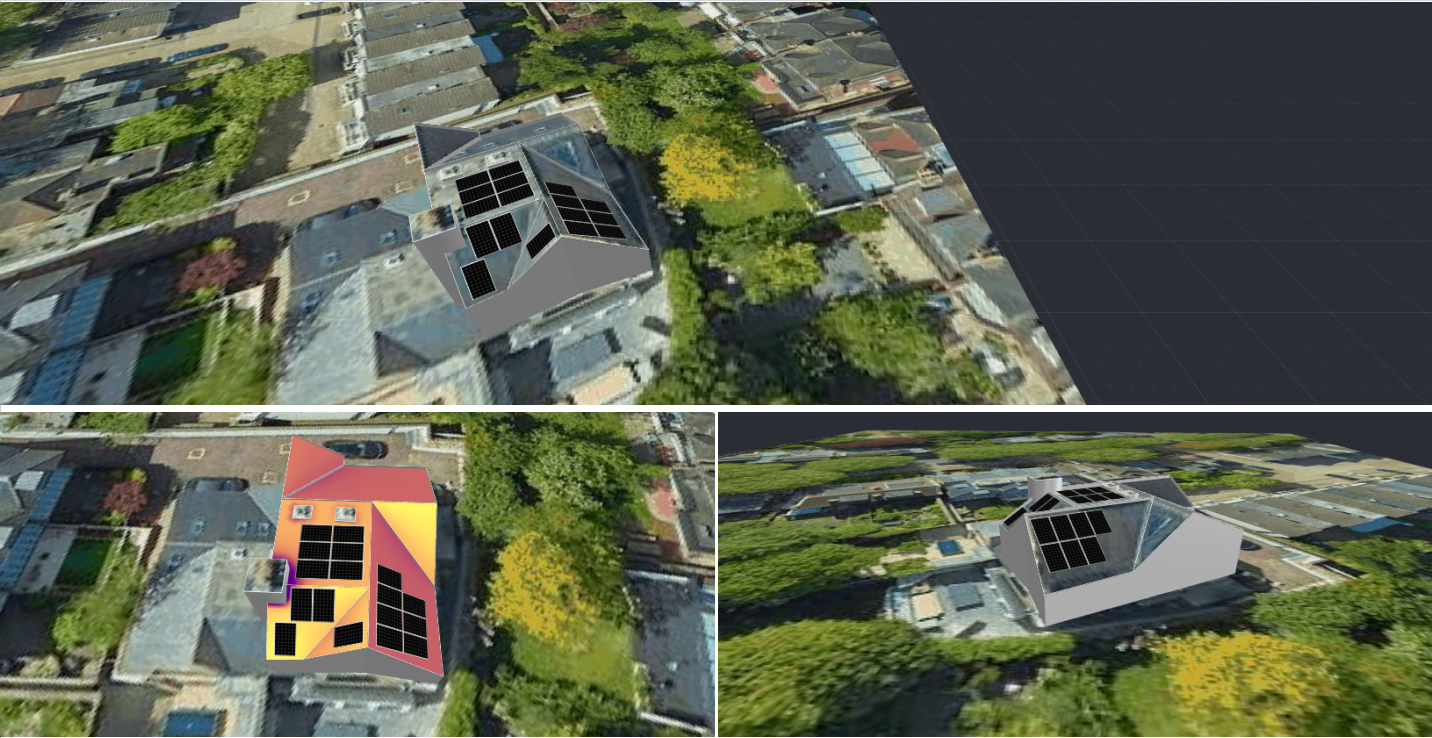


26E NORTH HILL (4ROOFS)

