

"Conference on Small-scale Concentrating Solar Power in Sardinia" and "Industrial Workshop on solar process heat - Results and findings of the EU FP7 Project InSun"

Friday, 25 September 2015, h 9:00 – 17:30

Venue: Auditorium Technology Park
 Edificio 2 Località Piscinamanna
 09010 Pula (CA) - ITALY

Abstract

The development of small-scale concentrating solar power plants (CSP) could become an interesting technology in the field of the distributed generation from renewable energy sources. Moreover, the possibility to use this technology for applications in solar heating for industrial processes (SHIP) matches with the demand for large quantities of heat at medium temperature from the industrial sector. Based on these considerations, a lot of technical, economic and political questions arise about the feasibility of small-scale CSP in integrating distributed generation and mitigating its impact on the electric grid as well as in supporting the use of solar process heat for industrial applications.

In this context, Sardegna Ricerche and the partners of the EU project "InSun" organize a joined event with the aim of connecting leaders from industry, academia and policy makers in order to share and discuss the trends, the research results and the technical requirements concerning these issues.

Both the Conference and Workshop will provide open platforms for discussions, proposals and solutions, representing a concrete opportunity to coordinate actions and resources for the diffusion of small-scale CSP technology in Sardinia and in the Mediterranean area and for its integration in several industrial processes.

Expected Participants

- Regional and local governments delegates
- National policy officers
- CSP industrial companies
- Local ESCO and SME
- Agri-food industries
- Research and University delegates

Overview

SMALL-SCALE CONCENTRATING SOLAR POWER CONFERENCE: The demo plants in Sardinia and application potentials for solar process heat		LANGUAGE
09:00-09:45	Participant registration and welcome coffee	
09:45-11:10	Small-scale CSP in Sardinia - Technical Part A	Italian/English
11:15-11:30	Discussion	
11:30-12:15	Small-scale CSP and solar process heat - Technical Part B	English/Italian
12:15-13:15	Small-scale CSP and solar process heat - Incentives and policies	Italian/English
13:15-14:30	Networking Lunch	
INDUSTRIAL WORKSHOP ON SOLAR PROCESS HEAT		LANGUAGE
14:30 -17.30	Solar Heat for Industrial Processes (SHIP) applications - Results and findings of the EU FP7 Project InSun	English/Italian

Agenda for the Conference (Small changes may occur)

SMALL-SCALE CONCENTRATING SOLAR POWER PLANTS

Chairman: *Giovanni Puglisi*, IEA SHC Executive Committee Member, ENEA - UTEE Researcher

Time	Content	Speakers
9:00-9:45	Participant registration and welcome coffee	-
9:45-10:00	Welcome	Sardegna Ricerche
10:00-10:15	"Concentrating solar power project": funding small-scale CSP experimental facilities	Regione Autonoma della Sardegna <i>Industry Department</i>
10:15-10:35	Activities and research carried out by Sardegna Ricerche in the "Concentrating solar power project"	Sardegna Ricerche <i>Renewable Energy Platform – Tiziana Melis, Maura Musio</i>
10:35-10:55	Small scale CSP and micro-grid: Research carried out by the Department of Electrical and Electronic Engineering (DIEE)	University of Cagliari <i>DIEE - Alfonso Damiano</i>
10:55-11:15	Small scale CSP and thermal storage: Research carried out by the Department of Mechanical, Chemical and Materials Engineering (DIMCM)	University of Cagliari <i>DIMCM - Giorgio Cau</i>
11:15-11:30	Discussion	ALL
11:30-12:00	Small-scale CSP and solar process heat application: case studies	Fraunhofer ISE <i>Solar Thermal and Optics Division - Werner Platzer</i>
12:00-12:15	The Insun Project "Industrial Process Heat by Solar Collectors"	HFT Stuttgart <i>Centre for Sustainable Energy Technology (zafh.net) - Dirk Pietruschka</i>
12:15-12:35	Italian Policy and incentives on small scale CSP and solar process heat	GSE (Gestore dei Sistemi Energetici)
12:35-12:55	Small-scale CSP and the Operational Programme of the Region of Sardinia (POR FESR 2014-2020)	Regione Autonoma della Sardegna <i>ERDF Managing Authority</i>
12:55-13:15	Discussion and conclusion	ALL
13:15-14:30	Networking Lunch	

Agenda for the Industrial Workshop

SOLAR HEAT FOR INDUSTRIAL PROCESSES

Time	Content	Speakers
14:30-14:40	Welcome and introduction of the workshops content and objectives	HFT Stuttgart - zafh.net <i>Dirk Pietruschka</i>
SESSION 1: SOLAR HEAT APPLICATIONS FOR LOWER TEMPERATURE PROCESSES		
14:40-15:20	<ul style="list-style-type: none"> - Introducing presentation of the demo site at BERGER - Experiences made and lessons learned: <ul style="list-style-type: none"> > The view of solar system providers > The view of the ham producer BERGER - Application potentials world wide - Discussion with the auditorium 	SOLID / SOLERA / Berger <i>Sabine Putz - SOLID</i> <i>Klemens Jakob - SOLERA</i> <i>Bernd Maderner – BERGER</i> <i>Ilyes Ben Hassine – zafh.net</i>
SESSION 2: SOLAR STEAM GENERATION FOR PRODUCTION PROCESSES		
15:20-16:00	<ul style="list-style-type: none"> - Introducing presentation of the SOLTIGUA demo site at Laterizi Gambettola - Experiences made and lessons learned: <ul style="list-style-type: none"> > System with indirect steam generation > System with direct steam generation - Application potentials worldwide - Discussion with the auditorium 	SOLTIGUA / EURAC <i>Francesco Orioli - SOLTIGUA</i> <i>Roberto Fedrizzi – EURAC</i> <i>Marcus Brennenstuhl – zafh.net</i>
SESSION 3: SOLAR PROCESS HEAT APPLICATION FOR CHEES PRODUCTION		
16:00-16:40	<ul style="list-style-type: none"> - Applicable processes in the diary sector - Solar system integration options - Dimensioning, performance and economic applicability of solar process heat systems for diaries on a European level - Discussion with the auditorium 	SOLTIGUA / SARDEGNA RICERCHE <i>Francesco Orioli - SOLTIGUA</i> Marco Camerada, Valeria Demontis – SARDEGNA RICERCHE
16:40-17:00	EU Policy and incentives	ESTIF <i>Stefano Lambertucci</i>
17:00-17:15	Discussion with the auditorium	ALL
17:15-17:30	Summary and Conclusions	HFT Stuttgart - zafh.net <i>Dirk Pietruschka</i>

