Summary for Input Data

elmhurst energy

Property Reference	R22-HMS-240503-01	**Issued on Date**	14/05/2024
Assessment Reference	003 + PV	**Prop Type Ref**	
Property	THE GRANARY, HAWKESBOURNE FARM, HORSHAM, RH12 4QR		

SAP Rating	69 C	**DER**		**TER**	
Environmental	93 A	**% DER < TER**			N/A
CO_2 Emissions (t/year)	0.52	**DFEE**		**TFEE**	
Compliance Check	See BREL	**% DFEE < TFEE**			
% DPER < TPER		**DPER**		**TPER**	

Assessor Details	Mr. Robin Thom	**Assessor ID**	P150-0001
Client	Admin, Admin		

SUMMARY FOR INPUT DATA FOR: Conversion (As Designed)

Orientation	North	
Property Tenture	ND	
Transaction Type	6	
Terrain Type	Suburban	
1.0 Property Type	House, Detached	
2.0 Number of Storeys	2	
3.0 Date Built	2024	
4.0 Sheltered Sides	0	
5.0 Sunlight/Shade	Average or unknown	
6.0 Thermal Mass Parameter	Enter TMP value	
Thermal Mass	250.00	kJ/m²K
7.0 Electricity Tariff	24 Hour	
Smart electricity meter fitted	No	
Smart gas meter fitted	No	

7.0 Measurements

	Heat Loss Perimeter	Internal Floor Area	Average Storey Height
Ground floor:	16.51 m	29.51 m²	2.17 m
1st Storey:	31.99 m	47.18 m²	2.25 m

8.0 Living Area	29.51	m²

9.0 External Walls

Description	Type	Construction	U-Value (W/m²K)	Kappa (kJ/m²K)	Gross Area(m²)	Nett Area (m²)	Shelter Res	Shelter	Openings	Area Calculation Type
External Wall 1	Timber Frame	Other	0.14		52.65	46.07	0.00	None	6.58	Enter Nett Area
External Wall 2	Timber Frame	Other	0.14		24.80	24.80	0.50	Room In Roof	0.00	Enter Nett Area
External Wall 3	Cavity Wall	Other	0.14		12.99	12.99	0.68	Garage Single 1 Inside	0.00	Enter Nett Area
DORMER	Timber Frame	Other	0.14		5.68	5.68	0.00	None	0.00	Enter Nett Area

10.0 External Roofs

Description	Type	Construction	U-Value (W/m²K)	Kappa (kJ/m²K)	Gross Area(m²)	Nett Area (m²)	Shelter Code	Shelter Factor	Calculation Type	Openings
External Roof 1	External Plane Roof	Plasterboard, insulated at ceiling level	0.15	9.00	16.76	16.76	None	0.00	Enter Nett Area	0.00
External Roof 2	External Slope Roof	Plasterboard, insulated slope	0.65	9.00	30.15	27.91	None	0.00	Enter Nett Area	2.24
DORMER	External Plane Roof	Plasterboard, insulated at ceiling level	0.15	9.00	6.60	6.60	None	0.00	Enter Nett Area	0.00
External Roof 4	External Plane Roof	Plasterboard, insulated at ceiling level	0.15	9.00	16.72	16.72	Room In Roof	0.50	Enter Nett Area	0.00

11.0 Heat Loss Floors

Description	Type	Storey Index	Construction	U-Value (W/m²K)	Shelter Code	Shelter Factor	Kappa (kJ/m²K)	Area (m²)
Heat Loss Floor 1	Ground Floor - Solid	Lowest occupied	Other	0.29	None	0.00	0.00	2.91
Heat Loss Floor 2	Ground Floor - Solid	+1	Other	0.29	Garage Single 1 Inside	0.68	0.00	26.60

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Opening Type 1	Manufacturer	Half Glazed Door	Double Low-E Soft 0.05			0.63		0.70	1.40

Opening Type 2	Manufacturer	Window	Double Low-E Soft 0.05	0.63	0.70	1.40
Opening Type 3	Manufacturer	Roof Window	Double Low-E Soft 0.05	0.63	0.70	1.40
Opening Type 4	Manufacturer	Roof Window	Double glazed	0.76	0.70	2.80

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
Opening 1	Opening Type 1	External Wall 1	North	2.73	
Opening 2	Opening Type 2	External Wall 1	North	1.05	
Opening 3	Opening Type 2	External Wall 1	South	1.20	
Opening 4	Opening Type 2	External Wall 1	East	0.80	
Opening 5	Opening Type 2	External Wall 1	West	0.80	
Opening 6	Opening Type 3	External Roof 2	South	0.76	0
Opening 7	Opening Type 3	External Roof 2	North	0.76	0
Opening 8	Opening Type 4	External Roof 2	South	0.72	0

14.0 Conservatory	None	
15.0 Draught Proofing	100	%
16.0 Draught Lobby	No	
17.0 Thermal Bridging	Default	
Y-value	0.20	W/m²K
18.0 Pressure Testing	Yes	
Designed AP_{50}	5.00	m³/(h.m²) @ 50 Pa
Property Tested?	Yes	
Test Method	Blower Door	
19.0 Mechanical Ventilation		
Mechanical Ventilation		
Mechanical Ventilation System Present	No	
20.0 Fans, Open Fireplaces, Flues		
21.0 Fixed Cooling System	No	
22.0 Lighting		
No Fixed Lighting	No	

Name	Efficacy	Power	Capacity	Count
Low energy Lighting	114.00	4	456	8

24.0 Main Heating 1	SAP table	
Percentage of Heat	100.00	%
Fuel Type	Electricity	
SAP Code	691	
In Winter	100.00	
In Summer	100.00	
Controls SAP Code	2603	
PCDF Controls	0	
25.0 Main Heating 2	None	
26.0 Heat Networks	None	

	Heat Source	Fuel Type	Heating Use	Efficiency	Percentage Of Heat	Heat	Heat Power Ratio	Electrical	Fuel Factor	Efficiency type
Heat source 1										
Heat source 2										
Heat source 3										
Heat source 4										
Heat source 5										

28.0 Water Heating		
Water Heating	Independent	
SAP Code	909	
Fuel Type	Electricity	
Flue Gas Heat Recovery System	No	

Summary for Input Data

Waste Water Heat Recovery Instantaneous System 1	No
Waste Water Heat Recovery Instantaneous System 2	No
Waste Water Heat Recovery Storage System	No
Solar Panel	No
Water use <= 125 litres/person/day	Yes
Cold Water Source	From mains
Bath Count	1

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder	None
In Airing Cupboard	No

32.0 Photovoltaic Unit	One Dwelling
Export Capable Meter?	Yes
Connected To Dwelling	Yes
Diverter	Yes
Battery Capacity [kWh]	2.00

PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
4.00	South	30°	None Or Little		No	1.00		

34.0 Small-scale Hydro	None

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Recommendations

Lower cost measures

None

Further measures to achieve even higher standards

Typical Cost	Typical savings per year	Ratings after improvement SAP rating	Environmental Impact
£4,000 - £6,000	£47	C 72	A 94
		0	0
		0	0