Summary for Input Data

elmhurst energy

Property Reference	Grove House	**Issued on Date**	03/09/2025
Assessment Reference	00001	**Prop Type Ref**	Grove House
Property			

SAP Rating	56 D	**DER**	16.08	**TER**	
Environmental	88 B	**% DER < TER**			N/A
CO_2 Emissions (t/year)	0.96	**DFEE**	93.48	**TFEE**	
Compliance Check	N/A	**% DFEE < TFEE**			
% DPER < TPER		**DPER**	175.79	**TPER**	

Assessor Details	Mr. James Gradwell	**Assessor ID**	BJ35-0001
Client			

SUMMARY FOR INPUT DATA FOR: Conversion (As Built)

Orientation	West	
Property Tenture	ND	
Transaction Type	6	
Terrain Type	Suburban	
1.0 Property Type	Flat, Semi-Detached	
Position of Flat	Top-floor flat	
Which Floor	1	
2.0 Number of Storeys	2	
3.0 Date Built	2025	
4.0 Sheltered Sides	1	
5.0 Sunlight/Shade	Average or unknown	
6.0 Thermal Mass Parameter	Precise calculation	
Thermal Mass	96.78	kJ/m²K
7.0 Electricity Tariff	7 Hour Off Peak	
Smart electricity meter fitted	No	
Smart gas meter fitted	No	

7.0 Measurements

	Heat Loss Perimeter	Internal Floor Area	Average Storey Height
Ground floor:	20.70 m	30.89 m²	2.50 m
1st Storey:	21.66 m	32.07 m²	2.30 m

8.0 Living Area	29.50	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 walls	Solid Wall	Solid wall : plasterboard on dabs, insulation, any outside structure	0.55	9.00	93.50	87.43	0.00	None	6.07	Enter Gross Area
Corridor	Solid Wall	Solid wall : plasterboard on dabs, insulation, any outside structure	0.55	9.00	4.70	2.70	0.60	Stairwell Access Corridor 2	2.00	Enter Gross Area

9.1 Party Walls

Description	Type	Construction	U-Value (W/m²K)	Kappa (kJ/m²K)	Area (m²)	Shelter Res	Shelter
Party Wall 1	Solid Wall	Single plasterboard on dabs on both sides, dense blocks, cavity or cavity fill	0.00	70.00	34.00		None

9.2 Internal Walls

Description	Construction	Kappa (kJ/m²K)	Area (m²)
Internal Wall 1	Plasterboard on timber frame	9.00	42.00

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 Slope Roof	Plasterboard, insulated slope	0.35	9.00	47.20	47.20	None	0.00	Enter Gross Area	0.00

10.2 Internal Ceilings

Summary for Input Data

Description	Storey	Construction	Area (m²)
Internal Ceiling 1	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	32.00

11.1 Party Floors

Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
Party Floor 1	Lowest occupied	Precast concrete planks floor, screed, carpeted	40.00	30.89

11.2 Internal Floors

Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
Internal Floor 1		Plasterboard ceiling, carpeted chipboard floor	18.00	32.00

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Glazing	Manufacturer	Window	Double glazed			0.76		0.70	1.40
Solid door	Manufacturer	Solid Door				0.00			1.00

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
E	Glazing	External walls	East	1.40	
W	Glazing	External walls	West	4.67	
S	Solid door	Corridor	South	2.00	

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

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present	No

20.0 Fans, Open Fireplaces, Flues

Number of open chimneys	0
Number of open flues	0
Number of chimneys/flues attached to closed fire	0
Number of flues attached to solid fuel boiler	0
Number of flues attached to other heater	0
Number of blocked chimneys	0
Number of intermittent extract fans	2
Number of passive vents	0
Number of flueless gas fires	0

21.0 Fixed Cooling System	No	
22.0 Pressure Testing	No	
Test Method	Blower Door	

22.0 Lighting

No Fixed Lighting	No				
	Name	**Efficacy**	**Power**	**Capacity**	**Count**
	Lighting 1	85.00	5.00	425.00	5

24.0 Main Heating 1	SAP table	
Percentage of Heat	100.00	%
Fuel Type	Electricity	
SAP Code	409	
In Winter	100.00	
In Summer	100.00	
Controls SAP Code	2404	

