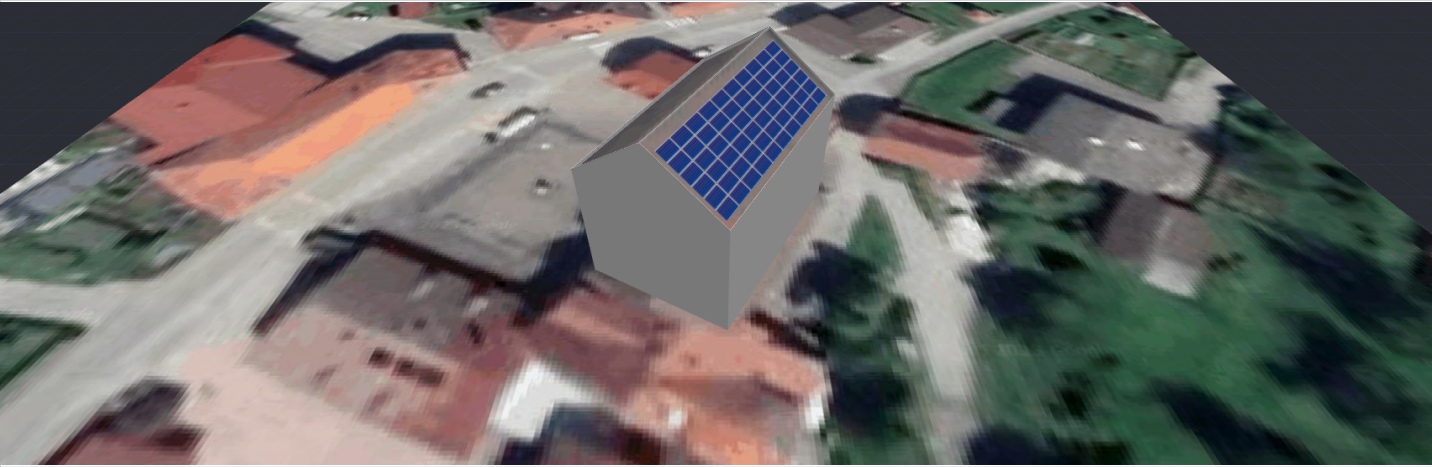


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SYSTEM OVERVIEW

 60 PV modules

 1 Inverter

 60 Optimizers

PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
60	Trienergia, TRIxxxSM-RR (user-defined)	18.6 kWp			120°	35°
Total:	60	18.6 kWp				

SIMULATION RESULTS

 Installed DC Power 18.60 kWp	 Max Achieved AC Power 16.00 kW	 Annual Energy Production 21.55 MWh	 CO2 Emission Saved 5.47 t	 Equivalent Trees Planted 251
 Max Achieved DC Power 18.26 kW	 DC/AC Oversizing 114 %	 Max Active AC Power 16.00 kW	 Performance Ratio 89 %	 Performance Index 1,159 kWh/kWp

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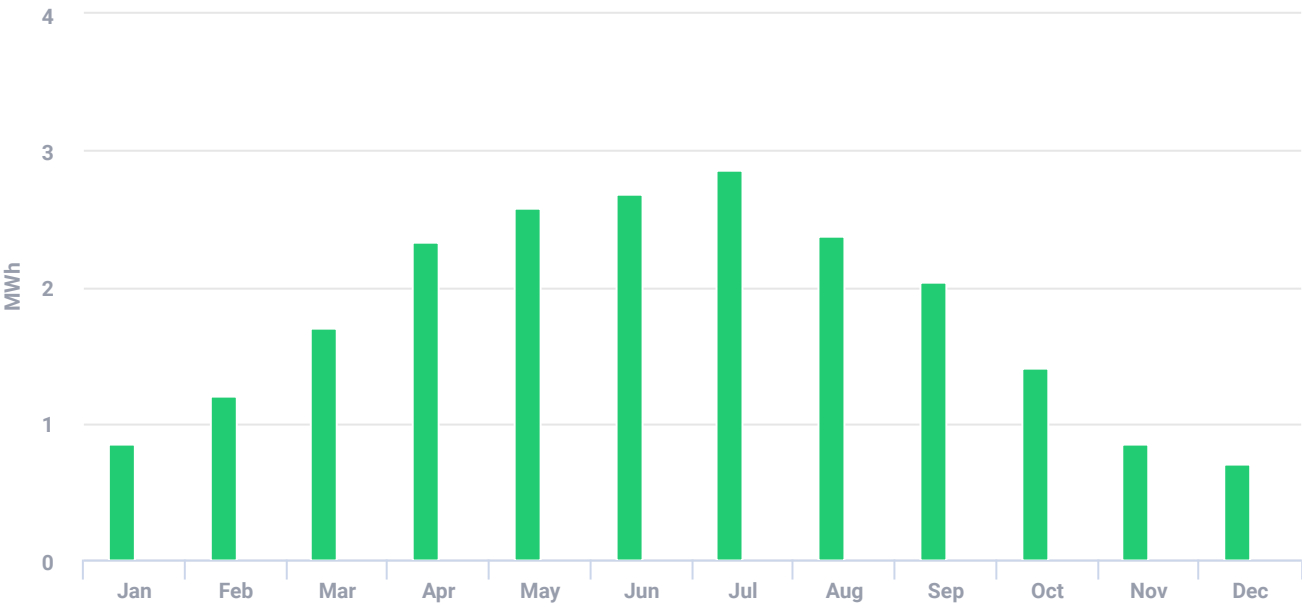
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ESTIMATED MONTHLY ENERGY

Solar Production

Clipped Energy



Total clipped energy: 0.09%

BILL OF MATERIALS (BOM)

Items	Part Number	Quantity	Price (€)	Total (€)
 SE16K		1		
 S440		60		
 TRlxxxSM-RR		60		

ELECTRICAL DESIGN

Inverters & Storage	Strings per inverter	Optimizers per string	PV modules per string
 1 x SE16K 18.26kW 114% Oversizing	2 x strings	 30 x S440	 30

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SYSTEM LOSS DIAGRAM



SIMULATION PARAMETERS



LOCATION & GRID

Time zone	GMT+2 (Ljubljana)
Weather station	Maribor (18.52 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%