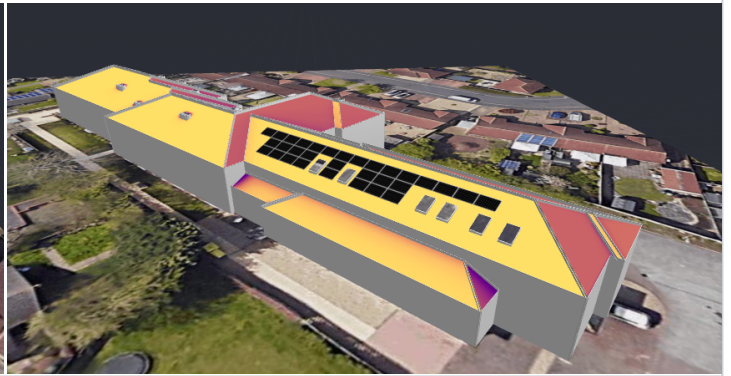


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SYSTEM OVERVIEW

 31 PV modules

 1 Inverter

 31 Optimizers

SIMULATION RESULTS



Installed DC Power

12.56 kWp



Max Achieved AC Power

10.00 kW



Annual Energy Production

11.52 MWh



CO2 Emission Saved (Annually)

2.23 t



Equivalent Trees Planted (Annually)

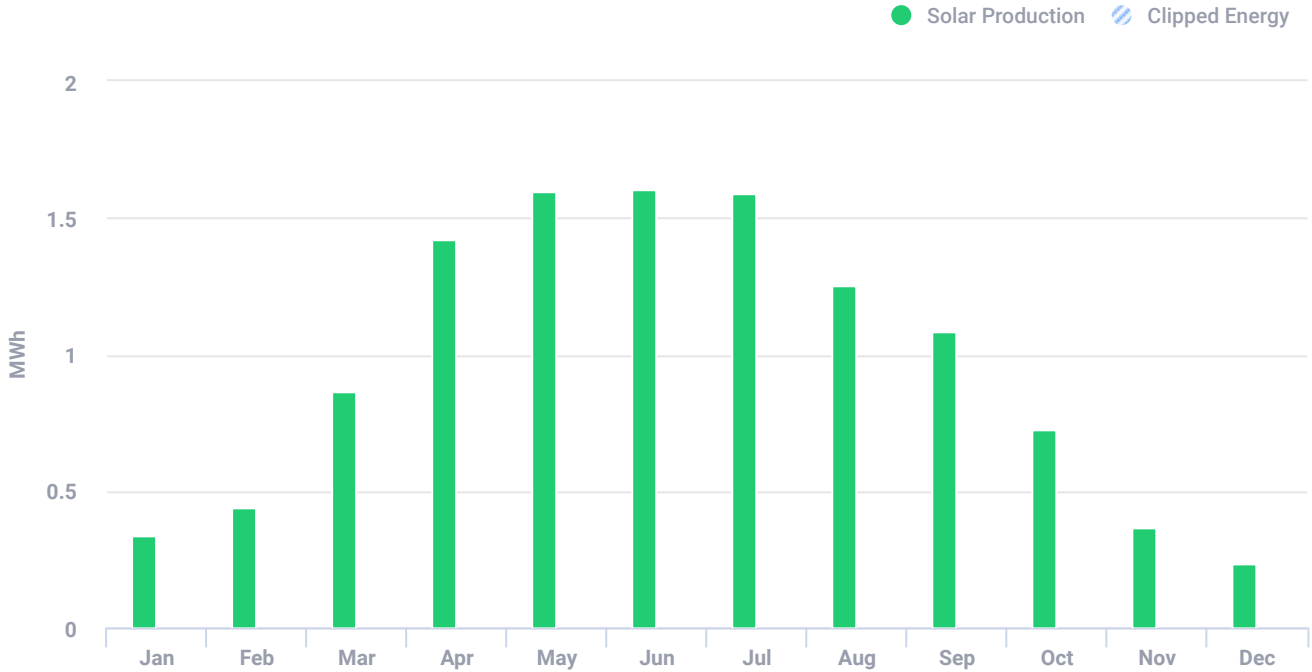
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ESTIMATED MONTHLY ENERGY



