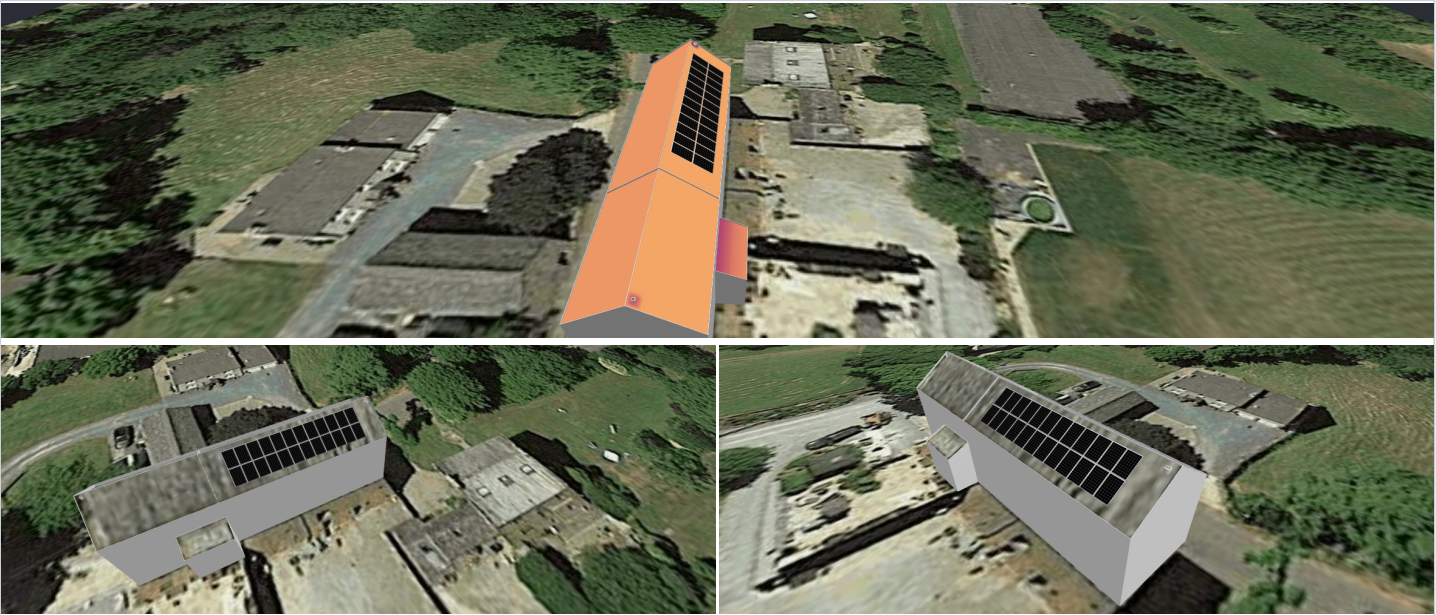


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FINANCIAL OVERVIEW

Net Payments	Lifetime Bill Savings (NPV)	System Profit (NPV)	Internal Return Rate (IRR)	Payback Period
£ 14,458	£ 88,092	£ 73,634	20.02 %	6.2 years

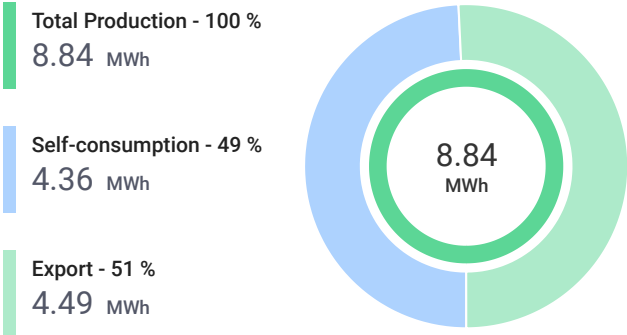
SIMULATION RESULTS

 Installed DC Power 10.32 kWp	 Max Achieved AC Power 8.00 kW	 Annual Energy Production 8.84 MWh	 CO2 Emission Saved (Annually) 1.71 t	 Equivalent Trees Planted (Annually) 79
 Max Achieved DC Power 9.37 kW	 DC/AC Oversizing 117 %	 Max Active AC Power 8.00 kW	 Performance Ratio 92 %	 Performance Index 857 kWh/kWp

