

Declarație

Prin prezenta, SRL AM-Sisteme în persoana Inginerului Secția Tehnică Maracuța Veronica, declară, că cantitatea minimă produsă anual conform planului de producere pe 5 ani constituie:

1. 285,168.4 (kWh)
2. 283,742.6 (kWh)
3. 283,373.5 (kWh)
4. 280,890.9 (kWh)
5. 279,465.0 (kWh)

Data completării 13.02.2025

Cu stimă,

Semnat: _____

Nume: Maracuța Veronica

Poziția: Inginer Secția Tehnică

Denumirea firmei: AM-Sisteme SRL

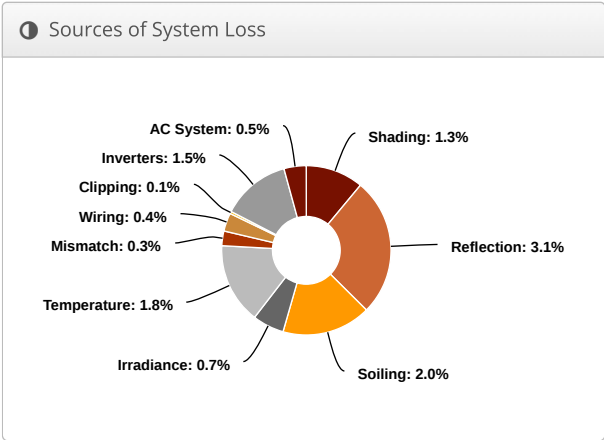
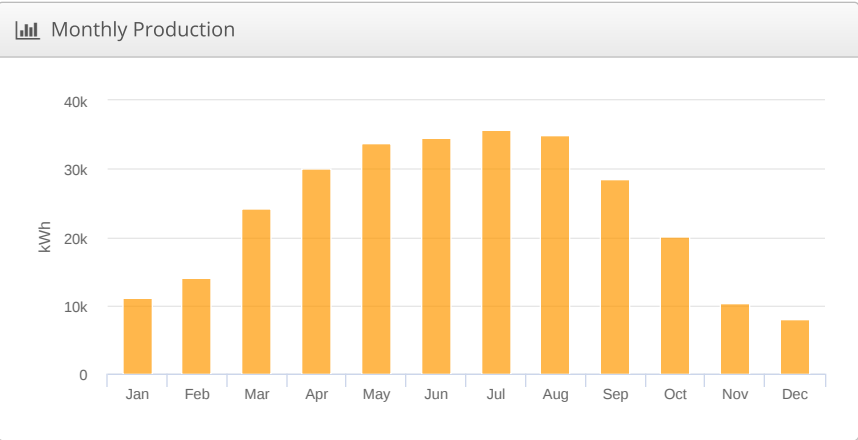
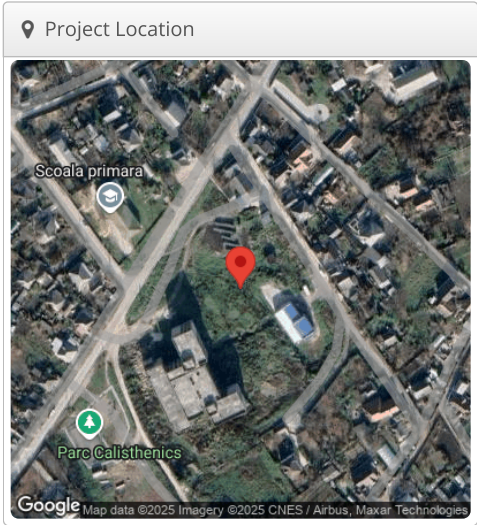
SIRETI Sireti, 4PH6+7VR Sireți, Moldova

Report

Project Name	Sireti
Project Address	4PH6+7VR Sireți, Moldova
Prepared By	Catalin Sirbu sirbucatalin@term.md



System Metrics	
Design	Design 1
Module DC Nameplate	205.4 kW
Inverter AC Nameplate	250.0 kW Load Ratio: 0.82
Annual Production	285.2 MWh
Performance Ratio	89.5%
kWh/kWp	1,388.3
Weather Dataset	TMY, 10km Grid, Meteonorm 8 (meteonorm_v8)
Simulator Version	7bf287bf19-d45af2698b-5ed2a76c21-4e3b64d093



Year	Annual Production (kWh)
0	0.0
1	285,168.4
2	283,742.6
3	283,373.5
4	280,890.9
5	279,465.0

⚡ Annual Production			
	Description	Output	% Delta
Irradiance (kWh/m²)	Annual Global Horizontal Irradiance	1,319.6	
	POA Irradiance	1,551.5	17.6%
	Shaded Irradiance	1,531.3	-1.3%
	Irradiance after Reflection	1,483.7	-3.1%
	Irradiance after Soiling	1,454.0	-2.0%
	Total Collector Irradiance	1,454.0	0.0%
Energy (kWh)	Nameplate	300,978.0	
	Output at Irradiance Levels	298,839.3	-0.7%
	Output at Cell Temperature Derate	293,423.0	-1.8%
	Output After Mismatch	292,453.0	-0.3%
	Optimal DC Output	291,256.3	-0.4%
	Constrained DC Output	291,108.4	-0.1%
	Inverter Output	286,601.4	-1.6%
	Energy to Grid	285,168.4	-0.5%
Temperature Metrics			
Avg. Operating Ambient Temp		13.9 °C	
Avg. Operating Cell Temp		21.5 °C	
Simulation Metrics			
Operating Hours			4636
Solved Hours			4636

☁ Condition Set												
Description	Condition Set 1											
Weather Dataset	TMY, 10km Grid, Meteonorm 8 (meteonorm_v8)											
Solar Angle Location	Meteo Lat/Lng											
Transposition Model	Perez Model											
Temperature Model	Diffusion Model											
Temperature Model Parameters	Rack Type				U _{const}			U _{wind}				
	Fixed Tilt				29			0				
	Flush Mount				15			0				
	East-West				29			0				
	Carport				29			0				
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	1%											
Cell Temperature Spread	1° C											
Module Binning Range	0% to 1.5%											
AC System Derate	0.50%											
Module Characterizations	Module			Uploaded By			Characterization					
	LR5-78HGD-615M (Longi)			HelioScope			Spec Sheet Characterization, PAN					
Component Characterizations	Device			Uploaded By			Characterization					
	250KTL-HV (SofarSolar)			HelioScope			Default Characterization					

📦 Components		
Component	Name	Count
Inverters	250KTL-HV (SofarSolar)	1 (250.0 kW)
Strings	10 AWG (Copper)	22 (1,805.4 m)
Module	Longi, LR5-78HGD-615M (615W)	334 (205.4 kW)

🔌 Wiring Zones			
Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone	-	11-16	Along Racking

🏗 Field Segments									
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power
Field Segment 1	Fixed Tilt	Portrait (Vertical)	Module: 30°	Module: 180°	8.0 m	2x1	167	334	205.4 kW