



Glow Green

Bespoke PV Solar Quote

Customer Details

Name: John Hancock

Telephone(s): 07474 261133

Email: Jahancock@outlook.com

Address: Church Farm Main Street, Leicester, LE9 9NL

Quote Details

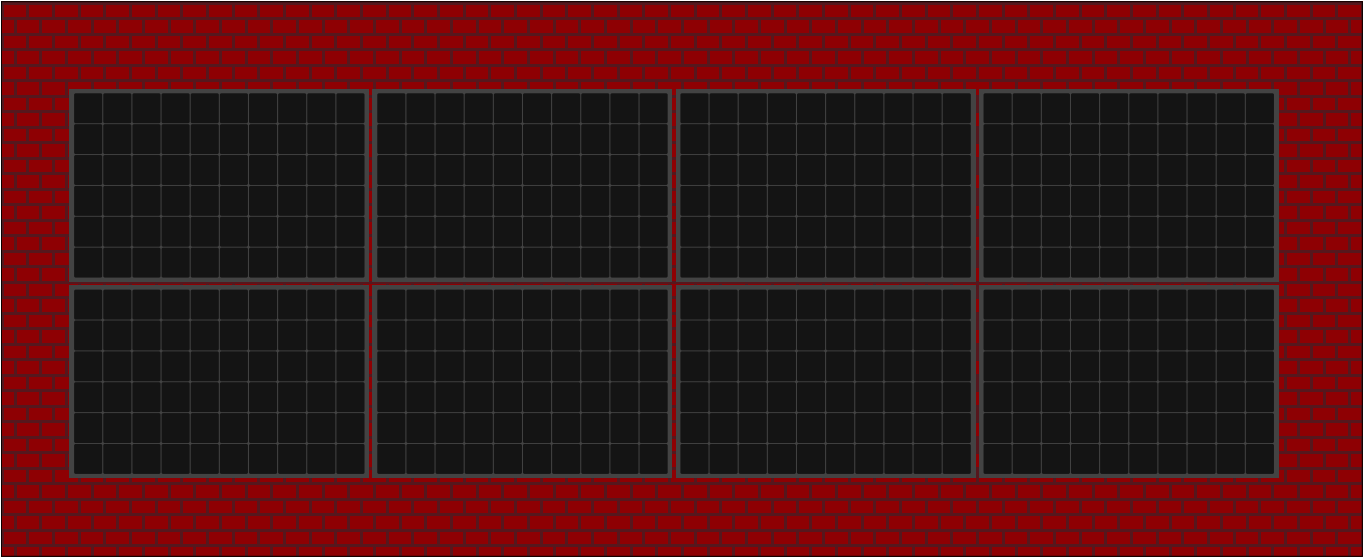
Reference: GG-333733-3

Date: 16th December 2024

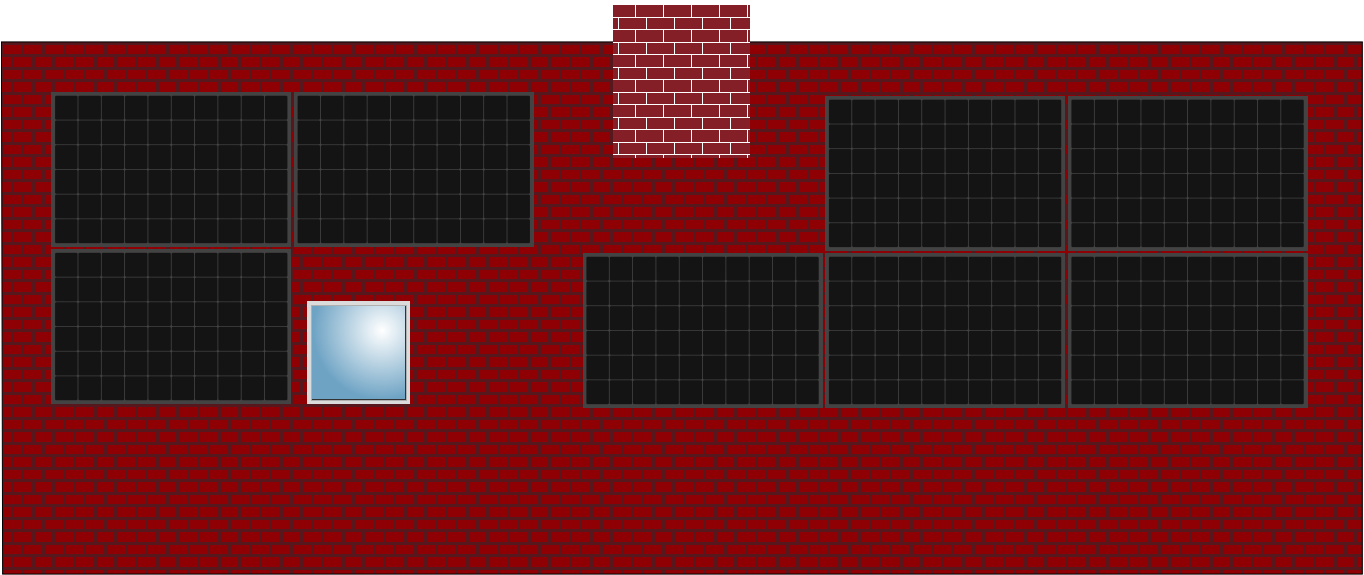
Designer: Matthew Graham

Roof Layout

Rear (West) South Roof

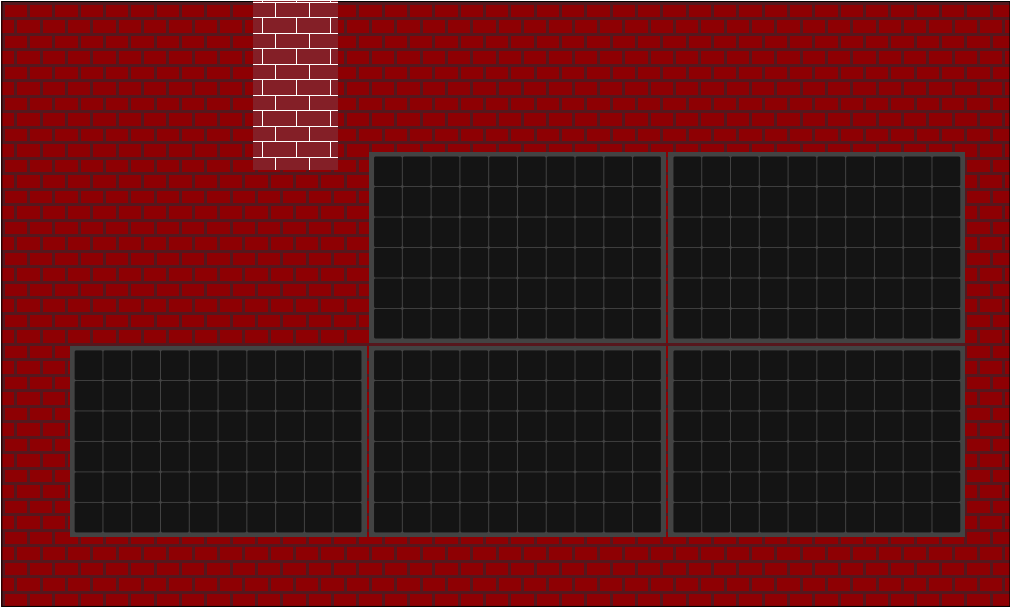


Rear (East) South Roof



Rear East Roof

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Component list

Item	Quantity
 DMEGC Infinity RT 450watt N-Type Module solar panel	21
 Fox ESS KH 8kW 1ph Hybrid Inverter inverter	1
 Emlite Hybrid Only Bi-directional Meter ECA2	1
 Label sheet	1
 Tigo Retrofit Frame Mounted Optimiser TS4-A-O	5
 Tesla Fittings Pack	3
 Brass Neutral Bar -7 way- Clip-on - BLUE	3
 80A 22mm x 58mm CL General Fuse	3
 125A MS Modular Fuse Holder	3
 100A 22mm x 58mm CL General Fuse	3
 Fox ESS EP Junction Box	2
 AC isolator - KN 40A 3-pole	2
 Fox ESS EP5 5.18kWh Li-ion Battery	3
 DC isolator - KG20-4	3
 MC4 4mm Connector Pair	4



MC4 6mm Connector Pair

2



100m reel of 4mm² solar cable

1



100m reel of 6mm² solar cable

1



Fastensol end clamp (30mm black)

32



Fastensol mid clamp (30mm black)

