# Summary for Input Data



Property Reference	existing p	existing plots 1 and 2				lssi	ued on Da	ite	19/12/202	3		
Assessment Reference	00001	00001 Pr			Prop T	ype Re	f					
Property												
SAP Rating			46 F	DER					TER			
Environmental			37 F	% DER < '	TER						N/A	
CO <sub>2</sub> Emissions (t/year)			5.67	DFEE					TFEE			
Compliance Check			See BREL	% DFEE <	TFEE	L						
% DPER < TPER				DPER					TPER			
Assessor Details	Mr. Neil Stalla	ırd							Assess	or ID	F053-0	001
Client	IS, Ian Smillie	1										
SUMMARY FOR INPUT	DATA FOR:	Existing Dwe	elling									
Orientation			North									
Property Tenture			1									
Transaction Type			5									
Terrain Type			Rural									
1 0 Proporty Type			Rungalow Detached									
2.0 Number of Storeus												
2.0 Number of Storeys			1									
4.0 Sheltered Sides			0									
5.0 Sunlight/Shade			Average or unknown									
6.0 Thermal Mass Paramete	er		Precise calculation									
7.0 Electricity Tariff			Standard									
Smart electricity meter fitt	ed		No									
Smart gas meter fitted			No									
7.0 Measurements												
			Ground floor	Heat Lo	<b>ss Peri</b> 3.60 m	meter	Inte	68.0	Floor Area 00 m²	a Av	erage Stor 2.40	m m
8.0 Living Area			20.00						m²			
9.0 External Walls												
Description T	ype C	onstruction		U-Value K (W/m <sup>2</sup> K) (k.	appa G I/m²K) Are	iross Ne ea(m²)	ett Area S	helter Res	Shelt	er O	penings Are	a Calculation
External Wall S	system Build C	Other		2.17 (	0.00 8	0.64	68.91	0.00	Non	e	11.73 Calc	ulate Wall Area
9.2 Internal Walls		• • •										• ( 2)
Description		Constructio	on								Kappa (kJ/m²K)	Area (m²)
Internal Wall		Plasterboar	d on timber frame								9.00	45.00
10.0 External Roofs	Turne	Const			hua 16-			N-44	0h a 14 -	Ok - 14 -	Colouist	n0n!
Description	туре	Construction		U-va (W/m	iue Kap <sup>2</sup> K)(kJ/r	n²K)Ar	ea(m²)	Area	Code	Factor	Type	nOpenings
External Roof	External Plane Roof	Plasterboard, i	nsulated at ceiling leve	I 0.8	3 9.0	00 6	8.00 6	<b>(m²)</b> 58.00	None	0.00	Calculate Wall Area	0.00
11.0 Heat Loss Floors	_											
Description	Type	Storey Index	Construction	an in culation		U-Va (W/m	llue n²K)	She	elter Code	S F	helter Kap actor (kJ/m	pa Area (m²) I²K)
Heatloss Floor	Ground Floor - Solid	Lowest occupied	Siab on ground, screed ov	er insulation		0.6	0		None		0.00 0.0	0 68.00
Description	Data Source	Туре	Glazing		G	lazing	Filling	g (	G-value	Frame	Frame	U Value
windows front door	SAP table SAP table	Window Solid Door	Double glazed		2	бар 16 mm	Air Fill	ed	0.76	PVC	0.70	2.70 3.00
13.0 Openings												
Name north	Opening Ty	ре	Location			Orient	tation		Area (1	m²)	Р	itch
	front door		External Wall			INO			1.02	,		
north	front door windows		External Wall External Wall			No	rth ith		3.80	, ) )		

