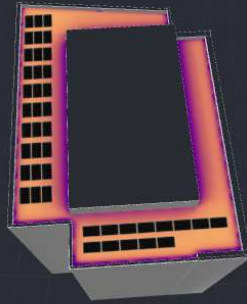


VINE4484.01

Eyre Street Hill 15-29, London, EC1R 5LB, United Kingdom | 22 Sept 2023



SYSTEM OVERVIEW

 **43** PV modules

 **1** Inverter

 **43** Optimizers

SIMULATION RESULTS



Installed DC Power

16.77 kWp



Max Achieved AC Power

15.90 kW



Annual Energy Production

14.92 MWh



CO2 Emission Saved (Annually)

2.89 t

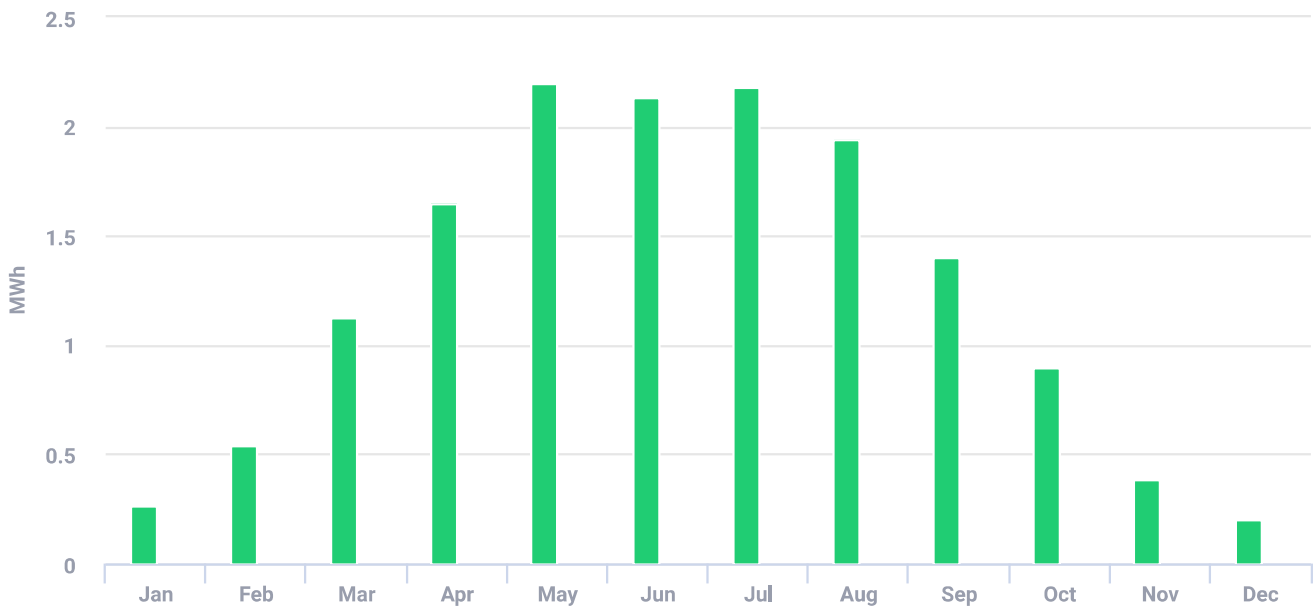


Equivalent Trees Planted (Annually)

133

ESTIMATED MONTHLY ENERGY

● Solar Production



Total clipped energy: 0%

VINE4484.01

Eyre Street Hill 15-29, London, EC1R 5LB, United Kingdom | 22 Sept 2023



PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
30	SunPower, SPR-MAX3-390-COM	11.7 kWp			174°	10°
13	SunPower, SPR-MAX3-390-COM	5.1 kWp			174°	10°
Total:	43	16.8 kWp				

BILL OF MATERIALS (BOM)

Items	Part Number	Quantity	Price (£)	Total (£)
SE16K Three Phase Inverter, 16kW	SE16K-RW0T0BNN4	1	0.00	0.00
S500B input up to 500Wp, Max Isc 15A	S500b-1GM4MRM	43		
SPR-MAX3-390-COM		43		

ELECTRICAL DESIGN

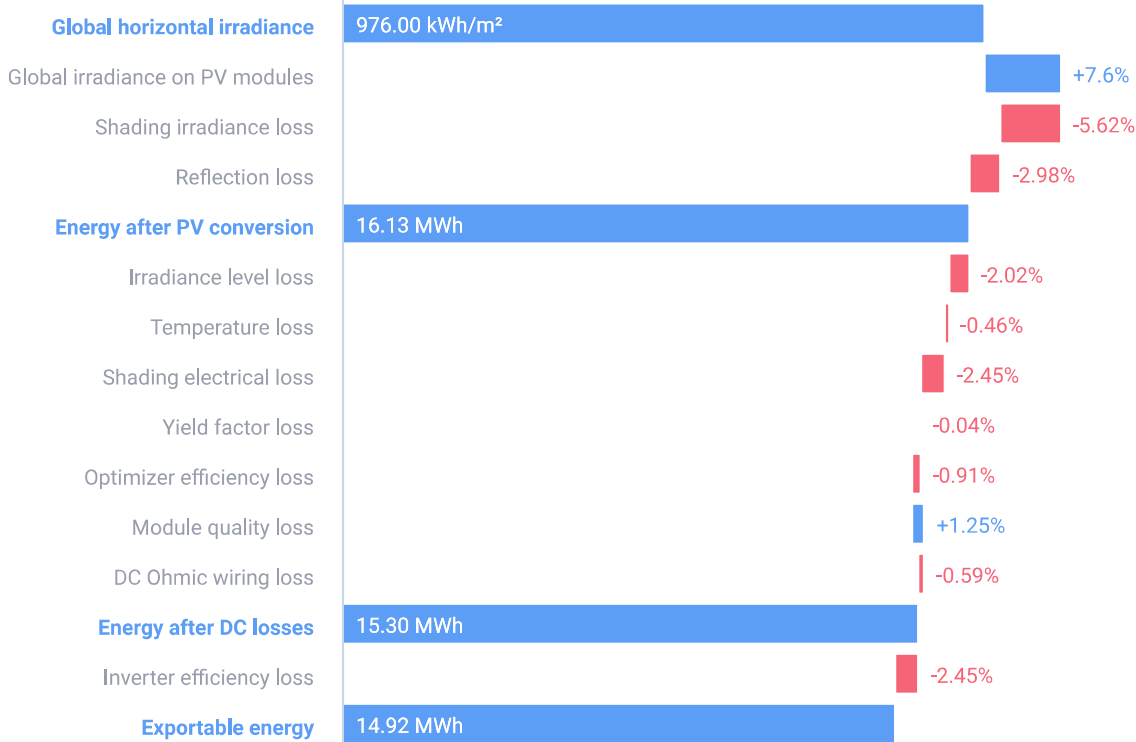
Inverters & Storage	Strings per inverter	Optimizers per string	PV modules per string
1 x SE16K 15.9kW 99% Oversizing	1 x string	21 x S500B	21
	1 x string	22 x S500B	22

VINE4484.01

Eyre Street Hill 15-29, London, EC1R 5LB, United Kingdom | 22 Sept 2023



SYSTEM LOSS DIAGRAM



SIMULATION PARAMETERS



LOCATION & GRID

Time zone	BST (London)
Weather station	Southwark (2.64 km away)
Station altitude	11 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%