

SHREWTON VILLAGE HALL

Elston Stud, Elston, SP3 4HQ, United Kingdom | 5 Oct 2026



NOTIFICATIONS

 Warning: Batteries are not connected to a StorEdge inverter(s) (SE8K-RWB48 Home Hub).



SYSTEM OVERVIEW



40 PV modules



2 Inverters



40 Optimizers

FINANCIAL OVERVIEW

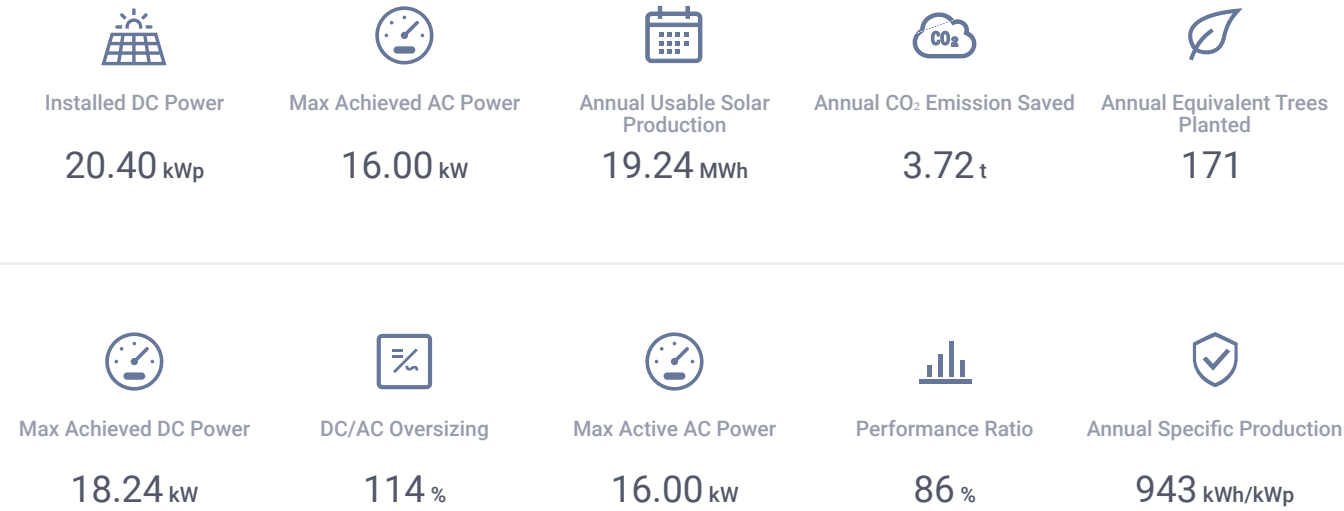
Net Payments	Lifetime Bill Savings (NPV)	System Profit (NPV)	Internal Return Rate (IRR)	Payback Period
£ 21,927	£ 179,889	£ 157,962	27.8 %	4.6 years

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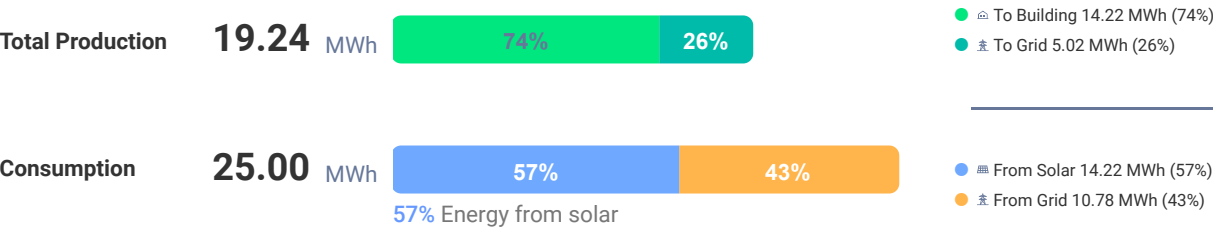
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SIMULATION RESULTS



