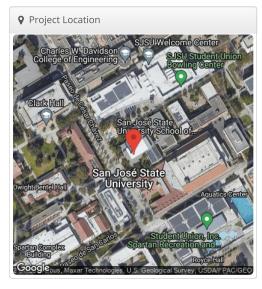
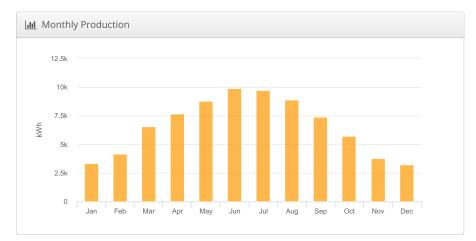


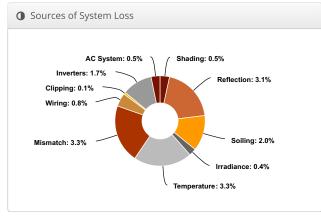
San Jose University, CA, USA Case Study 2 - San Jose University, USA, San jose University

& Report	
Project Name	Case Study 2 - San Jose University, USA
Project Address	San jose University
Prepared By	Bhanu Swaroop Gaddam gaddambhanu9@gmail.com

Lill System Met	System Metrics					
Design	San Jose University , CA, USA					
Module DC Nameplate	46.6 kW					
Inverter AC Nameplate	40.0 kW Load Ratio: 1.16					
Annual Production	79.16 MWh					
Performance Ratio	85.4%					
kWh/kWp	1,700.5					
Weather Dataset	TMY, 10km grid (37.35,-121.85), NREL (prospector)					
Simulator Version	77eaf2cdb5-02f2a7f506-20068b956b- d70d5f9ff0					







	Description	Output	% Delta
	Annual Global Horizontal Irradiance	1,876.6	
	POA Irradiance	1,991.1	6.1%
Irradiance	Shaded Irradiance	1,980.5	-0.5%
(kWh/m²)	Irradiance after Reflection	1,919.4	-3.1%
	Irradiance after Soiling	1,881.1	-2.0%
	Total Collector Irradiance	1,881.1	0.0%
	Nameplate	87,635.6	
	Output at Irradiance Levels	87,275.2	-0.49
	Output at Cell Temperature Derate	84,406.9	-3.3%
Energy	Output After Mismatch	81,642.6	-3.3%
(kWh)	Optimal DC Output	81,028.5	-0.8%
	Constrained DC Output	80,934.9	-0.19
	Inverter Output	79,557.5	-1.7%
	Energy to Grid	79,159.7	-0.5%
Temperature M	letrics		
	Avg. Operating Ambient Temp		16.0 °C
	Avg. Operating Cell Temp		26.0 °C
Simulation Met	rics		
	0	perating Hours	465
		Solved Hours	4657

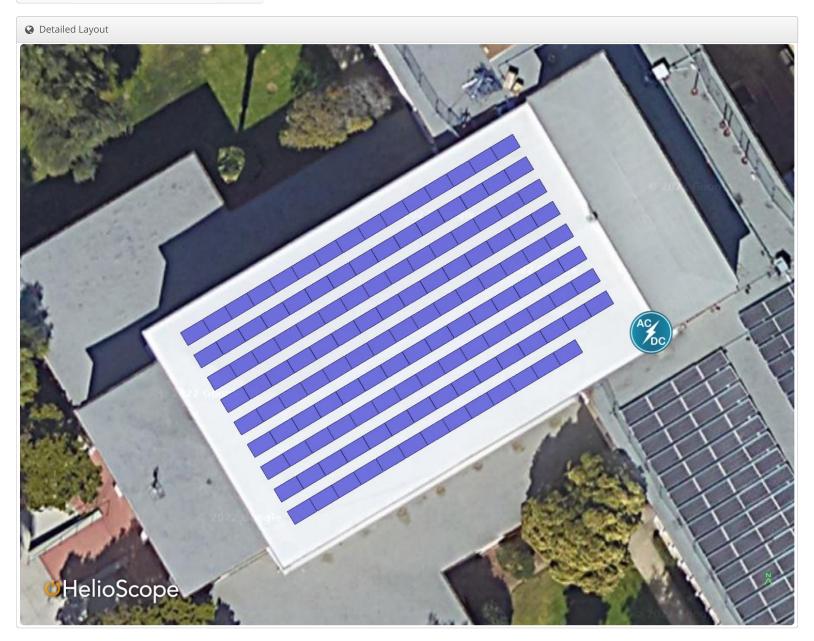
Condition Set														
Description	Cond	dition !	Set 1											
Weather Dataset	TMY,	. 10km	n grid (3	7.3	85,-121	.85)	, NRE	L (pro	sp	ect	or)			
Solar Angle Location	Mete	eo Lat/	'Lng											
Transposition Model	Pere	z Mod	el											
Temperature Model	Sanc	lia Mo	del											
Temperature Model	Rack Type				a		b			Temperature Delta				
Parameters	Fixed Tilt				-3.56		-0.075			3°C				
	Flush Mount			-2.81		-0.0455			0°C					
Soiling (%)	J	F	М	Α	M		J	J	A	4	S	0	N	D
	2	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%	6 to 2.	5%											
AC System Derate	0.50%													
Module Characterizations	Module						Uploaded By			Characterization				
	CS3L-350MS (1000V) (Canadian Solar)										pec Sheet Characterization, PAN			
Component	Device						Uploaded By				Characterization			
Characterizations	SG4	OCX (S	ungrov	v)		Fo	lsom	Labs			Spec	Sheet		

47.3 kW



□ Compo	nponents				
Component	Name	Count			
Inverters	SG40CX (Sungrow)	1 (40.0 kW)			
Home Runs	12 AWG (Copper)	2 (126.5 ft)			
Combiners	3 input Combiner	1			
Combiners	4 input Combiner	1			
Strings	10 AWG (Copper)	7 (827.3 ft)			
Module	Canadian Solar, CS3L-350MS (1000V) (350W)	133 (46.6 kW)			

♣ Wiring Zo	ones				
Description		Combiner Poles		String Size	Stringing Strategy
Wiring Zone		6		19-19	Along Racking
Ⅲ Field Seg	ments				
Description	Racking	Orientation	Tilt Azim	uth Intrarow S	Spacing Frame Size Frames Modules Pov



Field Segment 1 Fixed Tilt Landscape (Horizontal) 10° 149.14348° 2.5 ft