

# Highland Housing Expo, Inverness, 2010

## Building Performance Evaluation



MEARU undertook this project in conjunction with Architecture + Design Scotland (A+DS). 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 a 2 year period when the dwellings were occupied thereby providing an insight 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

**Project Partner:** Architecture + Design Scotland

## Links

External Partners: Highland Housing Expo

<http://scotlandshousingexpo.com/>

Architecture and Design Scotland

<http://www.ads.org.uk/>

Technology Strategy Board (now Innovate UK)

[www.gov.uk/government/organisations/innovate-uk](http://www.gov.uk/government/organisations/innovate-uk)

Report: Digital Catapult/Building Data exchange

<http://buildingdataexchange.org.uk/report/Scotland%27s+Housing+Expo/850/>