PREDICTED ENERGY ASSESSMENT



3SV -98, 72, Tarland Road, Phase 4A (3), Aboyne Dwelling type: House, Semi-Detached

Date of assessment: 11/03/2024

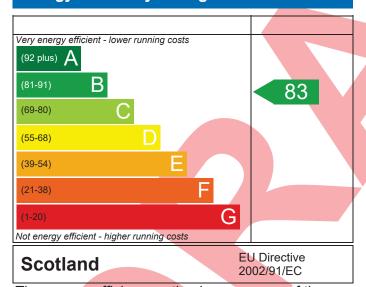
Produced by: Northern Energy

Total floor area: 98.2 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.

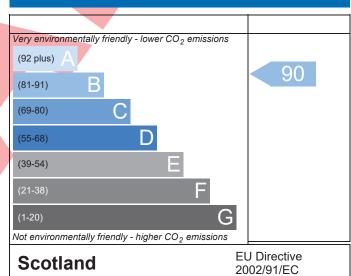
The energy performance has been assessed using the Government approved SAP2012 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO₂) emissions.

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 mortlich 72					Issued on Date	11/03/202	
Assessment	tar rd 73 Prop Type Ref							
Reference								
Property	3SV -98, 72, Tarland Road	, Phase 4A (3), Aboyne					
SAP Rating		83 B	DER		11.99	TER	13.57	
Environmental		90 B	% DER<	TER		11.64		
CO₂ Emissions (t/year)		1.23	FEE		38.58	TFEE	N/A	
General Requiremen	ts Compliance	Pass	% DFEE	<tfee< td=""><td></td><td>N/A</td><td></td></tfee<>		N/A		
	Mr. William MacDougall, Nort n.energy@btinternet.com	thern Energy	, Tel: 0197	55 81400,		Assessor ID	1910-0001	
Client								
SUMARY FOR INPUT [DATA FOR New Build (As Des	igned)						
5.1 Carbon Dioxide En								
la TER and DER								
Fuel for main heati	ing	Bulk LPG	G					
Fuel package for TI	ER	LPG						
Target Carbon Diox	kide Emission Rate (TER)	13.57				kgCO ₂ /m ²		
Dwelling Carbon D	ioxide Emission Rate (DER)	11.99				kgCO ₂ /m ²	Pass	
		-1.58 (-2	11.6%)			kgCO ₂ /m ²		
.2 Building insulation	n envelope				<u></u>			
Fabric U-values								
Element	Average		7	Highes				
External wall	0.16 (max			0.16 (r	nax. 0.70)		Pass	
Party wall	0.00 (max			-	0.70)		Pass	
Floor	0.12 (max. 0.18)					Pass		
Roof	0.10 (max. 0.15)						Pass	
Openings a Thermal bridging	1.40 (IIIa.	x. 1.60)		1.40 (1	11dX. 3.3U)		Pass	
	alculated from linear therma	Ltransmittan	sos for oas	sh iunctio	2			
Air permeability	alculated Holli lillear therma	i ti alisiilittali	ces for eac	ii julictio	11			
Air permeability at	50 pascals	5.00 (de	esign value)				
.3 Heating System				/				
Heating efficiency								
Main heating syste	em	Boiler s	ystem with	radiators	or underflo	or - Bulk LPG	Pass	
		Data from database						
		Baxi AS	SURE 18 SY	STEM LPG	G			
		1						
		Efficien	cv: 90.2% S	EDBUK20	009			
			cy: 90.2% S m: 88.0%	SEDBUK20	009			
Secondary heating	system			SEDBUK20	009			
	system	Minimu		SEDBUK20	009			
		Minimu					Pass	
<u>S Controls</u>	crols	Minimu	m: 88.0%				Pass Pass	



Boiler interlock

Regs Region: Scotland Elmhurst Energy Systems SAP2012 Calculator (Design System) version 4.14r19 Pass

Yes

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



6.4 Insulation of pipes, ducts and vessels		
5 Cylinder insulation		
Hot water storage	Measured cylinder loss: 2.22 kWh/day Permitted by DBSCG 2.56	Pass
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	0.1700 0.1600]
Maximum	0.7	Pass
9 Summertime temperature		
Overheating risk (North East Scotland)	Not significant	Pass
Based on:		
Overshading	Average	
Windows facing North	5.81 m², No overhang	1
Windows facing South	7.25 m ² , No overhang	
Windows facing West	0.72 m², No overhang	
Air change rate	2.50 ach	
Blinds/curtains	None	

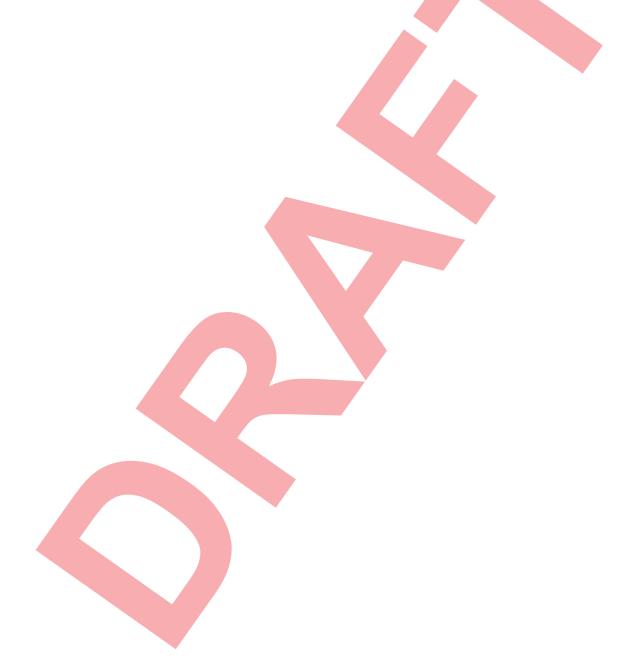


elmhurst energy

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	£92	B 87	A 93	Recommended
Photovoltaic			0	0	Already installed
Wind turbine			0	0	Not applicable
Totals	£4,000 - £6,000	£92	B 87	A 93	



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

