



SHC Task 38+ - Contribution of EURAC

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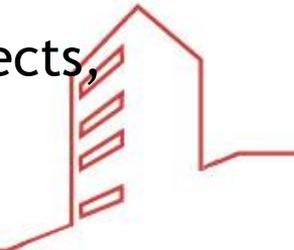
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EURAC Research

- is an institute for applied research and further education
- was founded in 1992 as a private non-profit organization
- has over 250 collaborators
- had 2008 a turnover of 13 M€, 50% of which is third party financed
- is currently involved in over 30 EU-funded projects, and responsible for a budget of over 9 M€



Research areas

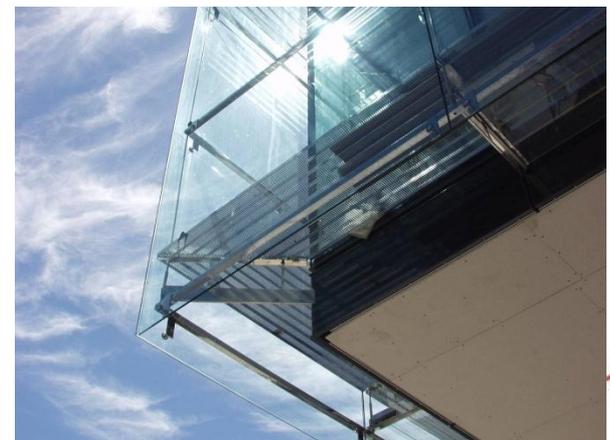
- Minorities, Autonomies and Linguistics
- Life Science
- Sustainable Development

Institute for Renewable Energy

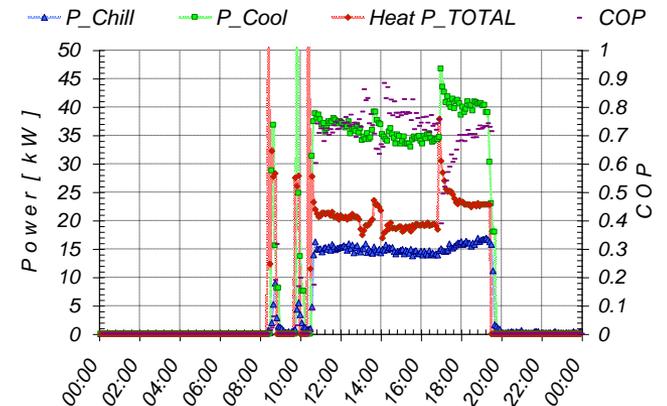
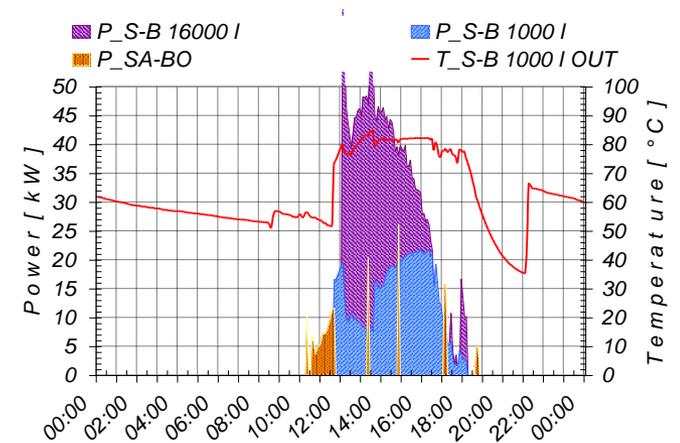
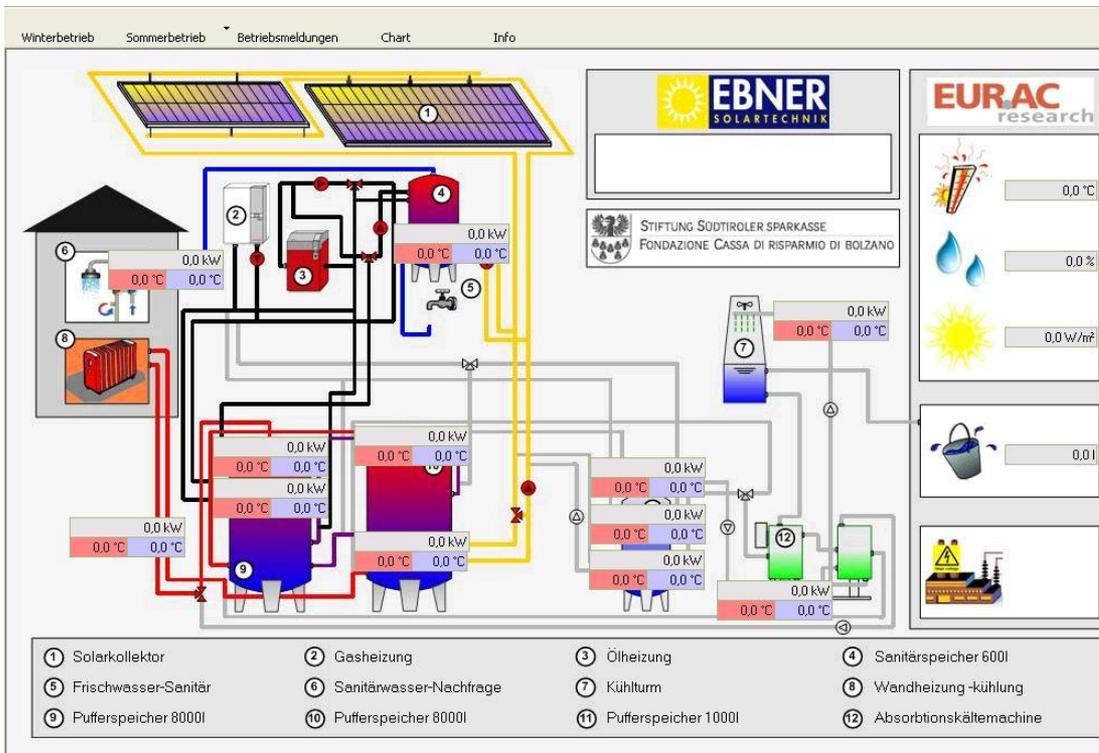
- Foundation in 2005
~ 35 collaborators

