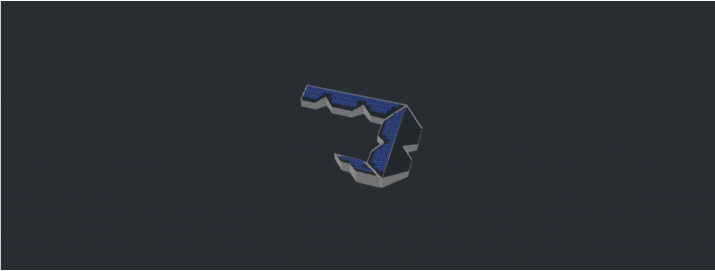


RIVER VIEW CARE HOME

Grasmere Avenue 73, Reading, RG30 6XU, United Kingdom | 26 Apr 2024



SYSTEM OVERVIEW



161 PV modules



1 Inverter

FINANCIAL OVERVIEW

Net Payments

£ 80,572

Lifetime Bill Savings (NPV)

£ 610,760

System Profit (NPV)

£ 530,188

Internal Return Rate (IRR)

28.57 %

Payback Period

3.9 years

SIMULATION RESULTS



Installed DC Power

77.28 kWp



Max Achieved AC Power

70.00 kW



Annual Energy Production

69.51 MWh



CO2 Emission Saved
(Annually)

13.44 t



Equivalent Trees Planted
(Annually)

617



Max Achieved DC Power

68.99 kW



DC/AC Oversizing

138 %



Max Active AC Power

70.00 kW



Performance Ratio

89 %



Performance Index

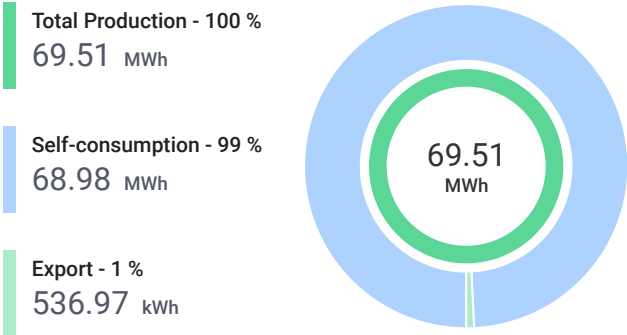
900 kWh/kWp

RIVER VIEW CARE HOME

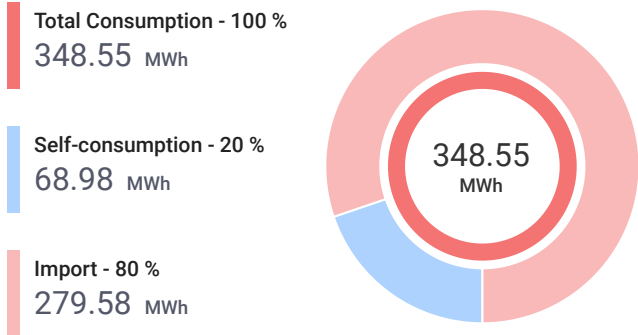
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SYSTEM PRODUCTION