Total clipped energy: 0.01%

PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
31	Viridian Concepts Ltd., PV16-405-M10 (user-defined)	12.6 kWp			137°	25°
Total:	31	12.6 kWp				

BILL OF MATERIALS (BOM)





Items	Part Number	Quantity	Price (£)	Total (£)
SE10K Home Wave		1		
S440 input up to 440Wp, Max Isc 14.5A	S440-1GM4MRM	31	0.00	0.00
PV16-405-M10		31		

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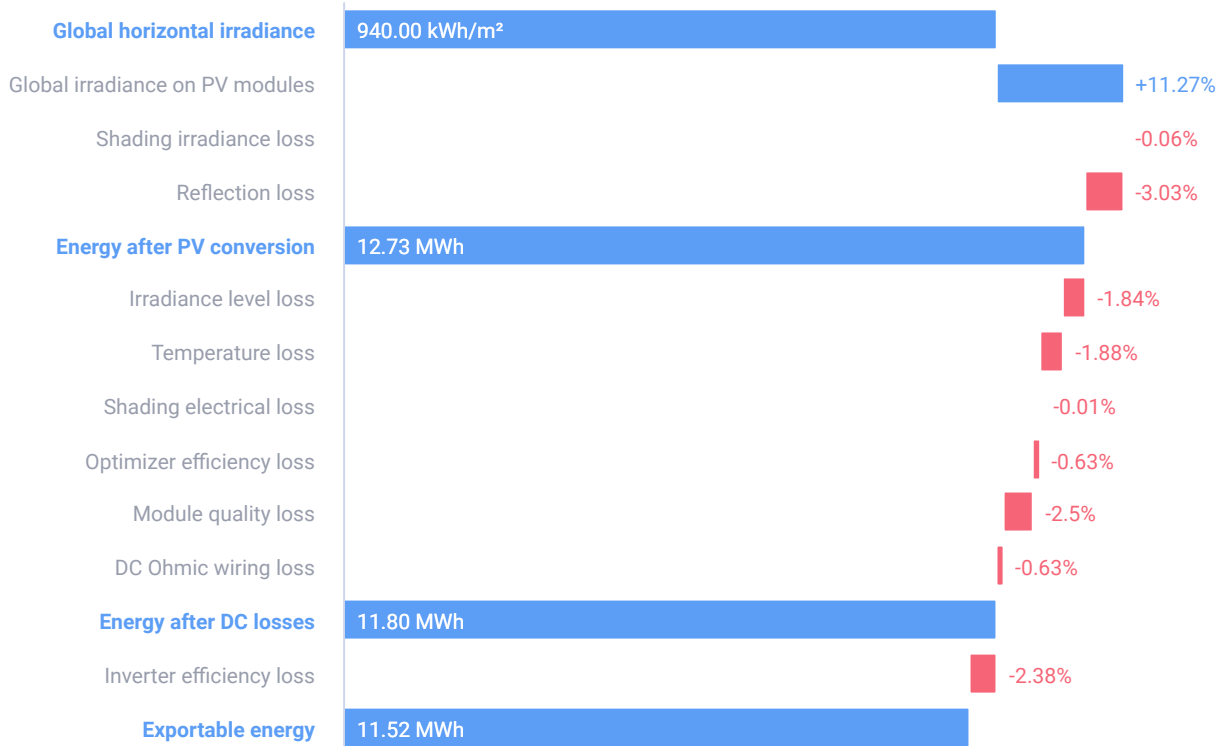
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ELECTRICAL DESIGN

Inverters & Storage	Strings per inverter	Optimizers per string	PV modules per string
 1 x SE10K Home Wave 12.13kW 121% Oversizing	 1 x string	 31 x S440	 31

SYSTEM LOSS DIAGRAM



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SIMULATION PARAMETERS



LOCATION & GRID

Time zone	GMT (London)
Weather station	Lincoln (6.62 km away)
Station altitude	14 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 U_c (const) Flush mount	20
Thermal loss factor U_c (const) Tilted	29
LID loss factor	0%
System unavailability	0%