- Main field of the activities is
Solar energy and buildings

Solar Heating and Cooling Systems
Energy in Buildings
Photovoltaic Systems



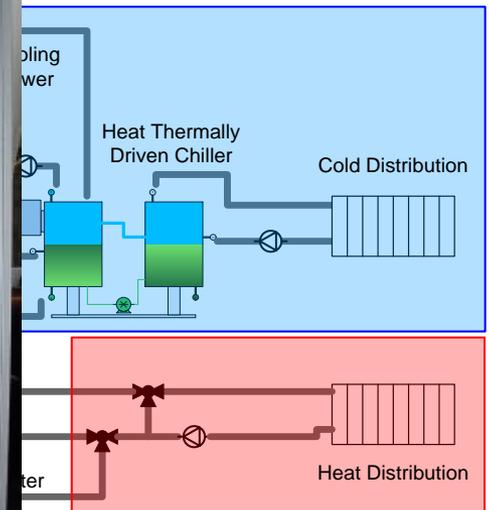
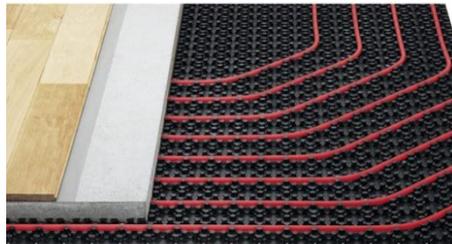
Monitoring and simulation



Test facility for heat pumps



Products development



Source: EURAC

IEA and and further experience



TASK 38

- IEA - SHC: Task 38 - Air conditioning and refrigeration - Leader Subtask B
- IEA - SHC: Task 40 - Towards net zero energy buildings - Co-leader ST B
- IEA - SHC: Task 41 - Solar integration in buildings



IEA **Heat Pump Centre**
The IEA Heat Pump Programme's Information Centre

- IEA - HPP: Annex 34 - Thermal driven heat pumps - Leader Subtask D
- IEA - HPP: Task44-Annex38 - Solar + Heat Pump - Leader Subtask D
- EU projects: Alone, RefSol

Task 38+ - Interest

Subtask B: Detailed design and commissioning procedures

- definition of specific best configurations
- definition of package systems
- quality design and installation procedures

Subtask C: Certification and contracting

- machine/system performance under steady conditions
→ Quality label
- machine/system performance on seasonal basis: energy harvest
→ Energy contracting, Auditing, Quality label again?
- machine/system long term performance
→ Energy contracting, Maintenance programs, Costs analysis



Task 38+ - Contribution

Subtask B: Detailed design and commissioning procedures

IEE Solar Combi+	FP7 Alone	Industrial Velta
Definition of specific best configurations	definition of specific best configurations	definition of specific best configurations
	definition of package systems	definition of package systems
	quality design and installation procedures: best practices/errors and cost/times experienced	quality design and installation procedures: best practices/errors and cost/times experienced

Task 38+ - Contribution

Specification and contracting (**LEAD ?**)

Task38	FP7 Alone	Industrial Velta
machine/system performance under steady conditions	--	machine/system performance under steady conditions
machine/system performance on a seasonal basis	machine/system performance on a seasonal basis	machine/system performance on a seasonal basis
machine/system long term performance	machine/system long term performance	machine/system long term performance

Based on Task 26 procedures + work started at INES, SPF, Eurac, ... ?

Based on Task 38, Annex 34, Task 44 monitoring procedures on the site ?
Definition of test procedures in the lab?



Thank you for your attention

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