# Summary for Input Data



west	windows	External Wall		West	0.45	
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		No			]	
Test Method		Blower Door			]	
19.0 Mechanical Ventilation Mechanical Ventilation Mechanical Ventilation	System Present	No			]	
20.0 Fans, Open Fireplaces, Flu	Jes					
21.0 Fixed Cooling System		No			]	
22.0 Lighting						
Lighting Capacity Calculation		List of Lights Name Lighting 1	Efficacy 80.00	Power 5	Capacity 400	Count 10
24.0 Main Heating 1		Database			]	
Percentage of Heat		100.00			8	
Database Ref. No.		17538			]	
Fuel Type		Heating oil			]	
In Winter		83.30			]	
In Summer		80.50			]	
Model Name		Greenstar Danesmo	oor System Utility		]	
Manufacturer		Bosch Thermotechr	nology		]	
System Type		Regular boiler			]	
Controls SAP Code		2113			]	
Delayed Start Stat		No			]	
Oil Pump Inside		No			]	
Flue Type		Balanced			]	
Fan Assisted Flue		No			]	
Is MHS Pumped		Pump in heated spa	ace		]	
Heating Pump Age		2013 or later			]	
Heat Emitter		Radiators			]	
Flow Temperature		Unknown			]	
25.0 Main Heating 2		None			]	
26.0 Heat Networks		None			]	
Heat source 1 Heat source 2 Heat source 3 Heat source 4 Heat source 5	e Fuel Type Heating Us	se Efficiency Pe	ercentage Of Hea Heat	t Heat Ele Power Ratio	ctrical Fuel Factor	Efficiency type
28.0 Water Heating						
Water Heating		Main Heating 1			]	
SAP Code		901			]	
Flue Gas Heat Recovery Sys	tem	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	No
Cold Water Source	From mains
Bath Count	1

#### 28.3 Waste Water Heat Recovery System

29.0 Hot Water C	ylinder			Hot Wate	Hot Water Cylinder				]		
Cylinder Stat				No					]		
Cylinder In He	eated Space			No					]		
Independent	Time Control			No					]		
Insulation Typ	e			Foam					]		
Insulation Thi	ckness Type			38 mm					]		
Cylinder Volu	me			140.00					] L		
Pipes insulati	on			Uninsula	ted primary p	ipework			]		
In Airing Cupt	poard			No					]		
31.0 Thermal Sto	ore			None					]		
34.0 Small-scale	Hydro			None					]		
Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Recommendations Lower cost measures

None

Further measures to achieve even higher standards

Turnianal Const		Ratings af	ter improvement
Typical Cost	Typical savings per year	SAP rating	Environmental Impact
£4,000 - £6,000	£71	E 49	E 39
£3,500 - £5,500	£162	D 55	E 40
£15,000 - £25,000	£536	C 76	E 42

### **Overview Report**



Dwelling Address		
Report Date	19/12/2023	
Property Type	Bungalow, Detached	
Floor Area [m <sup>2</sup> ]	68	

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

#### Energy Rating

The current energy rating represents the overall energy efficiency of the dwelling. The potential energy rating is the overall energy rating of the dwelling after all of the recommend measures provided on the next page have been installed. A higher score represents a more energy efficient dwelling with lower fuel bills.





#### 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 transmi	Average thermal transmittance 2.17 W/m²K Very Poor					
Roof	Average thermal transmi	Average thermal transmittance 0.83 W/m²K					
Floor	Average thermal transmittance 0.66 W/m²K Poor						
Windows	Fully double glazed Poor						
Main heating	Boiler and radiators, oil Av						
Main heating controls	Room thermostat and TF	Average					
Secondary heating	None						
Hot water	From main system, no cy	Poor					
Lighting	Good lighting efficiency Good						
Air tightness	(not tested)						

#### Primary Energy use

The primary energy use for this property per year is 335 kilowatt hour (kWh) per square metre

#### Estimated CO<sub>2</sub> emissions of the dwelling

The estimated CO rating provides an indication of the dwelling's impact on the environment in terms of carbon dioxide emissions; the higher the rating the less impact it has on the environment.

The estimated CO emissions for this dwellings is:	5.7	per year		
With the recommended measures the potential CC	) emissions	s could be:	4.8	per year



#### 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 measure	Typical Yearly Saving	Potential Rating after measure installed	Cumulative savings (per year)	Cumulative Potential Rating
Solar water heating	£71	3	£71	E 49
Photovoltaic	£162	6	£232	D 55
Wind turbine	£536	24	£768	C 76

### Estimated energy use and potential savings

Estimated energy cost for this property over a year

£1341

Over a year you could save

### £768

The estimated cost and savings show how much the average household would spend in this property for heating, lighting and hot water. It is not based on how energy is used by the people living at the property.

#### Contacting the assessor and the accreditation scheme

## **Overview Report**



Assessor contact details							
Assessor name	Mr. Neil Stallard						
Assessor's accreditation number							
Email Address							

Accreditation scheme contact details						
Accreditation scheme						
Telephone						
Email Address						

Assessment details						
Related party disclosure						
Date of assessment	19/12/2023					
Date of certificate	19/12/2023					
Type of assessment	SAP, existing dwelling					