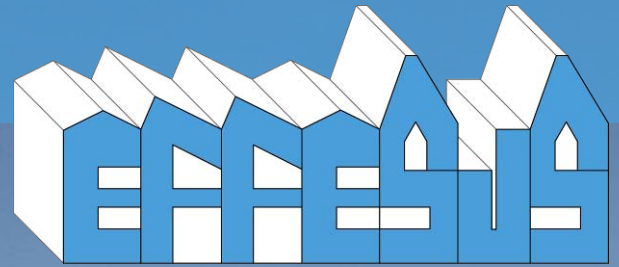


Researching energy efficiency for
European historic urban districts



HISTORIC SCOTLAND
ALBA AOSMHOR

EFFESUS PARTNER HISTORIC SCOTLAND ACTIVITIES 2012/13



Funded by the European Commission



EFFESUS partner Historic Scotland

This publication is a web publication and is available for free download from the Historic Scotland website: www.historic-scotland.gov.uk/effesus

This publication should be quoted as:
EFFESUS partner Historic Scotland:
General information

© EFFESUS Consortium and Crown Copyright 2014

Front cover image: historic centre of Bamberg, Germany, one of seven European cities hosting an EFFESUS case study

You can contact us at:

Historic Scotland
Conservation Directorate
Longmore House
Salisbury Place
Edinburgh EH9 1SH

Phone 0131 668 8600

Email hs.conservationsgroup@scotland.gsi.gov.uk

Web www.historic-scotland.gov.uk/conservation



The EFFESUS research project is receiving funding from the European Union Seventh Framework Programme (FP7/2007-2013) under grant agreement no. 314678.

This document reflects only the author's views, and the European Union is not liable for any use that may be made of the information contained.

Introduction

This briefing note provides an overview about the activities Historic Scotland has been involved in during September 2012 and August 2013 as a partner in the EFFESUS project, a European research project investigating energy efficiency in historic urban districts.

The EFFESUS project is divided into ten work packages (WPs), each split into several work tasks (WTs). Historic Scotland's activities in the different WTs during this period are presented in more detail below. Historic Scotland is not involved in all WPs and WTs.

This document should be read in conjunction with the briefing note *EFFESUS partner Historic Scotland: General information*, which gives a general overview about the project and Historic Scotland's involvement.

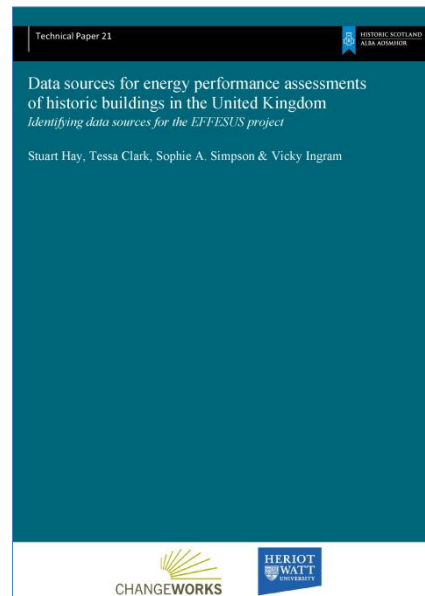
Identification and collation of existing data sources (WT1.1)

All EFFESUS project partners were required to identify and collate data sources useful for assessing and modelling the performance of the stock of historic buildings with regard to energy use and CO₂ emission. The work task was led by the German project partner Material Testing Institute of the University of Stuttgart.

For Historic Scotland, this work was carried out by Changeworks, a sustainable development charity based in Edinburgh. Changeworks was appointed as a subcontractor, following a competitive tender process.

Data sources identified by Changeworks were grouped into four data categories: building stock; urban district / spatial; building energy use and CO₂ emissions; and climate zoning. Historic Scotland provided input with regard to data sources for assessing the heritage significance of buildings.

The Changeworks report submitted to the EFFESUS Consortium has now also been published in a slightly amended version as Historic Scotland Technical Paper 21, available for free online at the web page www.historic-scotland.gov.uk/technicalpapers



This document provides a brief overview about the activities Historic Scotland has been involved in in 2012/13 as partner in the EFFESUS research project. This document supplements by the document *EFFESUS partner Historic Scotland: General information*. These documents are available on Historic Scotland's website

www.historic-scotland.gov.uk/effesus

General project information about the EFFESUS is available on the project's website, where you can download project flyers (in English and 12 other languages) and a project fact sheet. On that website, you can find out more about forthcoming EFFESUS outreach and training events, and you can sign up for a free email newsletter.

www.effesus.eu

Developing impact indicators (WT1.2)

This task identified indicators to assess the impact of retrofit measures on historic buildings. The task was led by the Italian project partner Institute of Atmospheric Sciences And Climate of the National Research Council.

The developed impact indicators were grouped into six categories: indoor environment conditions; building and urban fabric compatibility; historical values and conservation principles; embodied energy; operational energy; and economic return. Historic Scotland was mostly involved in the development of the categories building and urban fabric compatibility and historical values and conservation principles.

The ideas developed for impact indicators for heritage significance and a related assessment system for the retrofit of historic buildings have been submitted by four project partners to the journal *The Historic Environment: Policy and Practice* for publication in 2014. The other co-authoring project partners are Dennis Rodwell (United Kingdom), HOR-BER Ltd. (Hungary) and Uppsala University (formerly Gotland University; Sweden).

Collecting best practice examples (WT2.3)

Project partners were asked to provide best practice examples for the retrofit of historic buildings and urban districts. Retrofit solutions were to include both solutions to retrofit building fabric as well as to install systems for the generation of energy from renewable sources within an urban district. This work task was led by the Scottish project partner Dennis Rodwell. Historic Scotland provided a number of examples from the UK, Europe and the United States of America.

Recovering old architectural solutions and strategies (WT2.4)

Project partners were asked to provide information about old architectural solution and strategies which were historically used in buildings in their respective countries to achieve a good indoor environment whilst reducing the fuel requirement for heating and cooling. This work task was led by the project partner Norwegian University of Science and Technology. Historic Scotland contributed relevant information about the British building stock.

Validating the Decision Support System (WT6.4)

This work task will commence in 2014.

Demonstrating in real case studies (WT6.4)

This work task will commence in 2014.

Developing group-specific concepts for stakeholder dialogue (WT9.1)

This work task commenced in September 2013 and will be covered in the next report *EFFESUS partner Historic Scotland: Activities 2013/14*.

Public awareness raising (WT9.2)

This work task included a variety of activities, led by the German project partner Fraunhofer-Gesellschaft. Within this task, Historic Scotland led on the production of a project factsheet and project leaflets. The latter were produced in all twelve languages spoken by the EFFESUS project partners. The leaflets were produced and translated by APS Group, a specialist in marketing operations management, with offices in England, Scotland, the Netherlands and France. Historic Scotland contributes to the regular EFFESUS newsletter, distributed by email and also provided contact details of UK organisations potentially interested in engaging as stakeholder with the EFFESUS project as well as information about conferences, trade fair and other events of potential interested to the EFFESUS project for dissemination.

The EFFESUS factsheet and leaflets are available for free online at the project website www.fffesus.eu, where you can also sign up for the free regular email newsletter, and on Historic Scotland's web page www.historic-scotland.gov.uk/fffesus (English leaflet only).



EFFESUS partner Historic Scotland

Available at www.historic-scotland.gov.uk/effesus

General information

Activities 2012/13

Activities 2013/14

Activities 2014/15

Activities 2015/16