Adfield Electrical

Solar PV Performance Estimate

Project Reference:	WBCH
Installation Address:	Worthing Baptist Church - Christchurch Road Worthing BN11 1JH
Survey carried out by:	James Adfield
Date of survey	20/3/2025

The Microgeneration Certification Scheme (MCS) requires us to provide to the customer a performance estimate based on the standard procedure set out in the Microgeneration Installer Standard for Solar Photovoltaic systems – MIS 3002.

When examining this performance estimate you need to be aware of the following disclaimer that we are required to issue to you:

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, given as guidance only for the first year of generation. It should not be considered as a guarantee of performance.

The solar PV self-consumption has been calculated in accordance with the most relevant methodology for your system. There are a number of external factors that can have a significant effect on the amount of energy that is self-consumed so this figure should not be considered as a guarantee of the amount of energy that will be self-consumed.

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.

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A. Installation Data (String 1)		
Installed capacity of PV system – kWp (stc)	8.9	kWp
Orientation of the system – degrees from south:	5	-
Inclination of system – degrees from horizontal:	50	-
Postcode region	Zone 2 - Brighton	
B. Performance Calculations (String 1)		
kWh/kWp (Kk) from table	1114	kWh/kWp
Shade Factor (SF)	1.00	
Estimated annual output (kWp x kWh x SF)	9914.60	kWh
A. Installation Data (String 2)		
Installed capacity of PV system – kWp (stc)	8.9	kWp
Orientation of the system – degrees from south:	5	-
Inclination of system – degrees from horizontal:	50	-
Postcode region	Zone 2 - Brighton	
B. Performance Calculations (String 2)		
kWh/kWp (Kk) from table	1114	kWh/kWp
Shade Factor (SF)	1.00	
Estimated annual output (kWp x kWh x SF)	9914.60	kWh
C. Estimated PV self-consumption – PV Only		
Assumed occupancy archetype	Home all day	
Assumed annual electricity consumption, kWh	3500	kWh
Assumed annual electricity generation from solar PV system, kWh	19829.2	kWh
Expected solar PV self-consumption (PV Only) *(%self-consumption from lookup table 9 in MGD 003 x total solar PV generation per annum in kWh)*	1785	kWh
Grid electricity independence / Self-sufficiency (PV Only) *(Solar PV self-consumption in kWh divided by annual electricity demand in kWh)*	51	%

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The Figures

If the system performs in line with our predictions the following would apply, remember, we have assumed that you are home all day. We have assumed you will **self-consume 9%** of the energy produced by your PV system, as determined by the method set out in MGD 003, therefore **exporting 91%**.

Annual Benefits		
Grid independence: Estimated annual electricity savings PV self-consumption (kWh) x electricity tariff (£) (e.g. 1604 x 0.28)	**£803.25**	**per year**
Annual income generated from Smart Export Guarantee % export of PV output x SEG rate from Energy Provider / 100 e.g. 54% *(to be exported)* of 2631 *(PV output))* = 1420.74 x 5p *(SEG rate)* / 100 = £71.04	**£2706.69**	**per year**

Note: Smart Export Guarantee rates differ between energy providers and can change at their discretion. Please also be aware there is no current set minimum number of years of eligibility for the Smart Export Guarantee. The amount above is per annum based on your energy provider's current SEG rates.

Payback Period

How long will it take for the System to pay for itself?

None of us can predict accurately what will happen in the future when it comes to inflation and electricity prices, so for the payback time we have assumed no increases in electricity prices. This is only a rough guide, as there may be maintenance costs to be considered.

To calculate how long the system will take to pay for itself, we can divide the total cost you have paid for the system and divide it by the estimated benefit you will receive each year.

Total installation cost:	£12398
Estimated annual benefit (for 20 years):	£3509.94
Estimated annual benefit (afterwards):	£803.25
Payback Period (installation cost divided by estimated annual benefit):	3.53 years

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