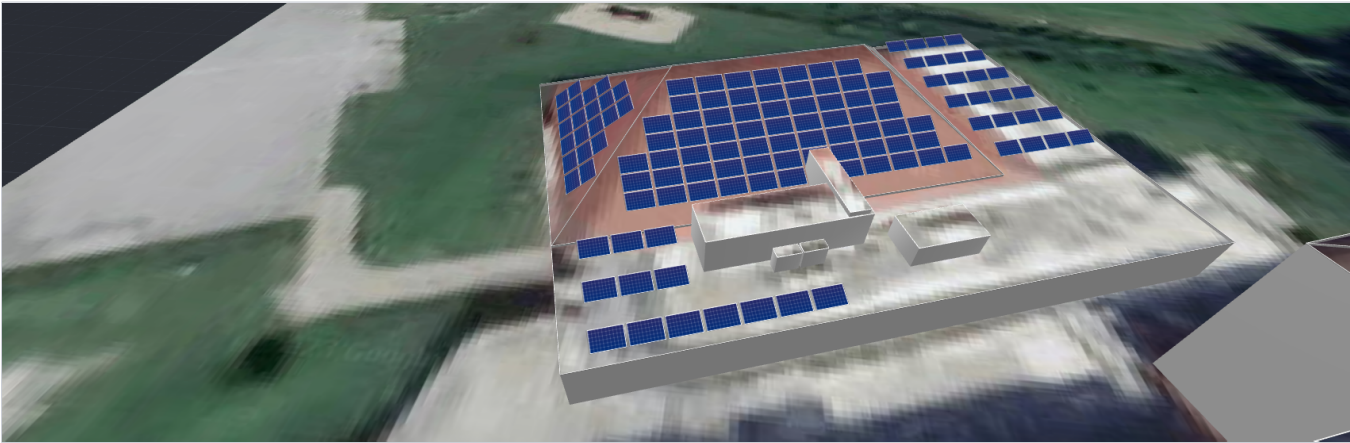


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SYSTEM OVERVIEW



124 PV modules



1 Inverter



124 Optimizers

PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
21	Trienergia, TRIxxxSM-RR (user-defined)	6.5 kWp			252°	31°
66	Trienergia, TRIxxxSM-RR (user-defined)	20.5 kWp			162°	31°
37	Trienergia, TRIxxxSM-RR (user-defined)	11.5 kWp			162°	25°
Total: 124		38.4 kWp				

SIMULATION RESULTS



Installed DC Power

38.44 kWp



Max Achieved AC Power

33.30 kW



Annual Energy Production

43.95 MWh



CO2 Emission Saved

11.16 t



Equivalent Trees Planted

513



Max Achieved DC Power

37.30 kW



DC/AC Oversizing

112 %



Max Active AC Power

33.30 kW



Performance Ratio

83 %



Performance Index

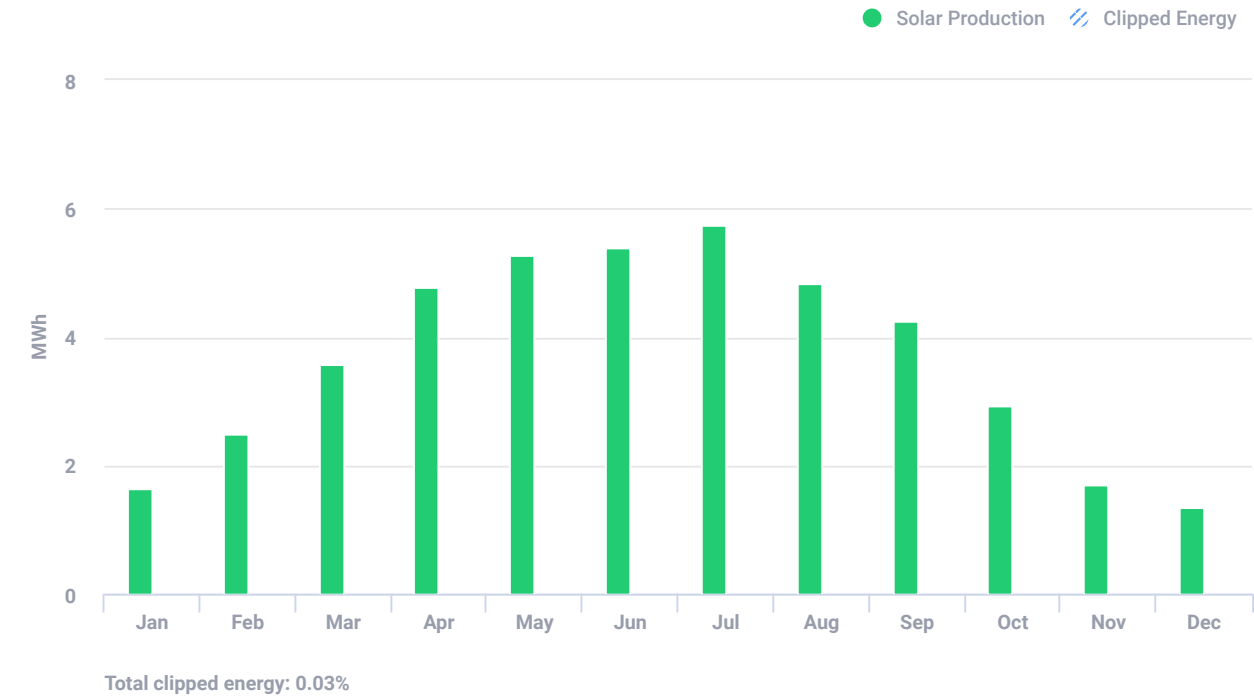
1,143 kWh/kWp

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ESTIMATED MONTHLY ENERGY



BILL OF MATERIALS (BOM)

Items	Part Number	Quantity	Price (€)
Total (€)			
 SE33.3K		1	
 S440		124	
 TRlxxxSM-RR		124	

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ELECTRICAL DESIGN

Inverters & Storage	Strings per inverter	Optimizers per string	PV modules per string
 1 x SE33.3K 37.3kW 112% Oversizing	1 x string	 34 x S440	 34
	1 x string	 36 x S440	 36
	1 x string	 24 x S440	 24
	1 x string	 30 x S440	 30

SYSTEM LOSS DIAGRAM



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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%