CONSUMPTION

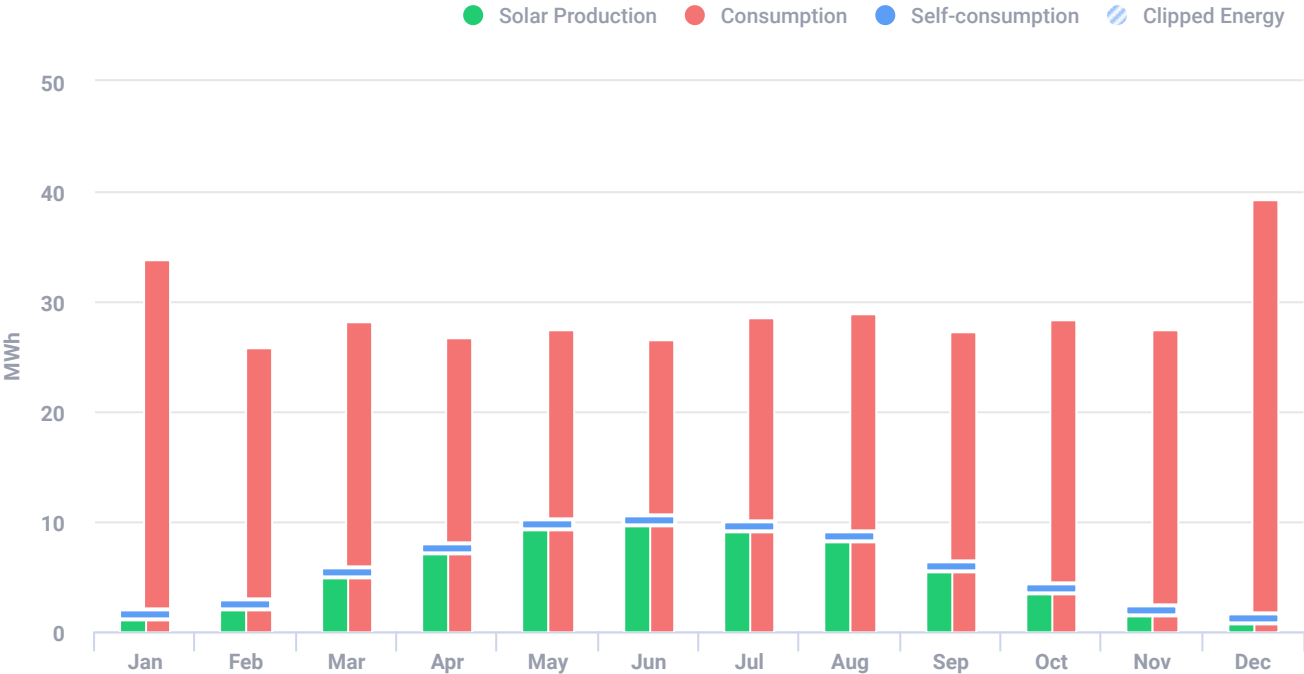


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ESTIMATED MONTHLY ENERGY



Total clipped energy: 0.76%

Month	Solar Production (kWh)	Consumption (kWh)	Self-consumption (kWh)	Clipped Energy (kWh)
Jan	1,607	33,777	1,607	-
Feb	2,611	25,906	2,611	-
Mar	5,365	28,261	5,365	-
Apr	7,663	26,818	7,608	25
May	9,961	27,438	9,845	40
Jun	10,234	26,616	10,129	69
Jul	9,869	28,505	9,702	252
Aug	8,847	28,961	8,753	147
Sep	6,060	27,197	6,060	-
Oct	4,045	28,398	4,045	-
Nov	2,010	27,489	2,010	-
Dec	1,242	39,190	1,242	-

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ESTIMATED BILL SAVINGS YEAR 1

Annual			
Current Annual Bill	Annual Bill	Net Bill Annual Savings	Bill Offset
£ 97,595.32	£ 78,260.01	£ 19,335.30	19.81 %

Estimated Net Lifetime Bill Savings

£ 610,760

Utility Provider: UK provider | Utility Rate: MMCG (0.28 £/kWh)

Export Rate: 4p export (0.04 £/kWh)

	Current Monthly Bill	Monthly Bill with SolarEdge	Net Bill Monthly Savings	Bill Offset
Jan	GBP 9,457.53	GBP 9,007.62	GBP 449.92	4.76%
Feb	GBP 7,253.71	GBP 6,522.64	GBP 731.07	10.08%
Mar	GBP 7,913.00	GBP 6,410.91	GBP 1,502.08	18.98%
Apr	GBP 7,509.01	GBP 5,376.49	GBP 2,132.52	28.4%
May	GBP 7,682.67	GBP 4,921.36	GBP 2,761.31	35.94%
Jun	GBP 7,452.37	GBP 4,611.98	GBP 2,840.39	38.11%
Jul	GBP 7,981.29	GBP 5,258.06	GBP 2,723.23	34.12%
Aug	GBP 8,109.05	GBP 5,654.37	GBP 2,454.68	30.27%
Sep	GBP 7,615.22	GBP 5,918.48	GBP 1,696.74	22.28%
Oct	GBP 7,951.33	GBP 6,818.62	GBP 1,132.71	14.25%
Nov	GBP 7,697.03	GBP 7,134.24	GBP 562.79	7.31%
Dec	GBP 10,973.12	GBP 10,625.26	GBP 347.86	3.17%
Total:	GBP 97,595.32	GBP 78,260.01	GBP 19,335.30	

