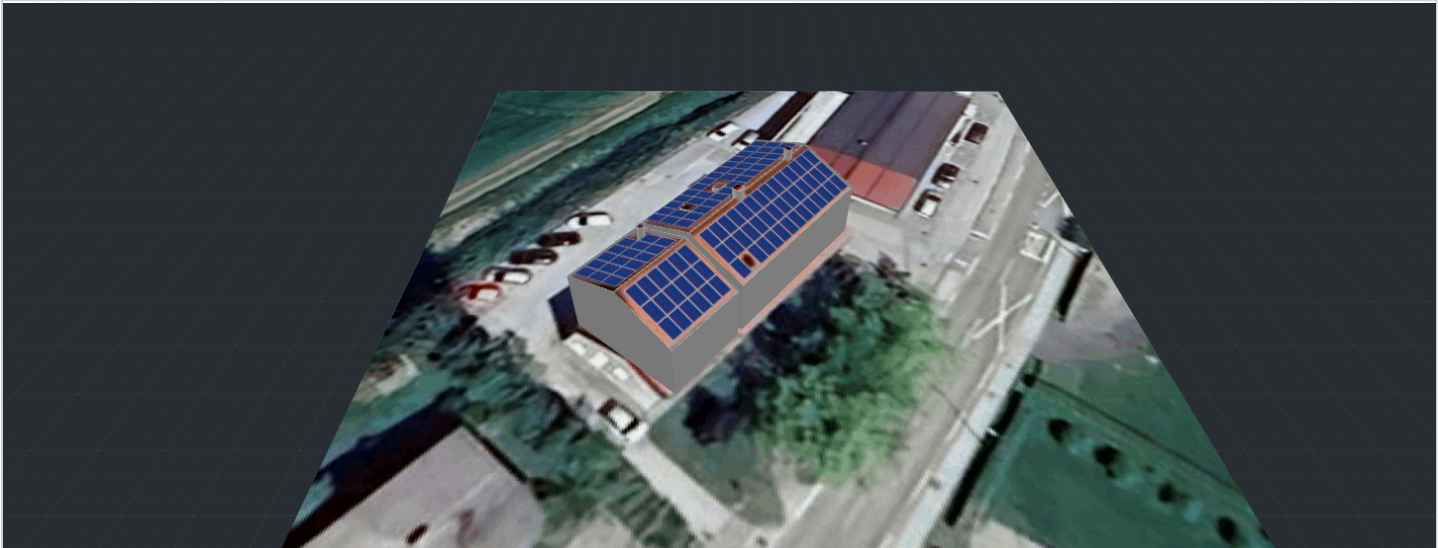


POŠTA JURŠINCI

Juršinci 3 B, Juršinci, 2256, Slovenia | Mar 9, 2024



SYSTEM OVERVIEW



115 PV modules



2 Inverters



58 Optimizers

SIMULATION RESULTS



Installed DC Power

50.60 kWp



Max Achieved AC Power

40.00 kW



Annual Energy Production

53.95 MWh



CO2 Emission Saved
(Annually)

13.7 t



Equivalent Trees Planted
(Annually)

