

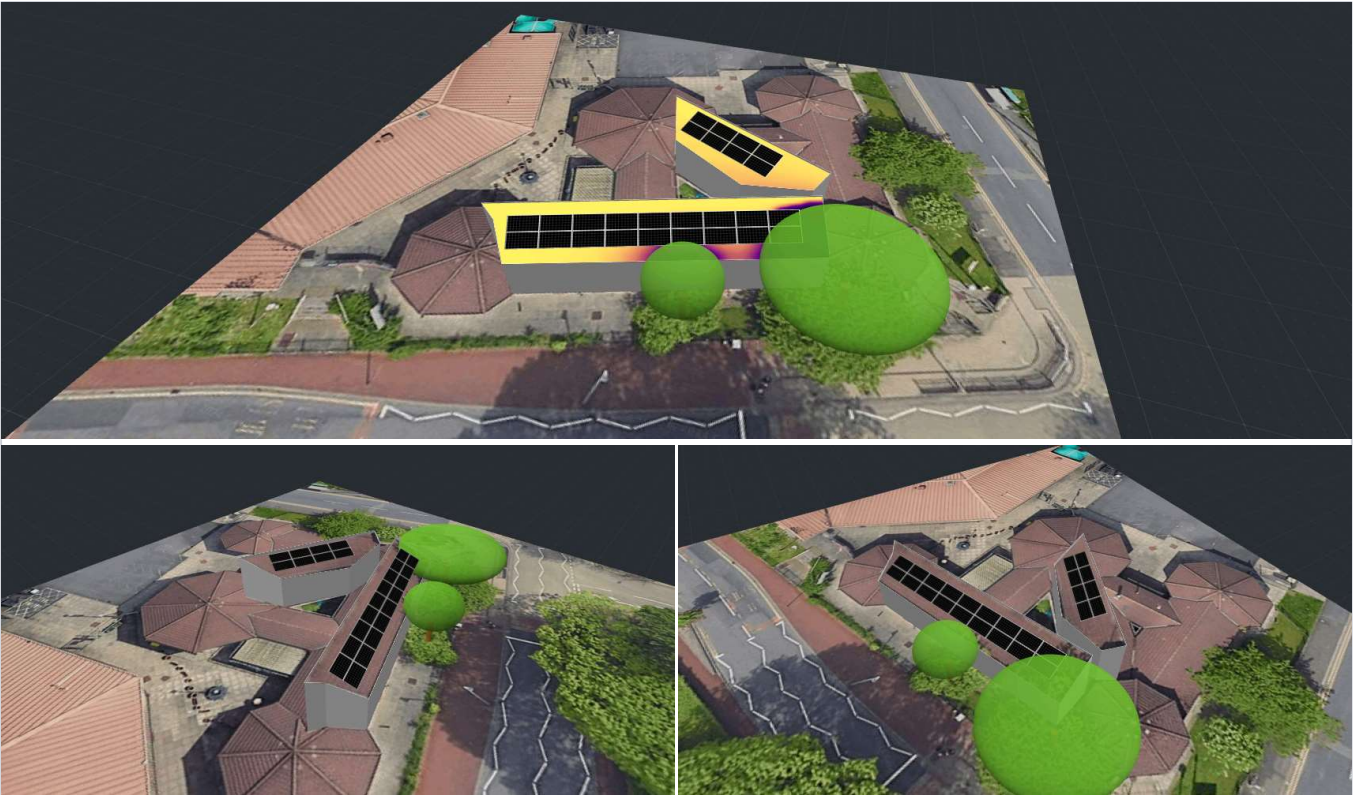
CWC MCC - WELLS CENTRE

North Road 101, Manchester, M11 4NE, United Kingdom | 10 Oct 2024



NOTIFICATIONS

 Warning: Batteries are not connected to a StorEdge inverter(s) (SE10K-RWB48 Home Hub).



