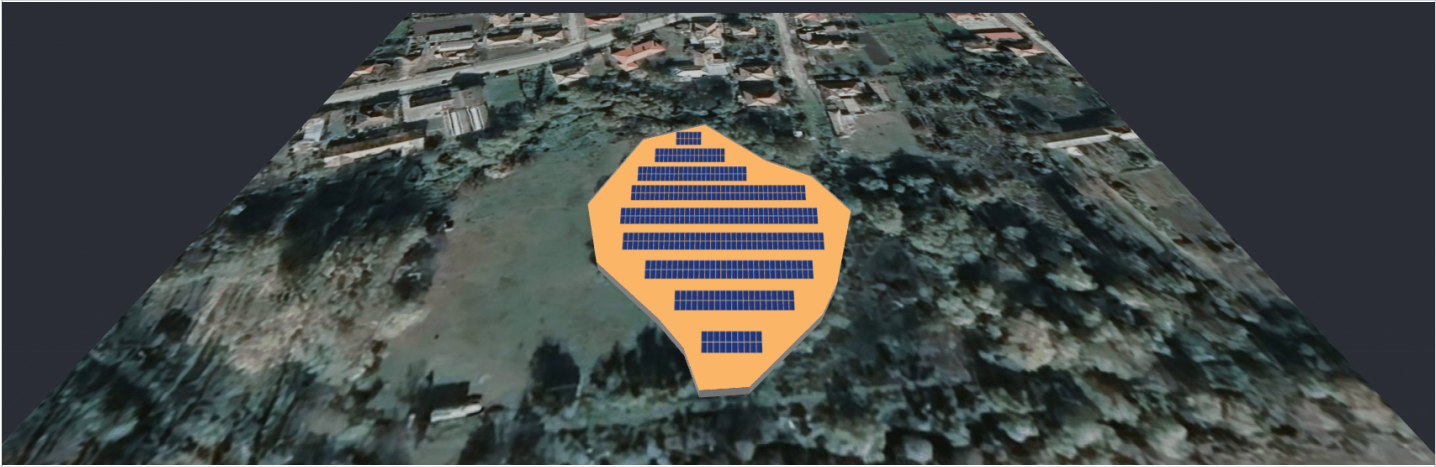


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SYSTEM OVERVIEW



448 PV modules



3 Inverters



448 Optimizers

NOTES

GPS координати: 43°13'44.7"N 26°29'13.9"E

SIMULATION RESULTS



Installed DC Power

300.16 kWp



Max Achieved AC Power

297.62 kW



Annual Energy Production

443.77 MWh



CO2 Emission Saved

208.57 t



Equivalent Trees Planted

9,580



Max Achieved DC Power

300.16 kW



DC/AC Oversizing

100 %



Max Active AC Power

299.70 kW



Performance Ratio

88 %



Performance Index

1,478 kWh/kWp

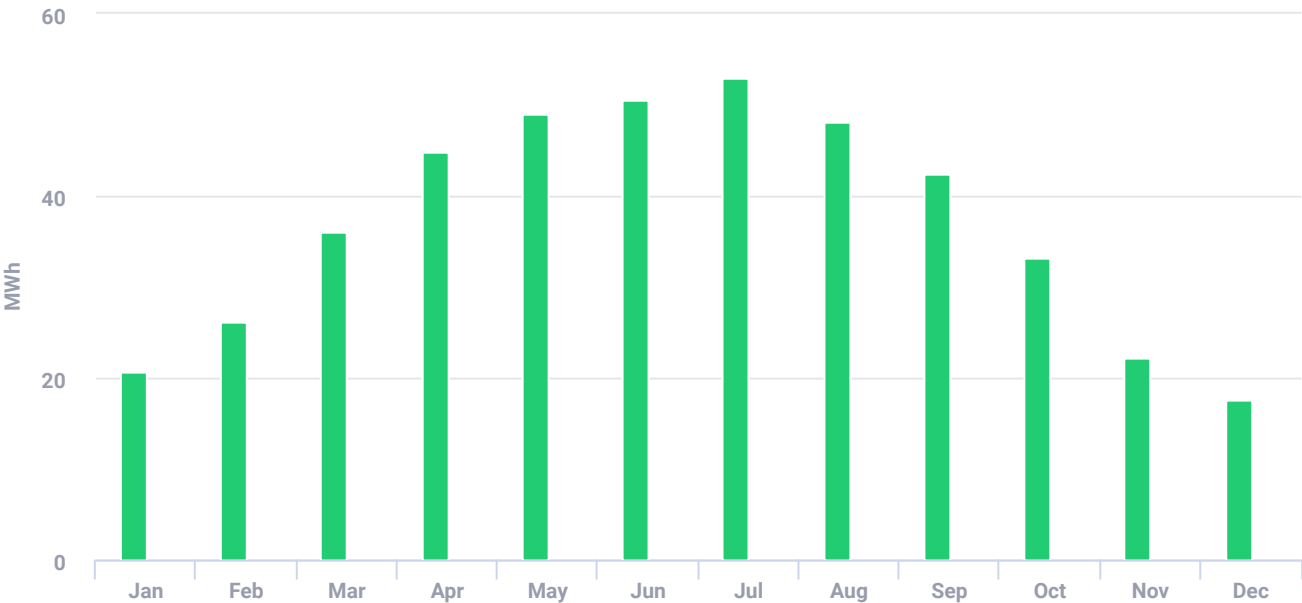
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ESTIMATED MONTHLY ENERGY

