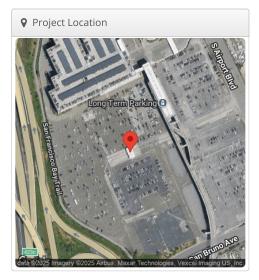
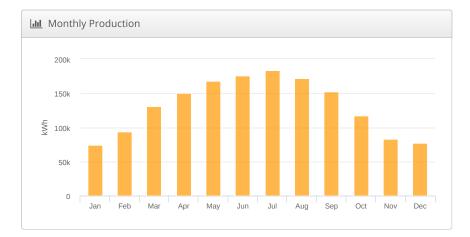


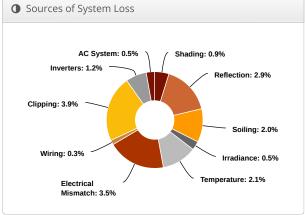
SFO_1 MW SFO_1MW_Utility_Solar, 806 S Airport Blvd, San Francisco, CA

& Report	
Project Name	SFO_1MW_Utility_Solar
Project Address	806 S Airport Blvd, San Francisco, CA
Prepared By	Sajith Venattusseril Sajan svenattusserilsajan@hawk.iit.edu

System Metrics					
Design	SFO_1 MW				
Module DC Nameplate	1,000.0 kW				
Inverter AC Nameplate	900.0 kW Load Ratio: 1.11				
Annual Production	1.578 GWh				
Performance Ratio	83.5%				
kWh/kWp	1,577.8				
Weather Dataset	TMY, SAN FRANCISCO INTL AP, NSRDB (tmy3, I)				
Simulator Version	d67dccd386-fd73aa9609- c3be554160-bc4a0318b5				









5 Annual I	Production					
	Description	Output	% Delta			
	Annual Global Horizontal Irradiance	1,716.4				
	POA Irradiance	1,890.5	10.1%			
Irradiance	Shaded Irradiance	1,874.4	-0.9%			
(kWh/m ²)	Irradiance after Reflection	1,819.3	-2.9%			
	Irradiance after Soiling	1,782.9	-2.0%			
	Total Collector Irradiance	1,782.9	0.0%			
	Nameplate	1,782,863.0				
Energy (kWh)	Output at Irradiance Levels	1,773,548.0	-0.5%			
	Output at Cell Temperature Derate	1,736,521.3	-2.1%			
	Output after Electrical Mismatch	1,676,369.6	-3.5%			
	Optimal DC Output	1,671,705.8	-0.3%			
	Constrained DC Output	1,605,804.6	-3.9%			
	Inverter Output	1,585,744.6	-1.2%			
	Energy to Grid	1,577,815.9	-0.5%			
Temperature	Metrics					
	Avg. Operating Ambient Temp		15.6 °C			
		24.2 °C				
Simulation Mo	etrics					
Operating Hours						
Solved Hours 45						

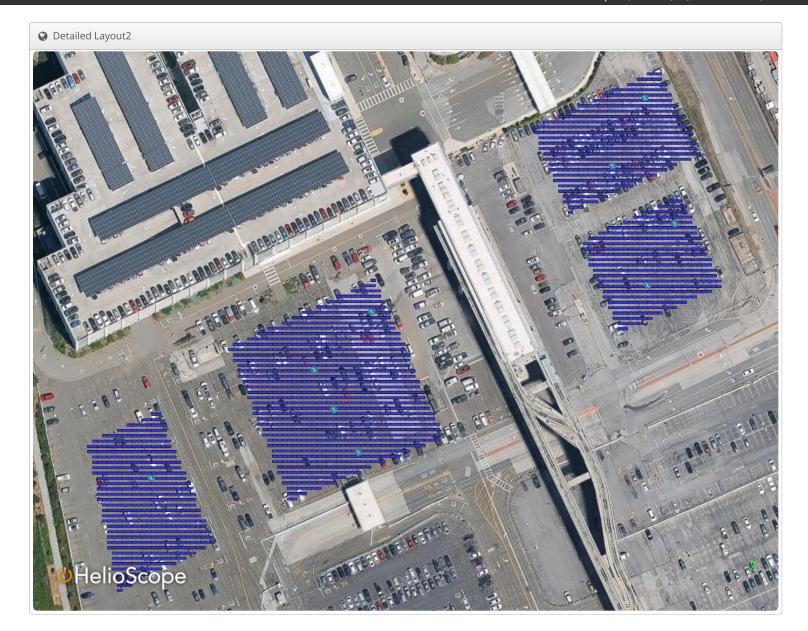
Condition Set												
Description	Con	Condition Set 2										
Weather Dataset	TMY, SAN FRANCISCO INTL AP, NSRDB (tmy3, I)											
Solar Angle Location	Meteo Lat/Lng											
Transposition Model	Pere	Perez Model										
Temperature Model	San	Sandia Model										
	Rac	k Type	e	ā	a		b		empe	rature	Delta	
	Fixe	ed Tilt		-	3.56	-0.0)75	3	°C			
Temperature Model Parameters	Flus	sh Mo	unt	-	2.81	-0.0)455	0	°C			
	East-West			-	3.56	-0.075		3	3°C			
	Car	port		-	3.56	-0.075		3	°C			
Soiling (%)	J	F	М	Α	M	J	J	Α	S	0	N	D
30mmg (70)	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	1%										
	Тур	e	Com	pon	oonent				Characterization			
Module & Component Characterizations	Module JKM400M-72H (2022) (Jinko)					L-V Spec Sheet Characterization, PA				n, PA	N	
	Inverter Sunny Highpower 100- 20 (1500V) (SMA)						Spec Sheet					

☐ Components						
Component Name Count						
Inverters	Sunny Highpower 100-20 (1500V) (SMA)	9 (900.0 kW)				
Strings	10 AWG (Copper)	95 (13,889.7 ft)				
Module	Jinko, JKM400M-72HL-V (2022) (400W)	2,500 (1,000.0 kW)				

♣ Wiring Zones			
Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone 1	-	23-28	Along Racking
Wiring Zone 2	-	23-28	Along Racking
Wiring Zone 3	-	23-28	Along Racking
Wiring Zone 4	-	23-28	Along Racking

## Field Segments									
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power
S1	Fixed Tilt	Landscape (Horizontal)	Module: 15°	Module: 180°	4.0 ft	1x1	508	508	203.2 kW
S 2	Fixed Tilt	Landscape (Horizontal)	Module: 15°	Module: 180°	4.0 ft	1x1	1,057	1,057	422.8 kW
S 3	Fixed Tilt	Landscape (Horizontal)	Module: 15°	Module: 180°	4.0 ft	1x1	424	424	169.6 kW
S 4	Fixed Tilt	Landscape (Horizontal)	Module: 15°	Module: 180°	4.0 ft	1x1	511	511	204.4 kW





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