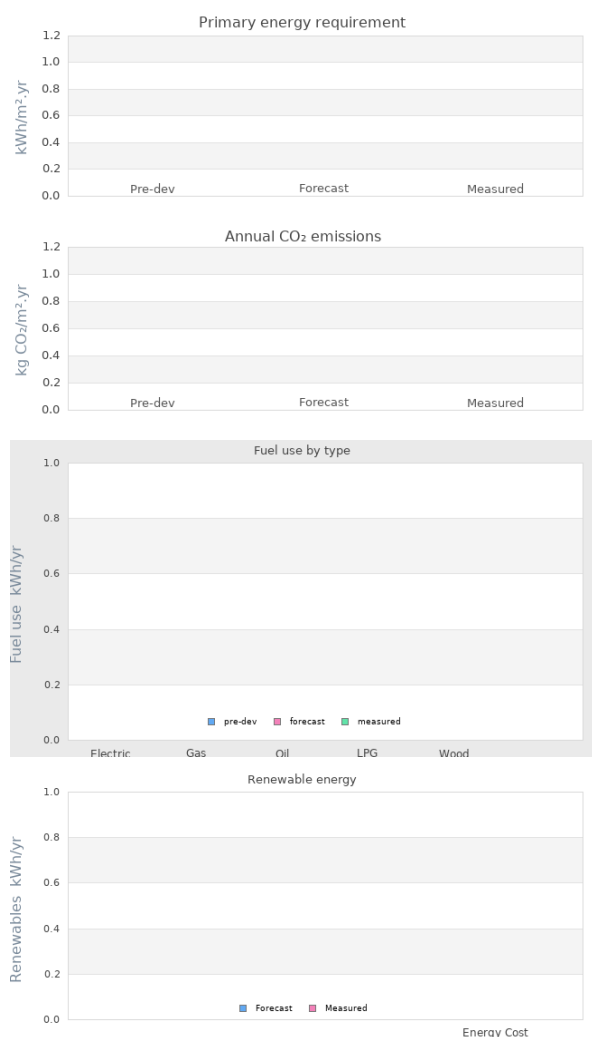


Project name Sefton Road, Old Colwyn

Project summary Our Flying Factory partner, Creating Enterprise, built 8 x 21m 1-bedroom properties in Old Colwyn, Wales. Tackling homelessness is a key priority in Cartrefi Conwys new five year strategic plan which was produced with the input of tenants, staff, board members and partner organisations, including Conwy County Borough Council. The council have completed eight one bedroom eco homes in Old Colwyn, Conwy, with the timber frames being manufactured off-site



Project Description

Projected build start date	01 Jan 2019
Projected date of occupation	01 Jan 2020
Project stage	Occupied
Project location	Old Colwyn, , Wales
Energy target	EnerPHit
Build type	New build
Building sector	Public Residential
Property type	Detached
Existing external wall construction	Softwood frame
Existing external wall additional information	

Existing party wall construction

Floor area 24 m²

Floor area calculation method PHPP

Project team

Organisation Beattie Passive

Project lead

Client

Architect

Mechanical & electrical consultant(s)

Energy consultant(s)

Structural engineer

Quantity surveyor

Other consultant

Contractor

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			

Fuel	previous	forecast	measured
Wood			

Primary energy requirement & CO2 emissions

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

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







