# **ABSTRACT TITLE**

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1. Introduction

Provide here a short introduction about the scientific context and motivation of the work, elements of originality and the research question.

1. Methods

Methods have to be summarized in order to clarify how the results have been obtained.

1. Results

The main findings have to be included. Since the final paper will be required only after the conference, the extended abstract has to provide evidence of the positive conclusion of the work.

1. Conclusions

Comments on the findings have to be provided, in order to summarize the answer to the research question.

1. Figures

Figures dealing with the methods and result can be included at the end of the abstract.

1. Topics

Report here one or more of the topics listed below (you can delete those not relevant).

* *Building physics: envelope and system components*
* *Heat and mass transfer modeling in buildings*
* *Building envelope systems and facades, and innovative building materials*
* *Air flow, natural ventilation and  mixed mode cooling*
* *HVAC components and systems*
* *CHP and Renewables*
* *Building control systems*
* *Service equipment*
* *Overall Performance*
* *Building and room acoustics*
* *Lighting and daylighting*
* *Thermal comfort*
* *Indoor air quality*
* *Indoor environmental quality*
* *Net-zero energy building*
* *Retrofit/refurbishment of existing buildings*
* *Commissioning and operation*
* *Urban modelling and District analysis*
* *Methodologies, regulation, calculation and simulation tools*
* *Model validation, sensitivity analysis, calibration and optimization techniques*
* *Building codes and regulations, simplified methods versus detailed simulation*
* *New simulation tools and improvements in existing simulation tools*
* *Integration, interoperability web-based techniques, software development, open source initiatives*
* *BIM*
* *Advances in teaching and education, eLearning*