

DAVID CROASDALE

Catlow Rd Slaidburn, Clitheroe, BB7 3AQ, United Kingdom | David Croasdale | 27 Feb 2024



SIMULATION RESULTS

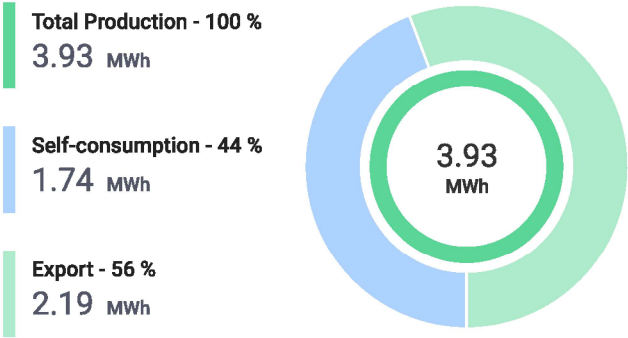
 Installed DC Power 5.25 kWp	 Max Achieved AC Power 4.00 kW	 Annual Energy Production 3.93 MWh	 CO2 Emission Saved (Annually) 759.29 kg	 Equivalent Trees Planted (Annually) 35
 Max Achieved DC Power 4.67 kW	 DC/AC Oversizing 117 %	 Max Active AC Power 4.00 kW	 Performance Ratio 89 %	 Performance Index 748 kWh/kWp

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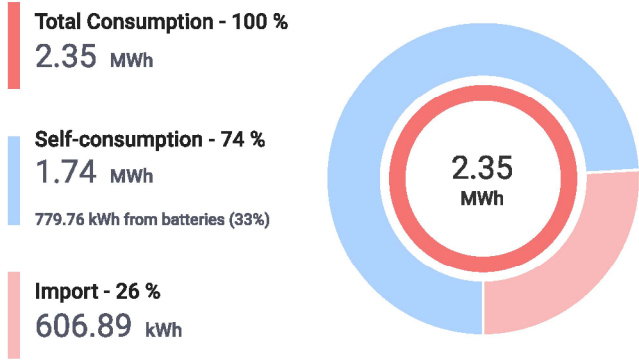
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SYSTEM PRODUCTION



