

Partner offer (competences/expertise)

Rheologic specializes in Computational Fluid Dynamic (CFD) simulations. Among other things our simulations can include the full thermodynamic effects of phase changes of fluids (moisture condensation and evaporation).

A possible cooling application is to cool the building envelope from the outside using innovative wall installations (e.g.: <http://www.thermocollect.at>) plus a buffer system that holds water (from rain or night time condensation) and evaporates this moisture during day time.

We are interested in exploring this concept and are bringing our expertise in CFD simulations and phase changes to the table. Please let us know if you want to cooperate on this!

Information about phase change CFD simulation:

<http://rheologic.net/en/openfoam-cfd-solver-phase-change>
(includes transient simulation videos and solver validation)

Topics

LCE-06-2017.:

New knowledge and technologies

LCE-07-2016-2017.:

Developing the next generation technologies of renewable electricity and heating/cooling

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