

# Code for Sustainable Homes Report

For use with Nov 2010 addendum 2014 England

## Assessor and House Details

**Assessor Name:** Demi Beneke **Assessor Number:** STRO027754  
**Property Address:** 67a Falcon Square  
EASTLEIGH  
SO50 9JF

## Buiding regulation assessment

TER kg/m<sup>2</sup>/year 19.21  
DER kg/m<sup>2</sup>/year 14.09

## ENE 1 Assessment - Dwelling Emission Rate

### Total Energy Type CO<sub>2</sub> Emissions for Codes Levels 1 - 5

|                                                                       | %    | kg/m <sup>2</sup> /year |       |
|-----------------------------------------------------------------------|------|-------------------------|-------|
| DER from SAP 2012 DER Worksheet                                       |      | 14.09                   | (ZC1) |
| TER                                                                   |      | 19.21                   |       |
| Residual CO2 emissions offset from biofuel CHP                        |      | 0                       | (ZC5) |
| CO2 emissions offset from additional allowable electricity generation |      | 0                       | (ZC7) |
| Total CO2 emissions offset from SAP Section 16 allowances             |      | 0                       |       |
| DER accounting for SAP Section 16 allowances                          |      | 14.09                   |       |
| % improvement DER/TER                                                 | 26.7 |                         |       |

### Total Energy Type CO2 Emissions for Codes Levels 6

|                                               | kg/m <sup>2</sup> /year |       |
|-----------------------------------------------|-------------------------|-------|
| DER accounting for SAP Section 16 allowances  | 14.09                   | (ZC1) |
| CO2 emissions from appliances, equation (L14) | 16.64                   | (ZC2) |
| CO2 emissions from cooking, equation (L16)    | 2.47                    | (ZC3) |
| Net CO2 emissions                             | 35.6                    | (ZC8) |

#### Result:

**Credits awarded for ENE 1 = 3.5**

**Code Level = 4**

## ENE 2 - Fabric energy Efficiency

**Fabric energy Efficiency: 47.58**

**Credits awarded for ENE 2 = 6.5**

## ENE 7 - Low or Zero Carbon (LZC) Technologies

### Reduction in CO2 Emissions

|                             | %     | kg/m <sup>2</sup> /year |  |
|-----------------------------|-------|-------------------------|--|
| Standard Case CO2 emissions |       | 40.21                   |  |
| Standard DER                |       | 21.1                    |  |
| Actual Case CO2 emissions   |       | 35.63                   |  |
| Actual DER                  |       | 16.52                   |  |
| Reduction in CO2 emissions  | 11.39 |                         |  |

**Credits awarded for ENE 7 = 1**

Technologies eligible to contribute to achieving the requirements of this issue must produce energy from renewable sources and meet all other ancillary requirements as defined by Directive 2009/28/EC of the European Parliament and of the Council of 23 April 2009 on the promotion of the use of energy from renewable sources and amending and subsequently repealing Directives 2001/77/EC and 2003/30/EC.

The following requirements must also be met:

- Where not provided by accredited external renewables there must be a direct supply of energy produced to the dwelling under assessment.
- Where covered by the Microgeneration Certification Scheme (MCS), technologies under 50kWe or 300kWth must be certified.
- Combined Heat and Power (CHP) schemes above 50kWe must be certified under the CHPQA standard.
- All technologies must be accounted for by SAP.

CHP schemes fuelled by mains gas are eligible to contribute to performance against this issue. Where these schemes are above 50kWe they must be certified under the CHPQA.

It is the responsibility of the Accredited OCDEA and Code Assessor to ensure all technologies use in the calculation are appropriate before awarding credits.