## **README**

## **IDEAS V5.1**

IDEAS has been developed as a MATLAB-based model of a dwelling and its servicing systems. The release presents an example of an example dwelling with a construction U-Value of 1 W/m<sup>2</sup>K.

Included in this release are the following files:

README.pdf this file

To.mat **DISTURBANCE:** External Temperature

based upon a Sheffield, England,

Climate Location

SAPsetpoint.mat SETPOINT: which is tracked

Qfree.mat **DISTURBANCE**: Appliance and Solar

Gains

ESRU IDEAS V5 1 Uof1 STC.m SCRIPT: Main IDEAS Script

CalibrationParameters.m SCRIPT: Generate Yearly Energy and

Temperature Values

## Requirements

MATLAB R2011b or compatible version.

## **Windows Installation**

- 1. Download and unzip the archive.
- 2. Open and run IDEAS V5 1 STC.m in MATLAB
- 3. CalibrationParameters.m can be run after step (2) to generate values and figures for Energy and

Temperature for the modelled dwelling.

4. Update \*.m files as required and re-run.