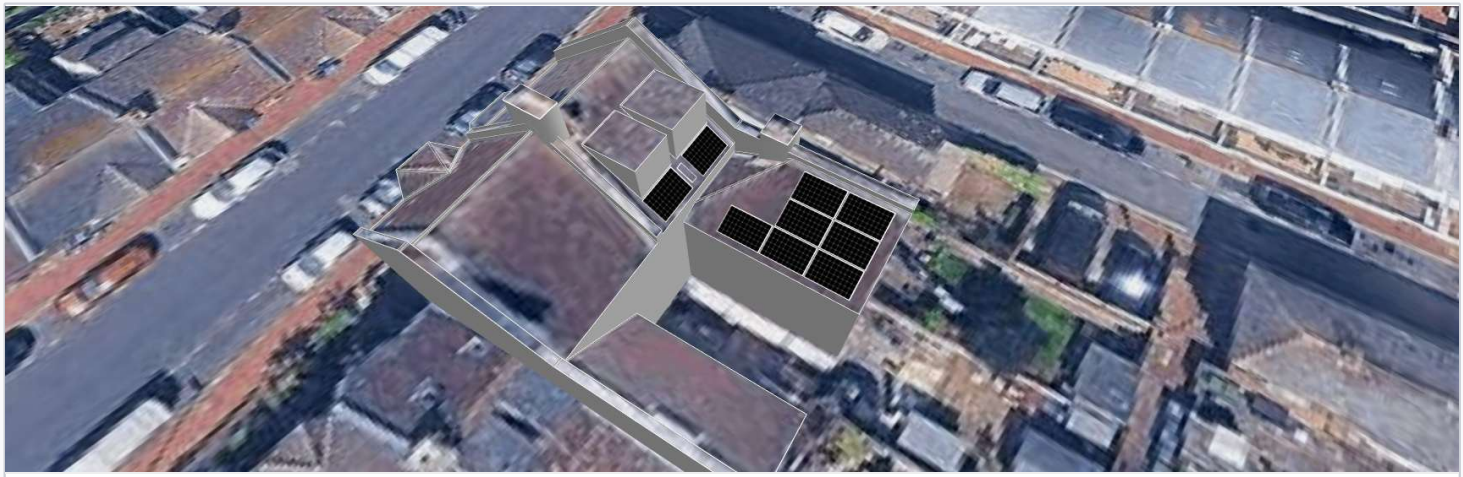
24 YORK ROAD, WORTHING

York Road 24, Worthing, BN11 3EN, United Kingdom | 8 Oct 2026

AJ Taylor
RENEWABLE ENERGY SPECIALISTS







SMART BATTERY

SolarEdge Home Battery 9.7kWh

Smart Battery Management

Time-of-Use Optimization Mode

Designed to maximize savings. The battery automatically charges when electricity prices are low and discharges when prices rise - reducing your energy costs.

Self Consumption	Bill Savings (25 years)		Total Storage Capacity	Total Battery Power
45%	£ 28,247		9.7 kWh	4 kW



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SYSTEM OVERVIEW

9 PV modules | 1 Inverter | 9 Optimizers | 1 Battery

FINANCIAL OVERVIEW

Net Payments	Lifetime Bill Savings (NPV)	System Profit (NPV)	Internal Return Rate (IRR)	Payback Period
£ 14,570	£ 28,247	£ 13,677	8.85 %	10.5 years
	£9,341 Savings from Battery			

SIMULATION RESULTS

Installed DC Power	Max Achieved AC Power	Annual Usable Solar Production	Annual CO_2 Emission Saved	Annual Equivalent Trees Planted
4.23 kWp	3.68 kW	4,442 kWh	859.03 kg	39

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ANNUAL CONSUMPTION AND PRODUCTION RESULTS

Total Production **4,442** kWh



- To Home 1,793 kWh (40%)
- To Battery 2,348 kWh (53%)
- To Grid 305.17 kWh (7%)

Consumption **9,200** kWh



45% Energy from solar with battery

- From Solar 1,793 kWh (20%)
- From Battery 2,323 kWh (25%)
- From Grid 5,062 kWh (55%)

