MFE EKO - PARK D.O.O. LENDAVA

Glavna ulica 111a, Lendava, 9220, Slovenia | Jožef Gerenčer | Aug 9, 2023



SYSTEM OVERVIEW

514 PV modules | 2 Inverters | 257 Optimizers

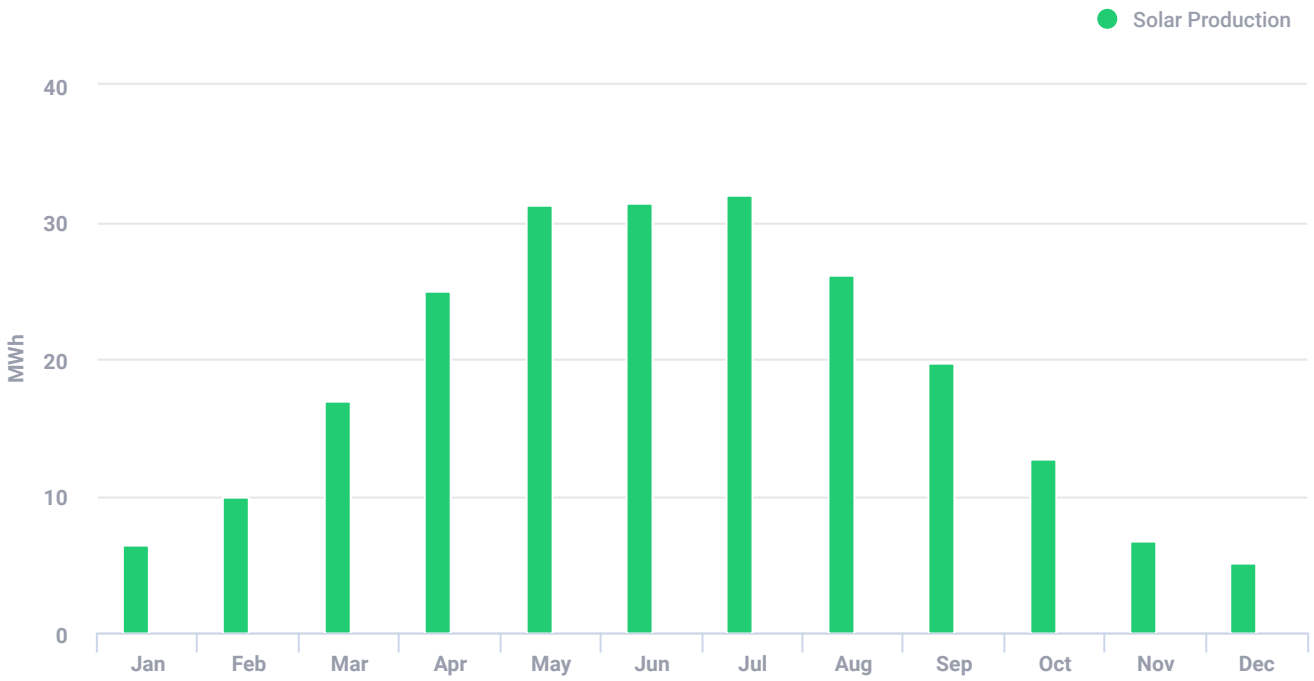
SIMULATION RESULTS

Installed DC Power	Max Achieved AC Power	Annual Energy Production	CO2 Emission Saved	Equivalent Trees Planted
210.74 kWp	178.15 kW	223.25 MWh	56.71 t	2,604

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ESTIMATED MONTHLY ENERGY



Total clipped energy: 0%

PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
112	Akcome, CHASER-M10/108P 410W (user-defined)	45.9 kWp			256°	5°
90	Akcome, CHASER-M10/108P 410W (user-defined)	36.9 kWp			347°	24°
130	Akcome, CHASER-M10/108P 410W (user-defined)	53.3 kWp			167°	10°
28	Akcome, CHASER-M10/108P 410W (user-defined)	11.5 kWp			167°	11°
112	Akcome, CHASER-M10/108P 410W (user-defined)	45.9 kWp			213°	7°
42	Akcome, CHASER-M10/108P 410W (user-defined)	17.2 kWp			347°	32°
Total: 514		210.7 kWp				

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BILL OF MATERIALS (BOM)

Items	Part Number	Quantity	Price (€)	Total (€)
SE90K Manager		2		
P850		257		
CHASER-M10/108P 410W		514		

