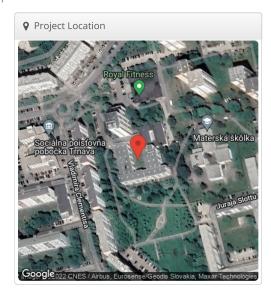


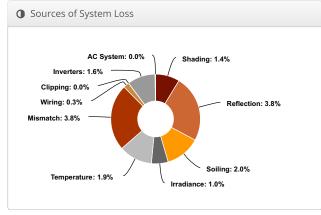
Design 1 Stredisko Sociálnej starostlivosti, Vladimíra Clementisa 6483/51

& Report	
Project Name	Stredisko Sociálnej starostlivosti
Project Address	Vladimíra Clementisa 6483/51
Prepared By	

lılıl System Metrics					
Design	Design 1				
Module DC Nameplate	84.6 kW				
Inverter AC Nameplate	72.0 kW Load Ratio: 1.18				
Annual Production	96.61 MWh				
Performance Ratio	85.2%				
kWh/kWp	1,142.0				
Weather Dataset	TMY, 10km Grid, meteonorm (meteonorm)				
Simulator Version	60f4c79d82-24b1416d39-579e641e25- d1464a15ec				







	Description	Output	% Delta				
	Annual Global Horizontal Irradiance	1,238.3					
	POA Irradiance	1,339.5	8.2%				
Irradiance	Shaded Irradiance	1,321.0	-1.4%				
(kWh/m²)	Irradiance after Reflection	1,270.7	-3.8%				
	Irradiance after Soiling	1,245.3	-2.0%				
	Total Collector Irradiance	1,245.2	0.0%				
	Nameplate	105,417.4					
	Output at Irradiance Levels	104,412.4	-1.0%				
	Output at Cell Temperature Derate	102,418.5	-1.9%				
Energy	Output After Mismatch	98,532.0	-3.8%				
(kWh)	Optimal DC Output	98,212.7	-0.3%				
	Constrained DC Output	98,204.6	0.0%				
	Inverter Output	96,633.2	-1.6%				
	Energy to Grid	96,609.2	0.0%				
Temperature N	Metrics						
	Avg. Operating Ambient Temp		13.6 °C				
Avg. Operating Cell Temp							
Simulation Me	trics						
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 Type			а	a		b		Те	Temperature Delta			
Temperature Model Parameters	Fixe	d Tilt		-3	.56	-0.075		'5	3°	3°C			
	Flus	h Mou	unt	-2	.81		-0.0455		0°	0°C			
Soiling (%)	J	F	М	Α	M		J	J	Α	S	0	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%	6 to 2	.5%										
AC System Derate	0.509	%											
Module Characterizations	Module					Uploaded By		Characterization					
Module Characterizations	CS3W-450MS (Canadian Solar) HelioSco					ope	Spec Sheet Characterization, PAN						
Component Characterizations	Device						Uploaded Character		acteriza	ation			
	SUN2000-36KTL-M3 (400V) (2022) (Huawei)						F	HelioScope Spec Sheet			Sheet		

☐ Components							
Component Name Count							
Inverters	SUN2000-36KTL-M3 (400V) (2022) (Huawei)	2 (72.0 kW)					
AC Home Runs	1000 MCM (Aluminum)	2 (166.4 m)					
Strings	10 AWG (Copper)	12 (568.7 m)					
Module	Canadian Solar, CS3W-450MS (450W)	188 (84.6 kW)					

♣ Wiring Zones			
Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone	-	6-19	Along Racking

## Field Segments									
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power
Field Segment 1	Fixed Tilt	Landscape (Horizontal)	10°	167.1756°	0.5 m	1x1	56	52	23.4 kW
Field Segment 1 (copy)	Fixed Tilt	Landscape (Horizontal)	10°	167.1756°	0.5 m	1x1	56	52	23.4 kW
Field Segment 3	Fixed Tilt	Landscape (Horizontal)	10°	167.1756°	0.5 m	1x1	21	21	9.45 kW
Field Segment 3 (copy)	Fixed Tilt	Landscape (Horizontal)	10°	167.1756°	0.5 m	1x1	21	21	9.45 kW
Field Segment 3 (copy 1)	Fixed Tilt	Landscape (Horizontal)	10°	167.1756°	0.5 m	1x1	21	21	9.45 kW
Field Segment 3 (copy 2)	Fixed Tilt	Landscape (Horizontal)	10°	167.1756°	0.5 m	1x1	21	21	9.45 kW