CONSUMPTION

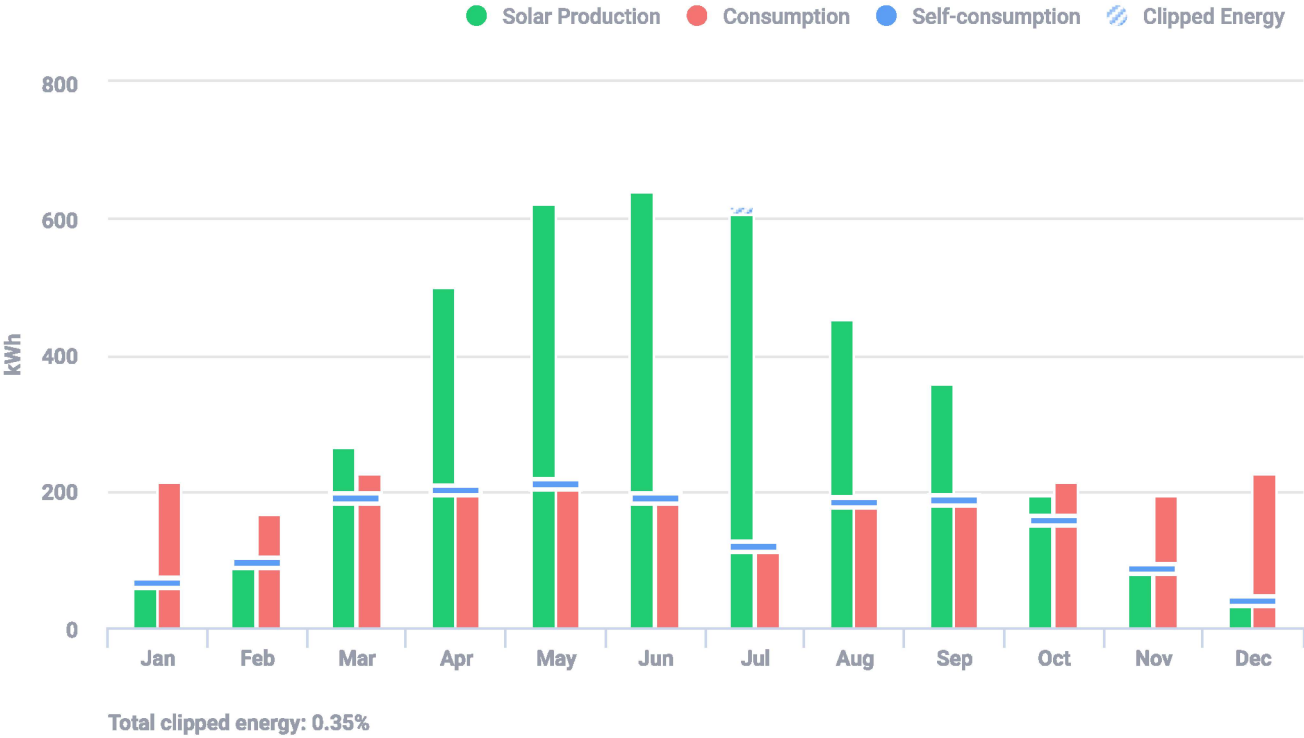


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ESTIMATED MONTHLY ENERGY



Month	Solar Production (kWh)	Consumption (kWh)	Self-consumption (kWh)	Clipped Energy (kWh)
Jan	67	213	67	-
Feb	99	168	96	-
Mar	264	225	191	-
Apr	498	206	202	-
May	622	213	210	1
Jun	638	192	192	1
Jul	607	120	120	12
Aug	451	187	185	-
Sep	358	192	188	-
Oct	194	213	159	-
Nov	87	192	87	-
Dec	42	225	42	-

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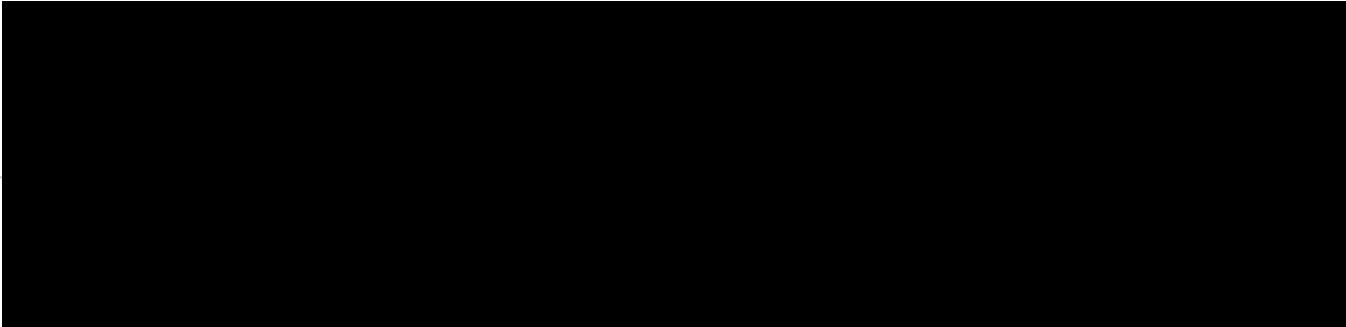


PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
14	SolFit, 375 (user-defined)	5.3 kWp			273°	30°
Total:	14	5.3 kWp				

