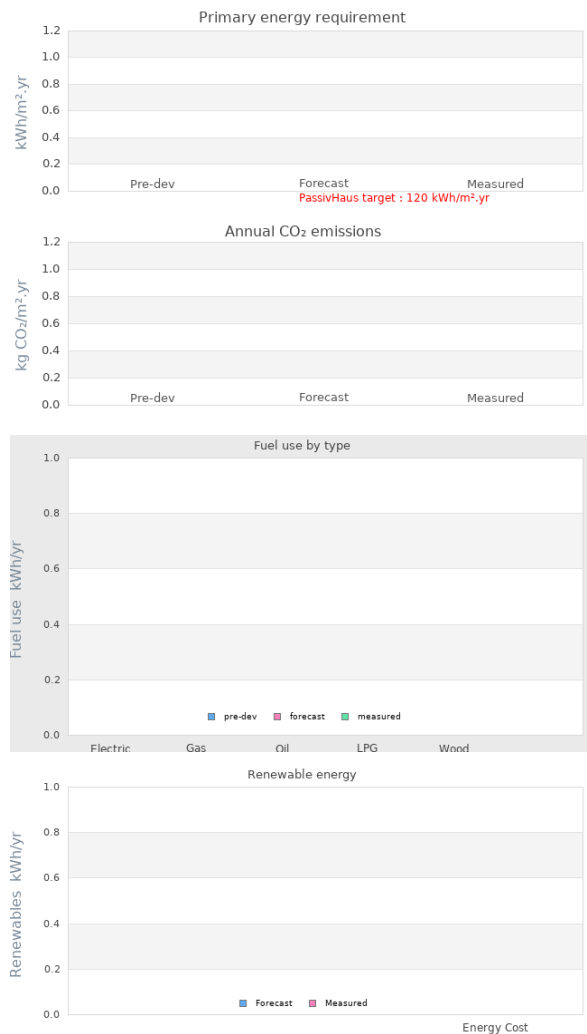


Project name Ditchingham

Project summary This project at Ditchingham, Norfolk consists of 14 affordable dwellings arranged in a single curved terrace. The scheme is located in a conservation area, adjacent to a number of Tayler & Green Grade II listed buildings. Innovative thermal bridge free foundations and simplicity of detailing and construction have delivered the exacting Passivhaus performance whilst reflecting the local vernacular.



Project Description

Projected build start date

Projected date of occupation 01 Aug 2012

Project stage Occupied

Project location Lower Wells Close, Ditchingham, Norfolk, England

Energy target PassivHaus

Build type New build

Building sector Public Residential

Property type Mid Terrace

Existing external wall construction Other

Existing external wall additional information Brick/block cavity construction

Existing party wall construction

Floor area 1032 m²

Floor area calculation method PHPP

Building certification Passivhaus certified

Project team

Organisation Parsons + Whittle Architects

Project lead Chris Parsons

Client Hastoe Housing

Architect Parsons + Whittle Architects

Mechanical & electrical consultant(s) Davis Langdon

Energy consultant(s)

Structural engineer

Quantity surveyor

Other consultant Certifier - BRE

Contractor Keepmoat

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			

Fuel	previous	forecast	measured
LPG			
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

