Organised by

SHC SOLAR HEATING & COOLING PROGRAMME INTERNATIONAL ENERGY AGENCY

SolarPACES

tecnalia Inspiring Business

Registration to the workshop

The assistance to the workshop is free of charge, but the number of places available is limited and will be allocated by order of registration. For registration please send a confirmation e-mail to:

energia@tecnalia.com

For more information about the workshop please contact:

Mr Iñigo Iparraguirre (inigo.iparraguirre@tecnalia.com)

The Workshop will take place at

TECNALIA
Parque Científico y Tecnológico de Gipuzkoa
Mikeletegi Pasalekua, 2
E-20009 Donostia - San Sebastián (Gipuzkoa)
Tel.: +34 902.760.000
GPS coordinates
Lat = 43.286916 / Lon = -1.985873

For more information on location and how to reach it please consult http://www.tecnalia.com/es/tecnalia/localizacion-sedes/sede-central/donostia-paseo-mikeletegi-2.htm

SHC SOLAR HEATING & COOLING PROGRAMME INTERNATIONAL ENERGY AGENCY

Solar Heat Integration in Industrial Processes
A Technology Workshop

Organized in the framework of the joint task of
IEA SHC Task 49 and Solar Paces IV on
"Solar Heat Integration in Industrial Processes"

TECNALIA, (Spain)
March 11th 2015
14:30 – 18:30

Background

Solar process heat in industry (<120°C) could account for 20% of energy use for low temperature industrial heat by 2050*. This would correspond to an installed capacity of 3,200 GWth, producing around 7.2 EJ solar heat per year.

The key industrial sectors with the highest potential are food and beverage, textile, transport equipment, metal and plastic treatment as well as the chemical industry.

The areas of application with the most suitable industrial processes include cleaning, drying, evaporation and distillation, blanching, pasteurisation, sterilisation, cooking, melting, painting, and surface treatment.

** IEA Solar Heating and Cooling Technology Roadmap*

IEA-SHC Task 49

With our activities in IEA-SHC-Task 49 (http://task49.iea-shc.org) we aim to tap into this potential and foster economical utilization of solar thermal heat in manufacturing processes. Solar heat and energy efficiency measures can be combined **to reduce operation costs** for industry around the world – with **locally adapted technical solutions**. Task 49 wants to claim the treasure and provide industrial processes with solar heat; Task 49 aims to optimize the solar generation of process heat up to 400°C; Task 49 aims to optimize the demand side in industry for solar thermal process heat.

The Workshop

The workshop on *"Solar Heat Integration in Industrial Processes"* will present the newest developments and insights in the field of collector technology and solar thermal system integration in combination with energy saving measures. Experience with installed systems will play also a major role. Presentations from research institutions, technology suppliers and end consumers will lead to an informative knowledge transfer.

Target Audience

The target audience of the workshop involves producing companies, industry associations, representatives of technology suppliers in the field of solar thermal and machineries, and energy consultants.

Solar Heat Integration in Industrial Processes

A Technology Workshop

TECNALIA – March 11th – from 14:30 to 18:30

- **Welcome and presentation of the workshop**
  Luis Pedrosa
  Director of the Energy and Environment Division
  TECNALIA.
- **Challenges and market opportunities related to solar thermal application in industrial processes.**
  Christoph Brunner (coordinator of task 49)
  Head of Department Industrial Processes and Energy Systems
  AEE - Institut für Nachhaltige Technologien
- **Challenges and market opportunities related to solar thermal application in industrial processes. The situation in Spain.**
  Miguel Frasquet Herraiz (group leader of solar thermal concentrated medium temperature in Solar Concentra)
  Solar R&D Coordinator CTAER
  Solar Concentra
- **A success story on an installation of a solar thermal plant in an industrial process.**

- **Round table to share impressions about challenges and opportunities in solar process heat integration in industrial processes. Technological and non-technological barriers, main objectives and opportunities for suppliers and process heat consumers.**

Photo sources (in order or appearance): Brewery Systems GmbH, Fraunhofer ISE, GEA Brewery Systems GmbHFranz Pfluegl – Fotalia.com, Industrial Solar GmbH, GEA