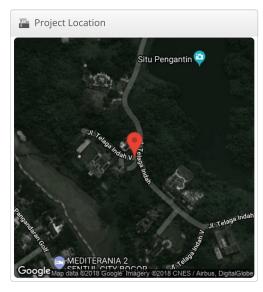
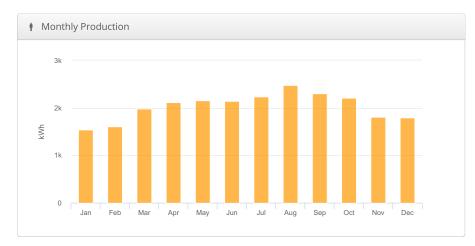


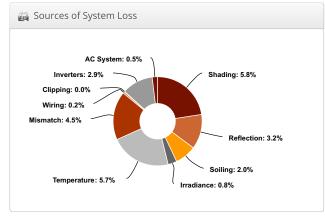
## Design 2 villa sentul, Bogor, Telaga Indah V Sentul city Bogor

Project Name	villa sentul, Bogor
Project Address	Telaga Indah V Sentul city Bogor
Prepared By	meilani 008 tarameidyarespati@gmail.com

System Metrics							
Design	Design 2						
Module DC Nameplate	21.0 kW						
Inverter AC Nameplate	20.0 kW Load Ratio: 1.05						
Annual Production	24.36 MWh						
Performance Ratio	76.9%						
kWh/kWp	1,159.9						
Weather Dataset	TMY, 10km Grid, meteonorm (meteonorm)						
Simulator Version	e080777989-af6ccafea2-64bddf3afa- 29928cfc44						







🜬 Annual Production							
	Description	Output	% Delta				
	Annual Global Horizontal Irradiance	1,487.9					
	POA Irradiance	1,508.2	1.4%				
Irradiance	Shaded Irradiance	1,420.6	-5.8%				
(kWh/m <sup>2</sup> )	Irradiance after Reflection	1,374.5	-3.2%				
	Irradiance after Soiling	1,347.0	-2.0%				
	Total Collector Irradiance	1,347.1	0.0%				
	Nameplate	28,298.3					
Energy (kWh)	Output at Irradiance Levels	28,064.9	-0.8%				
	Output at Cell Temperature Derate	26,468.7	-5.7%				
	Output After Mismatch	25,267.3	-4.5%				
	Optimal DC Output	25,225.7	-0.2%				
	Constrained DC Output	25,216.7	0.0%				
	Inverter Output	24,481.2	-3.0%				
	Energy to Grid	24,358.8	-0.5%				
Temperature M	etrics						
	Avg. Operating Ambient Temp		23.1 °C				
Avg. Operating Cell Temp							
Simulation Metrics							
Operating Hours							
Solved Hours							

🖧 Condition Set													
Description	Condition Set 1												
Weather Dataset	TMY, 10km Grid, meteonorm (meteonorm)												
Solar Angle Location	Meteo Lat/Lng												
Transposition Model	Perez Model												
Temperature Model	Sandia Model												
	Rack	Туре	)		a		b		Te	empe	rature	Delta	
Temperature Model	Fixed Tilt				-3.56		-0.075		3	°C			
Parameters	Flush Mount				-2.81		-0.0455		0,	°C			
	East-West				-3.56		-0.075		3	°C			
	Carp	ort			-3.56		-0.075		3	°C			
Soiling (%)	J	F	М	Δ	М		J	J	Α	S	0	N	D
8 (1-)	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% to 2.5%												
AC System Derate	0.50	%											
Module Characterizations		Module Characteriz							ation				
		REC350TP2S 72 (REC) Spec Sheet							Characterization, PAN				
	Device							Characterization					
Component Characterizations		TRIO-20_0-TL-OUTD-400_BDEW (ABB)								Default Characterization			



<b>▲</b> Components							
Component	Name	Count					
Inverters	TRIO-20_0-TL-OUTD-400_BDEW (ABB)	1 (20.0 kW)					
Strings	10 AWG (Copper)	3 (111.8 ft)					
Module	REC, REC350TP2S 72 (350W)	60 (21.0 kW)					

Wiring Zones			
Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone	12	5-20	Along Racking

Field Segme	nts								
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power
Field Segment 1	Fixed Tilt	Landscape (Horizontal)	15°	341.362°	0.2 ft	1x0	N/A	48	16.8 kW
Field Segment 2	Fixed Tilt	Portrait (Vertical)	15°	341.362°	0.2 ft	1x0	N/A	12	4.20 kW