SYSTEM OVERVIEW

 26 PV modules

 1 Inverter

 26 Optimizers

SIMULATION RESULTS



Installed DC Power
13.00 kWp



Max Achieved AC Power
10.00 kW



Annual Energy Production
9.83 MWh



CO2 Emission Saved (Annually)
1.9 t



Equivalent Trees Planted (Annually)
87



Max Achieved DC Power
12.61 kW



DC/AC Oversizing
126 %



Max Active AC Power
10.00 kW



Performance Ratio
76 %

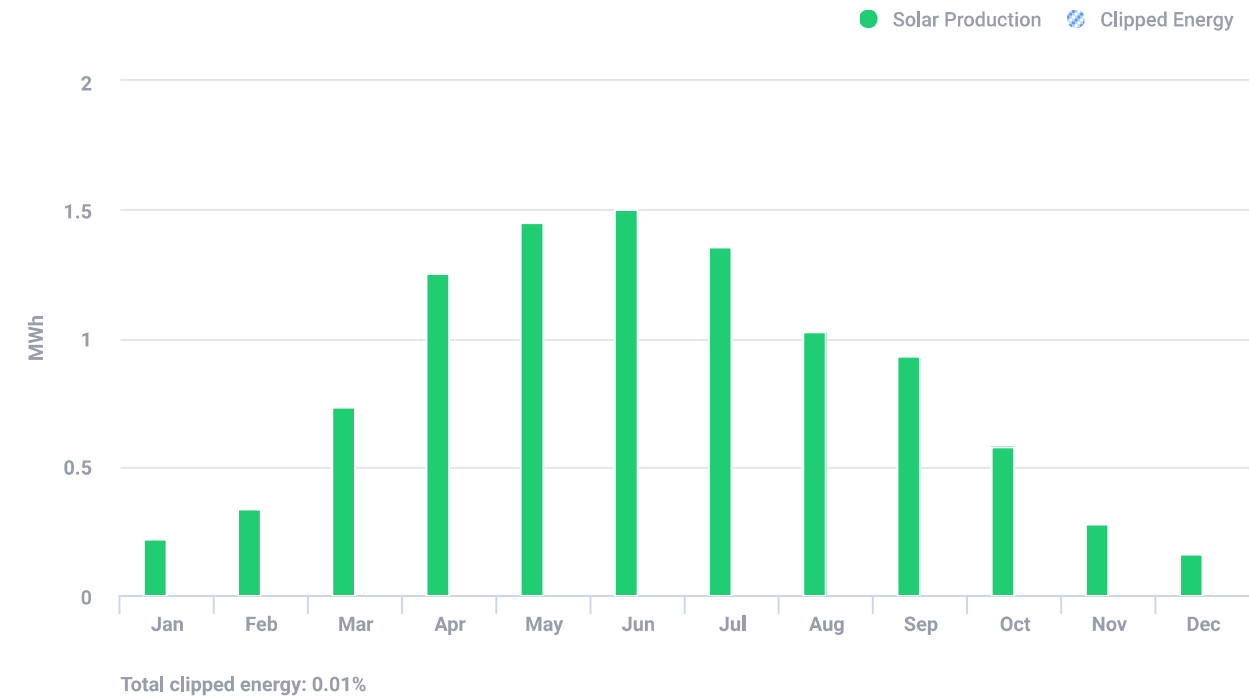


Performance Index
756 kWh/kWp

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ESTIMATED MONTHLY ENERGY



Month	Solar Production (kWh)	Consumption (kWh)	Self-consumption (kWh)	Clipped Energy (kWh)
Jan	220	-	-	-
Feb	339	-	-	-
Mar	732	-	-	-
Apr	1,254	-	-	1
May	1,453	-	-	-
Jun	1,500	-	-	-
Jul	1,355	-	-	-
Aug	1,025	-	-	-
Sep	928	-	-	-
Oct	576	-	-	-
Nov	280	-	-	-
Dec	163	-	-	-

PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
8	JA Solar, JAM66S30-500/MR (1000V)	4 kWp			205°	20°

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PV MODULES (CONTINUED)

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
18	JA Solar, JAM66S30-500/MR (1000V)	9 kWp			161°	25°
Total:	26	13 kWp				

BILL OF MATERIALS (BOM)

Items	Part Number	Quantity	Price (£)	Total (£)
SE10K-RWB48 Home Hub 10kW SolarEdge Home Hub Three Phase - "backup ready" Inverter	SE10K-RWB48BFN4	1	0.00	0.00
S500 input up to 500Wp, Max Isc 15A	S500-1GM4MRM	26	0.00	0.00
JAM66S30-500/MR (1000V)		26		

ELECTRICAL DESIGN

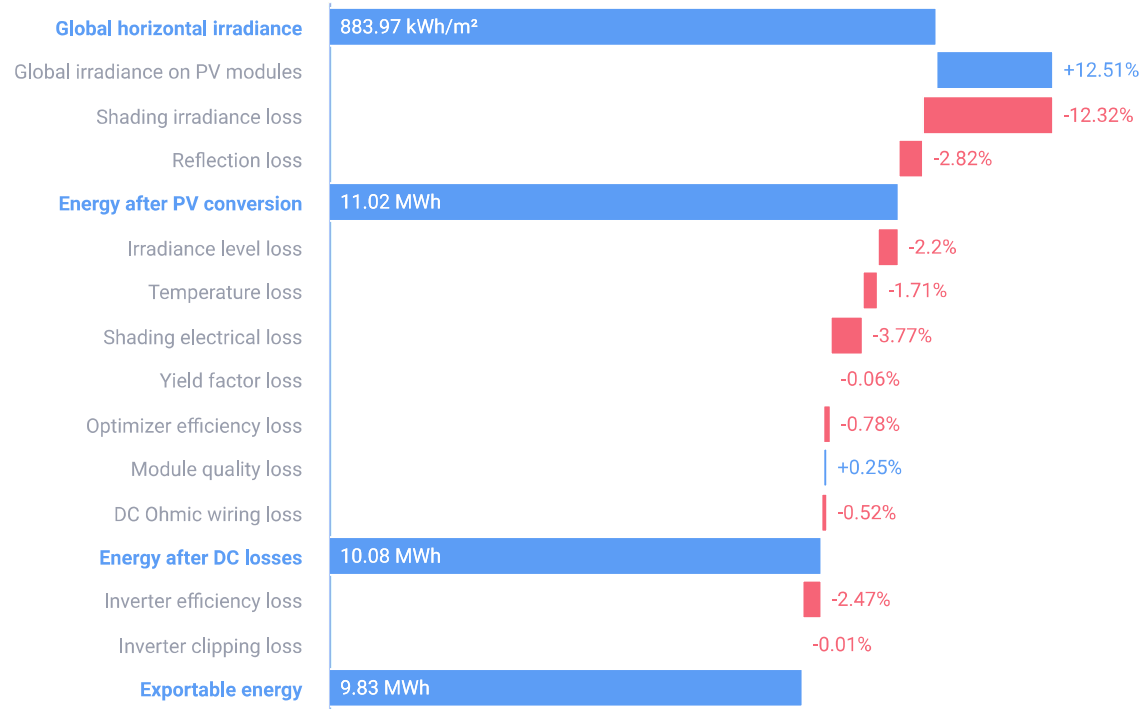
Inverters & Storage	Strings per inverter	Optimizers per string	PV modules per string
1 xSE10K-RWB48 Home Hub 12.61kW 126% Oversizing	1 x string	26 x S500	26

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SYSTEM LOSS DIAGRAM



SIMULATION PARAMETERS



LOCATION & GRID

Time zone	BST (London)
Weather station	Manchester (16.36 km away)
Station altitude	67 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 Uc (const) Flush mount	20
Thermal loss factor Uc (const) Tilted	29
LID loss factor	0%
System unavailability	0%