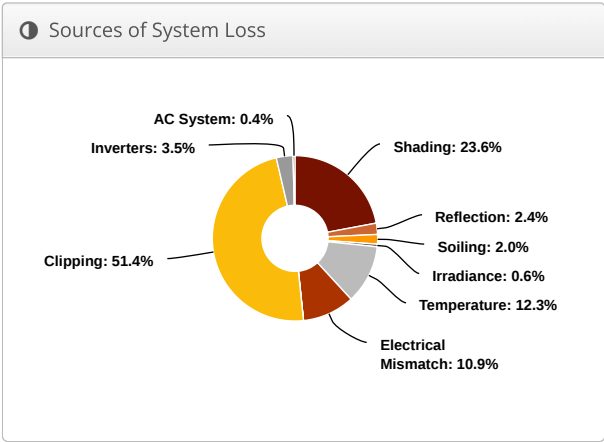
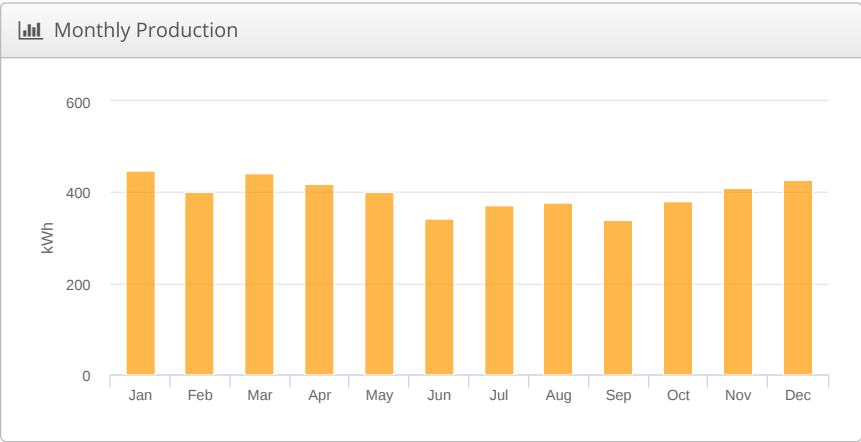
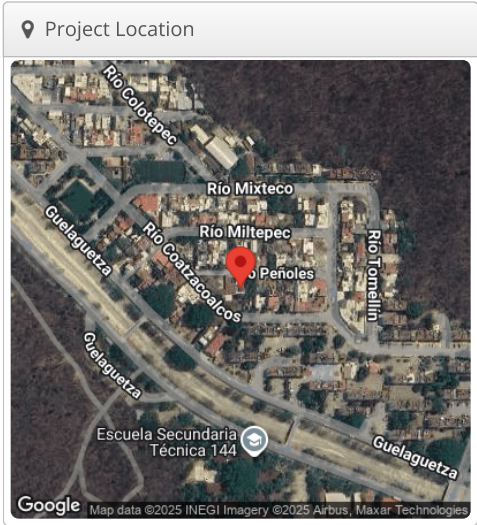


Patricia Jimenez PATRICIA JIMENEZ, huatulco J, 70988 Crucecita, Oax.

Report	
Project Name	PATRICIA JIMENEZ
Project Address	huatulco J, 70988 Crucecita, Oax.
Prepared By	Alan Guitierrez proyectos.agenciaep@gmail.com

System Metrics	
Design	Patricia Jimenez
Module DC Nameplate	7.68 kW
Inverter AC Nameplate	6.00 kW Load Ratio: 1.28
Annual Production	4.756 MWh
Performance Ratio	26.6%
kWh/kWp	619.3
Weather Dataset	TMY, 0.04° Grid (15.77,-96.14), NREL (psm3)
Simulator Version	6de799d15c-ae2644d90b-c8afb13e7f-270673d64c



⚡ Annual Production			
	Description	Output	% Delta
Irradiance (kWh/m²)	Annual Global Horizontal Irradiance	2,208.2	
	POA Irradiance	2,327.6	5.4%
	Shaded Irradiance	1,777.9	-23.6%
	Irradiance after Reflection	1,735.9	-2.4%
	Irradiance after Soiling	1,701.2	-2.0%
	Total Collector Irradiance	1,705.9	0.3%
Energy (kWh)	Nameplate	13,115.5	
	Output at Irradiance Levels	13,041.4	-0.6%
	Output at Cell Temperature Derate	11,432.9	-12.3%
	Output after Electrical Mismatch	10,185.0	-10.9%
	Optimal DC Output	10,185.0	0.0%
	Constrained DC Output	4,948.6	-51.4%
	Inverter Output	4,775.4	-3.5%
	Energy to Grid	4,756.3	-0.4%
Temperature Metrics			
Avg. Operating Ambient Temp		29.7 °C	
Avg. Operating Cell Temp		49.7 °C	
Simulation Metrics			
Operating Hours		4383	
Solved Hours		4383	

☁ Condition Set												
Description	Condition Set 1											
Weather Dataset	TMY, 0.04° Grid (15.77,-96.14), NREL (psm3)											
Solar Angle Location	Meteo Lat/Lng											
Transposition Model	Perez Model											
Temperature Model	Sandia Model											
Temperature Model Parameters	Rack Type			a		b			Temperature Delta			
	Fixed Tilt			-3.56		-0.075			3°C			
	Flush Mount			-2.81		-0.0455			0°C			
	East-West			-3.56		-0.075			3°C			
	Carport			-3.56		-0.075			3°C			
Soiling (%)	J	F	M	A	M	J	J	A	S	O	N	D
	2	2	2	2	2	2	2	2	2	2	2	2
Albedo	J	F	M	A	M	J	J	A	S	O	N	D
	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Rear Mismatch Loss	10%				Rear Shading Factor				5%			
Module Transparency	0%											
Irradiation Variance	5%											
Cell Temperature Spread	4° C											
Module Binning Range	-2.5% to 2.5%											
AC System Derate	0.50%											
Module & Component Characterizations	Type	Component					Characterization				Bifacial	
	Module	JAM72D42-640/LB (JA Solar)					Spec Sheet Characterization, PAN				True	
	Inverter	HMS-2000-4T (220V) (Hoymiles)					Spec Sheet				N/A	

Components		
Component	Name	Count
Inverters	HMS-2000-4T (220V) (Hoymiles)	3 (6.00 kW)
AC Branches	1000 MCM (Aluminum)	1 (48.3 ft)
Module	JA Solar, JAM72D42-640/LB (640W)	12 (7.68 kW)

Wiring Zones			
Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone	-	1-1	Along Racking

Field Segments									
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power
Segmento 2	Flush Mount	Portrait (Vertical)	18.4°	180°	0.0 ft	1x1	4	4	2.56 kW
Segmento 1	Flush Mount	Portrait (Vertical)	18.4°	180°	0.0 ft	1x1	4	4	2.56 kW
Segmento 3	Flush Mount	Portrait (Vertical)	18.4°	180°	0.0 ft	1x1	4	4	2.56 kW