Battery - Energy Sources



- From Solar 2,347 kWh (100%)
- From Clipped Energy 0.07 kWh (0%)
- From Grid 7.76 kWh (0%)

Battery - Energy Destinations



- To Home 2,355 kWh (100%)
- To Grid 0.00 kWh (0%)

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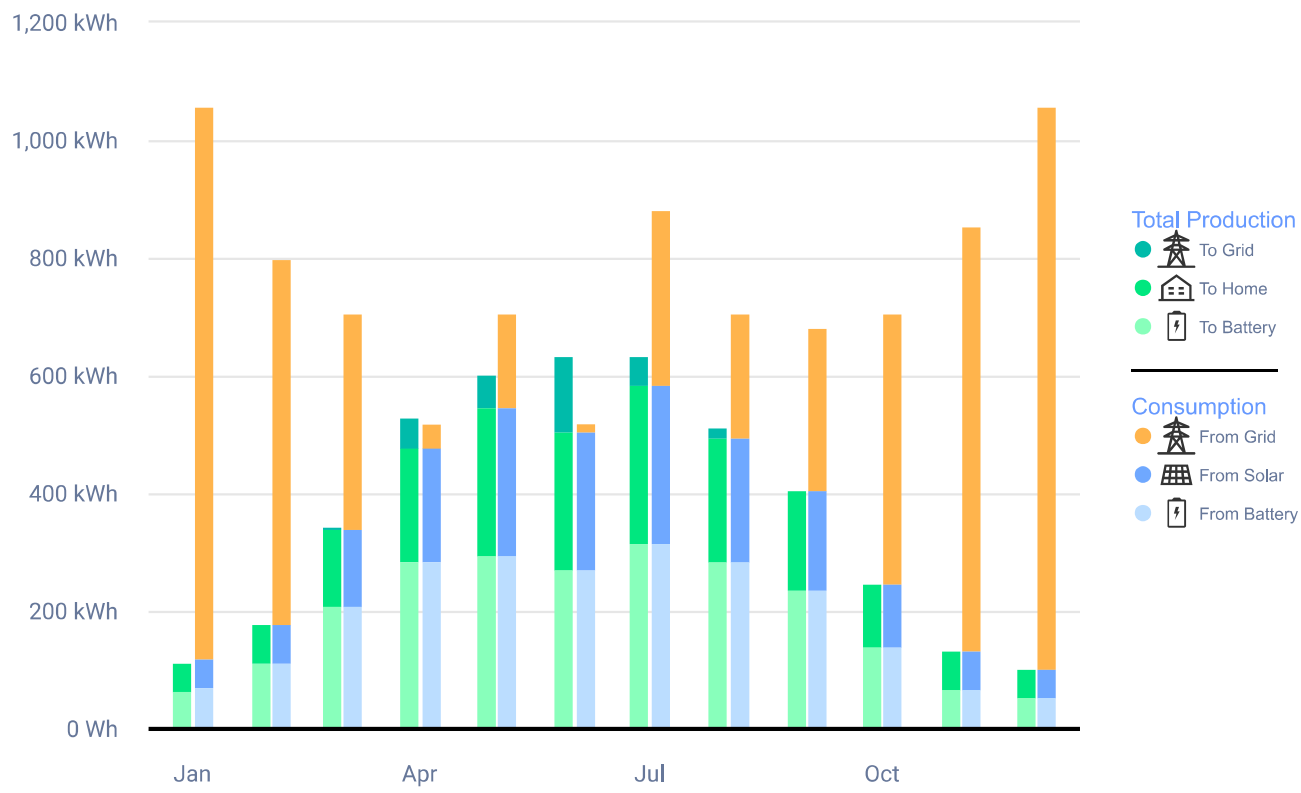
ESTIMATED MONTHLY ENERGY



Total Clipped Energy PV only: 0%

PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
2	JA Solar, JAM54D40-470/LR Black Frame	0.9 kWp			81°	34°

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PV MODULES (CONTINUED)

# Module		Model	Peak power	Racking type	Orientation	Azimuth	Tilt
	7	JA Solar, JAM54D40-470/LR Black Frame	3.3 kWp			171°	22°
Total:	9		4.2 kWp				