ANNUAL CONSUMPTION AND PRODUCTION RESULTS

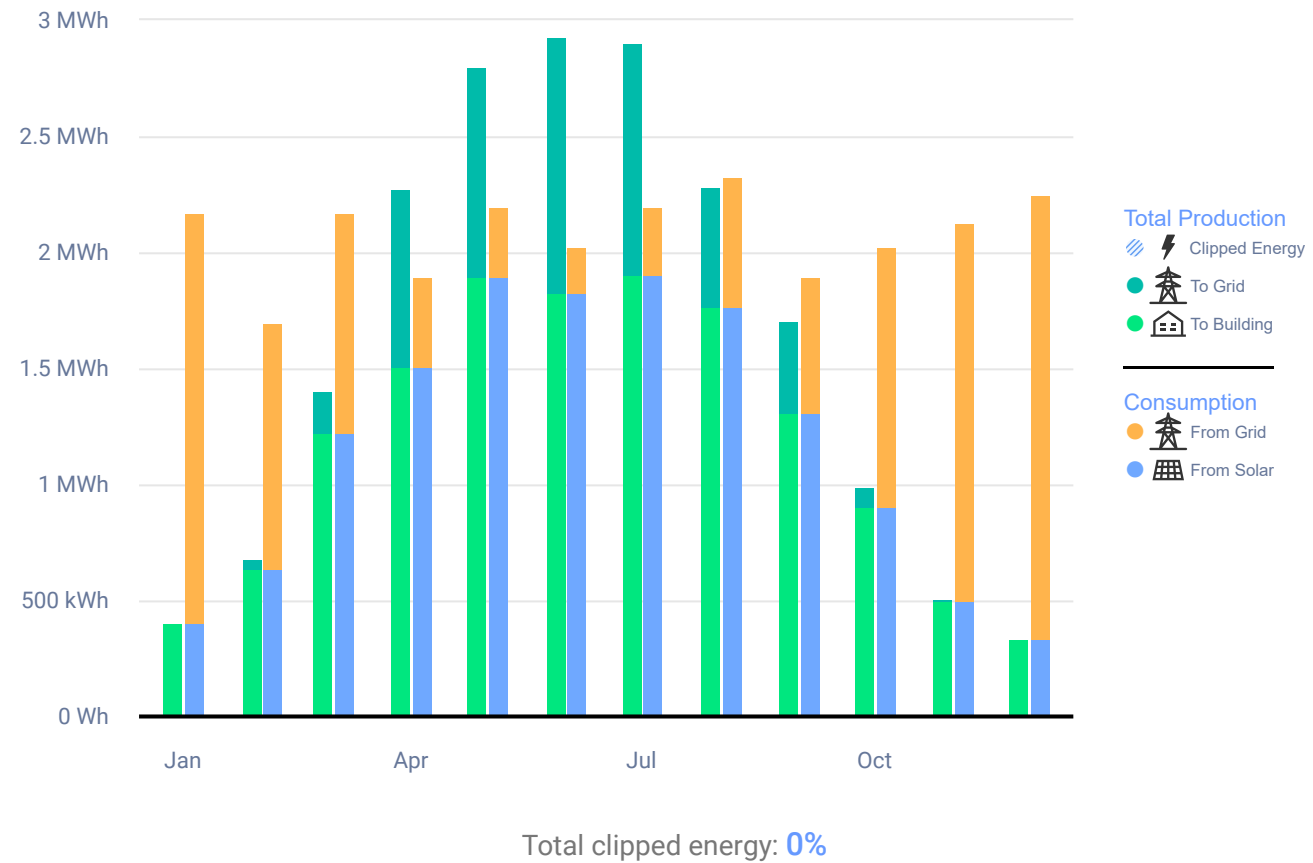


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ESTIMATED MONTHLY ENERGY



Month	Production (kWh)	To Home (kWh)	To Grid (kWh)	Clipped Energy (kWh)	Consumption (kWh)	From PV (kWh)	From Grid (kWh)
Jan	404	404	-	-	2,175	404	1,771
Feb	682	640	42	-	1,700	640	1,060
Mar	1,408	1,221	187	-	2,175	1,221	954
Apr	2,280	1,506	774	-	1,900	1,506	394
May	2,805	1,895	910	-	2,200	1,895	305
Jun	2,928	1,824	1,104	-	2,025	1,824	201
Jul	2,906	1,907	999	-	2,200	1,907	293
Aug	2,288	1,767	521	-	2,325	1,767	558
Sep	1,703	1,310	393	-	1,900	1,310	590
Oct	991	901	89	-	2,025	901	1,124
Nov	505	504	1	-	2,125	504	1,621
Dec	339	339	-	-	2,250	339	1,911

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PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
20	Shenzhen Aiko Digital Energy Technology Co. Ltd., Aiko Neostar-510W N-Type-60 Cell-All Black-Gen 2 (user-defined)	10.2 kWp			232°	22°
20	Shenzhen Aiko Digital Energy Technology Co. Ltd., Aiko Neostar-510W N-Type-60 Cell-All Black-Gen 2 (user-defined)	10.2 kWp			52°	16°
Total:	40	20.4 kWp				

ESTIMATED BILL SAVINGS YEAR 1

Avg. Monthly

Current Monthly Bill	Monthly Bill with SolarEdge	Net Bill Monthly Savings	Bill Offset
£ 495.83	£ 163.63	£ 332.20	67 %

Estimated Net Lifetime Bill Savings

£ 179,889

Utility Provider: UK provider | Utility Rate: 23.8 (0.238 £/kWh)

Export Rate: 12p export (0.12 £/kWh)

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DETAILED FINANCIAL ANALYSIS

System Price	Maintenance Cost (NPV)	Returns from Incentives (NPV)	Net Payments	Lifetime Bill Savings (NPV)
£ 21,927	£ N/A	£ N/A	£ 21,927	£ 179,889
