

Highland Housing Expo, Inverness, 2010

MEARU

Building Performance Evaluation

MEARU undertook this project in conjunction with Architecture + Design Scotland (AD+S). It was funded via the Technology Strategy Board Building Performance Evaluation funding.

The Expo took place in Inverness throughout August 2010 and showcased innovative, sustainable housing and placemaking to an audience of over 33,000 visitors.

This study investigated the environmental and energy impact of architectural design, environmental systems and user behaviour and provided data to inform the future delivery of very low carbon developments in the affordable housing sector.

The building performance monitoring was undertaken on eight dwellings and aimed to quantify the as-built performance, and relative energy and environmental performance of four house types in relation to different occupancies. The final report provides data relative to the dwellings ability to accommodate different patterns of use likely to be experienced in real world conditions and it provides insights into the scale of variations that different regimes may produce.

The physical testing (thermography, air permeability, and insitu U-value measurement) focussed on four house types and was undertaken in stages during a heating season. In addition MEARU undertook a design & construction audit and review utilising both available design data and measured data collected during the course of the project.

Project Title: Highland Housing Expo, Inverness
Building Performance Evaluation

Client/ Funding body: Technology Strategy
Board

Date : June 2012 -Oct 2014

Project Value- £149,000

Team: MEARU- Prof Tim Sharpe, Donald
Shearer, Janice Foster

Links/ Outputs

External Partners: Highland Housing Expo
<http://scotlandshousingexpo.com/>