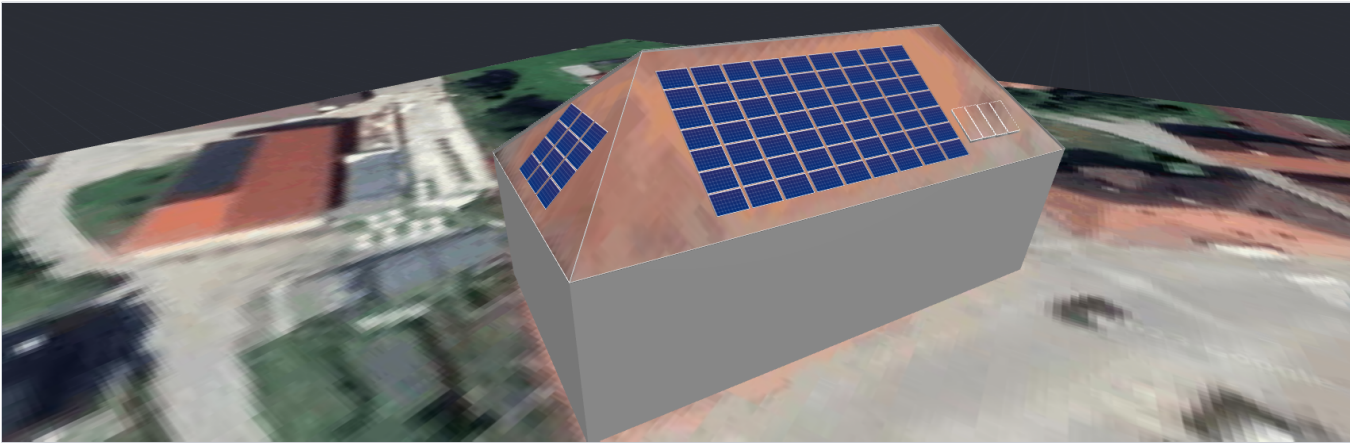


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SYSTEM OVERVIEW



75 PV modules



1 Inverter



75 Optimizers

PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
12	Trienergia, TRIxxxSM-RR (user-defined)	3.7 kWp			209°	45°
63	Trienergia, TRIxxxSM-RR (user-defined)	19.5 kWp			119°	40°
Total:	75	23.3 kWp				

