



## EVENT DESCRIPTION

**Project Partner: Energy Centre České Budějovice**

**Title of the event: Training course “Solar energy for process heat in the industry (project So-Pro)”**

**Date & location: 5.5.2011, South Bohemian Regional Authority, České Budějovice**

**Organiser(s):** Energy Centre České Budějovice in cooperation with South Bohemian Regional Authority, South Bohemian Chamber of Commerce and Czech Chamber of Authorised Engineers and Technicians

**Number of Participants: 44**

### Summary

The training course “Solar energy for process heat in the industry (project So-Pro)” took place in the South Bohemian Regional Authority on 5.5.2011.

The training course targeted mainly technical experts from solar companies, industrial companies and specialised planners and its aim was to provide the principle know-how to size and plan solar installations.

Because of our experience with low interest from the side of industrial and solar companies from previous So-Pro round tables we decided to invite industrial and solar companies and specialised planners from both South Bohemia and neighbouring regions (Prague, Central Bohemian Region, Vysočina Region and the Pilsen Region). For this purpose two new databases with addresses were elaborated: a database of solar companies and a database of South Bohemian specialised planners that are registered at Czech Chamber of Authorised Engineers and Technicians.

The programme included a presentation on So-Pro project, where the so far implemented activities and the role of ECCB were introduced. Other parts of the training course were devoted to basic principles of using solar energy for heat generation – utilization in the industry, system design for selected industrial processes or design and maintenance aspects for solar process heat plants. Further concrete examples of solar heat utilisation in North Rhine Westphalia and Upper Austria and the financing method “EPC” and its possible use for solar process heat projects were introduced.

After distributing the invitation to the target groups (invitations to the training course sent both per e-mail and also per post), one industrial company and 34 other participants (either solar thermal companies or specialized planners) displayed the interest in taking part in the training course.



## Objective & main programme point

The aim of the training course was to get together the main stakeholder groups and make them acquainted with the basic know-how for sizing and planning solar thermal plants in the industry.

After the introductory word by a representative of the South Bohemian Regional Authority and the introduction of the So-Pro project the lecture of Doc. Ing. Tomáš Matuška, Ph.D. on basic principles of solar energy utilization for heat generation and possibilities of use in the industry followed. This lecture was devoted to utilization of solar heat in the industry, types of solar collectors for industrial solar plants (efficiency, capacity and price) and system design for solar process heat installations. Afterwards DI Heli Kasa from GERTEC gave her lecture. Its topic was the experience of GERTEC, a project partner, with the So-Pro project and presentation of concrete solar process heat installations in North Rhine-Westphalia. After a short break Ing. Zdeněk Krejčí spoke about system design for four selected industrial processes and design and maintenance aspects for solar process heat plants. Among others he mentioned a few concrete examples of solar process heat utilization from abroad, energy screenings of some South Bohemian companies and results of energy screenings and then he devoted to four industrial processes themselves (heating of hot water for washing or cleaning, heating of make-up water for steam networks, heating of industrial baths or vessels, convective drying with hot air). In the lecture of Ing. Jaroslav Maroušek, CSc. the EPC financing method, its development in CZ and its possible use in the framework of So-Pro project were introduced. The relationship between an ESCO and a client, the exact process of preparation and implementing of a project, the content of contracts on providing energy services etc. were discussed. In the last lecture of the training course Mr Peter Stockreiter introduced the concrete example of solar process heat utilization in the company Leitl Beton Hörsching.

During the training course 2 questionnaires concerning the training course and the project So-Pro itself were distributed to the participants who were invited to give their feedback.

## Conclusions & lessons learnt

The aim to get together the most important stakeholder groups and provide them with information for sizing and planning solar installations was fulfilled in South Bohemia.

From nearly 700 addressed industrial companies from 4 neighbouring regions and approx. 500 industrial companies from South Bohemia only one company (Elasta Vestil) took part in the training course. The industrial companies were sent the invitation to the training course per e-mail.

Concerning the solar thermal companies and specialised planners we addressed nearly 1800 of them. We elaborated two new databases of addresses for this purpose. The first database includes specialised planners from South Bohemia (approx. 250 members of Czech Chamber of Authorised Engineers and Technicians), the second one is the database of solar companies from South Bohemia and four neighbouring regions (nearly 1500). They were sent the invitation per post. 34 persons participated in the training course (they were either representatives of solar companies or specialised planners).

We also informed on the round table on the training course 3 internet servers ([www.enviweb.cz](http://www.enviweb.cz), [www.tzb-info.cz](http://www.tzb-info.cz), [www.biom.cz](http://www.biom.cz)) and on our website. Invitations to the training course were also sent via South Bohemian Chamber of Commerce.

What have we learnt from this training course? Like at the previous events organised in the framework of So-Pro project there is no interest from the side of industrial companies, either from South Bohemia or from other regions (although nearly 1200 industrial companies were addressed). As for the solar companies or specialised planners we can say that these groups are interested to learn something new in their field of activity. The problem is that there are no potential clients at the moment, where the solar companies/specialised planners could make use of the gained knowledge. Unless the existing conditions in CZ change (there is no subsidy programme for solar process heat utilization in the industry which is the main obstacle together with too long payback period of a solar process heat project) the interest of the industrial companies will probably stay the same, i.e. none or very low.

## Attached:

- programme
- printed invitation folder
- all ppts
- pictures
- attendance list

## Programme

9:45 – 10:00	Registration of participants
10:00 – 10:05	Introductory word by a representative of South Bohemian Regional Authority
10:05 – 10:20	Introduction of the project Solar Process Heat and information on its implementation <i>Mgr. Ivana Klobušníková, director of ECCB</i>
10:20 – 12:05	Basic principles of the solar energy utilization for the heat production, possibilities of use in the industry <i>Doc. Ing. Tomáš Matuška, Ph.D., Czech Technical Univerzity in Prague</i>
12:05 – 12:35	Experience with So-Pro project from North Rhine-Westphalia and concrete examples of solar process heat utilization <i>DI Heli Kasa, GERTEC</i>
12:35 – 13:05	Break with refreshment
13:05 – 13:50	System design for four selected industrial processes and design and maintenance aspects for solar process heat plants <i>Ing. Zdeněk Krejčí, ECCB</i>
13:50 – 14:50	Providing energy services, development of EPC method in CZ and possibility of its use in the framework of So-Pro project <i>Ing. Jaroslav Maroušek, SEVEN, The Energy Efficiency Center</i>
14:50 – 15:50	Concrete example of solar process heat utilization in the industry, Leitl Beton Hörsching (Austria) <i>Peter Stockreiter, Leitl Beton</i>
15:50 – 16:00	Discussion, answering the questions, end of the training course



Pictures

