arsenal research
A Company of Austrian Research Centers

Case Study ROCOCO

Reduction of costs of Solar Cooling systems

Challenge
Main aspect is the cost-competitiveness of Solar Cooling technologies compared to conventional cooling techniques and how future RTD can lead to market competitive solutions

Customer benefit
Reduce of CO_2 emissions and greenhouse gas emissions by multiplication of sustainable air-conditioning and cooling systems

Innovation
Setting up cost-competitive deployment of solar assisted air-conditioning technologies compared to conventional operated ones

Objective
Identification of high-potential technological applications for Solar Cooling systems and assessment of potential costs

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Customer
European Commission

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Duration
01/04/2006 – 30/04/2008

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Business Field
Sustainable Energy Systems
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ROCOCO aims at the cost-competitive deployment of solar-assisted air conditioning technologies instead of conventional operated ones in order to promote energy efficiency more actively.

Objectives:
Consequently, the overall objective is to identify European wide cost reduction potential for Solar Cooling systems, based on the collection and dissemination of existing know-how of RTD and industrial participants.

Methods:
- Preparation of **technology and market matrix** for different areas of application, like tourism, office buildings, industry trade, hospitals or residential buildings
- Assessments and analyses of **high-potential building sectors** by means of existing market growth scenarios and related applications to find out potentials for Solar Cooling technologies

- Identification of **technology gaps** in the potential building sectors and applications and assess these against the results emerging from RTD and market applications
- Building up an **innovation network** existing of national expert groups under the aspect of diversity and gender that consist of manufacturers, refrigeration and HVAC experts, facility managers, female scientists etc.
- A detailed plan for **future required RTD** will be produced and this will feed forwards to commercialisation of Solar Cooling technologies
- First target group for dissemination are planners, architects and actors involved in building construction or maintenance (operators, civil engineers, etc) in these innovative Solar Cooling systems

Outcomes:
The project will initiate a technology outlook for the next generation of more cost-effective Solar Cooling systems at improved performance and reduced costs.

For this reason, the identification of high-potential building sectors for the implementation of next-generation Solar Cooling systems and the uncovering of technological gaps and potentials are essential.

Project partners:
- Conness GmbH (Austria)
- team gmi GmbH (Austria)
- AIGUASOL Enginyeria (Spain)
- FOTOTERM Installacion SL (Spain)
- TECSOL S.A. (France)
- Holding Stihle Fresres (France)

SIXTH FRAMEWORK PROGRAMME
AIGUASOL ENGINYERIA
fototerm
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teamgmi
CONNESS AUSTRIA
tecsol
H.S.F holding stihlé frères s.a.