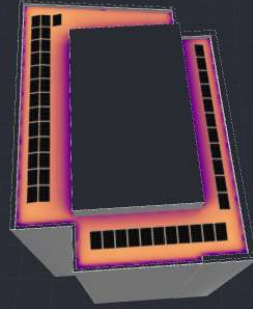


VINE4484.07


Eyre Street Hill 15-29, London, EC1R 5LB, United Kingdom | 7 Aug 2023



SYSTEM OVERVIEW

 49 PV modules

 1 Inverter

 49 Optimizers

SIMULATION RESULTS



Installed DC Power

20.09 kWp



Max Achieved AC Power

16.00 kW



Annual Energy Production

17.06 MWh



CO2 Emission Saved

3.3 t

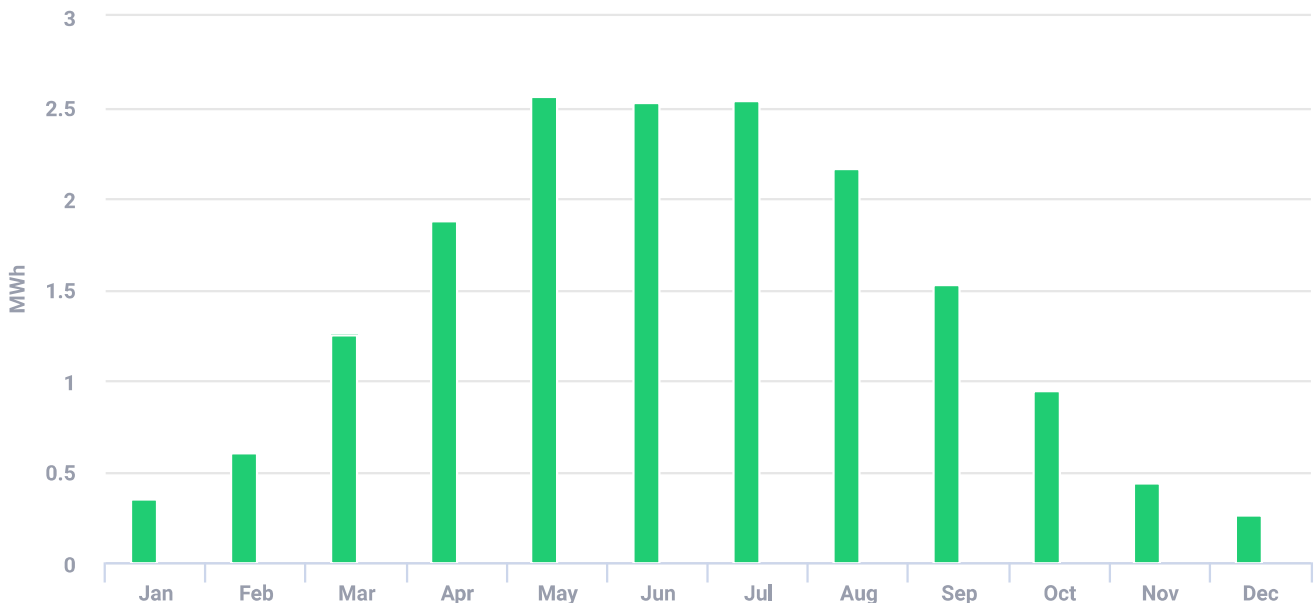


Equivalent Trees Planted

152

ESTIMATED MONTHLY ENERGY

● Solar Production



Total clipped energy: 0%

VINE4484.07

Eyre Street Hill 15-29, London, EC1R 5LB, United Kingdom | 7 Aug 2023



PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
11	Canadian Solar Inc., CS6R-410MS-EVO2-BF (user-defined)	4.5 kWp			84°	10°
13	Canadian Solar Inc., CS6R-410MS-EVO2-BF (user-defined)	5.3 kWp			84°	10°
14	Canadian Solar Inc., CS6R-410MS-EVO2-BF (user-defined)	5.7 kWp			264°	10°
11	Canadian Solar Inc., CS6R-410MS-EVO2-BF (user-defined)	4.5 kWp			174°	10°
Total:	49	20.1 kWp				