Solar Production Clipped Energy



Total clipped energy: 0%

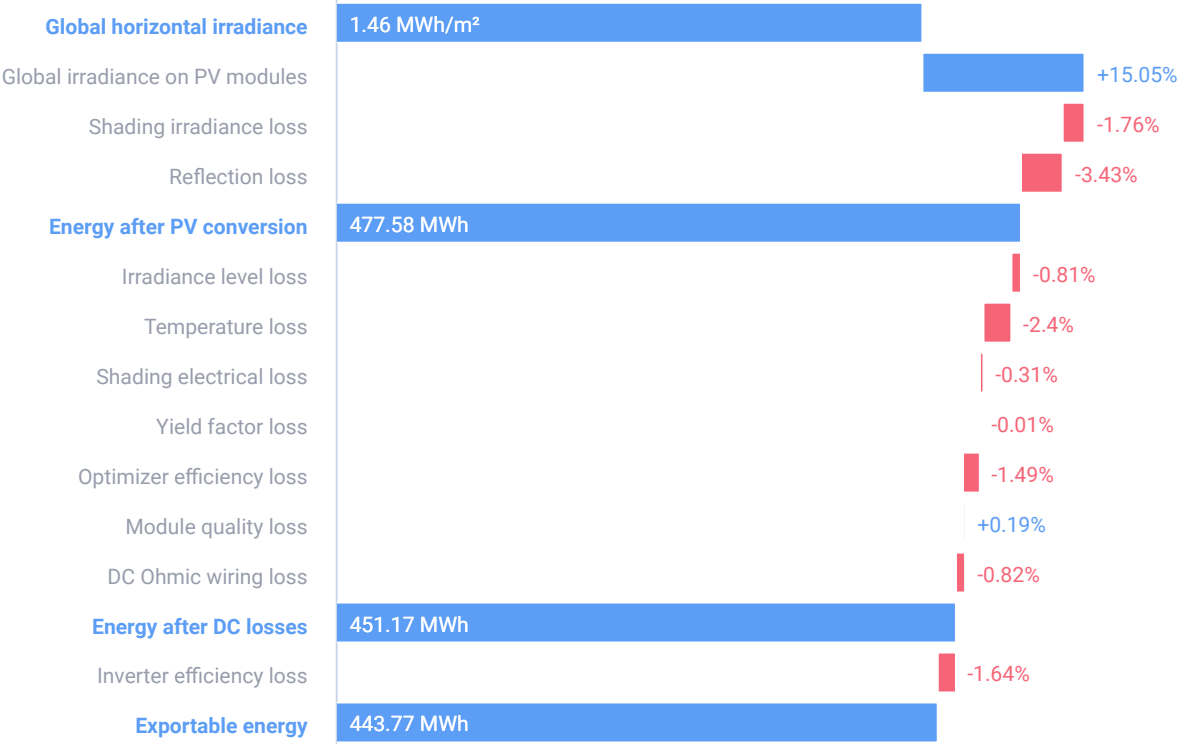
PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
448	Trina Solar Energy, Vertex TSM - DE21 (user-defined)	300.2 kWp			180°	24°
Total: 448		300.2 kWp				

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SYSTEM LOSS DIAGRAM



SIMULATION PARAMETERS



LOCATION & GRID

Time zone	GMT+2 (Sofia)
Weather station	Razgrad (33.89 km away)
Station altitude	196 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%