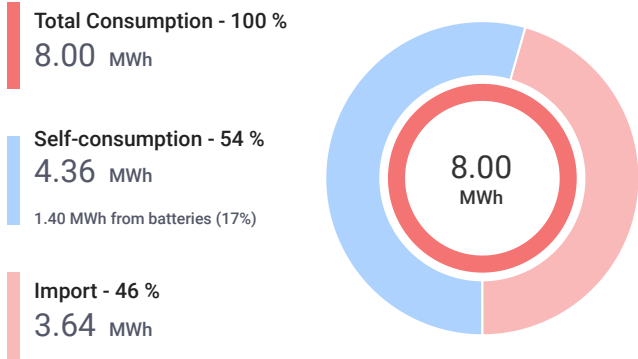
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SYSTEM PRODUCTION



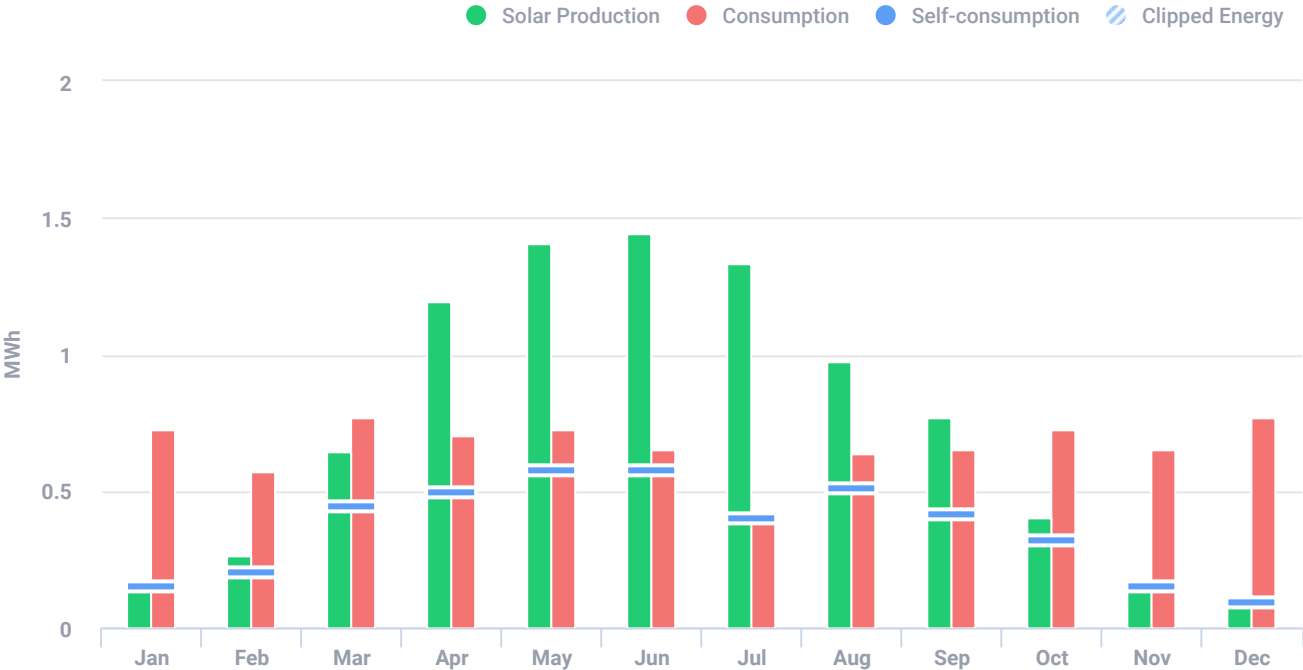
CONSUMPTION



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ESTIMATED MONTHLY ENERGY



Total clipped energy: 0.25%

Month	Solar Production (kWh)	Consumption (kWh)	Self-consumption (kWh)	Clipped Energy (kWh)
Jan	153	726	153	-
Feb	261	575	202	-
Mar	644	767	446	-
Apr	1,191	703	497	4
May	1,404	726	577	11
Jun	1,440	655	577	1
Jul	1,335	408	406	5
Aug	974	636	510	1
Sep	769	655	420	-
Oct	405	726	322	-
Nov	174	655	152	-
Dec	95	767	94	-