Summary for Input Data

	Number Of Heaters	PCDF Index
	2	697101 m

25.0 Main Heating 2	None
26.0 Heat Networks	None
27.0 Secondary Heating	None

28.0 Water Heating

Water Heating	Independent
SAP Code	909
Fuel Type	Electricity
Flue Gas Heat Recovery System	No
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	0

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Shower 1	Instantaneous electric shower		9.30	No	

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder	None
In Airing Cupboard	No

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
			0	0
			0	0
			0	0

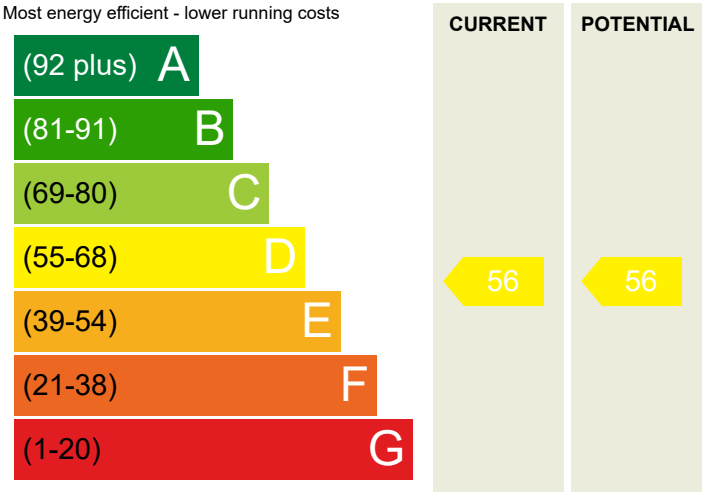
Energy Report

Dwelling Address	
Reference	Grove House-00001
Assessment Date	01/09/2025
Submission Date	
Property Type	Flat, Semi-Detached
Total Floor Area	63

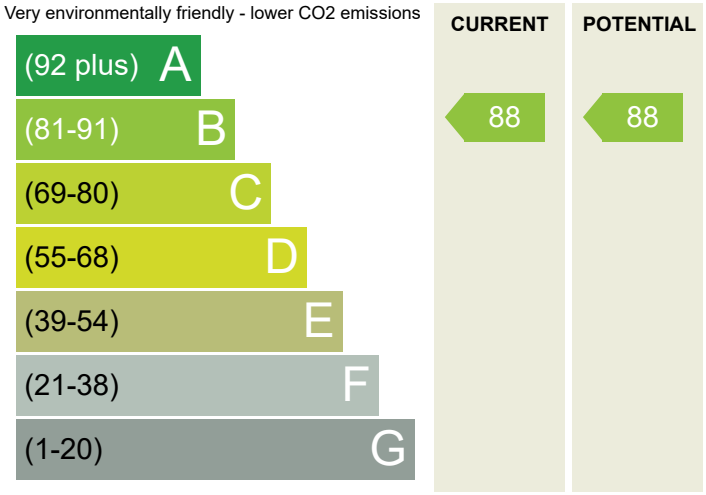
This Energy Report has been generated using the UK's National Calculation Methodology for dwellings, Standard Assessment Procedure (SAP). This methodology is used to assess the energy efficiency of dwellings which is calculated based on a dwelling's heating, hot water, ventilation and lighting usage.

This document is not an Energy Performance Certificate (EPC) as required by the Energy Performance of Buildings Regulations