System Profit (NPV)	Internal Return Rate (IRR)	Return Of Investment (ROI)	Levelized Cost Of Energy (LCOE)	Payback Period
£ 157,962	27.8 %	720.4 %	£/kWh 0.077	4.6 years



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BILL OF MATERIALS (BOM)

Items		Part Number	Quantity	Price (£)	
Total (£)					
Base Price			1	16220.00	16,220.00
	SE8K-RWB48 Home Hub 8kW SolarEdge Home Hub Three Phase - "backup ready" Inverter	SE8K-RWB48BFN4	2	0.00	0.00
	S500B input up to 500Wp, Max Isc 15A	S500b-1GM4MRM	40	0.00	0.00
	Aiko Neostar-510W N-Type-60 Cell-All Black-Gen 2		40	0.00	0.00
DNO G99 Application			1	153.00	153.00
Pest Control Guards			40	30.00	1,200.00
Scaffold			1	840.00	840.00
Labour			1	3514.00	3,514.00
Total Price: £ 21,927.00					

ELECTRICAL DESIGN

Inverters & Storage	Strings per inverter	Optimizers per string	PV modules per string	Cabling
 1 xSE8K-RWB48 Home Hub 9.88kW 123% Oversizing	 1 x string	 20 x S500B	 20	

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ELECTRICAL DESIGN (CONTINUED)

Inverters & Storage	Strings per inverter	Optimizers per string	PV modules per string	Cabling
 1 xSE8K-RWB48 Home Hub 8.37kW 105% Oversizing	 1 x string	 20 x S500B	 20	

SYSTEM LOSS DIAGRAM



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SIMULATION PARAMETERS



LOCATION & GRID

Time zone	BST (London)
Weather station	Larkhill (7 km away)
Station altitude	133 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 U_c (const) Flush mount	20
Thermal loss factor U_c (const) Tilted	29
LID loss factor	0%
System unavailability	0%

OPTIMIZE YOUR SYSTEM



SolarEdge Battery
Increase self-consumption and savings by smartly charging the battery and using stored energy.



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.