26



Fastensol black end cap

32



Fastensol portrait flat tile roof hook

82



Hookstop protector

82



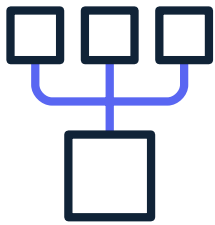
Fastensol rail splice

18

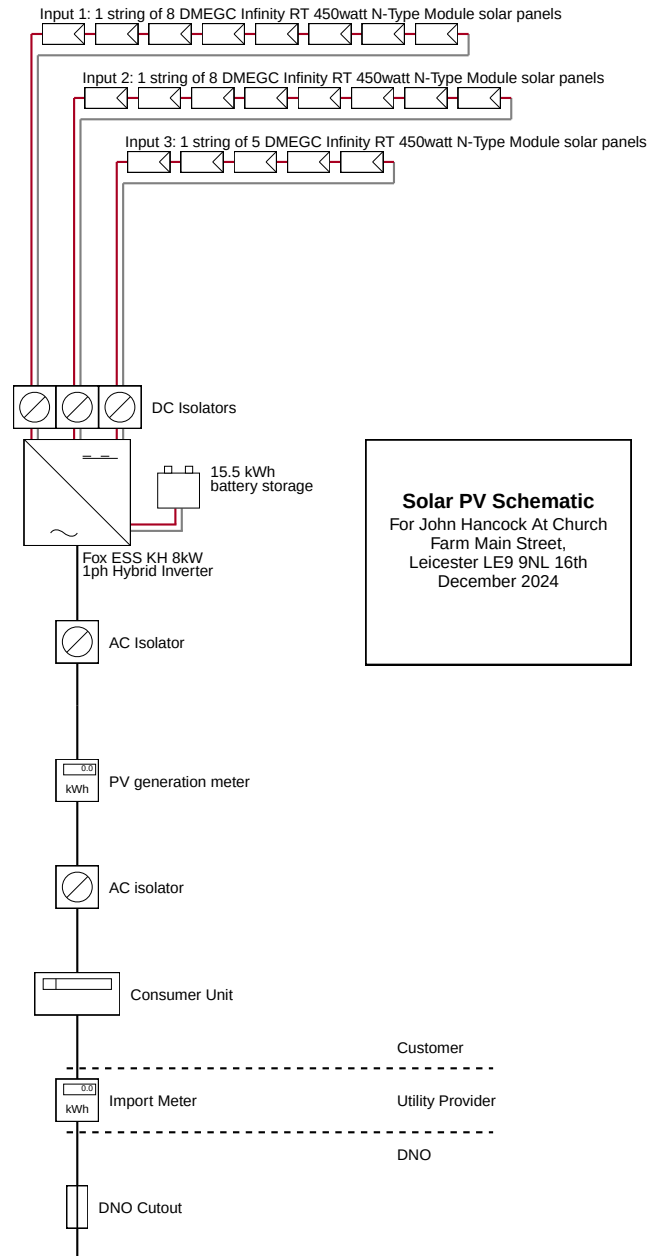


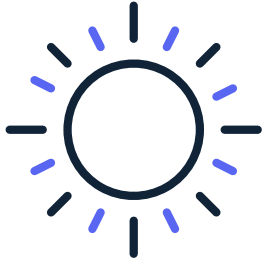
Fastensol black rail 3550mm

25



Schematic diagram





Performance Estimate

Site details

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Client

John Hancock

Address

Church Farm Main Street, Leicester

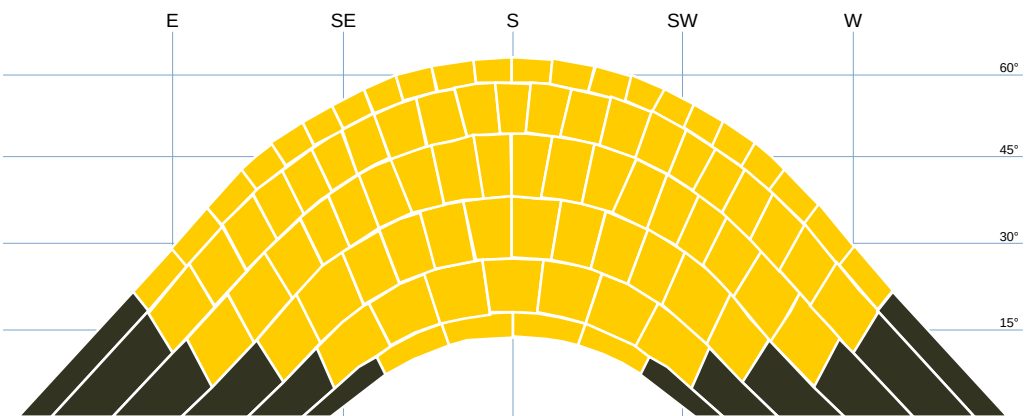
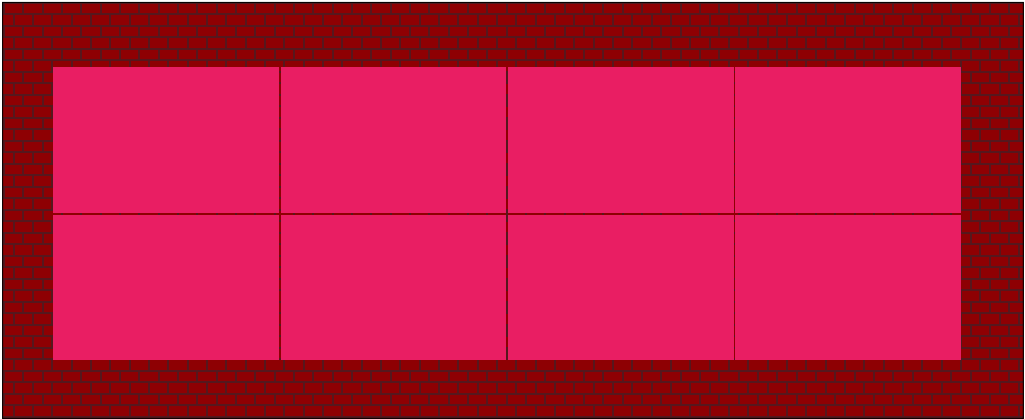
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The sunpath diagram shows the arcs of the sky that the sun passes through at different times of the day and year as yellow blocks. The shaded area indicates the horizon as seen from the location of the solar array. Where objects on the horizon are within 10m of the array, an added semi-circle is drawn to represent the increased shading. Blocks of the sky that are shaded by objects on the horizon are coloured red, and a shading factor is calculated from the number of red blocks. The performance of the solar array is calculated by multiplying the size of the array (kWp) by the shading factor (sf) and a site correction factor (kk), taken from tables which take account of the geographical location, orientation and inclination of the array.

