


Diseño previo Suegro Alberto Pagés- José Matas Abellán, Carril de los Rojillos, 20

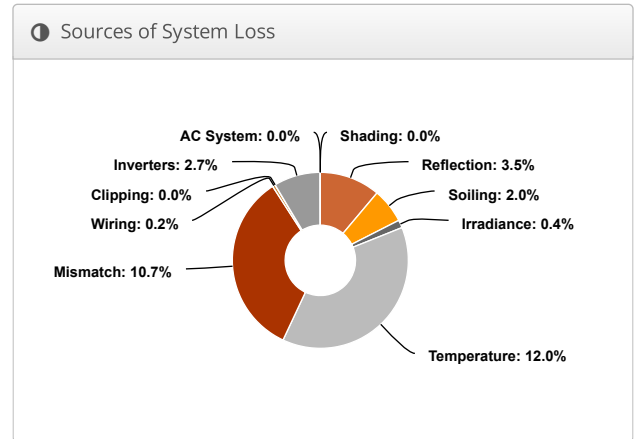
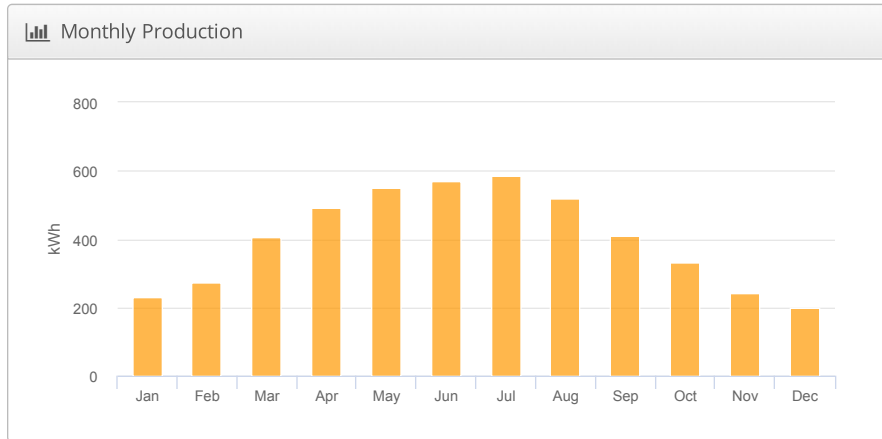
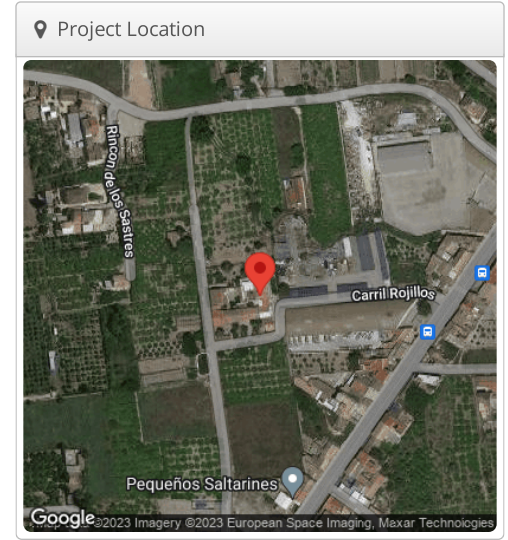
Report

Project Name	Suegro Alberto Pagés- José Matas Abellán
Project Address	Carril de los Rojillos, 20
Prepared By	Adrian Molina Navarro info@esirenovables.es



System Metrics

Design	Diseño previo
Module DC Nameplate	3.64 kW
Inverter AC Nameplate	3.00 kW Load Ratio: 1.21
Annual Production	4.805 MWh
Performance Ratio	71.8%
kWh/kWp	1,320.2
Weather Dataset	TMY, 10km Grid, meteonorm (meteonorm)
Simulator Version	6827cc4bc4-fc8205f29a-cddb18cb01-e6a648b615



⚡ Annual Production			
	Description	Output	% Delta
Irradiance (kWh/m ²)	Annual Global Horizontal Irradiance	1,759.6	
	POA Irradiance	1,838.5	4.5%
	Shaded Irradiance	1,838.5	0.0%
	Irradiance after Reflection	1,774.1	-3.5%
	Irradiance after Soiling	1,738.6	-2.0%
	Total Collector Irradiance	1,733.6	-0.3%
Energy (kWh)	Nameplate	6,317.2	
	Output at Irradiance Levels	6,289.0	-0.4%
	Output at Cell Temperature Derate	5,537.1	-12.0%
	Output After Mismatch	4,946.8	-10.7%
	Optimal DC Output	4,938.8	-0.2%
	Constrained DC Output	4,938.8	0.0%
	Inverter Output	4,805.5	-2.7%
	Energy to Grid	4,805.5	0.0%
	Temperature Metrics		
	Avg. Operating Ambient Temp		22.5 °C
	Avg. Operating Cell Temp		42.3 °C
Simulation Metrics			
	Operating Hours		4597
	Solved Hours		4597

☁ 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											
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
Irradiation Variance	5%											
Cell Temperature Spread	4° C											
Module Binning Range	-2.5% to 2.5%											
AC System Derate	0.50%											
Module Characterizations	Module						Uploaded By		Characterization			
	RSM144-7-455M (Risen Energy)						HelioScope		Spec Sheet Characterization, PAN			
Component Characterizations	Device						Uploaded By		Characterization			
	SUN2000-3KTL-L1 (Huawei)						HelioScope		Spec Sheet			

📦 Components		
Component	Name	Count
Inverters	SUN2000-3KTL-L1 (Huawei)	1 (3.00 kW)
AC Home Runs	1000 MCM (Aluminum)	1 (15.1 m)
Strings	10 AWG (Copper)	1 (0.0 m)
Module	Risen Energy, RSM144-7-455M (455W)	8 (3.64 kW)

🔌 Wiring Zones			
Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone	-	3-11	Along Racking

🏠 Field Segments									
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power
Field Segment 1	Flush Mount	Portrait (Vertical)	18.4°	172.87498°	0.0 m	1x1	4	4	1.82 kW
Field Segment 2	Flush Mount	Portrait (Vertical)	18.4°	83.706825°	0.0 m	1x1	4	4	1.82 kW

Detailed Layout

