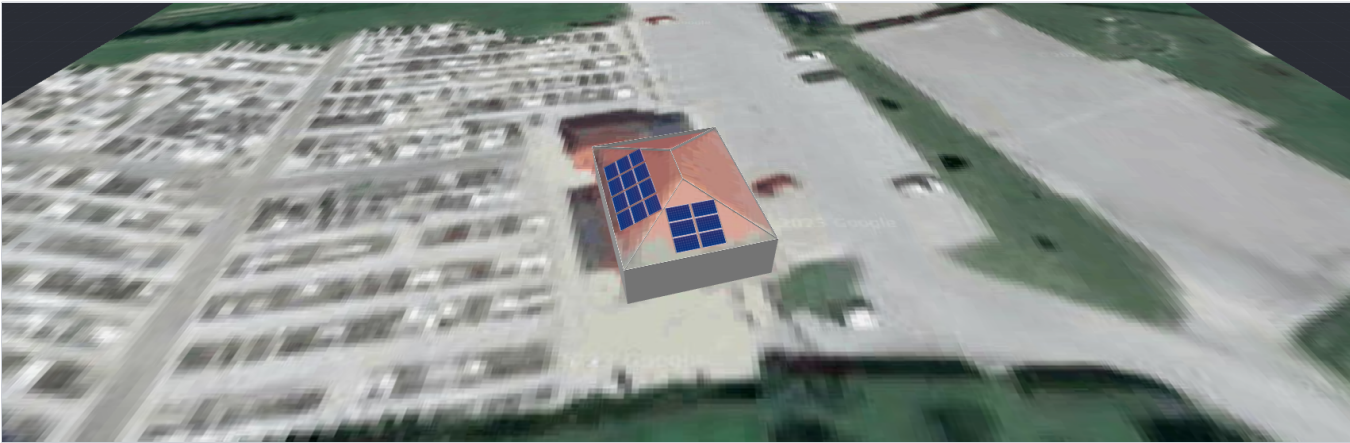


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SYSTEM OVERVIEW



18 PV modules



1 Inverter



18 Optimizers

PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
6	Trienergia, TRIxxxSM-RR (user-defined)	1.9 kWp			165°	25°
12	Trienergia, TRIxxxSM-RR (user-defined)	3.7 kWp			255°	25°
Total:	18	5.6 kWp				

