



## Project Fact Sheet

### Solar Process Heat (SO-PRO)



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**Website:** [www.solar-process-heat.eu](http://www.solar-process-heat.eu)

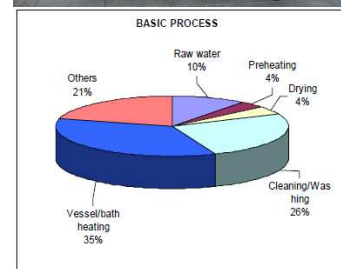
**Benefits (max. 150 characters incl. space):** The project will trigger the starting-up of markets for solar process heat by carrying out targeted market development activities in 6 European regions

**Keywords:** Solar thermal, process heat, industry

**Duration:** 01/06/2009 – 30/09/2011

**Budget:** € 903,545 (EU contribution: 75%)

**Contract number:** IEE/08/425/SI2.528532



### Summary

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 will trigger the starting-up of markets for solar process heat in 6 European regions**, among others by targeted awareness raising for industrial decision makers, training of professionals, development of planning guidelines and 12 pilot projects. It will bring together key actors and target groups, by combining perspectives and know-how of industrial and solar companies and by starting a market development process. Comprehensive European dissemination activities will ensure that the know-how gained is applied around Europe.

The project aims for a major impact on the market development of solar process heat: In total, the project wants to trigger 60-100 installations within 6 years in Europe.

## Expected results

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

## Results achieved by March 2010

The following actions were completed:

- 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)
- the results of both activities were summarised in regional reports and the following priority applications were selected: cleaning and washing / heating of baths and vessels / drying
- the regional campaigns were started by holding one regional round-table meeting in each region
- the first steps in European communication were implemented, e.g. by sending out the first project newsletter.

## Lessons learnt

The results of the energy screenings and the stakeholder inputs showed clearly that under the current market conditions, the main challenge in the implementation of solar process heat lies 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°C
- no waste heat from other processes can be used and
- heating oil is the main fuel.

An important result of the activities so far is that the process oriented approach (versus an industry sector-specific approach) was validated. It turned out that in general those industries which need processes such as washing, raw material production with hot water and heating in low temperature baths are of particular interest for solar process heat.