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DETAILED FINANCIAL ANALYSIS

System Price	Maintenance Cost (NPV)	Returns from Incentives (NPV)	Net Payments	Lifetime Bill Savings (NPV)
£ 14,570	£ N/A	£ N/A	£ 14,570	£ 28,247
				£9,341 Savings from Battery

System Profit (NPV)	Internal Return Rate (IRR)	Return Of Investment (ROI)	Levelized Cost Of Energy (LCOE)	Payback Period
£ 13,677	8.85 %	93.87 %	£/kWh 0.191	10.5 years



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YEARLY CASH FLOW

# Year	System Price	Net Bill Savings	Annual Cash Flow	Cumulative Cash Flow
0	£ -14,570.47	£ 0.00	£ -14,570.47	£ -14,570.47
1		£ 1,277.72	£ 1,277.72	£ -13,292.75
2		£ 1,299.17	£ 1,299.17	£ -11,993.58
3		£ 1,320.97	£ 1,320.97	£ -10,672.61
4		£ 1,343.12	£ 1,343.12	£ -9,329.48
5		£ 1,365.63	£ 1,365.63	£ -7,963.85
6		£ 1,388.52	£ 1,388.52	£ -6,575.33
7		£ 1,411.77	£ 1,411.77	£ -5,163.56
8		£ 1,435.41	£ 1,435.41	£ -3,728.15
9		£ 1,459.41	£ 1,459.41	£ -2,268.74
10		£ 1,483.83	£ 1,483.83	£ -784.91
11		£ 1,508.66	£ 1,508.66	£ 723.74
12		£ 1,533.90	£ 1,533.90	£ 2,257.65
13		£ 1,559.57	£ 1,559.57	£ 3,817.21
14		£ 1,585.65	£ 1,585.65	£ 5,402.86
15		£ 1,612.14	£ 1,612.14	£ 7,015.01
16		£ 1,639.08	£ 1,639.08	£ 8,654.09
17		£ 1,666.45	£ 1,666.45	£ 10,320.54
18		£ 1,694.23	£ 1,694.23	£ 12,014.77
19		£ 1,722.50	£ 1,722.50	£ 13,737.27
20		£ 1,751.20	£ 1,751.20	£ 15,488.47
21		£ 1,780.36	£ 1,780.36	£ 17,268.83
22		£ 1,809.98	£ 1,809.98	£ 19,078.81
23		£ 1,840.05	£ 1,840.05	£ 20,918.86

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YEARLY CASH FLOW (CONTINUED)

# Year	System Price	Net Bill Savings	Annual Cash Flow	Cumulative Cash Flow
24		£ 1,870.61	£ 1,870.61	£ 22,789.47
25		£ 1,901.66	£ 1,901.66	£ 24,691.13
Total:		£ 39,261.60	£ 24,691.13	

BILL OF MATERIALS (BOM)

Items	Part Number	Quantity		
SE3680H Home Hub Order SE10000H-RWSKBF57 and configure the inverter model as SE3680H Home Hub during commissioning, unless used with an LG battery 3.68kW SolarEdge Home Hub Single Phase - "backup ready" Inverter	SE3680H-RWBMNBF54	1		
S500B input up to 500Wp, Max Isc 15A	S500b-1GM4MRM	9		
SolarEdge Home Battery 9.7kWh		1	6800.90	6,800.90
JAM54D40-470/LR Black Frame		9		

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ELECTRICAL DESIGN

Inverters & Storage	Strings per inverter	Optimizers per string	PV modules per string	Cabling
1 xSE3680H Home Hub 3.99kW | 109% Oversizing 1 x SolarEdge Home Battery 9.7kWh	1 x string	9 x S500B	9	

SYSTEM LOSS DIAGRAM



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SIMULATION PARAMETERS

LOCATION & GRID

Time zone	BST (London)
Weather station	Shoreham-by-Sea (6 km away)
Station altitude	2 m
Station data source	Meteonorm 8.2
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%

OPTIMIZE YOUR SYSTEM

SolarEdge EV Charger
Drive on sunshine by charging your EV with excess solar energy, fully integrated into the SolarEdge ecosystem.

SolarEdge Meter
Track actual energy consumption and unlock more accurate insights to improve solar savings.