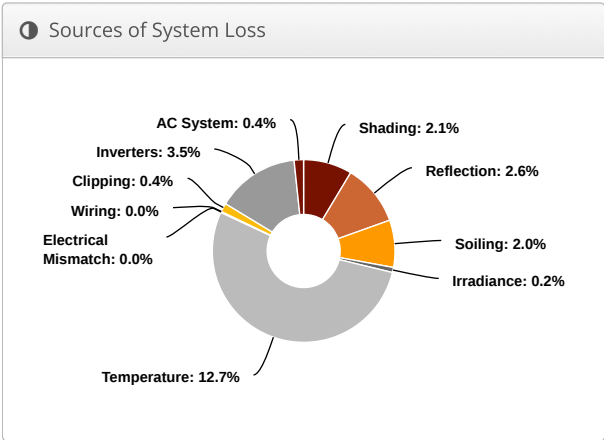
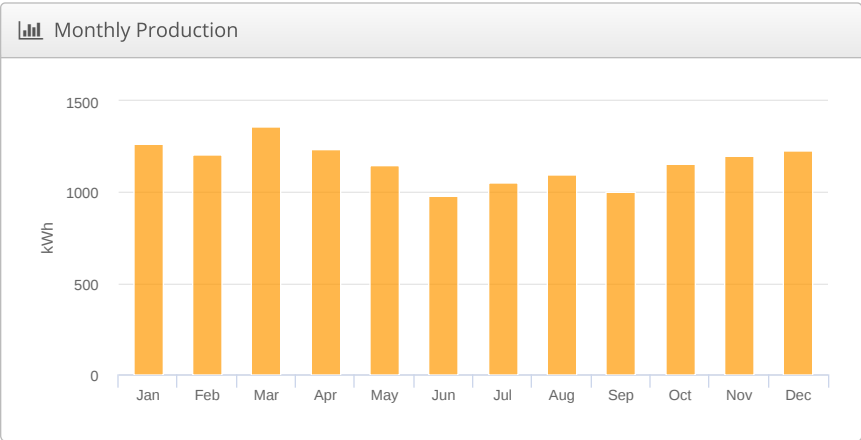
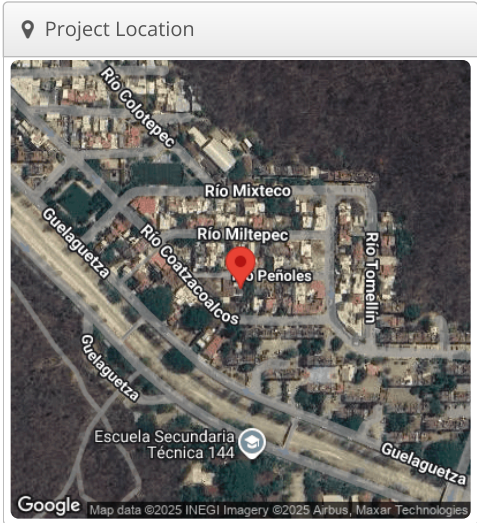


Proyecto, PatriciaPATRICIA JIMENEZ, huatulco J, 70988 Crucecita, Oax.

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

System Metrics	
Design	Proyecto, Patricia
Module DC Nameplate	7.68 kW
Inverter AC Nameplate	6.00 kW Load Ratio: 1.28
Annual Production	13.94 MWh
Performance Ratio	78.0%
kWh/kWp	1,815.2
Weather Dataset	TMY, 0.04° Grid (15.77,-96.14), NREL (psm3)
Simulator Version	f1710218d5-319b583da7-f2130bac14-3ecd029498



⚡ Annual Production			
	Description	Output	% Delta
Irradiance (kWh/m²)	Annual Global Horizontal Irradiance	2,208.2	
	POA Irradiance	2,327.6	5.4%
	Shaded Irradiance	2,279.7	-2.1%
	Irradiance after Reflection	2,219.9	-2.6%
	Irradiance after Soiling	2,175.5	-2.0%
	Total Collector Irradiance	2,176.9	0.1%
Energy (kWh)	Nameplate	16,726.8	
	Output at Irradiance Levels	16,690.9	-0.2%
	Output at Cell Temperature Derate	14,566.2	-12.7%
	Output after Electrical Mismatch	14,560.3	0.0%
	Optimal DC Output	14,560.3	0.0%
	Constrained DC Output	14,506.7	-0.4%
	Inverter Output	13,997.1	-3.5%
	Energy to Grid	13,941.0	-0.4%
Temperature Metrics			
Avg. Operating Ambient Temp		29.7 °C	
Avg. Operating Cell Temp		55.3 °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 (25.2 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 1	Flush Mount	Portrait (Vertical)	18.4°	180°	0.0 ft	1x1	4	4	2.56 kW
Segmento 2	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

Detailed Layout2