ELECTRICAL DESIGN

Inverters & Storage	Strings per inverter	Optimizers per string	PV modules per string
1 xSE90K Manager 94.2kW | 105% Oversizing	**Center Unit**		
	1 x string	21 x P850 (2:1)	42
	1 x string	20 x P850 (2:1)	40
	Left Unit		
	2 x strings	16 x P850 (2:1)	32
	1 x string	15 x P850 (2:1)	30
	Right Unit		
	1 x string	23 x P850 (2:1)	46
	1 x string	19 x P850 (2:1)	38

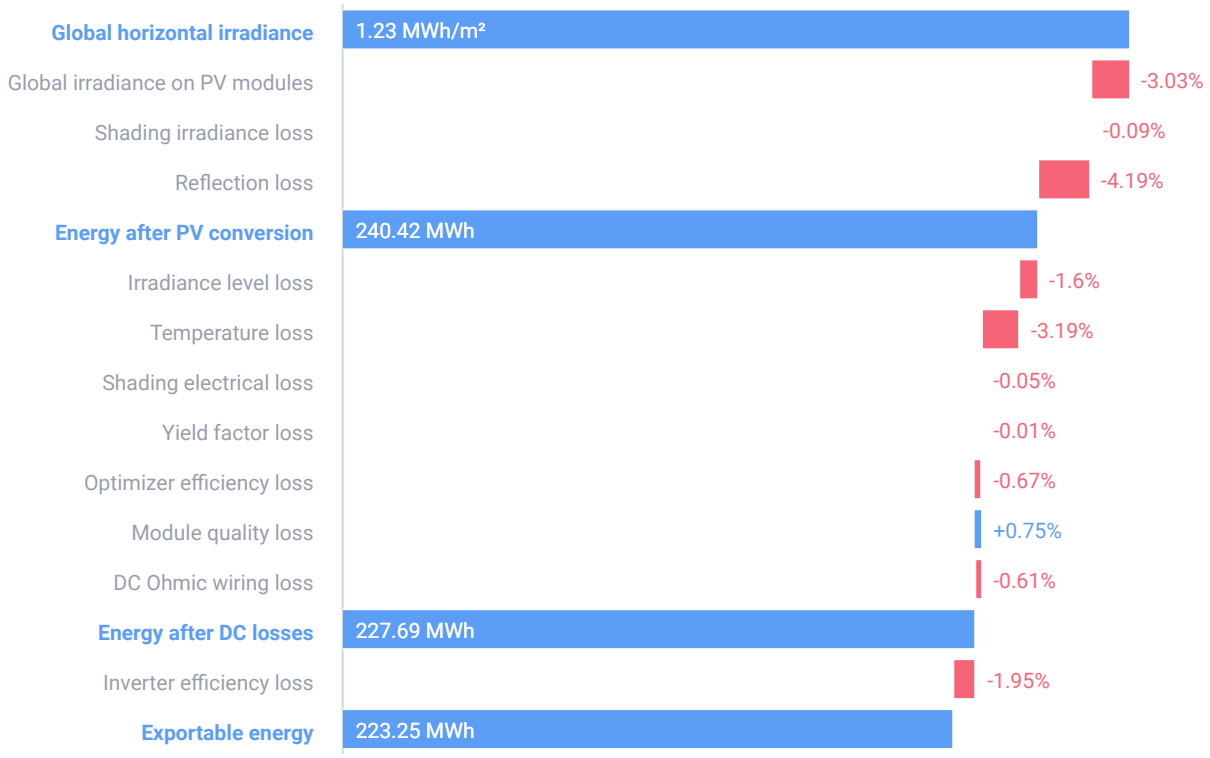
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ELECTRICAL DESIGN (CONTINUED)

Inverters & Storage	Strings per inverter	Optimizers per string	PV modules per string
1 xSE90K Manager 93.86kW | 104% Oversizing	**Center Unit**		
	1 x string	16 x P850 (2:1)	32
	1 x string	20 x P850 (2:1)	40
	Left Unit		
	2 x strings	16 x P850 (2:1)	32
	1 x string	19 x P850 (2:1)	38
	Right Unit		
	2 x strings	20 x P850 (2:1)	40

SYSTEM LOSS DIAGRAM



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SIMULATION PARAMETERS

LOCATION & GRID

Time zone	GMT+2 (Ljubljana)
Weather station	Murska Sobota (21.91 km away)
Station altitude	182 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%