Inverter 1

Fox ESS KH 8kW 1ph Hybrid Inverter

Input 1



A. Installation data

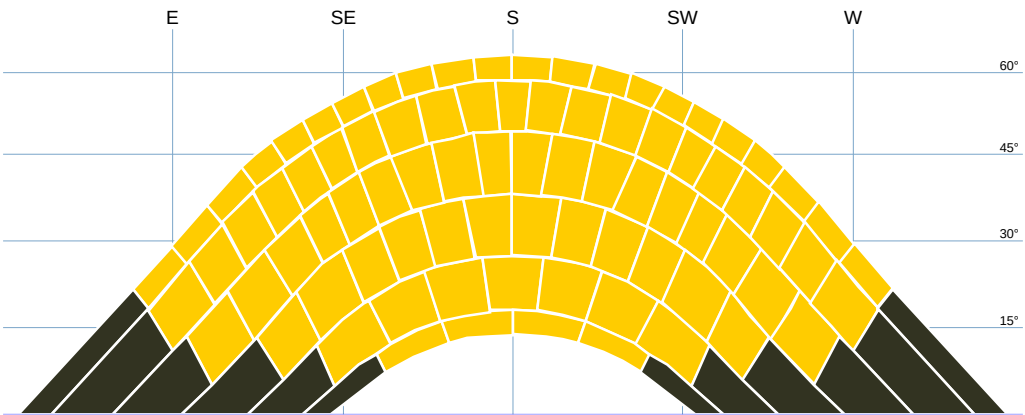
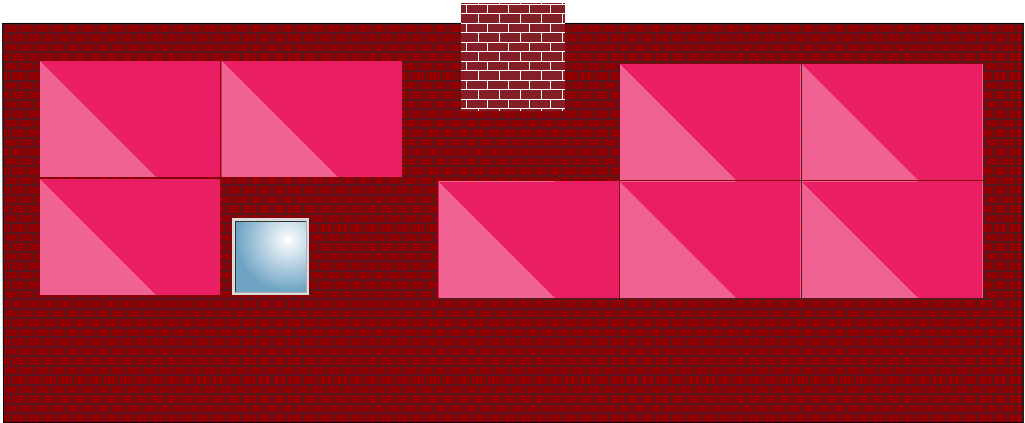
Installed capacity of PV system – kWp (stc)	3.600	kWp
Orientation of the PV system – degrees from South	20	°
Inclination of system – degrees from horizontal	40	°
Postcode region	6	



B. Performance calculations

kWh/kWp (Kk)	925	kWh/kWp
Shade factor (SF)	1.00	
Estimated output (kWp × Kk × SF)	3330	kWh

