

## KeepCool II

### Barriers against the broad market penetration of sustainable summer comfort



This work package aims at providing practical tools and recommendations to overcome barriers against the widespread penetration of sustainable summer comfort. These recommendations will be based on a pinpoint analysis of these barriers.

### Summer comfort as a service: avoiding bad practice in cooling

The project team will make an assessment of the current rules-of-thumb regarding design, installation and operation of cooling systems in buildings. Those rules that are found to be incorrect will be identified. Specifications of good practice will be proposed to replace them. Associations of design professionals will be involved in order to guarantee the acceptance of the new specifications.

Yet the main recommendation to building owners, design teams and building occupants will be to begin thinking of summer comfort as a service: a good quality service that can be provided with little or no conventional energy consumption.

The results of this task will be published in the toolkit in the form of a table of headings with DOs versus DON'Ts. They will also include guidelines for demanding the service of summer comfort instead of calling straight for the design of a HVAC system.

### Incentives for technology planners/design professionals to take sustainable summer comfort measures into account

Design professionals are remunerated in proportion of the size of the air-conditioning system they put into a building, and architects are remunerated in proportion to the investment costs of the building they design. This form of remuneration practice does not give any incentive towards low running costs or energy efficiency. In particular, avoiding the need to install an air conditioning system through good design, reducing internal gains and introducing passive measures, is not rewarded at all.

KeepCool II will tackle this barrier by proposing incentives to energy efficient construction (partly building on the guarantee models investigated in the EUROCONTRACT project and on the Integrated Planning model proposed in the INTEND project) and bringing in this issue into its national dissemination activities in work package 6, in order to attempt to build widespread support for the incentive scheme.

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#### Impressum

## Recommendations on summer energy efficiency in national building codes

Summer requirements are often not given the same attention as winter requirements in national building codes, which often in a weak consideration of summertime energy efficiency in the planning and construction practice. With the national implementation of the Directive on Energy Performance of Buildings (EPBD), many countries revised their building codes, giving energy consumption a greater role. Performance based or prescriptive based requirements in national building codes may induce the mass adoption of sustainable summer comfort measures.

Based on the work started in KeepCool I and in the EPBD Concerted Action, KeepCool II will compile a review of the criteria for energy efficiency in the national building codes concerning summer comfort or mechanical cooling systems (namely: direct requirements in case of prescriptive based codes or calculation methodologies in case of performance based codes). Using the results of this review, KeepCool II will make an exercise of benchmarking between national building codes and produce recommendations on how to include sustainable summer comfort measures best into the building codes which are lacking them.

The recommendations will be published in the toolkit and will be used in the dissemination activities for policy makers.

### Outcome of this work package

- Clear recommendations for providing the service of sustainable summer comfort, avoiding obsolete rules-of-thumb;
- proposal for incentives rewarding efficient building design;
- benchmarking of national building codes regarding requirements on summer comfort and cooling systems and recommendations for introducing summer comfort measures into building codes.

### Impressum

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