5°	185°	0.0 m	1x1	190	190	104.5 kW
Field Segment 7	Flush Mount	Portrait (Vertical)	10°	5°	0.0 m	1x1			0