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PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
24	JinkoSolar Holding Co. Ltd., JKM-430N-54HL4R-V Tiger Neo N-Type	10.3 kWp			94°	35°
Total:	24	10.3 kWp				

ESTIMATED BILL SAVINGS YEAR 1

Annual			
Current Annual Bill	Annual Bill with SolarEdge	Net Bill Annual Savings	Bill Offset
£ 2,278.80	£ 366.78	£ 1,912.02	83.9 %

Estimated Net Lifetime Bill Savings

£ 88,092

Utility Provider: Octopus | Utility Rate: Octopus (0.2844 £/kWh) (21/10/2022 - 18/03/2023)

Export Rate: Export 1+ (0.15 £/kWh) (15/06/2023 - 25/06/2048)

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DETAILED FINANCIAL ANALYSIS

System Price	Maintenance Cost (NPV)	Returns from Incentives (NPV)	Net Payments	Lifetime Bill Savings (NPV)
£ 14,458	£ N/A	£ N/A	£ 14,458	£ 88,092
System Profit (NPV)	Internal Return Rate (IRR)	Return Of Investment (ROI)	Levelized Cost Of Energy (LCOE)	Payback Period
£ 73,634	20.02 %	509.3 %	£/kWh 0.095	6.2 years



YEARLY CASH FLOW

# Year	System Price	Net Bill Savings	Annual Cash Flow	Cumulative Cash Flow
0	£ -14,458.00	£ 0.00	£ -14,458.00	£ -14,458.00
1		£ 1,912.02	£ 1,912.02	£ -12,545.98

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YEARLY CASH FLOW (CONTINUED)

# Year	System Price	Net Bill Savings	Annual Cash Flow	Cumulative Cash Flow
2		£ 2,058.73	£ 2,058.73	£ -10,487.25
3		£ 2,216.66	£ 2,216.66	£ -8,270.59
4		£ 2,386.70	£ 2,386.70	£ -5,883.89
5		£ 2,569.77	£ 2,569.77	£ -3,314.13
6		£ 2,766.85	£ 2,766.85	£ -547.28
7		£ 2,979.02	£ 2,979.02	£ 2,431.74
8		£ 3,207.44	£ 3,207.44	£ 5,639.18
9		£ 3,453.37	£ 3,453.37	£ 9,092.55
10		£ 3,718.13	£ 3,718.13	£ 12,810.69
11		£ 4,003.19	£ 4,003.19	£ 16,813.88
12		£ 4,310.11	£ 4,310.11	£ 21,123.99
13		£ 4,640.53	£ 4,640.53	£ 25,764.51
14		£ 4,996.27	£ 4,996.27	£ 30,760.78
15		£ 5,379.29	£ 5,379.29	£ 36,140.07
16		£ 5,791.68	£ 5,791.68	£ 41,931.75
17		£ 6,235.66	£ 6,235.66	£ 48,167.42
18		£ 6,713.67	£ 6,713.67	£ 54,881.08
19		£ 7,228.31	£ 7,228.31	£ 62,109.40
20		£ 7,782.38	£ 7,782.38	£ 69,891.78
21		£ 8,378.90	£ 8,378.90	£ 78,270.68
22		£ 9,021.13	£ 9,021.13	£ 87,291.81
23		£ 9,712.53	£ 9,712.53	£ 97,004.34
24		£ 10,456.90	£ 10,456.90	£ 107,461.24
25		£ 11,258.33	£ 11,258.33	£ 118,719.57
Total:		£ 133,177.57	£ 118,719.57	

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SYSTEM LOSS DIAGRAM



SIMULATION PARAMETERS



LOCATION & GRID

Time zone	GMT (London)
Weather station	Barrow-in-Furness (41.53 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
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%