



# Indoor Environmental Quality aspects for Plus Energy Buildings' design

Energy Atlas workshop – 16<sup>th</sup> February 2022

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 870072

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



Università  
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Venezia

## 4. Indoor Environmental Quality Aspects

4a. Environmental Parameters

4b. Operative Temperature – Thermal Feeling

4c. Operative Temperature – Thermal Neutrality

4d. Operative Temperature – Thermal Preference

In progress

Stay tuned!



#### 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 diversity-driving 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
  - NO
  
- 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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WP5 leader

*“Co-benefits of Plus Energy Buildings”*

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