BILL OF MATERIALS (BOM)

Items	Part Number	Quantity	Price (£)	Total (£)
SE16K Three Phase Inverter, 16kW	SE16K-RW0T0BNN4	1	0.00	0.00
S440 input up to 440Wp, Max Isc 14.5A	S440-1GM4MRM	49	0.00	0.00
CS6R-410MS-EVO2-BF		49		

ELECTRICAL DESIGN

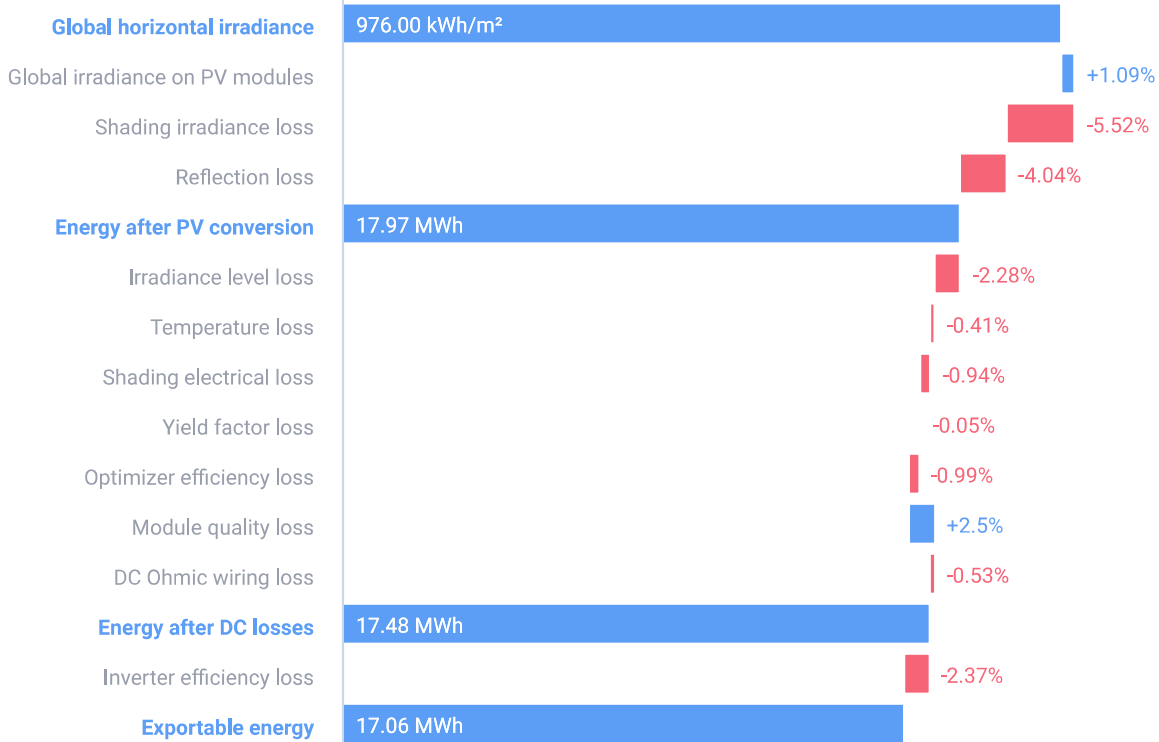
Inverters & Storage	Strings per inverter	Optimizers per string	PV modules per string
1 x SE16K 17.94kW 112% Oversizing	1 x string	22 x S440	22
	1 x string	27 x S440	27

VINE4484.07

Eyre Street Hill 15-29, London, EC1R 5LB, United Kingdom | 7 Aug 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%