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STORAGE

SolarEdge Home Battery 10kWh

Self-consumption
66%

Self-consumption from Batteries
30%



Total Storage Capacity
10 kWh

Total Battery Power
5 kW

SYSTEM OVERVIEW

 17 PV modules

 1 Inverter

 17 Optimizers

 1 Battery

SIMULATION RESULTS


Installed DC Power
7.14 kWp


Max Achieved AC Power
5.00 kW


Annual Energy Production
5.67 MWh

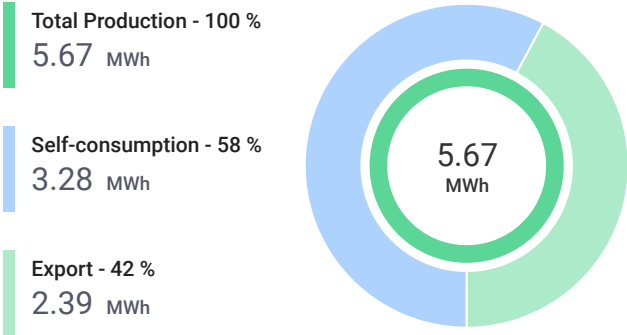

CO2 Emission Saved (Annually)
1.1 t


Equivalent Trees Planted (Annually)
50

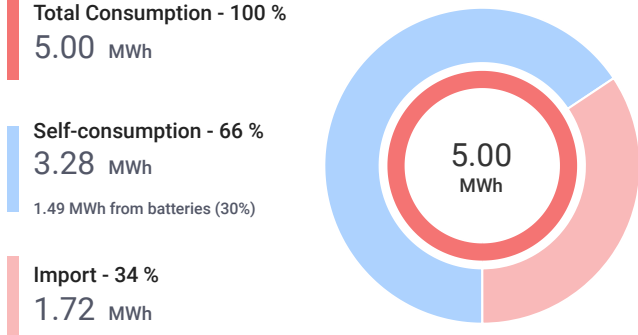
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SYSTEM PRODUCTION



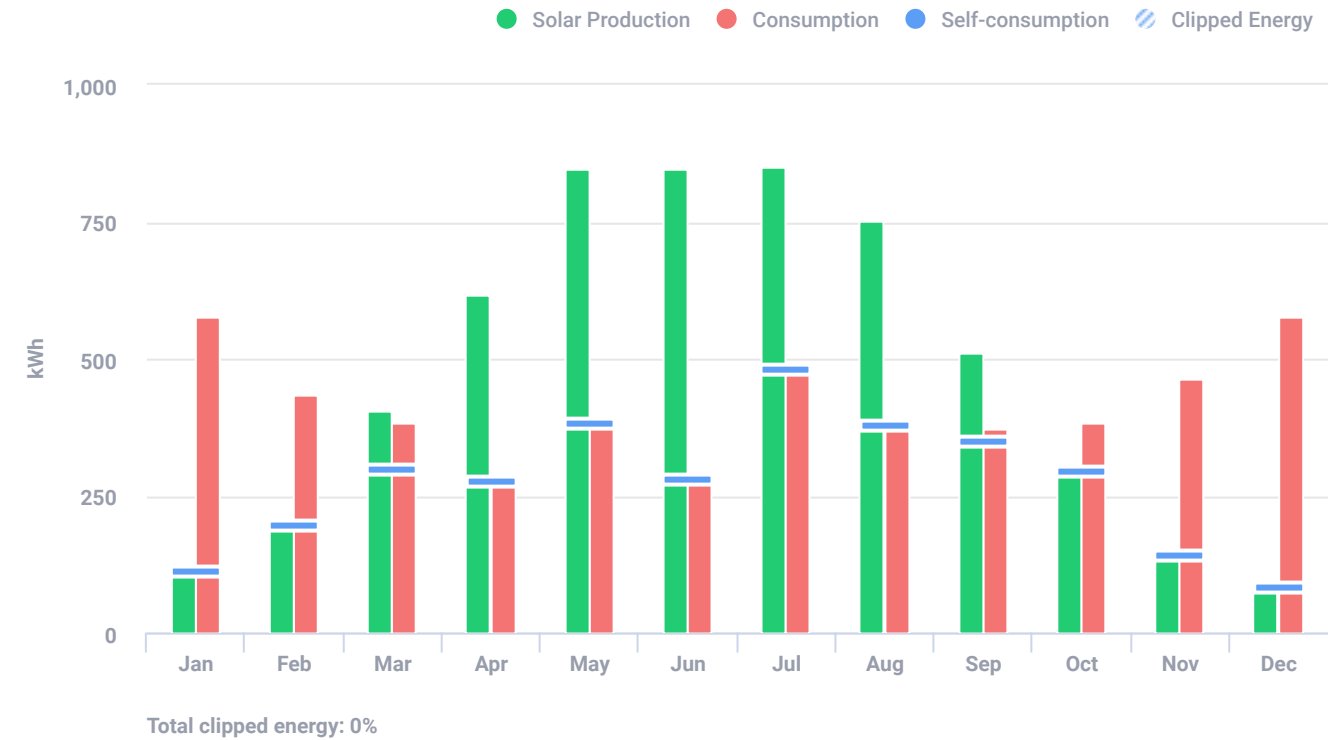
CONSUMPTION



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ESTIMATED MONTHLY ENERGY



Month	Solar Production (kWh)	Consumption (kWh)	Self-consumption (kWh)	Clipped Energy (kWh)
Jan	113	577	113	-
Feb	197	434	197	-
Mar	406	383	299	-
Apr	619	282	277	-
May	848	383	383	-
Jun	847	282	282	-
Jul	849	480	480	-
Aug	754	383	379	-
Sep	510	371	350	-
Oct	304	383	294	-
Nov	142	465	142	-
Dec	85	577	85	-

PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
3	REC Solar AS, REC 420 AA Pure-R (Alpha)	1.3 kWp			150°	32°

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PV MODULES (CONTINUED)