Input 2



A. Installation data

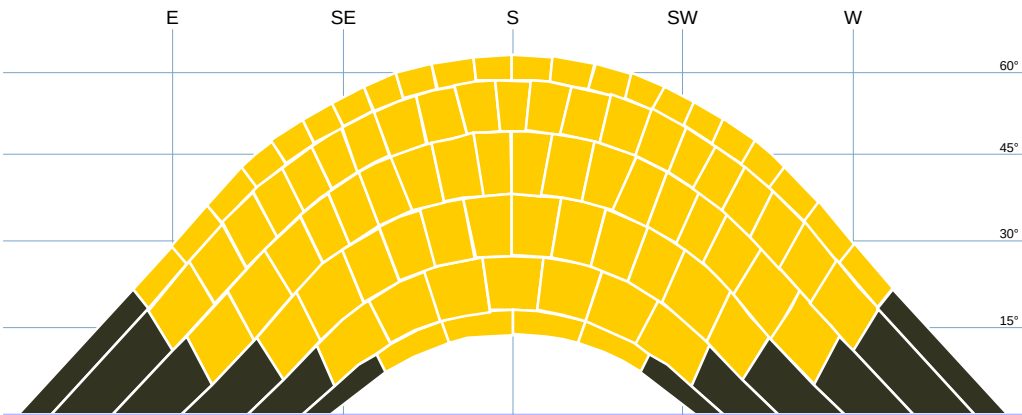
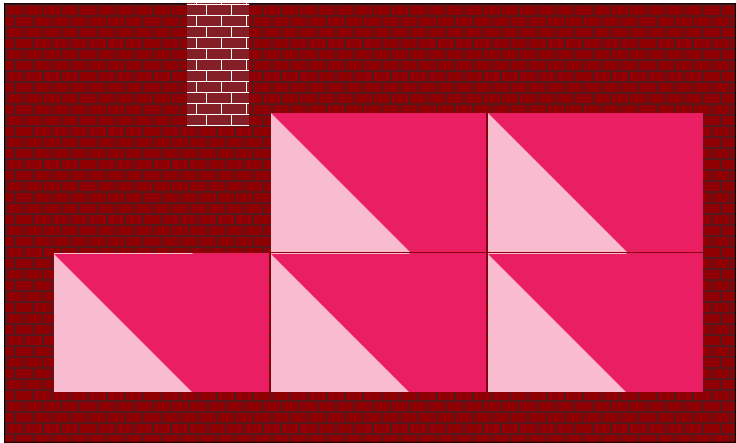
Installed capacity of PV system – kWp (stc)	3.600	kWp
Orientation of the PV system – degrees from South	20	°
Inclination of system – degrees from horizontal	48	°
Postcode region	6	



B. Performance calculations

kWh/kWp (Kk)	915	kWh/kWp
Shade factor (SF)	1.00	
Estimated output (kWp × Kk × SF)	3294	kWh

Input 3



A. Installation data

Installed capacity of PV system – kWp (stc)	2.250	kWp
Orientation of the PV system – degrees from South	-35	°
Inclination of system – degrees from horizontal	40	°
Postcode region	6	



B. Performance calculations

kWh/kWp (Kk)	902	kWh/kWp
Shade factor (SF)	1.00	
Estimated output (kWp × Kk × SF)	2030	kWh

Performance Summary

A. Installation data		
Installed capacity of PV system – kWp (stc)	9.45	kWp
Orientation of the PV system – degrees from South	See individual inputs	
Inclination of system – degrees from horizontal	See individual inputs	
Postcode region	6	
B. Performance calculations		
kWh/kWp (Kk)	See individual inputs	
Shade factor (SF)	See individual inputs	
Estimated output (kWp × Kk × SF)	8654	kWh

Important Note: The performance of solar PV systems is impossible to predict with certainty due to the variability in the amount of solar radiation (sunlight) from location to location and from year to year. This estimate is based upon the standard MCS procedure is given as guidance only for the first year of generation. It should not be considered as a guarantee of performance.

This system performance calculation has been undertaken using estimated values for array orientation, inclination or shading. Actual performance may be significantly lower or higher if the characteristics of the installed system vary from the estimated values.



Financial

Generation

The system is expected to generate 8654 kWh per year initially, decreasing gradually as the solar cells degrade. Over the 30 year term of this financial projection the total generation is expected to be 244619 kwh, of which 157923 kWh will be consumed on site and 80792 kWh exported.

245
MWh

Payback

After adjusting projected costs and benefits for inflation, and applying a discount rate of 3.5%, the initial system cost of £13,647.26 is expected to be recouped after 7 years.

