

Indoor Environmental Quality aspects for Plus Energy Buildings' design

Energy Atlas workshop – 16th February 2022

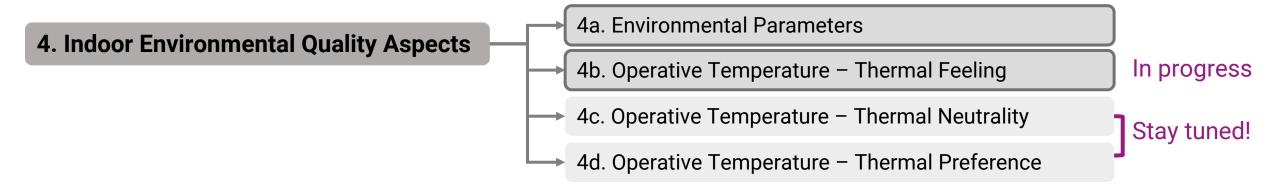
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The 2CAP-Energy Atlas: what you can find?







4a. Environmental Parameters

This layer contents specific Environmental Parameters data sets referred to the closest possible locations of the Cultural-E demo cases.

Each geo-referred location contains data inputs and graphics for design and energy simulation:

- Reference year weather file
- Climatic statistical data
- Weather data plots, elaborated with Climate consultant and merged in a unique document
- Weather data summary elaborated

References are provided for data source, used tool, implemented comfort tool, weather stations specs, software download links.







In this layers, the user can find a prediction of the occupants' thermal feeling / thermal neutrality / thermal preference according to specific scenarios recommended in the Standard EN 16798-1, and values of Operative Temperature referring to the four Indoor Environmental Quality categories.

Predictions and odds distribution are based on some preliminary statistical analyses run within the WP5 of the Cultural-E project on the SCATs database.

The Countries considered, and appointed as reference for their climatic area, are the ones with data available in the database.

The work in the Cultural-E project is still in progress, and further analyses and outputs will be integrated in the Atlas once available.

4b. Operative Temperature – Thermal Feeling

4c. Operative Temperature – Thermal Neutrality

4d. Operative Temperature – Thermal Preference

A penny for your thoughts





- For design inputs and energy calculations, do you refer to:
 - □ European Standard
 - National Standard
 - ☐ Other sources [insert text...]
- The source you use, does in your opinion account for diversitydriving factors?
 - ☐ YES
 - □ NO

• The source and methodology you use for thermal comfort evaluation, does in your opinion account for adaptation mechanisms and contextual factors?





☐ YES

 Have you ever noticed in your practice a gap between recommended Standards' values and real-life expectations of users of your Country?

☐ YES

□ NO

 Would you like to share the Standard/Reference that you generally use within your activity?

[insert text...]



Thank you for your attention!

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