

Review of: "Influence of a City Block on ES-CFD Coupled Analysis"

Mattia Scalas¹

¹ Euro-Mediterranean Center for Climate Change, Lecce, Italy

Potential competing interests: No potential competing interests to declare.

First of all, the article is well-written and clear, with nice and explicative figures on an interesting topic.

Some observations:

Have you read anything about the idea of using climate modelling data as input for microclimate simulations? For example, as you cite the Typical Meteorological Year, I thought about the possibility of using a climate model in the thirty-year period to define the "present climate." It is basically forcing the CFD inputs with regional models. In this way, you can expand your studies not only on the present but also considering the future (i.e., the RCP scenarios) and, thus, the possible effects of climate change in the case study area. Check the East Asia CORDEX initiative.

Some minor comments:

- What does LES, cited in the introduction, stand for?
- You first cite Energy Simulation as ES in the abstract. I suggest writing "energy simulation" once in the introduction and then switching only to ES.
- Maybe you can think about adding a table or a figure with all the tools you used (especially software), to let the reader understand immediately what is needed to replicate your work.
- Comments on the results may sometimes be a little "verbose" (especially "Further analysis of differences between winter and summer" and "Analysis of the difference in room temperature with and without ES and CFD coupling"). Trying to reduce a little the section may help a lot to follow the general reasoning. In this sense, your figures help a lot the reader.

Anyway, very good work!