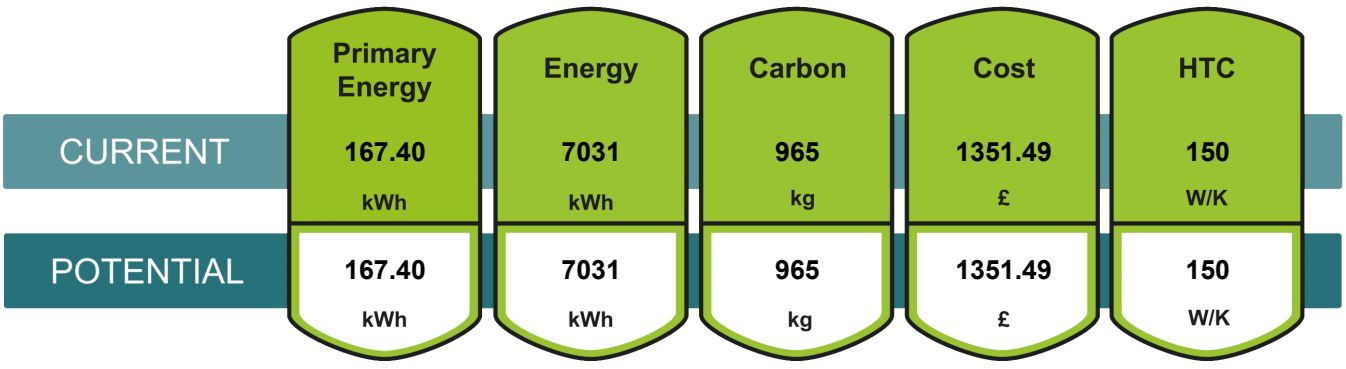
Energy Efficiency Rating



Carbon Dioxide (CO2) Emissions Rating



Additional ratings for your home



Energy Report

Breakdown of property's energy performance

Each feature is assessed as one of the following:

Very Poor	Poor	Average	Good	Very Good

Feature	Description	Energy Performance
Walls	Average thermal transmittance 0.55 W/m²K	Good
Roof	Average thermal transmittance 0.35 W/m²K	Average
Windows	High performance glazing	Good
Main heating	Electric storage heaters	Average
Main heating controls	Controls for high heat retention storage heaters	Good
Secondary heating	None	
Hot water	Electric instantaneous at point of use	Very Poor
Lighting	Good lighting efficiency	Good
Air tightness	(not tested)	

Recommendations

The recommended measures provided below will help to improve the energy efficiency of the dwelling.
To reach the dwelling's potential energy rating all of the recommended measures shown below would need to be installed.
Having these measures installed individually or in any other order may give a different result when compared with the cumulative potential rating.

Recommended measures	Cumulative savings (per year)	Cumulative rating	Typical costs	Incremental savings (per year)	Cumulative CO2 rating

The typical cost is based on average installation prices across the country so may not be representative of the actual costs in your area.

Estimated energy costs of the dwelling

The table below shows the estimated running costs of the space and water heating and lighting within the dwelling. It does not include the energy used from household appliances. The estimated annual costs after potential improvements indicates the total

energy cost if all recommended measures named above were installed.

	Estimated annual costs	Estimated annual costs after potential improvements	Potential future savings
Lighting	£74	£74	You could save £0
Heating	£902	£902	
Hot Water	£375	£375	
New Technologies e.g. Impact of PV	£0	£0	
TOTAL	£1351	£1351	

Estimated energy use and potential savings

Space Heating
5657
kWh per year

Water Heating
459
kWh per year

About this document

Created by:	
Company/Trading name:	
Phone number:	
Email address:	

Disclaimer

This Energy Report should not under any circumstances be treated as a Condition Survey and cannot be used to indicate that any element of the dwelling (e.g.heating system) is working correctly.
This Energy Report must not be used in situations where an Energy Performance Certificate (EPC) is required.
This Energy Report is generated from a set of data inputs which may not reflect the actual dimensions, services or construction of the dwelling.
The calculation used to generate this report reflects the SAP Methodology current at the time of report generation.

Glossary terms for additional metrics

Primary Energy	The measure of the energy required for lighting, heating and hot water in a property. This includes the efficiency of the property's heating system, power station efficiency for electricity and the energy used to produce the fuel and deliver it to the property.
Energy Used	The estimated amount of fuel energy for lighting, heating and hot water for the property. The estimate is based on typical usage which is likely to be different to actual consumption.
Carbon (CO2)	The current emissions based on the energy estimates.
Cost	The estimated cost of energy. The cost of each unit of fuel is based on an industry standard which is likely to be different to those the occupier actually pays.
Heat Transfer Coefficient	Heat flow through the property envelope where internal and external temperatures are different.

Dwelling Sign Off Report

Property Reference	Grove House	Issued on Date	03/09/2025
Assessment Reference	00001	Prop Type Ref	Semi-Detached Flat
Property			

SAP Rating	56 D	DER	16.08	TER	
Environmental	88 B	% DER < TER			N/A
CO_2 Emissions (t/year)	0.96	DFEE	93.48	TFEE	
Compliance Check	N/A	% DFEE < TFEE			
% DPER < TPER		DPER	175.79	TPER	

Assessor Details	Mr. James Gradwell	Assessor ID	BJ35-0001
Client			

This report should be used for a client to confirm key assessment details for production of Energy Performance Certificates and should be retained as documentary evidence. It cannot be used in lieu of a BREL/BRWL/Compliance report for demonstrating Building Regulation compliance.

