IBPSA Project 1 – WP3

General overview of modelling guidelines

Basically …

- Everything is on the Project 1 GitHub (here) or is referenced in the e-mails sent in the Google group

How to get started?

Regarding the buildings – single-family dwelling

- First description can be found here
  - There, you find a README-file that explains the followed workflow and the provided documents as much as possible
  - All of your questions and remarks are collected here
- Better description is under construction:
  - In text format:
    - is available here
    - will be finished by 30/09/2019
  - In CityGML format:
    - will be added to the GitHub
    - hopefully soon ;)

Regarding the buildings – office building

- *First description can be found here*
  - *There, you find a README-file that explains the followed workflow and the provided documents as much as possible*
  - *All of your questions and remarks are collected here*
- *Better description is for later*

*****UPDATE*** We'll look for another office definition. Proposals are welcome and will be discussed during the first Coordination meeting after the Rome Expert meeting.**

Once you have some results …

Regarding the buildings

- Results should be reported in a standardized format (1 csv per building)
  - The filename: LIBRARY_BUILDINGTYPE_BUILDINGID_INSULATIONSTANDARD_OCCUPANT.csv
    - Where LIBRARY is the library you are working with. Choose from: IDEAS, Buildings, AixLib, BuildingSystems, IDAICE, DIMOSIM, Trnsys (case-sensitive!)
    - Where BUILDINGID is an ID for the specific building and always equals 1 in the current simulations. This is just a placeholder (e.g. Enora can include the shading from the surrounding buildings, then this ID can be used).
    - Where BUILDINGTYPE currently always equals SFD (single-family dwelling). This is just a placeholder for the offices (OFF) in the nearby future
    - Where INSULATIONSTANDARD currently always equals 1980s. This is just a placeholder for the other insulation standards in the nearby future
    - Where OCCUPANT is the occupant profile that is used. Choose from: ISO, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16
  - The file itself is a comma separated csv, which contains 4 columns:
    - Datetime
      - In seconds. Time step is 600 seconds or 10 minutes
    - Qheating_building_W
      - In Watt. Heating power for the whole building
    - Tair_dayzone_K
      - In Kelvin. Air temperature of the day zone
    - Tair_nightzone_K
      - In Kelvin. Air temperature of the night zone
  - You can find an example here (attachment at the bottom of the message).

Regarding the buildings

- Results of other models can be found here
  - Should be transferred to another platform because it is too slow
  - While awaiting a better solution, you can send the results to Ina by wetransfer/e-mail (in the proper format)
- Better way of sharing data + plotting is under construction:
  - Upload the data in a standardized format on a specific GitHub page
  - Use 1 Python script for plotting
    - Feel free to add interesting plots