# Code for Sustainable Homes (November 2010)
## As Built - Final

***This report details the calculations and results for Ene 1, 2 and 7 of the Code For Sustainable Homes.***

This As Built Assessment has been carried out by an On-Construction Domestic Energy Assessor. The Assessor has confirmed any changes from the Design Submission with the builder. Code calculations are from the Technical Guide (November 2010).

| | | | |
|---|---|---|---|
| Assessor name | Mr Steven Carroll | Assessor number | 3744 |
| Client | Gower Homes Limited | Last modified | 03/09/2014 |
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### Building regulation assessment - criterion 1

| | kg/m²/yr |
|---|---|
| DER | 18.13 |
| TER | 20.27 |

### Assessment of zero carbon home and low or zero carbon technologies

| | | Credits | Level |
|---|---|---|---|
| Dwelling emission rate (Ene 1) | $CO_2$ reduction = 10.6 % | 1.3 | 3 |
| Fabric Energy Efficiency | FEE = 50.0 | 5.6 | |
| Low or zero carbon technologies (Ene 7) | $CO_2$ reduction = N/A | No credits | |

### Ene 1 - dwelling emission rate

| | % | kWh/m² | kgCO₂/m²/yr | |
|---|---|---|---|---|
| **Assessment of Ene 1 (level 1-5)** | | | | |
| DER from SAP 2009 DER worksheet | | | 18.13 | |
| Additional allowable generation | | 0.00 | | |
| $CO_2$ emissions offset from generation | | | 0.00 | |
| $CO_2$ emissions offset from community biofuel CHP systems | | | 0.00 | |
| Total $CO_2$ emissions offset from SAP section 16 allowances | | | **0.00** | |
| DER accounting for SAP section 16 allowances | | | **18.13** | |
| $CO_2$ reduction compared to TER | | | 2.14 | |
| $CO_2$ reduction as % of TER | 10.6 | | | |
| **Assessment of Ene 1 (level 6)** | | | | |
| DER from SAP 2009 DER worksheet | | | 18.13 | (ZC1) |
| $CO_2$ emissions from appliances (equation L14) | | | 16.89 | (ZC2) |
| $CO_2$ emissions from cooking (equation L16) | | | 2.64 | (ZC3) |
| Total $CO_2$ emissions | | | 37.66 | (ZC4) |
| Additional allowable generation and its $CO_2$ emissions offset | | 0.00 | | (ZC6) |
| $CO_2$ emissions offset from additional allowable generation | | | 0.00 | (ZC7) |
| $CO_2$ emissions offset from community biofuel CHP systems | | | 0.00 | (ZC5) |
| Net $CO_2$ emissions | | | **37.66** | (ZC8) |

## Ene 1 - dwelling emission rate - level 6

There is no Zero Carbon Home definition in the current technical guide

| | Criterion | Value | Pass/Fail |
|---|---|---|---|
| FEE | <= 46 | 50.0 | Fail |
| Net $CO_2$ emissions | <= 0.00 | 37.66 | Fail |

Result: Not level 6

| | |
|---|---|
| Number of credits for Ene 1 | **1.3** |

## Ene 2 - Fabric Energy Efficiency

| | |
|---|---|
| FEE | 50.0 |
| Number of credits for Ene 2 | **5.6** |

## Ene 7 - low or zero carbon technologies

Not applicable