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
1	REC Solar AS, REC 420 AA Pure-R (Alpha)	0.4 kWp			240°	32°
7	REC Solar AS, REC 420 AA Pure-R (Alpha)	2.9 kWp			60°	37°
6	REC Solar AS, REC 420 AA Pure-R (Alpha)	2.5 kWp			180°	0°
Total:	17	7.1 kWp				

ESTIMATED BILL SAVINGS YEAR 1

Avg. Monthly			
Current Monthly Bill	Monthly Bill with SolarEdge	Net Bill Monthly Savings	Bill Offset
£ 133.83	£ 38.33	£ 95.51	71.36 %
Estimated Net Lifetime Bill Savings			
£ 21,168			
Utility Provider: UK provider Utility Rate: 32p (0.32 £/kWh)			
Export Rate: 4p export (0.04 £/kWh)			

BILL OF MATERIALS (BOM)

Items	Part Number	Quantity	Price (£)	Total (£)
 SE5000H 5kW "Home Wave" Single Phase Inverter	SE5000H-RW000BEN4	1	0.00	0.00
 S500B input up to 500Wp, Max Isc 15A	S500b-1GM4MRM	17	0.00	0.00
 SolarEdge Home Battery 10kWh 10kWh Single Phase battery (400v)	BAT-10K1PS0B-02	1	0.00	0.00

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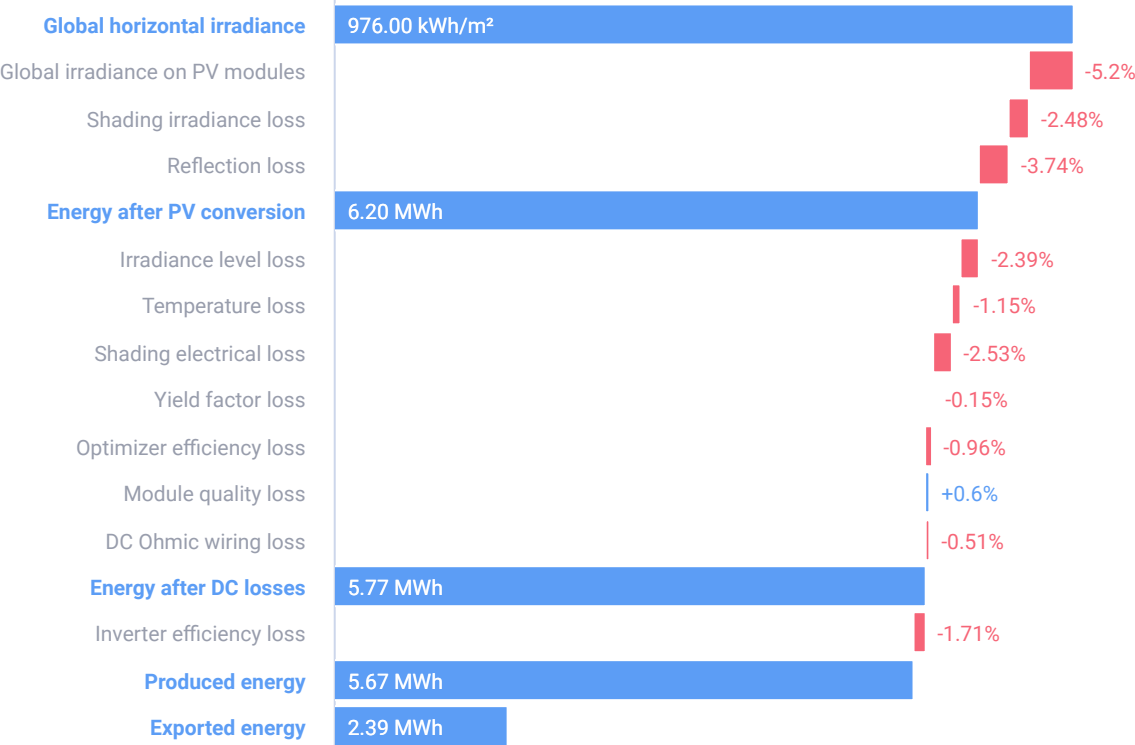
BILL OF MATERIALS (BOM) (CONTINUED)

Items	Part Number	Quantity	Price (£)	Total (£)
 REC 420 AA Pure-R (Alpha)		17		

ELECTRICAL DESIGN

Inverters & Storage	Strings per inverter	Optimizers per string	PV modules per string
 1 x SE5000H 5.85kW 117% Oversizing	 1 x string	 10 x S500B	 10
 1 x SolarEdge Home Battery 10kWh	 1 x string	 7 x S500B	 7

SYSTEM LOSS DIAGRAM



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SIMULATION PARAMETERS



LOCATION & GRID

Time zone	GMT+1 (London)
Weather station	Southwark (9.3 km away)
Station altitude	11 m
Station data source	Meteonorm 7.1
Grid	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%