629



Max Achieved DC Power

46.75 kW



DC/AC Oversizing

117 %



Max Active AC Power

40.00 kW



Performance Ratio

88 %



Performance Index

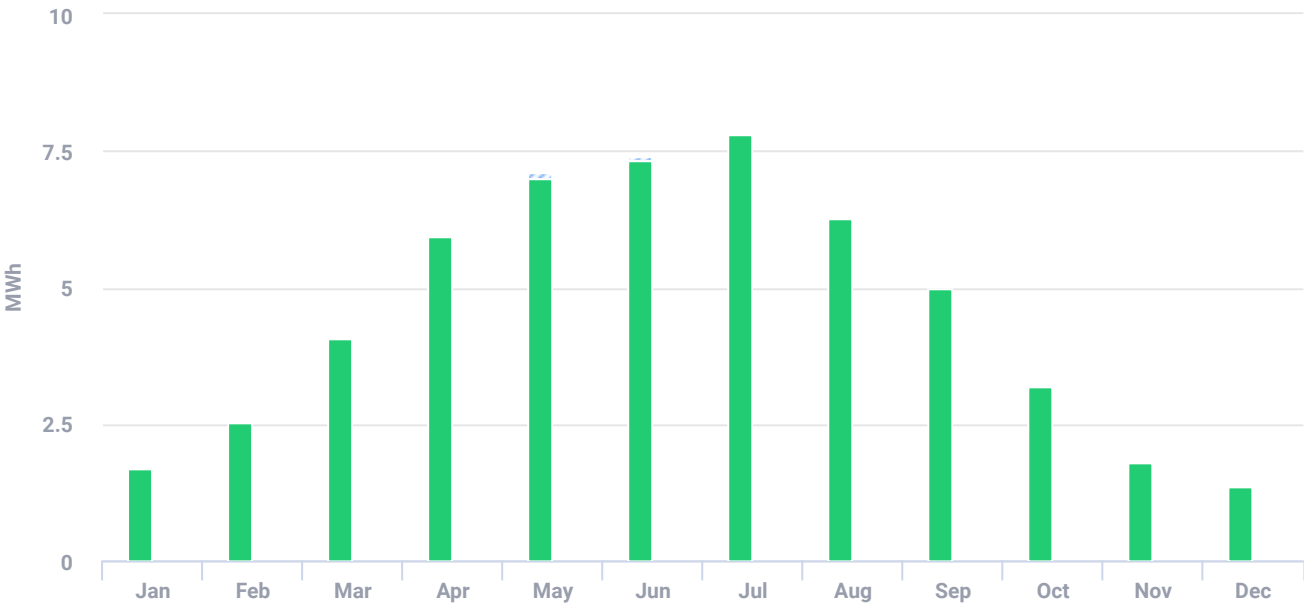
1,066 kWh/kWp

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Juršinci 3 B, Juršinci, 2256, Slovenia | Mar 9, 2024

ESTIMATED MONTHLY ENERGY



Solar Production Clipped Energy



Total clipped energy: 0.36%

Month	Solar Production (kWh)	Consumption (kWh)	Self-consumption (kWh)	Clipped Energy (kWh)
Jan	1,684	-	-	-
Feb	2,521	-	-	-
Mar	4,071	-	-	12
Apr	5,946	-	-	1
May	7,001	-	-	97
Jun	7,342	-	-	47
Jul	7,795	-	-	14
Aug	6,258	-	-	9
Sep	4,976	-	-	17
Oct	3,188	-	-	-
Nov	1,802	-	-	-
Dec	1,370	-	-	-







PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
39	JinkoSolar Holding Co. Ltd., JKM-440N-54HL4R-V Tiger Neo N-Type	17.2 kWp			310°	20°




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PV MODULES (CONTINUED)

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
18	JinkoSolar Holding Co. Ltd., JKM-440N-54HL4R-V Tiger Neo N-Type	7.9 kWp			130°	24°
41	JinkoSolar Holding Co. Ltd., JKM-440N-54HL4R-V Tiger Neo N-Type	18 kWp			130°	24°
17	JinkoSolar Holding Co. Ltd., JKM-440N-54HL4R-V Tiger Neo N-Type	7.5 kWp			310°	20°
Total: 115		50.6 kWp				

BILL OF MATERIALS (BOM)

Items	Part Number	Quantity	Price (€)	Total (€)
 SE20K		2		
 S1000		58		
 JKM-440N-54HL4R-V Tiger Neo N-Type		115		

ELECTRICAL DESIGN

Inverters & Storage	Strings per inverter	Optimizers per string	PV modules per string
 1 xSE20K 25.74kW 129% Oversizing	 1 x string	 15 x S1000 (2:1)	 30
	 1 x string	 14 x S1000 (2:1), 1 x S1000 (1:1)	 29
 1 xSE20K 21.01kW 105% Oversizing	 2 x strings	 14 x S1000 (2:1)	 28

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SYSTEM LOSS DIAGRAM



SIMULATION PARAMETERS



LOCATION & GRID

Time zone	GMT+1 (Ljubljana)
Weather station	Maribor (21.78 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
Bi-Facial Albedo	0.30
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%