



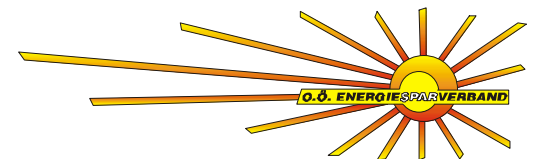
SO-PRO

Solar Process Heat SO-PRO

www.solar-process-heat.eu

Contract N°: IEE/08/425/SI2.528532
Duration: 28 months (1.6.2009-30.9.2011)
Coordination: O.Ö. Energiesparverband
April 2010

Intelligent Energy  Europe



Project summary

Objectives

The project will trigger the starting-up of markets for solar process heat by carrying out targeted market development activities in 6 European regions, including:

- training of professionals
- information for industrial decision makers
- developing planning guidelines
- 12 pilot projects
(solar process heat installations)

Partners: 6 regional & 2 scientific partners

Project website: www.solar-process-heat.eu



Background

While solar heat for domestic and service applications has increasing market shares across Europe, solar process heat is very much in its infancy.

The potential is enormous: about 30% of the total industrial heat demand is at temperature levels below 100°C which can be provided with commercially available solar thermal collectors. However, only about 70 installations in Europe were identified by the IEA Task 33 Solar Heat for Industrial Applications.

The project aims at bringing together key actors and target groups, by combining perspectives and know-how of industrial and solar companies and by starting a market development process.

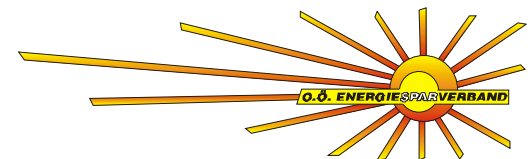
Objectives and main steps

Approach

- bringing together know-how from industrial processes, solar thermal and regional market development
- trans-sectoral approach (not limited to specific industrial sectors/branches)

Main steps for towards market development

- screening of 90 companies (WP2)
- developing planning guidelines and check-lists (WP3)
- carrying out comprehensive regional campaigns (WP4)
- triggering and supporting 12 pilot projects (WP5)
- promoting solar contracting for process heat (WP6)
- information dissemination outside the project regions by a European training seminar, an international seminar, project newsletters, project publications, and a stand at a major industrial fair (WP7)



Expected results

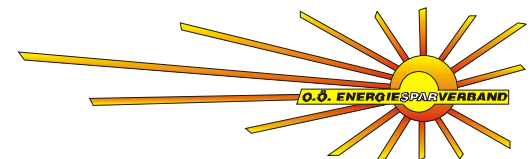
The project aims for a major impact on the market development of solar process heat: in total, the project expects to trigger 60 - 100 installations within 3 years.

Outputs

- 140 persons will be trained
- 180 stakeholders will participate in round-table events
- 4,000 industrial decision makers will be pro-actively informed in events and through direct mailings
- more than 100 companies will be screened and advised
- 21 professionally designed publications in 5 languages (13,000 copies) will be produced and disseminated

→resulting in a major change in awareness and know-how levels

www.solar-process-heat.eu



Achieved results

By April 2010, among others, the following activities were carried out:

- regional inventories on the specific market conditions for solar process heat for each region
- energy screenings in 15 industrial companies in each region (90 in total)
- 7 regional round-tables and one international round-table
- summary reports on the 90 screenings and on the selection of priority applications
- the dissemination of the first project newsletter

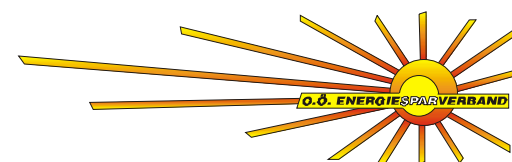
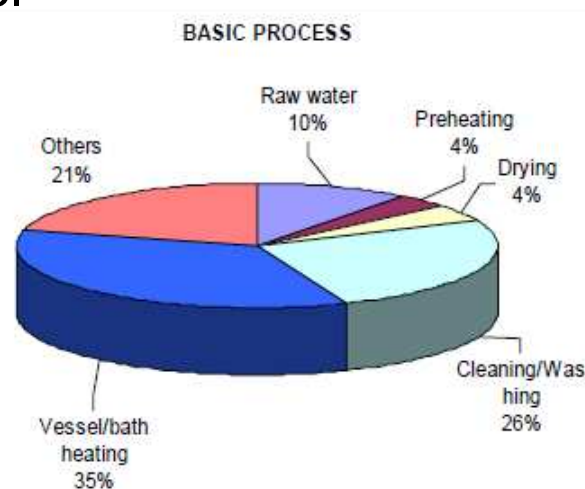


Lessons learnt

Lessons learnt:

- the following priority applications were selected:
cleaning and washing / heating of baths and vessels / drying
- the process oriented approach was validated
- the main challenge in implemented solar process heat is in the economic viability. This is more likely if:
 - low temperature process heat is required throughout the year (not only during heating season), best below 50°
 - no waste heat from other processes can be used and
 - heating oil is the main fuel

main processes
detected for solar
process heat



Partners & contacts

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Project website: www.solar-process-heat.eu

Partners:

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- ESCAN, Region of Castillas y Madrid (Spain)
- Energy Centre České Budějovice (ECCB), South Bohemia (Czech Republic)
- GERTEC, North-Rhine Westphalia (NRW, Germany)
- Sächsische Energieagentur (SAENA), Saxony (Germany)
- Energy agency of Podravje (Energap), Podravje region (Slovenia)
- Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung (ISE), (Germany)