ESTIMATED BILL SAVINGS YEAR 1

Annual



Utility Provider: **UK provider** | Utility Rate: **26 (0.26 £/kWh)**

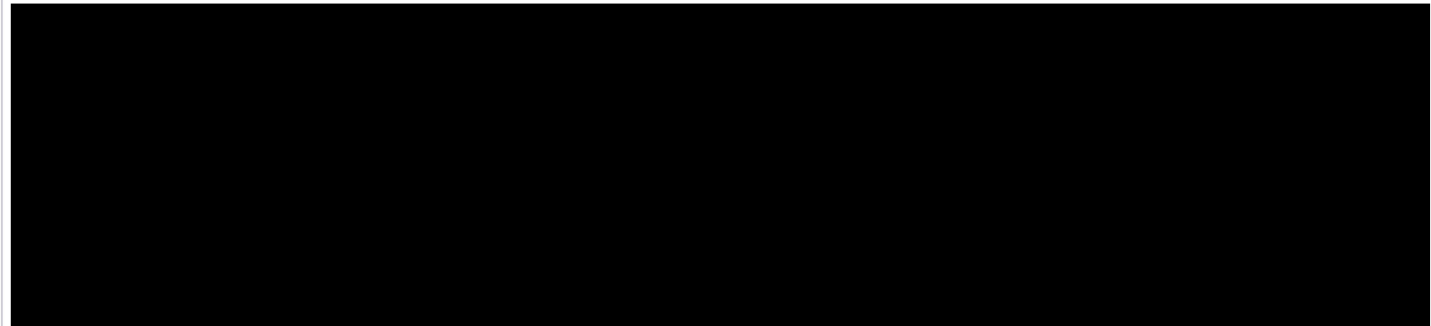
Export Rate: **15p export (0.15 £/kWh)**

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DETAILED FINANCIAL ANALYSIS



YEARLY CASH FLOW

# Year	
0	
1	

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YEARLY CASH FLOW (CONTINUED)

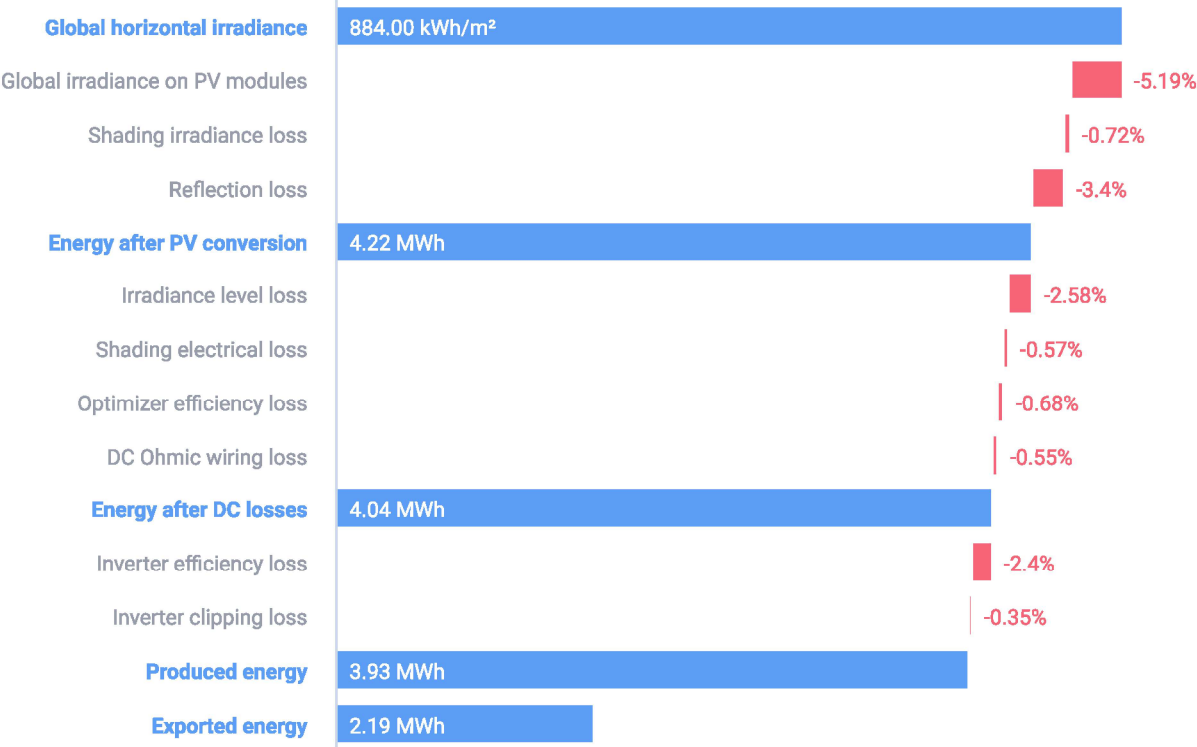
# Year	System Price	Net Bill Savings	Annual Cash Flow	Cumulative Cash Flow
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
Total:				

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SYSTEM LOSS DIAGRAM



SIMULATION PARAMETERS



LOCATION & GRID

Time zone	GMT (London)
Weather station	Bradford (44.37 km away)
Station altitude	218 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%