



EVENT DESCRIPTION

Project partner: ESCAN

Title: Specific Round Table Solar for Process

Date & location: 25th November 2009, Avila, Spain

Organiser: ESCAN,S.A.

Number of Participants: 14

Summary:

An international specific roundtable on solar for process heat was organised during the organisation of the second project meeting in Madrid, Spain. Nissan Motor Ibérica owns one of the most important solar thermal installations for process heat Central Spain, with a production surface of collectors reaching over 529 m², and accumulation capacity of 40.000 l.

Objective & main programme point:

Specific round tables on solar for process heat are aimed at the share of experiences among partners and other key actors, in order to increase the knowledge on some specific issues that can affect the development of the project. This roundtable was directed to the analysis of a solar thermal installation already working in an industry for the last three years.

The event was organised in the facilities of Nissan Motor Ibérica,S.A., one of the biggest industries in Central Spain from the transport sector, with a consumption of over 15.000.000 kWh thermal per year. 14 international professionals coming from Nissan, the SOPRO consortium, the regional energy agency, solar industries and solar ESCOs had the opportunity of presenting their experiences and visit the industry including the solar installation. The energy provided by the renewable system saves over 1.300.000 kWh per year, reducing over 200 tons of CO₂ per year.

Conclusions & lessons learnt:

Solar thermal installations are at present well known in south European Countries for building sector. In Spain, the specific regulation for buildings construction obliges to install solar collectors in every new construction.

On the other side, the solar thermal systems installed in industries present some specific needs as those presented during the roundtable. The discussion developed by the professionals led to some key conclusions:

- ⇒ Solar systems can be an interesting solution in industries due to several reasons:
 - The energy saving due to own energy production leads to improvements in the company economy
 - ESCOs can be a good solution to improve the production and maintenance of the solar system: one expert company is in charge of the whole system, and the industry consuming only needs to pay the energy cost.
 - According to industrial managers and technicians, solar ESCOs seem to be the “new and right concept for solar installations in industries, while the older system of individual organisations: panel retailer + installer + maintainer + financer + etc. does not work so well”
 - The solar systems reduce CO₂ emissions, which is a benefit for the industry, for the Municipality and the Region.
 - The image of the company is improved with solar systems.
 - In case of big industries, it can help to improve the benchmarking values compared to other companies of the group.
 - In case of SMEs, it provides an innovative technology and a difference with other competitors
 - Projects of pioneers (first installations) are sometimes not as profitable as expected during the first period, as there is need of adjustments
 -
- ⇒ The integration of the solar system and the process needs to be deeply analysed in order to be optimum
- ⇒ The solar panels maintenance in the industrial roofs could be more difficult than in buildings
- ⇒ The right monitoring of the solar production and process control leads to a better efficiency of the solar system

ANNEX

Programme



ROUNDTABLE AND TECHNICAL VISIT TO NISSAN MOTOR IBERICA 25th NOVEMBER 2009

- 9:00 h Arrival to Nissan
- 9:15h Welcome by Nissan
- 9:30h SOPRO presentation (Christiane Egger and Francisco Puente)
- 9:40h EREN Presentation. Castilla y León (Jorge Jove)
- 9:50h 9REN-Gamesa presentation, solar ESCO
- 10:00h Nissan solar installation presentation (Rafael Perosanz, Victor Vega)
- 10:30h Debate and comments
- 10:45h Coffee break
- 11:00h Visit to plant
- 12:30h End of technical visit
- 13:00h Lunch**
- 14:30h End of visit

Pictures