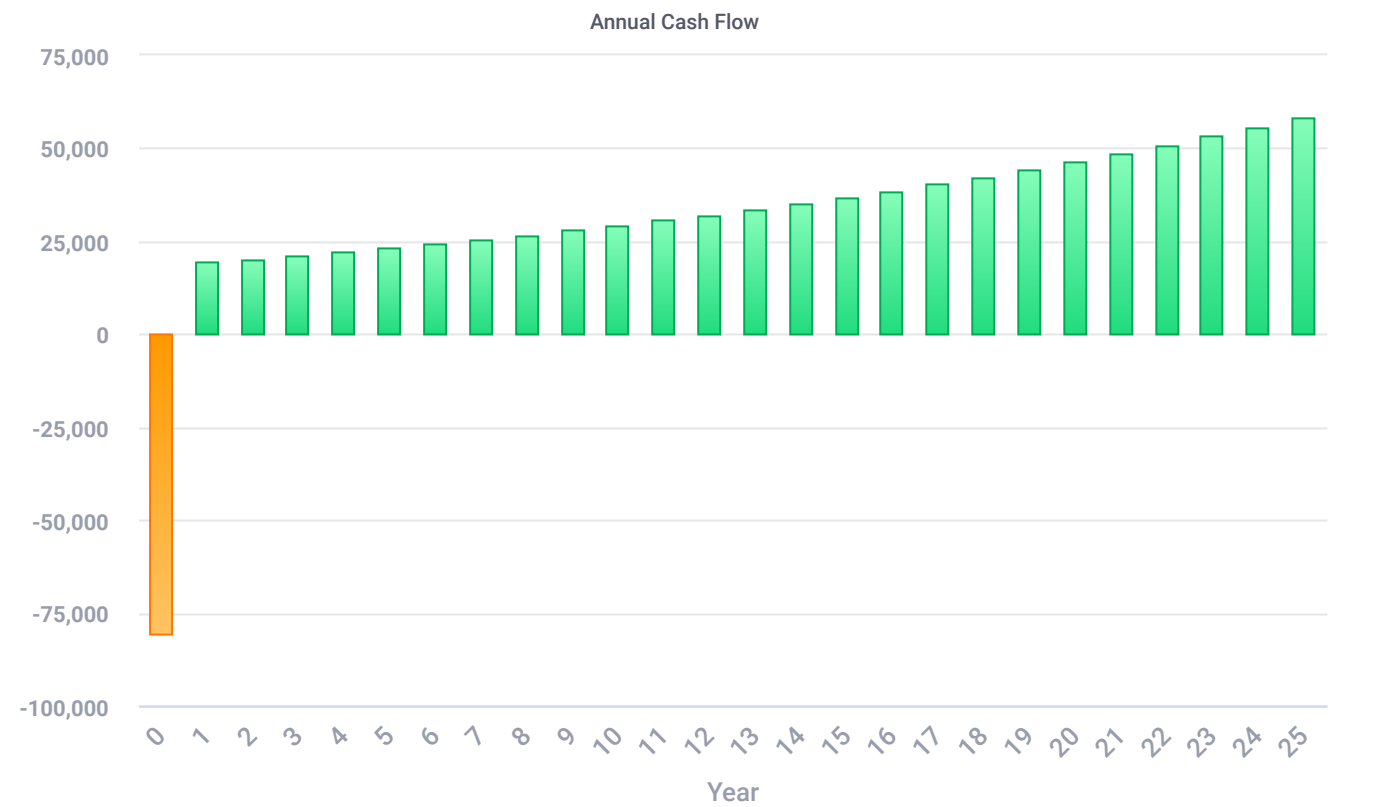
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DETAILED FINANCIAL ANALYSIS

System Price	Maintenance Cost (NPV)	Returns from Incentives (NPV)	Net Payments	Lifetime Bill Savings (NPV)
£ 80,572	£ N/A	£ N/A	£ 80,572	£ 610,760
System Profit (NPV)	Internal Return Rate (IRR)	Return Of Investment (ROI)	Levelized Cost Of Energy (LCOE)	Payback Period
£ 530,188	28.57 %	658.03 %	£/kWh 0.067	3.9 years



YEARLY CASH FLOW

# Year	System Price	Net Bill Savings	Annual Cash Flow	Cumulative Cash Flow
0	£ -80,572.00	£ 0.00	£ -80,572.00	£ -80,572.00
1		£ 19,335.30	£ 19,335.30	£ -61,236.70

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YEARLY CASH FLOW (CONTINUED)

# Year	System Price	Net Bill Savings	Annual Cash Flow	Cumulative Cash Flow
2		£ 20,247.59	£ 20,247.59	£ -40,989.10
3		£ 21,202.84	£ 21,202.84	£ -19,786.26
4		£ 22,203.07	£ 22,203.07	£ 2,416.80
5		£ 23,250.38	£ 23,250.38	£ 25,667.18
6		£ 24,347.03	£ 24,347.03	£ 50,014.21
7		£ 25,495.44	£ 25,495.44	£ 75,509.65
8		£ 26,697.99	£ 26,697.99	£ 102,207.63
9		£ 27,957.16	£ 27,957.16	£ 130,164.80
10		£ 29,275.56	£ 29,275.56	£ 159,440.36
11		£ 30,656.08	£ 30,656.08	£ 190,096.45
12		£ 32,101.65	£ 32,101.65	£ 222,198.10
13		£ 33,615.16	£ 33,615.16	£ 255,813.26
14		£ 35,199.72	£ 35,199.72	£ 291,012.98
15		£ 36,858.73	£ 36,858.73	£ 327,871.71
16		£ 38,595.74	£ 38,595.74	£ 366,467.45
17		£ 40,414.39	£ 40,414.39	£ 406,881.84
18		£ 42,318.58	£ 42,318.58	£ 449,200.42
19		£ 44,312.35	£ 44,312.35	£ 493,512.77
20		£ 46,400.00	£ 46,400.00	£ 539,912.77
21		£ 48,585.63	£ 48,585.63	£ 588,498.40
22		£ 50,873.96	£ 50,873.96	£ 639,372.35
23		£ 53,269.81	£ 53,269.81	£ 692,642.17
24		£ 55,778.12	£ 55,778.12	£ 748,420.28
25		£ 58,403.99	£ 58,403.99	£ 806,824.27
Total:		£ 887,396.27	£ 806,824.27	

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SYSTEM LOSS DIAGRAM



SIMULATION PARAMETERS



LOCATION & GRID

Time zone	GMT+1 (London)
Weather station	Reading (3.07 km away)
Station altitude	40 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%