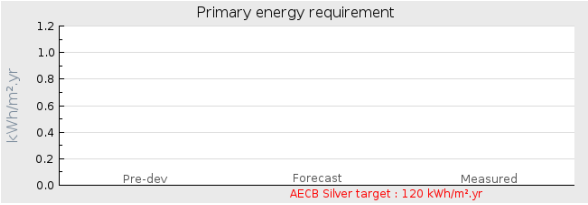
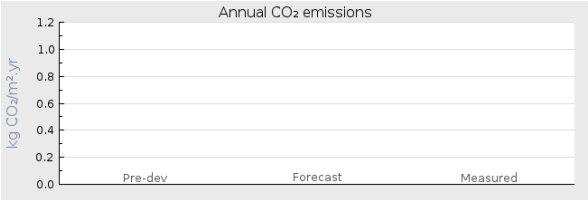
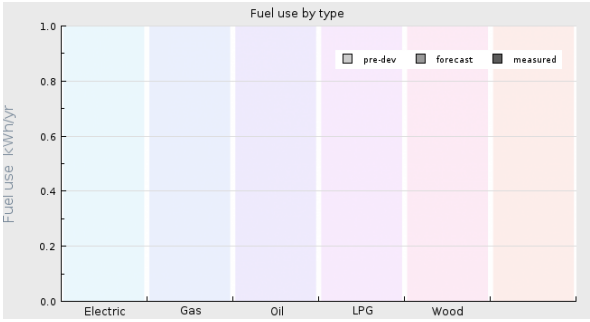
http://lowenergybuildings.org.uk

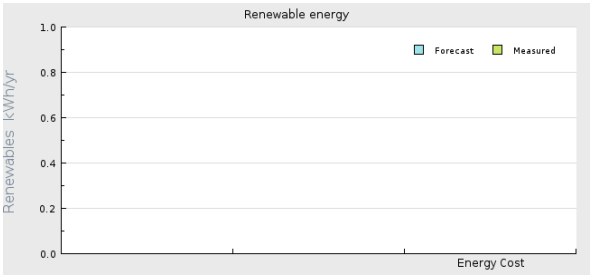
Project name 1 to 16 Pond Field Close, Little Hallingbury, Bishops Stortford, CM22 7FF

Project summary Affordable housing development of 16 houses









Project Description

Projected build start date	05 Sep 2016
Projected date of occupation	25 Jan 2018
Project stage	Occupied
Project location	Little Hallingbury, Essex, England
Energy target	AECB Silver
Build type	New build
Building sector	Public Residential
Property type	Semi-Detached
Existing external wall construction	Softwood frame
Existing external wall additional information	Facing Brickwork - Timber Frame with PIR Insulation
Existing party wall construction	
Floor area	174.8 m²

Floor area calculation method	PHPP

Project team

Organisation	Parsons + Whittley
Project lead	
Client	Hastoe Housing Association
Architect	Parsons + Whittley
Mechanical & electrical consultant(s)	Alan Clarke
Energy consultant(s)	Parsons + Whittley
Structural engineer	Ken Rush Associates
Quantity surveyor	Ingleton Wood
Other consultant	
Contractor	DCH Construction Ltd

Design strategies

Planned occupancy	
Space heating strategy	test
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			

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
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


DW02 ENZ