PREDICTED ENERGY ASSESSMENT



Cublean, Plot 76, Phase 4A , Tarland Road, Aboyne Dwelling type: House, Detached

Date of assessment: 11/03/2024

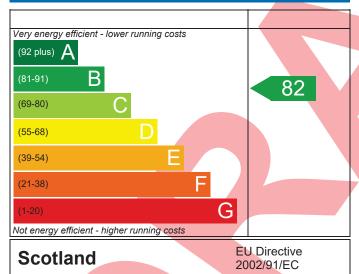
Produced by: Northern Energy

Total floor area: 137.38 m²

This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance Certificate will be created for the property. This will include more detailed information about the energy performance of the completed property.

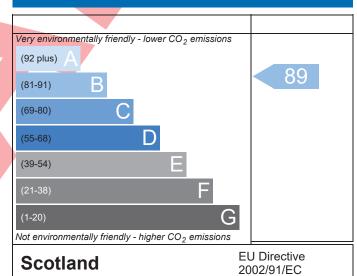
The energy performance has been assessed using the Government approved SAP2012 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO₂) emissions.

Energy Efficiency Rating



The energy efficiency rating is a measure of the overall efficiency of a home. The higher the rating the more energy efficient the home is and the lower the fuel bills are likely to be.

Environmental Impact (CO₂) Rating



The environmental impact rating is a measure of a home's impact on the environment in terms of carbon dioxide (CO₂) emissions. The higher the rating the less impact it has on the environment.

This report has not been submitted through the Elmhurst Energy members' portal, therefore results are subject to change when the dwelling is completed.



BUILDING REGULATION COMPLIANCE Calculation Type: New Build (As Designed)



Property Reference	ajc 4A cublean 76		Issued on Date	11/03/2024						
Assessment	1-07-22 ajc Prop Type Ref									
Reference										
Property	Cublean, Plot 76, Phase 4	A , Tarland Ro	oad, Aboyne							
SAP Rating		82 B	DER	11.88	TER	12.72				
Environmental		89 B	% DER <ter< td=""><td></td><td colspan="2">6.60</td></ter<>		6.60					
CO₂ Emissions (t/year)		1.73	FEE	44.84	TFEE	N/A				
General Requirements	Compliance	Pass	% DFEE <tfee< td=""><td></td><td>N/A</td><td></td></tfee<>		N/A					
	. William MacDougall, Nor	thern Energy	, Tel: 019755 <mark>814</mark> 0	0,	Assessor ID	1910-0001				
	energy@btinternet.com									
Client										
SUMARY FOR INPUT DA	TA FOR New Build (As Des	signed)								
6.1 Carbon Dioxide Emis	ssions									
1a TER and DER										
Fuel for main heating		Bulk LP	G							
· -	Fuel package for TER			LPG						
_	de Emission Rate (TER)	12.72			kgCO ₂ /m ²	Pass				
Dwelling Carbon Diox	xide Emission Rate (DER)		11.88 kgCO ₂ /m ²							
		-0.84 (-6	5.6%)		kgCO ₂ /m ²					
6.2 Building insulation e	nvelope									
2 Fabric U-values	0		III:-K	7						
Element External wall	Average		High			Dace				
Floor	0.16 (max. 0.22)									
Roof						Pass				
Openings	0.10 (max. 0.15) 0.10 (max. 0.35) Pass 1.40 (max. 1.60) 1.40 (max. 3.30) Pass									
2a Thermal bridging		2.00,		(
	culated from linear therma	l transmittan	ces for each juncti	on						
3 Air permeability			,							
Air permeability at 50	0 pascals	4.00 (de	esign value)							
6.3 Heating System										
4 Heating efficiency										
Main heating system		7	Boiler system with radiators or underfloor - Bulk LPG							
		Data fro								
		Baxi AS	SURE 18 SYSTEM L	PG						
	Efficien	Efficiency: 90.2% SEDBUK2009								
	Minimu	Minimum: 88.0%								
Secondary heating sy	rstem	None		<u></u>						
6 Controls										
	Space heating controls			Time and temperature zone control						
Hot water controls		Cylinde				Pass Pass				
			Independent timer for DHW Yes							
Boiler interlock		1.7				Pass				



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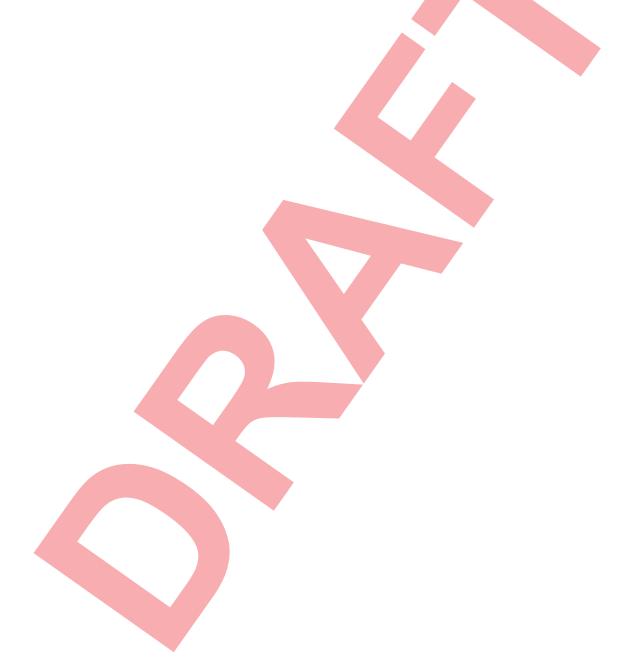
5 Cylinder insulation		
Hot water storage	Measured cylinder loss: 2.20 kWh/day	Pass
	Permitted by DBSCG 2.56	
Primary pipework insulated	Yes	Pass
6.5 Artificial and display lighting		
7 Low energy lights		
Percentage of fixed lights with low-energy fittings	100 %	
Minimum	75 %	Pass
6.6 Mechanical ventilation and air conditioning		
8 Mechanical ventilation		
Continuous extract system (decentralised)		
Specific fan power	0.1600 0.2000	
Maximum	0.7	Pass
9 Summertime temperature		
Overheating risk (North East Scotland)	Not significant	Pass
Based on:		
Overshading	Average	
Windows facing North	9.68 m², No overhang	Ī
Windows facing South	10.56 m ² , No overhang	
Windows facing West	1.44 m², No overhang	
Air change rate	4.00 ach	
Blinds/curtains	None	



RECOMMENDATIONS



	Typical cost	Typical savings per year	Energy efficiency	Environmental impact	Result
Low energy lights			0	0	Already installed
Solar water heating	£4,000 - £6,000	£94	B 85	B 91	Recommended
Photovoltaic			0	0	Already installed
Wind turbine			0	0	Not applicable
Totals	£4,000 - £6,000	£94	B 85	B 91	



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