7
years

Net Present Value

The total present value of future benefits and costs, using a discount rate of 3.5% per year, is £72,848.53. The cost of the PV system is £13,647.26. The net present value of the project is therefore £59,201.27. A positive net present value is a good indication that the project is financially worthwhile.

£59201.
27

IRR

The Internal Rate of Return is a useful measure for comparing the relative profitability of investments.

16.6
%

Disclaimer

Our financial model calculates the benefits of a solar PV installation (such as savings in electricity, or payments for exported electricity) and costs (the initial purchase cost, and any future maintenance costs if entered), over the projected lifespan of the system. Values are corrected for inflation, system degradation, and discount rate - a measure that accounts for the fact that a promise of a monetary sum in the distant future is usually considered less valuable than the promise of the same sum in the near future.

A model is only as accurate as the assumptions it makes. You should consider whether the values chosen are appropriate for your situation. There are many variables that dictate the financial return of a solar installation and we cannot forecast how they may change in the future. This financial projection shows a likely scenario for future financial returns. Actual returns may vary significantly from this forecast.

Assumptions

Inflation rate	7.04%
Cost of electricity	£0.245 /kWh increases with inflation
System size	9.45 kWp degrades at 0.4% per year
Discount rate	3.5%
Projection length	30 years

Income and savings

The projected income from the system over the project lifetime in payments for generated and exported electricity, along with electricity savings, are shown in the table and graph below.

These figures assume an inflation rate of 7.04 percent.

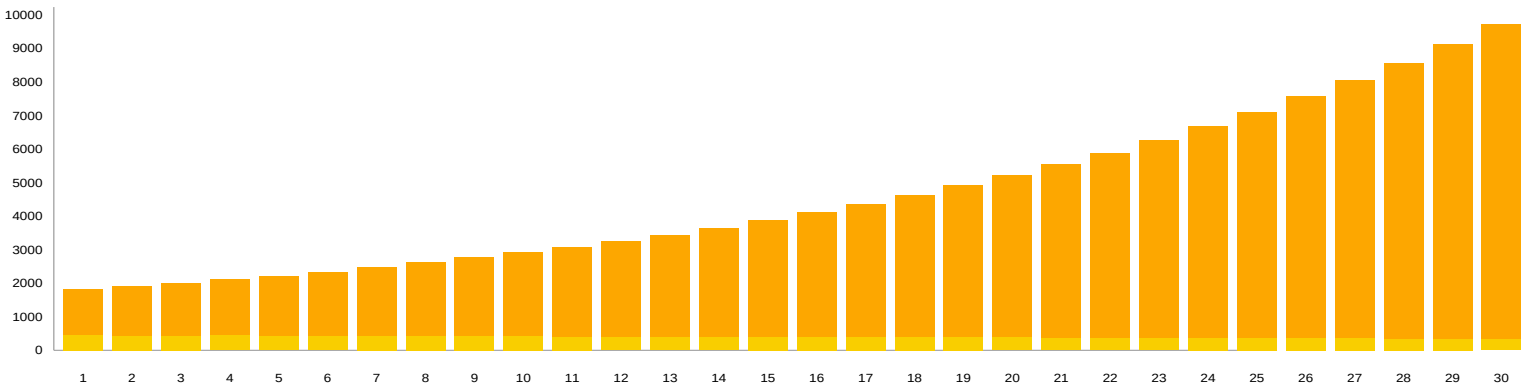
	Export payments	Electricity savings	Total
Year 1	457	1367	1825
Year 2	453	1461	1915
Year 3	449	1562	2011
Year 4	445	1669	2115
Year 5	442	1784	2225
Year 6	438	1906	2344
Year 7	434	2037	2471
Year 8	430	2177	2607
Year 9	426	2327	2753
Year 10	423	2487	2909
Year 11	419	2657	3076
Year 12	415	2840	3255
Year 13	412	3035	3446
Year 14	408	3243	3651
Year 15	405	3466	3870
Year 16	401	3704	4105
Year 17	398	3958	4355
Year 18	394	4229	4623
Year 19	391	4519	4910
Year 20	387	4829	5217
Year 21	384	5161	5545
Year 22	381	5515	5895
Year 23	377	5893	6270
Year 24	374	6297	6671
Year 25	371	6729	7099
Year 26	367	7190	7557
Year 27	364	7683	8047
Year 28	361	8209	8570
Year 29	358	8772	9130
Year 30	355	9373	9728