SIMULATION RESULTS



Installed DC Power

5.58 kWp



Max Achieved AC Power

5.00 kW



Annual Energy Production

6.33 MWh



CO2 Emission Saved

1.61 t



Equivalent Trees Planted

74



Max Achieved DC Power

5.32 kW



DC/AC Oversizing

106 %



Max Active AC Power

5.00 kW



Performance Ratio

87 %



Performance Index

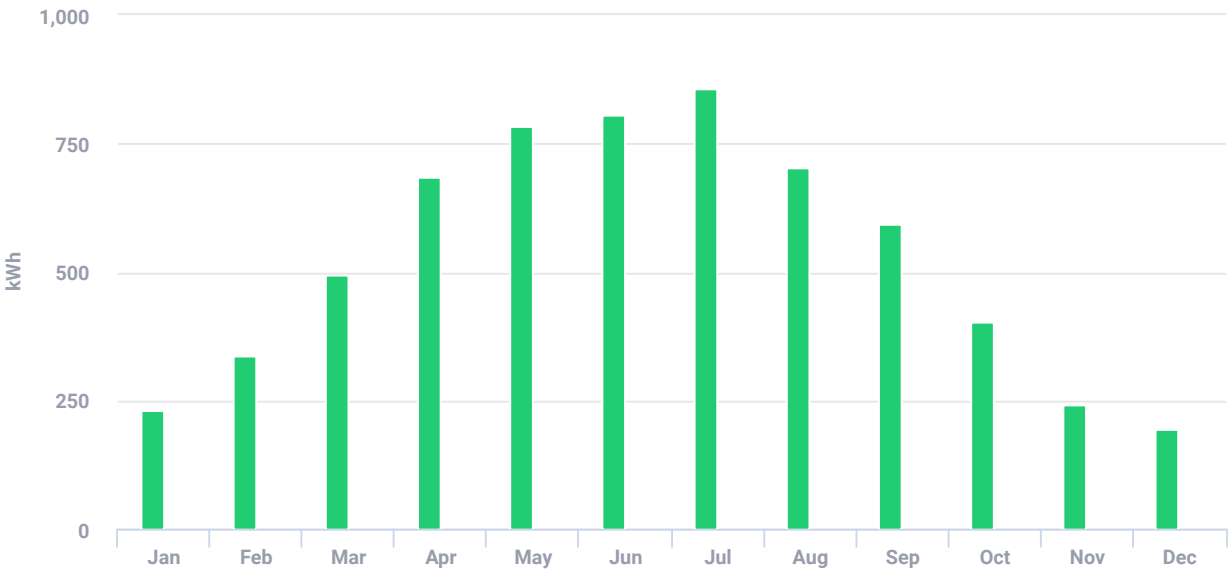
1,134 kWh/kWp

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ESTIMATED MONTHLY ENERGY

● Solar Production



Total clipped energy: 0%

BILL OF MATERIALS (BOM)

Items	Part Number	Quantity	Price (€)
Total (€)			
 SE5K		1	
 S500B		18	
 TRIxxxSM-RR		18	

ELECTRICAL DESIGN

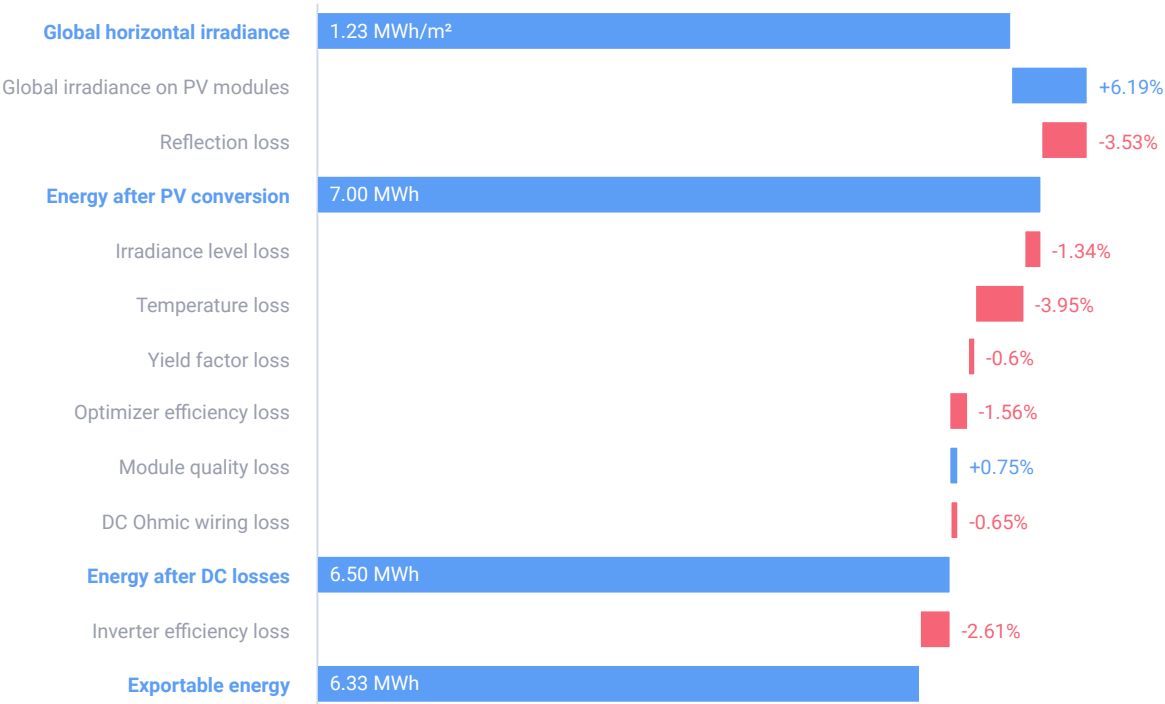
Inverters & Storage	Strings per inverter	Optimizers per string	PV modules per string
 1 xSE5K 5.32kW 106% Oversizing	 1 x string	 18 x S500B	 18

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SYSTEM LOSS DIAGRAM



SIMULATION PARAMETERS



LOCATION & GRID

Time zone	GMT+2 (Ljubljana)
Weather station	Maribor (18.4 km away)
Station altitude	263 m
Station data source	Meteonorm 7.1
Grid	400V L-L, 230V L-N



LOSS FACTORS

Near shading	Enabled
Albedo	0.20
Soiling/Snow	0%
Incidence angle modifier (IAM), ASHRAE b0 param.	0.05
Thermal loss factor Uc (const) Flush mount	20
Thermal loss factor Uc (const) Tilted	29
LID loss factor	0%
System unavailability	0%