

Plot 2, Timms Drove,
Swineshead,
Lincolnshire,
PE20 3PG



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1st March 2023

To whom it may concern,

Re – Preliminary DESIGN SAP summary for the above proposed new dwelling, application ref B/21/0499


Pursuant to section 10 of the above outline planning application reproduced below,

10. When application is made for the approval of the reserved matters, that application shall show details of the measures listed on Drawing 203 (Proposed Landscape, Environmental & Ecological Enhancements Plan) that aim to reduce pollution and resource use, and promote the use of renewable and low carbon energy, together with details relating to the timing of their implementation.

The development shall be constructed in accordance with the approved measures.

Reason: To help reduce pollution and resource use, and to promote the use of renewable and low carbon energy, and to accord with Policies 1, 2, 3, 30 and 31 of the South East Lincolnshire Local Plan 2011-2036.

It is demonstrated below that the inclusion of a solar PV array as indicated on the approved plans & elevations (noting that specific specifications concerning total installed capacity have yet to be finalised by the applicant) will *of itself* reduce CO₂ emissions by 0.26 tonnes per year when compared with an identical dwelling that does NOT feature any solar PV installation. We confirm that A PV array SIMILAR to that indicated will be installed during the course of the construction of the new dwelling & will be commissioned prior to completion & lodgement of an EPC.

Summary for Input Data					
Property Reference	22-049		Issued on Date	01/03/2023	
Assessment Reference	003-ASSUMED solar PV array		Prop Type Ref		
Property	Plot 2, Timms Drove, Swineshead, Lincolnshire, PE20 3PG				
SAP Rating	82 B	DER	3.42	TER	9.11
Environmental	96 A	% DER < TER	62.46		
CO ₂ Emissions (t/year)	0.69	DFEE	47.49	TFEE	48.62
Compliance Check	See BREL	% DFEE < TFEE	2.33		
% DPER < TPER	22.13	DPER	37.77	TPER	48.51
Assessor Details	Mr. Kevin Hopton			Assessor ID	P190-0001
Client					

Summary for Input Data



Property Reference	22-049	Issued on Date	01/03/2023
Assessment Reference	004-NO solar PV	Prop Type Ref	
Property	Plot 2, Timms Drove, Swineshead, Lincolnshire, PE20 3PG		
SAP Rating	77 C	DER	4.42
Environmental	95 A	TER	9.11
CO ₂ Emissions (t/year)	0.95	% DER < TER	51.48
Compliance Check	See BREL	DFEE	47.49
% DPER < TPER	4.78	TFEE	48.62
		% DFEE < TFEE	2.33
		DPER	46.19
		TPER	48.51
Assessor Details	Mr. Kevin Hopton	Assessor ID	P190-0001
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The margin of pass above & beyond current building regulations when comparing DER (Dwelling emission rate), with TER (Target emission rate), is 62.4% - See assessment ref 003 above when a solar PV array is installed.

For further refence, both calculation summaries 003-with PV & 004-without PV are attached to this email. Upon inspection, the reader will see that a SAP default air source heat pump is included in both illustrations.

Yours faithfully,

Kevin Hopton

On-Construction Domestic Energy Assessor – P190-0001