£12118

Total Export Payments
over 30 years

£12607
7

Electricity savings
over 30 years

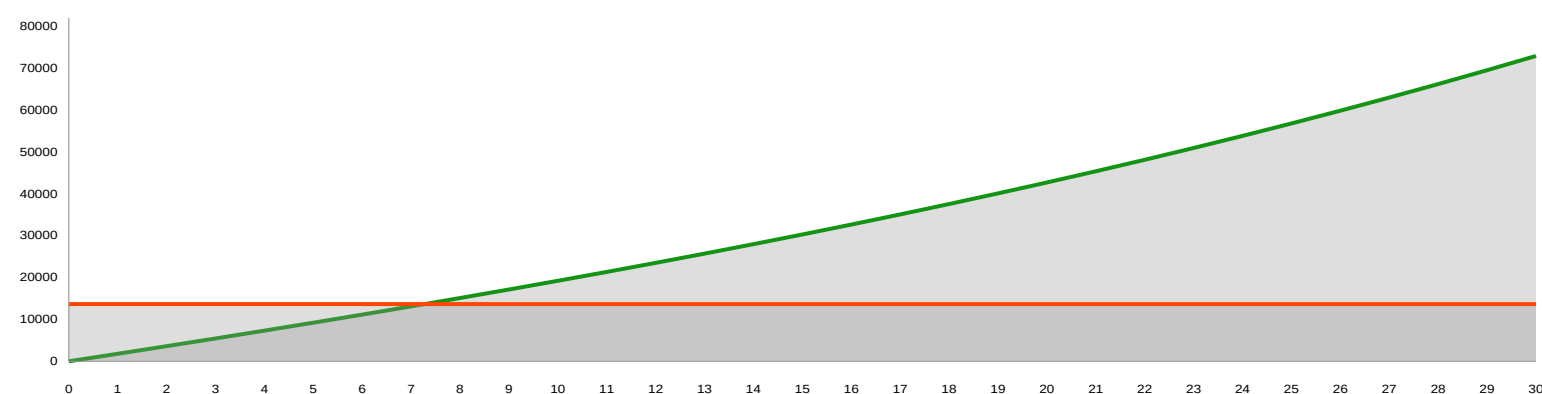


The bottom line

The table and graph below show the discounted costs for the project (including the initial capital required for the installation), against the total discounted benefits from income and savings on electricity bills.

The system pays for itself in 7 years.

	Discounted benefits	Cumulative benefits	Discounted costs	Cumulative costs	Cashflow
Year 1	1793	1793	0	13647	-11854
Year 2	1815	3608	0	13647	-10039
Year 3	1840	5448	0	13647	-8199
Year 4	1867	7315	0	13647	-6332
Year 5	1896	9211	0	13647	-4436
Year 6	1927	11138	0	13647	-2509
Year 7	1961	13099	0	13647	-548
Year 8	1996	15096	0	13647	1448
Year 9	2034	17130	0	13647	3482
Year 10	2074	19204	0	13647	5557
Year 11	2117	21321	0	13647	7673
Year 12	2161	23482	0	13647	9835
Year 13	2208	25690	0	13647	12043
Year 14	2257	27947	0	13647	14300
Year 15	2309	30257	0	13647	16609
Year 16	2363	32620	0	13647	18973
Year 17	2420	35040	0	13647	21392
Year 18	2479	37518	0	13647	23871
Year 19	2540	40059	0	13647	26412
Year 20	2605	42664	0	13647	29016
Year 21	2671	45335	0	13647	31688
Year 22	2741	48076	0	13647	34429
Year 23	2813	50889	0	13647	37242
Year 24	2888	53777	0	13647	40130
Year 25	2966	56744	0	13647	43096
Year 26	3047	59791	0	13647	46143
Year 27	3131	62922	0	13647	49274
Year 28	3218	66139	0	13647	52492
Year 29	3308	69447	0	13647	55800
Year 30	3401	72849	0	13647	59201



PV Solar Quotation Breakdown

John Hancock
Church Farm Main Street, Leicester, LE9 9NL



Date: 16/12/2024
Quotation Reference: GG-333733-3

Equipment Costs

PV Equipment, Associated Materials and Delivery	£10,601.52
Total equipment cost	£10,601.52

Services Costs

Electrical and Roofing Work	£2,364.02
Access Equipment	£1,400.00
Total services cost	£3,764.02

Totals

Total before tax	£14,365.54
VAT at 0.00%	£0.00
Total including tax	£14,365.54
PV Solar Discount	£718.28
Grand Total	£13,647.26

Our intention is to give you a full and clear cost for the installation of the system. Providing nothing unforeseen should occur, the only additional costs, where not included above, would be those associated with any charges from your distribution network operator, structural or planning related costs, or scaffolding design considerations, should they be required.

The SEG tariff used is based on today's prices and is likely to change regularly and may go up or down. You may have to change Suppliers and you should also check that the rate you buy your electricity at does not outweigh the benefits of changing. The figures used should be considered an illustration and will differ, up or down, during the lifetime of your solar system.

When you are ready to proceed with the quotation above, please call us on 0330 113 9178 and we'll set things up for you.

