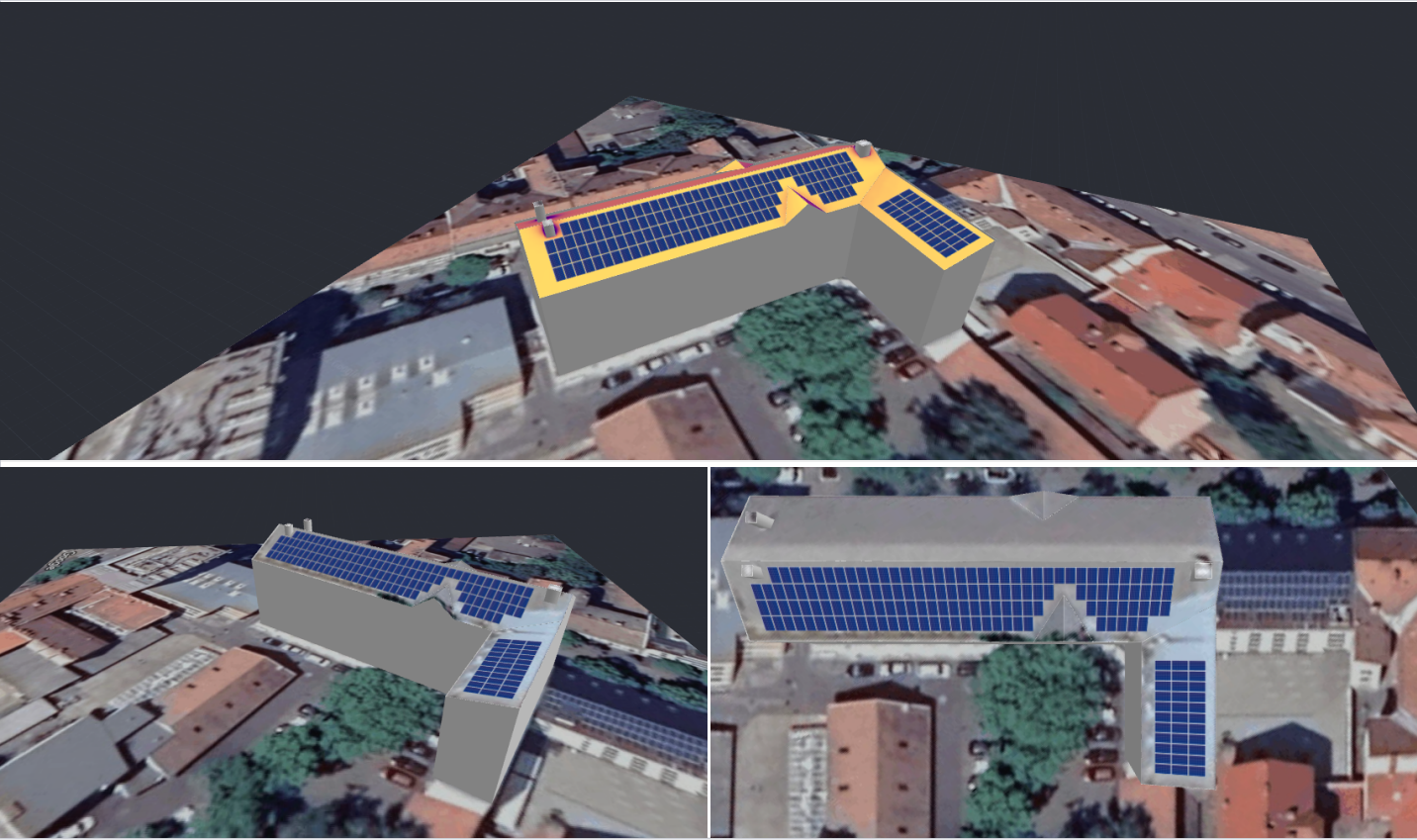


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SYSTEM OVERVIEW

 173 PV modules

 1 Inverters

 173 Optimizers

SIMULATION RESULTS



Installed DC Power
70.23 kWp



Max Achieved AC Power
66.60 kW



Annual Energy Production
92.87 MWh



CO2 Emission Saved
24.15 t



Equivalent Trees Planted
1,109



Max Achieved DC Power
68.62 kW



DC/AC Oversizing
103 %



Max Active AC Power
66.60 kW



Performance Ratio
89 %



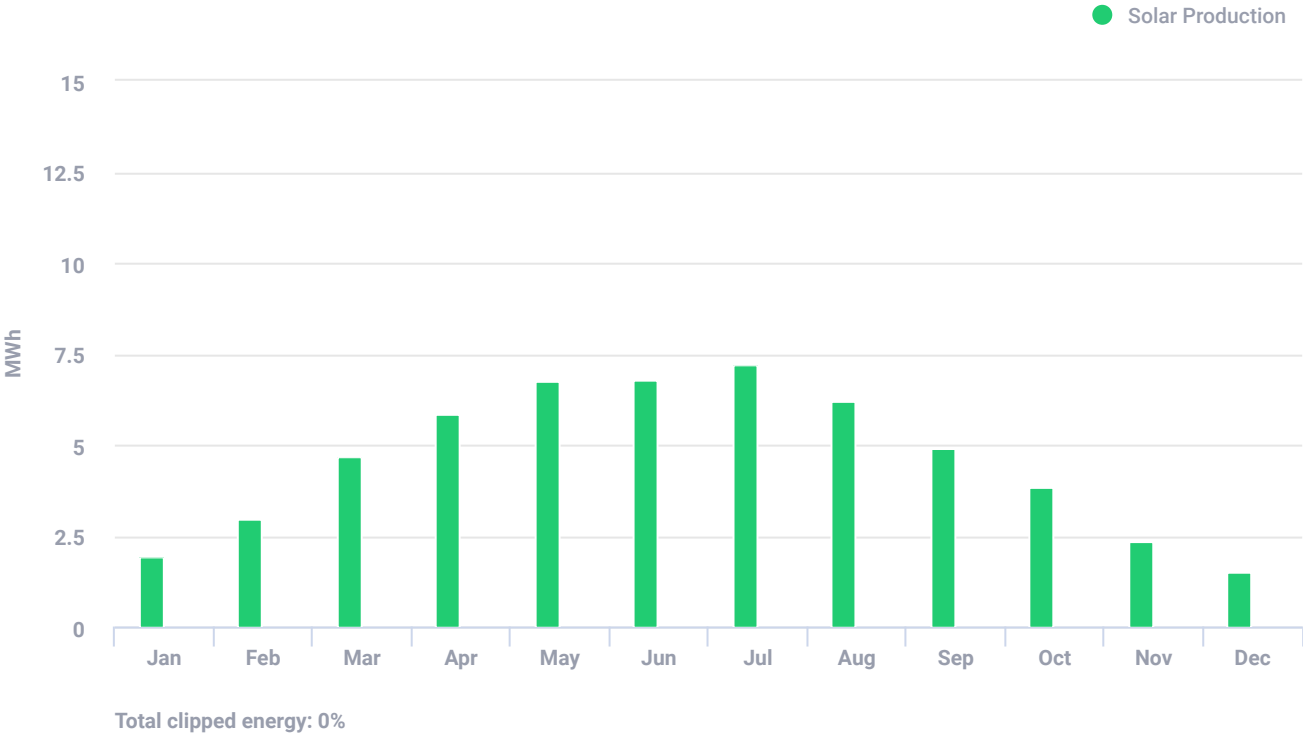
Performance Index
1,322 kWh/kWp

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ESTIMATED MONTHLY ENERGY



PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
33	Risen Energy Co. Ltd., RSM40-8-410M	13.5 kWp			218°	15°
140	Risen Energy Co. Ltd., RSM40-8-405M	56.7 kWp			128°	27°
Total: 173		70.2 kWp				

BILL OF MATERIALS (BOM)












Items	Quantity	Price (Ft)	Total (Ft)
SE66.6K Manager	1		
S440	173		
RSM40-8-410M	33		
RSM40-8-405M	140		

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ELECTRICAL DESIGN

Inverters & Storage	Strings per inverter	Optimizers per string	PV modules per string
<div> 1 x SE66.6K Manager 68.62kW 103%</div>	Center		
	⌚ 3 x strings	 29 x S440	 29
	Left		
	⌚ 1 x string	 26 x S440	 26
	⌚ 1 x string	 27 x S440	 27
	⌚ 1 x string	 16 x S440	 16
	⌚ 1 x string	 17 x S440	 17

SYSTEM LOSS DIAGRAM



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SIMULATION PARAMETERS



LOCATION & GRID

Time zone	GMT+2 (Budapest)
Weather station	Szeged (3.78 km away)
Station altitude	74 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 U_c (const) Flush mount	20
Thermal loss factor U_c (const) Tilted	29
LID loss factor	0%
System unavailability	0%