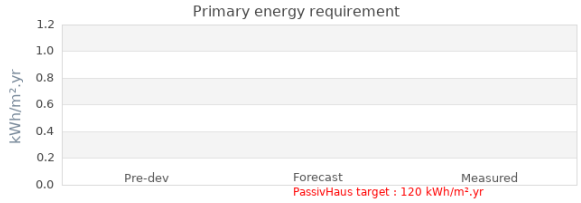
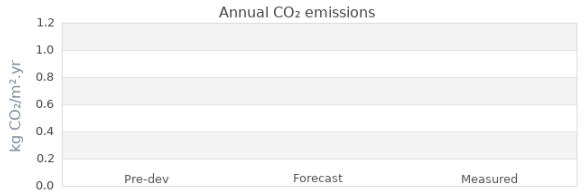
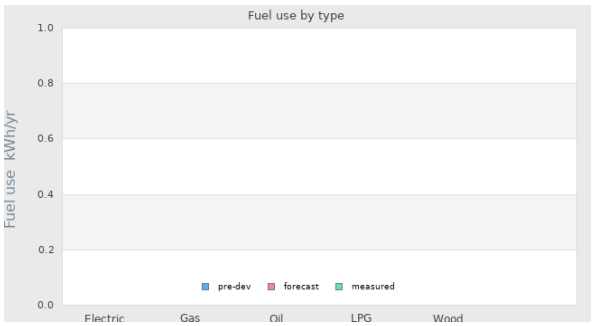
https://www.lowenergybuildings.org.uk/

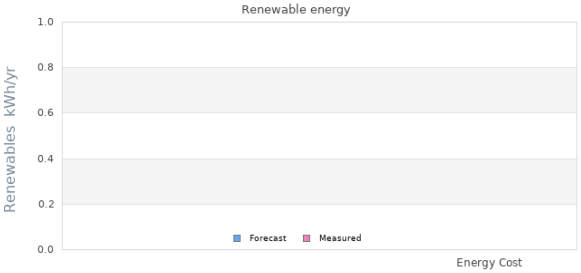
Project name Edgecott, Buckinghamshire

Project summary Two semi-detached houses with GIA 70m, to be built in the village of Edgcott in the Aylesbury Vale by New Meaning Construction, a Beattie Passive Flying Factory partner.









Project Description

Projected build start date	01 Jan 2019
Projected date of occupation	01 Jan 2020
Project stage	Occupied
Project location	Edgecott, Buckinghamshire, England
Energy target	PassivHaus
Build type	New build
Building sector	Public Residential
Property type	Semi-Detached
Existing external wall construction	Softwood frame
Existing external wall additional information	
Existing party wall construction	
Floor area	140 m²

Floor area calculation method	PHPP
Building certification	Passivhaus certified

Project team

Organisation	Beattie Passive
Project lead	
Client	
Architect	
Mechanical & electrical consultant(s)	
Energy consultant(s)	
Structural engineer	
Quantity surveyor	
Other consultant	
Contractor	Fairhive

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
Electric			
Gas			
Oil			
LPG			
Wood			

Fuel	previous	forecast	measured

Primary energy requirement & CO2 emissions

	previous	forecast	measured
Annual CO2 emissions (kg CO2/m².yr)	-	-	-
Primary energy requirement (kWh/m².yr)	-	-	-

Renewable energy (kWh/yr)

Renewables technology	forecast	measured
-		
-		
Energy consumed by generation		

Airtightness (m³/m².hr @ 50 Pascals)

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

Annual space heat demand (kWh/m².yr)

	Pre-development	forecast	measured
Space heat demand	-	-	-

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	0.11W/m² K
Walls description	
Walls U-value	0.11W/m² K
Party walls description	
Party walls U-value	
Floor description	
Floor U-value	0.09W/m² K
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