Additional Information

Full Terms and Conditions apply and these are available at
<https://www.glowgreenltd.com/terms-and-conditions/renewables>

How We'll Ask You To Pay



We have a selection of ways that you can choose to pay:

If you want to pay us directly

We'll ask you to pay a £200 fully-refundable holding fee so that we can book your pre-installation consultation call and finalise your order.

Once this is completed, we'll ask you to sign your quote and we'll ask for a 25% deposit card payment to cover any planning and preparatory works and secure your booking. This payment, which will include the £200 holding fee that you have already paid, will be fully protected under the HIES Deposit Protection Scheme and we will write to you with details of this.

When we have allocated the materials needed for your installation, we will ask you for a further 35% advance payment to cover these costs. This advance payment is not protected under the HIES Deposit Protection Scheme but we will only ask you for this when your materials are either available and ready to be dispatched to you or are inbound from our suppliers. This will typically be around 20 days before your installation date but never more than 28 days.

Once we have completed and audited your installation, we will notify you that the outstanding balance is due.

If you choose to finance part of your purchase with a credit agreement from one of our panel of lenders

Once you have selected the amount of your contract price that you wish to finance, which may include an optional deposit if you wish to make one, we will need you to complete, and be approved for, a credit application by the relevant lender (who will confirm this to us), and must sign your credit agreement that the lender will have provided to you (they will confirm this to us too).

Once this has happened, we will ask you for a £200 fully-refundable holding fee to allow us to book your pre-installation consultation call to finalise your order. This payment (and any deposit amount you may choose to make) will be fully protected under the HIES Deposit Protection Scheme and we will write to you with details of this.

For anything not covered by the initial deposit and amount you have chosen to finance we will ask you for a further advance payment to pay the difference. This will typically be around 20 days before your installation date but never more than 28 days.

Once we have completed your installation, you must sign a document confirming that the installation has been completed. At this point, the lender will pay us for the remaining value of your purchase and your credit agreement with them will be live. Any remaining balance will be repaid to the lender under the terms of your separate agreement with them.

The Finance options detailed below are bespoke to you and your order. These may differ if you decide to change the panels or other equipment detailed in this quote. The eligibility criteria for these finance options may be different if you change your order so you should think carefully about which is the best option for you.

FINANCE OPTIONS: Representative Examples

Plan + Term	Deposit	Loan Amount	Total Amount Payable	Interest Rate	Monthly Payment
Personal Loan 180mths	£200.00	£13,447.26	£28,164.80	11.9%	£155.36
Personal Loan 120mths	£200.00	£13,447.26	£22,700.00	11.9%	£187.50
Personal Loan 60mths	£200.00	£13,447.26	£17,862.20	11.9%	£294.37
Personal Loan 36mths	£200.00	£13,447.26	£16,117.04	11.9%	£442.14

Representative 11.9% APR (fixed)

Your quotation and design will be verified by the Energy Performance Validation Scheme. This is a certification standard used by credible installers to independently ensure that the energy-saving, generating and/or storing calculations/estimates for your home energy solution are accurate and valid.



PV Solar Order Confirmation



John Hancock
Church Farm Main Street, Leicester, LE9 9NL

Date: 16/12/2024
Quotation Reference: GG-333733-3

Order Confirmation

By signing, you are confirming your order of the system detailed on the Order Quotation Breakdown. Please retain the quotation for your records.

We/I confirm the order for the products and installation services specified.

We/I agree to the total cost and payment terms set out above.

We/I have read and agree to abide by the Terms and Conditions of the Contract provided.

Stock Availability

By placing an order with Glow Green you take advantage of our relationship with the major suppliers in renewable technologies. Our UK based warehouse holds stock of the key components we need to install your system and we receive regular deliveries direct from the suppliers. We can start allocating this stock to you once the 35% advance payment is made.

DNO's Model Form of Letter Of Authority Confirmation

By signing, I/we at the address Church Farm Main Street, Leicester, LE9 9NL, confirm that I/we are the legal and registered owner of the land situated at Church Farm Main Street, Leicester, LE9 9NL.

We would like to confirm that we have exclusively appointed Glow Green LTD to develop a roof top solar PV system on our land and hereby grant permission for them or any consultant that they may authorise to seek and apply for a grid connection on our land for the purpose of connecting a Solar PV System project to the local electricity distribution network.

Planning Permission Confirmation

By signing, I/we are confirming that we have received Planning Permission or a Building Warrant for the proposed installation, or ascertained that these are not required. Glow Green Ltd cannot be held responsible for any installations where Planning Permission or a Building Warrant was required but not obtained, and no refunds will be offered.

Customer Signature Agreeing To Above

Name: John Hancock

Date:

Signature:
