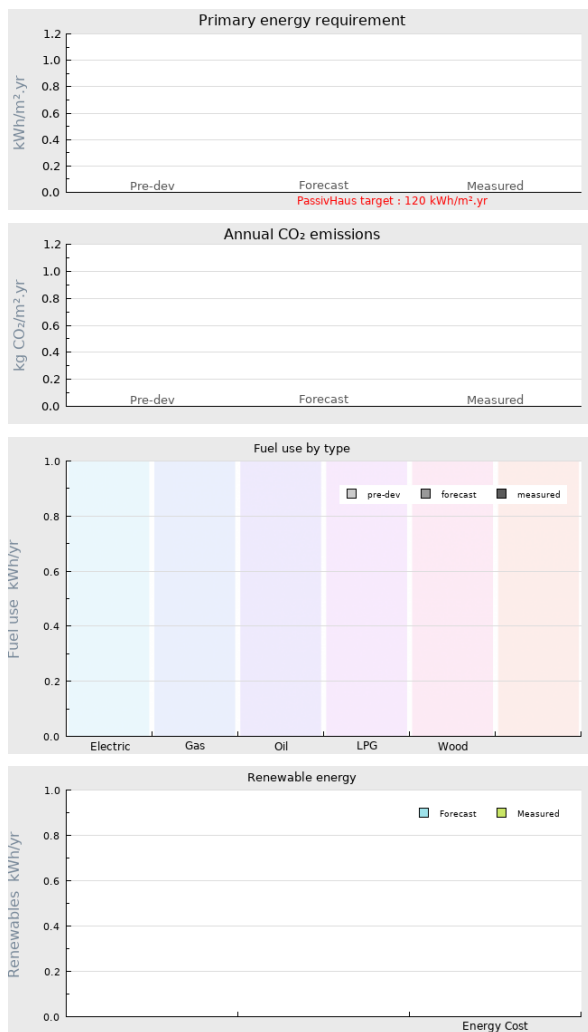


## Project name Dormont Estate

**Project summary** The Dormont Estate project was one of the very first projects for the Scottish Passive House Centre. Dormont estate is a unique project in that it provides a small scale Passive House development which is available for rent from a private landlord. This has been done through the Scottish Governments Rural Homes for Rent pilot scheme. This is very special, not only because it is one of the first of these types of developments in the U.K. but because it will provide a working example of how this type of housing scheme could be used on a wider scale within Scotland and the United Kingdom.



## Project Description

Projected build start date

Projected date of occupation

01 Jul 2011

Project stage

Occupied

Project location

Lockerbie, , Scotland

Energy target

PassivHaus

Build type

New build

Building sector

Private Residential

Property type

Mid Terrace

Existing external wall construction	Other
Existing external wall additional information	Timber frame
Existing party wall construction	
Floor area	88 m <sup>2</sup>
Floor area calculation method	PHPP
Building certification	Passivhaus certified

## Project team

Organisation	
Project lead	
Client	JA Carruthers
Architect	White Hill Design Studio - David Major
Mechanical & electrical consultant(s)	
Energy consultant(s)	
Structural engineer	
Quantity surveyor	
Other consultant	Scottish Passive House Centre
Contractor	Campbell Construction Group

## Design strategies

Planned occupancy
Space heating strategy
Water heating strategy
Fuel strategy
Renewable energy generation strategy
Passive solar strategy
Space cooling strategy
Daylighting strategy
Ventilation strategy
Airtightness strategy
Strategy for minimising thermal bridges
Modelling strategy
Insulation strategy
Other relevant retrofit strategies
Other information (constraints or opportunities influencing project design or outcomes)

## Energy use

Fuel use by type (kWh/yr)

Fuel	previous	forecast	measured
<b>Electric</b>			

Fuel	previous	forecast	measured
<b>Gas</b>			
<b>Oil</b>			
<b>LPG</b>			
<b>Wood</b>			

### Primary energy requirement & CO2 emissions

	previous	forecast	measured
<b>Annual CO2 emissions</b> (kg CO2/m <sup>2</sup> .yr)	-	-	-
<b>Primary energy requirement</b> (kWh/m <sup>2</sup> .yr)	-	-	-

### Renewable energy (kWh/yr)

Renewables technology	forecast	measured
-		
-		
<b>Energy consumed by generation</b>		

### Airtightness ( m<sup>3</sup>/m<sup>2</sup>.hr @ 50 Pascals )

	Date of test	Test result
Pre-development airtightness	-	-
Final airtightness	-	-

### Annual space heat demand ( kWh/m<sup>2</sup>.yr )

	Pre-development	forecast	measured
<b>Space heat demand</b>	-	-	-

Whole house energy calculation method

Other energy calculation method

Predicted annual heating load

-

Other energy target(s)

## Building services

Occupancy

Space heating

Hot water

Ventilation

Controls

Cooking

Lighting

Appliances

---

Renewables

Strategy for minimising thermal bridges

## **Building construction**

Storeys

Volume

Thermal fabric area

Roof description

Roof U-value

Walls description

Walls U-value

Party walls description

Party walls U-value

Floor description

Floor U-value

Glazed doors description

Glazed doors U-value

Opaque doors description

Opaque doors U-value

Windows description

Windows U-value

Windows energy transmittance  
(G-value)

Windows light transmittance

Rooflights description

Rooflights light transmittance

Rooflights U-value

---

## Project images