SIMULATION RESULTS



Installed DC Power

23.25 kWp



Max Achieved AC Power

17.00 kW



Annual Energy Production

26.84 MWh



CO2 Emission Saved

6.82 t



Equivalent Trees Planted

313



Max Achieved DC Power

21.72 kW



DC/AC Oversizing

128 %



Max Active AC Power

17.00 kW



Performance Ratio

89 %



Performance Index

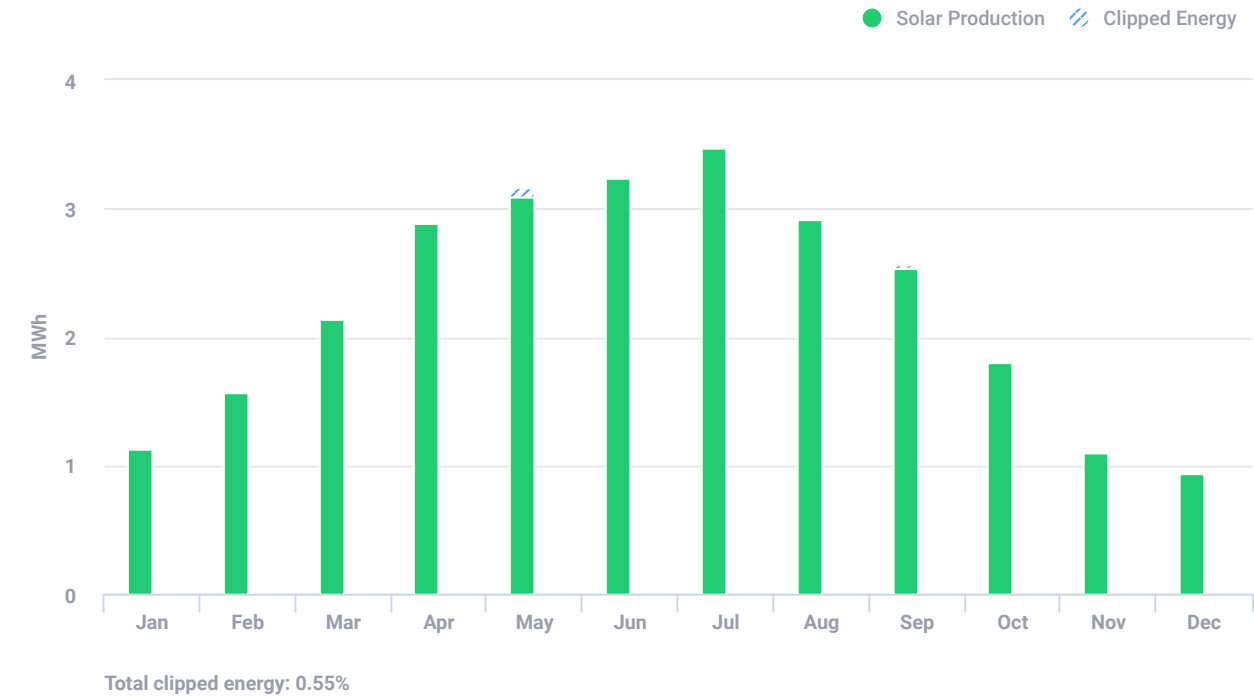
1,154 kWh/kWp

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ESTIMATED MONTHLY ENERGY



BILL OF MATERIALS (BOM)

Items	Part Number	Quantity	Price (€)
Total (€)			
SE17K		1	
S440		75	
TRlxxxSM-RR		75	

ELECTRICAL DESIGN

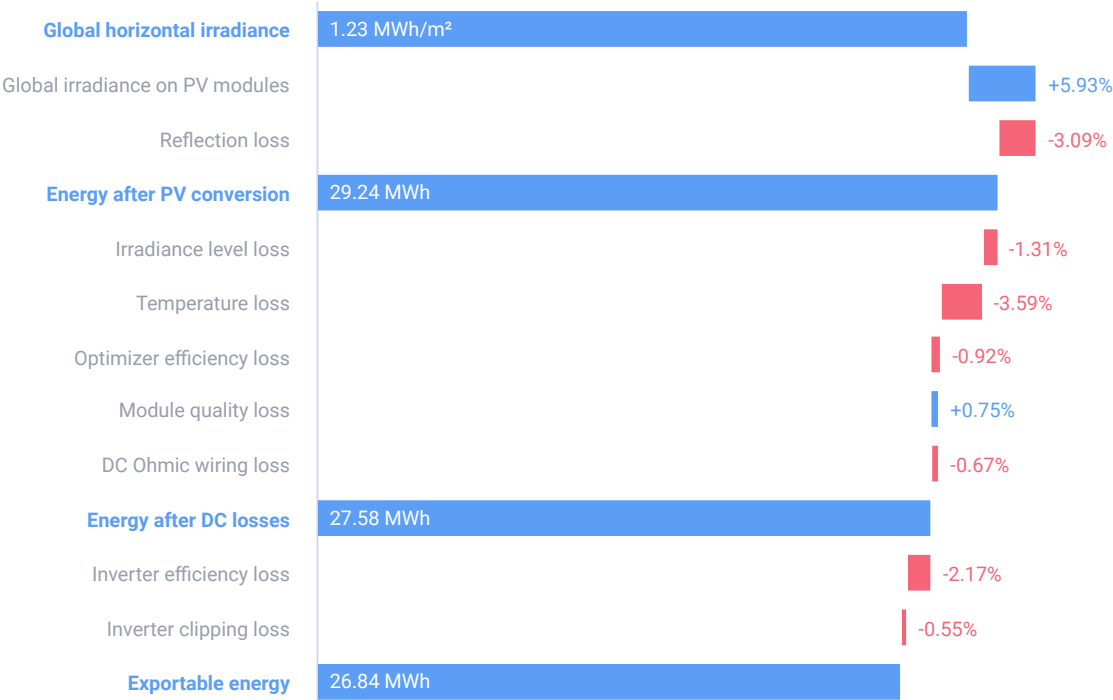
Inverters & Storage	Strings per inverter	Optimizers per string	PV modules per string
1 x SE17K 21.72kW 128% Oversizing	1 x string	35 x S440	35
	1 x string	40 x S440	40

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SYSTEM LOSS DIAGRAM



SIMULATION PARAMETERS



LOCATION & GRID

Time zone	GMT+2 (Ljubljana)
Weather station	Maribor (18.51 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%