MEEC: MAIN CONCEPTS

Zone approach
(i) Multi-zone approach (non-residential)
(ii) Single-zone approach (residential and non-residential)

HVAC system
(i) HVAC wizard (simplified approach)
(ii) HVAC wizard but developing more details
(iii) Detailed description (no HVAC wizard use)
MEEC: USER INTERFACE

Main structure

Navigation tree

Instant results

Help / Parameters results
MEEC: MENU STRUCTURE

Two modes
(i) Certification
(ii) Consultation/Energy audits
MEEC: INPUT SCREEN — PROJECT DATA
Building parameters in line with Rulebook on minimum energy efficiency requirements in buildings (methodology)
Automation levels of building systems described in 4 classes, A to D.
MEEC: INPUT SCREEN — BUILDING DATA

DHW demands
List of all user defined constructions
List of windows used in the project
Conversion factors

Climate data
U-values exceeding the minimum requirements from the Rulebook are marked in red.
Opaque envelope elements
(i) Direct U-values entry
(ii) Definition of construction layers
MEEC: INPUT SCREEN — BUILDING ENVELOPE

- Transparent envelope elements
  - (i) Direct U-value entry (and corresponding g and tau values)
  - (ii) Definition of window elements (glazing, frame, spacer)
  - + definition of sun protection system
MEEC: INPUT SCREEN — ZONES
MEEC: INPUT SCREEN – ZONE DATA

Single zone approach:
13 user profiles defined for building types specified in the Rulebook

Multi zone approach:
36 user profiles defined for different zones (consistent with profiles for building types)
MEEC: INPUT SCREEN — ZONE DATA

Certification mode:
User profile data are “locked”.

Consumption/energy audit mode:
User profile data can be modified.
MEEC: INPUT SCREEN — ZONE DATA
Lighting is not considered for residential buildings.
MEEC: RESULTS FOR THE ZONE
MEEC: RESULTS FOR THE ZONE
If only HVAC wizard is used no entries in the navigation tree are shown (default values for the selected systems)
If HVAC wizard is used to start but with refinement possibilities, the details of the HVAC systems can be seen in the navigation tree and changes can be made.
MEEC: INPUT SCREEN — HVAC: HEATING
MEEC: INPUT SCREEN — HVAC: HEATING
MEEC: INPUT SCREEN — HVAC: HEATING
MEEC: INPUT SCREEN — HVAC: DHW
MEEC: INPUT SCREEN — HVAC: COOLING
MEEC: INPUT SCREEN — HVAC: VENTILATION
MEEC: INPUT SCREEN — HVAC: RENEWABLES
MEEC: RESULTS FOR THE BUILDING
MEEC: RESULTS FOR THE BUILDING
MEEC: RESULTS FOR THE BUILDING
MEEC: RESULTS FOR THE BUILDING
MEEC: RESULTS FOR THE BUILDING
MEEC: VARIANTS/PACKAGE OF MEASURES

EE measures:
- Envelope
- Lighting
- HVAC – Heating
- HVAC – DHW
- HVAC – Cooling
- HVAC – Ventilation
- Power generation
- Power system
- General measures
THANK YOU FOR ATTENTION!