Section 1: Dwelling Information

Dwelling Address (Please confirm final postal address and post code of the dwelling.)

House Name		
House Number		
Postcode		
Street		
Town		
County		

Dwelling Orientation West (Please confirm orientation of main entrance door of the dwelling.)

Comments

Terrain Type Suburban

Property Type Flat, Semi-Detached

Comments

Electricity Tariff 7 Hour Off Peak

Smart electricity meter fitted No

Smart gas meter fitted No

Comments

Section 2: Dwelling Construction Details

External Walls

Description	External walls		
Type	Solid Wall		
Construction	Solid wall : plasterboard on dabs, insulation, any outside structure		
U-value	0.55	W/m²K	U-value calculations should be provided to verify the u-value entered into the Assessment
Gross Area	93.50	m²	

Description	Corridor		
Type	Solid Wall		
Construction	Solid wall : plasterboard on dabs, insulation, any outside structure		
U-value	0.55	W/m²K	U-value calculations should be provided to verify the u-value entered into the Assessment
Gross Area	4.70	m²	

Comments

Party Walls

Description	Type	Construction	U-Value (W/m²K)	Area (m²)
Party Wall 1	Solid Wall	Single plasterboard on dabs on both sides, dense blocks, cavity or cavity fill	0.00	34.00

Comments

External Roofs

Description: External Roof 1
Type: External Slope Roof
Construction: Plasterboard, insulated slope
U-value: 0.35 W/m²K U-value calculations should be provided to verify the u-value entered into the Assessment
Gross Area: 47.20 m²

Comments

Opening Types

Description	Data Source	Type	Glazing	G-value	Frame Type	U-Value (W/m²K)
Glazing	Manufacturer	Window	Double glazed	0.76		1.40
Solid door	Manufacturer	Solid Door		0.00		1.00

Comments

Openings

Name	Opening Type	Location	Orientation	Area (m²)
E	Glazing	External walls	East	1.40
W	Glazing	External walls	West	4.67
S	Solid door	Corridor	South	2.00

Comments

Thermal Bridging Default

Y-value: 0.200

Comments

Where specific construction details have been used documentary evidence should be provided to the SAP assessor, usually in the form of signed checklists.

Pressure Testing No

Property Tested? Yes

Test Method Blower Door

Where an air pressure test has been carried out a copy of the test certificate should be forwarded to the SAP assessor.

Comments

Section 3: Dwelling Systems

Fans, Open Fireplaces, Flues

Number of open chimneys	0
Number of open flues	0
Number of chimneys/flues attached to closed fire	0
Number of flues attached to solid fuel boiler	0
Number of flues attached to other heater	0
Number of blocked chimneys	0
Number of intermittent extract fans	2
Number of passive vents	0
Number of flueless gas fires	0

Comments

Fixed Cooling System No

Comments

Lighting

No Fixed Lighting No

Name	Efficacy (lm/W)	Power (W)	Capacity (lm)	Count
Lighting 1	85.00	5.00	425.00	5

Comments

Main Heating 1 SAP table

Fuel Type	Electricity	
Winter Efficiency	100.00	%
Summer Efficiency	100.00	%
Model Name		
Manufacturer		
System Type		
Flue Type	None or Unknown	
Fan Assisted Flue	No	
Heat Emitter	Radiators	
Flow Temperature	Unknown	
Flow Temperature Value		

Comments

Heating Controls

Description	Controls for high heat retention storage heaters
Boiler Interlock	Yes
Delayed Start Stat	Yes
PCDF Control Description	

Comments

Main Heating 2	None
Secondary Heating	None

Water Heating System

Water Heating	Independent
Supplementary Immersion	No
SAP Code	909
Water use <= 125 l/p/day	Yes
Cold Water Source	From mains
Number of baths	0

Comments

Hot Water Cylinder	None

Comments

Showers

Dwelling Sign Off Report

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Shower 1	Instantaneous electric shower	12.00	9.30	No	

Comments

Waste Water Heat Recovery System

Comments

Section 4: Dwelling Renewable Energy

Photovoltaic Unit None

Section 5: Declaration

I confirm to the best of my knowledge the details provided in this report are an accurate representation of how the dwelling has been constructed.

Signed .....

Date .....