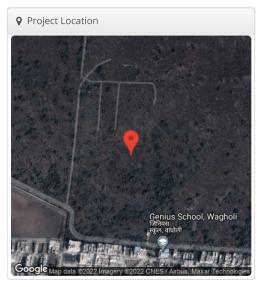
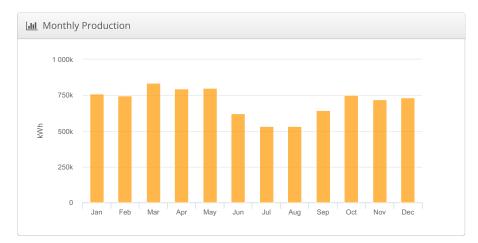


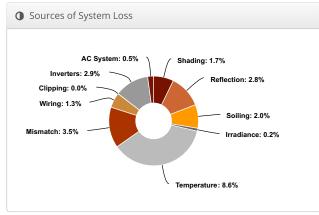
## Case Study 5 - Ground Mount, India Case Study 5 - Ground Mount, India, 18.5814680, 73.95

& Report	
Project Name	Case Study 5 - Ground Mount, India
Project Address	18.5814680, 73.95
Prepared By	Bhanu Swaroop Gaddam gaddambhanu9@gmail.com

Lill System Metrics							
Design	Case Study 5 - Ground Mount, India						
Module DC Nameplate	4.92 MW						
Inverter AC Nameplate	4.00 MW Load Ratio: 1.23						
Annual Production	8.465 GWh						
Performance Ratio	78.7%						
kWh/kWp	1,718.8						
Weather Dataset	TMY, 10km Grid, meteonorm (meteonorm)						
Simulator Version	77eaf2cdb5-02f2a7f506-20068b956b- d70d5f9ff0						







	Description	Output	% Delta				
	Annual Global Horizontal Irradiance	2,050.2					
	POA Irradiance	2,184.1	6.5%				
Irradiance	Shaded Irradiance	2,147.0	-1.7%				
(kWh/m <sup>2</sup> )	Irradiance after Reflection	2,087.2	-2.8%				
	Irradiance after Soiling	2,045.5	-2.0%				
	Total Collector Irradiance	2,045.5	0.0%				
	Nameplate	10,081,649.9					
	Output at Irradiance Levels	10,057,094.1	-0.2%				
	Output at Cell Temperature Derate	9,193,983.1	-8.6%				
Energy	Output After Mismatch	8,876,313.3	-3.5%				
(kWh)	Optimal DC Output	8,763,451.6	-1.3%				
	Constrained DC Output	8,762,930.4	0.0%				
	Inverter Output	8,507,133.0	-2.9%				
	Energy to Grid	8,464,597.5	-0.5%				
Temperature	Metrics						
	Avg. Operating Ambient Temp		27.1 °C				
Avg. Operating Cell Temp							
Simulation Me	etrics						
		Operating Hours	4659				
		Solved Hours	4659				



Condition Set													
Description	Condition Set 1												
Weather Dataset	TMY, 10km Grid, meteonorm (meteonorm)												
Solar Angle Location	Mete	Meteo Lat/Lng											
Transposition Model	Pere	Perez Model											
Temperature Model	Sand	Sandia Model											
Town overture Madel	Rack	Rack Type			a		b		Temperature Delta				
Temperature Model Parameters		Fixed Tilt			8.56	-0.0			3°C				
	Flus	h Mou	ınt	-2	2.81	-0.0455			0°C				
Soiling (%)	J	F	M	Α	М	J	J		Α	S	0	N	D
	2	2	2	2	2	2	2	!	2	2	2	2	2
Irradiation Variance	5%												
Cell Temperature Spread	4° C	4° C											
Module Binning Range	-2.5%	6 to 2.	5%										
AC System Derate	0.509	%											
Module	Module					Uploaded By		C	Characterization				
Characterizations	CS3W-450MS (Canadian Solar)					Folsom Spec She Labs PAN			heet	eet Characterization,			
Component	Device							Uploaded By		d (	Characterization		
Characterizations	PVS800-MWS-1000kW-20 (Fimer (Formerly ABB))							Folsom Default Labs Characterization			ion		

⊖ Components								
Component Name Count								
Inverters	PVS800-MWS-1000kW-20 (Fimer (Formerly ABB))	4 (4.00 MW)						
Strings	10 AWG (Copper)	608 (690,411.5 ft)						
Module	Canadian Solar, CS3W-450MS (450W)	10,944 (4.92 MW)						

A Wiring Zones			
Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone	-	18-18	Along Racking
<b>Ⅲ</b> Field Segments			

Field Segments										
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power	
Ground Mount	Fixed Tilt	Portrait (Vertical)	18°	180°	8.7 ft	2x18	304	10,944	4.92 MW	



