

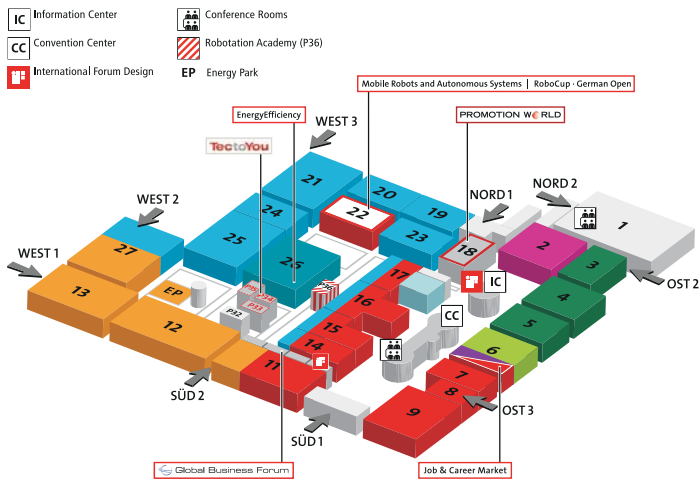
CSP now!

Concentrating Solar Power

Solar thermal power plants use concentrated solar radiation to provide the heat input for conventional steam or gas turbine power plant cycles. They are recognised as suitable technology for bulk electricity generation in the 10-1000 MW range. The energy pay-back time of solar thermal power plants is around 0.5 years; their life-cycle CO₂ emissions are similar to those of wind, hydro and nuclear power, i.e. substantially below those of fossil fuel fired power plants. After their first commercial success in the late 1980ies with 350 MW of installed power in California, a market re-entry of the technology has started recently in Spain. Currently 1 GW of power plants are under construction or already in operation and many more are under development. Meanwhile additional projects are emerging in many other countries.



Überblick



Industrial Automation

- INTERKAMA – The World of Process Automation**
Leading Trade Fair for Process Automation (Halls 7–9, 11)
- Factory Automation**
Leading Trade Fair for Production Automation (Halls 8, 9, 11, 14–17)
- Industrial Building Automation**
Trade Fair for Integrated Industrial and Building Automation Systems (Hall 11)

MDA – Motion, Drive & Automation

Leading Trade Fair for Power Transmission and Control (Halls 14 – 17, 19 – 25, 27)

Energy

- Energy**
Leading Trade Fair for Renewable and Conventional Power Generation, Transmission and Distribution (Halls 11–13, 27)
- Power Plant Technology**
Leading Trade Fair for Power Plant Design, Systems, Operation and Maintenance (Hall 27)
- Wind**
International Trade Fair for Wind Generation Technology, Components and Services (Hall 27)

Digital Factory

Leading Trade Fair for Integrated Processes and IT Solutions (Hall 17)

Subcontracting

Leading Trade Fair for Subcontracting Services, Materials, Components and Systems for Mechanical Engineering, the Automotive Industry and Plant Engineering (Halls 3–5)

ComVac

Leading Trade Fair for Compressed Air and Vacuum Technology (Hall 26)

SurfaceTechnology

Leading Trade Fair for Surface Technology (Hall 6)

MicroTechnology

Leading Trade Fair for Applied Microsystems Technology and Nanotechnology (Hall 6)

Research & Technology

Innovations Market for R&D (Hall 2)



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Forum April 20th 2009
ConcentratingSolarPower
Hall 27 Stand F30

Leading Trade Fair for Power Plant Design,
Systems, Operation and Maintenance · 20–24 April 2009



In cooperation with



Patron



Forum/Program Hall 27

Monday April 20th

Morning

Welcome and Overview

- 10:30 Welcome and Overview**
Prof. Dr. Robert Pitz-Paal, DLR
- 10:40 Solar field linear concentrating technology - Overview on designs, components, manufacturing, performance assessment, advantages, trends**
Dr.-Ing. Eckhard Lüpfer, DLR
- 11:00 Overview on Point Focus Technologies**
Prof. Dr. Bernhard Hoffschmidt, SIJ

Technology and Projects

- 11:20 ANDASOL – Europe's first commercial parabolic trough plant online**
Dr. Henner Gladen, SM
- 11:40 ISCC Power Plant Kuraymat, Egypt**
Dr. Paul Nava, Flagsol
- 12:00 Solar Thermal Investigation plant in Juelich (Technology development at KAM)**
G. Koll, KAM
- 12:20 First CSP plant based on NOVA-1 Fresnel technology in operation. Experiences and outlook**
Dr. Martin Selig, Novatec
- 12:40 German Participation in the Value-Added Chain of CSP-Plant Construction**
Dr. Rainer Kistner, Head of Solar Power / Senior Vice President of MAN Ferrostaal AG
- 13:00 Break –14:00**

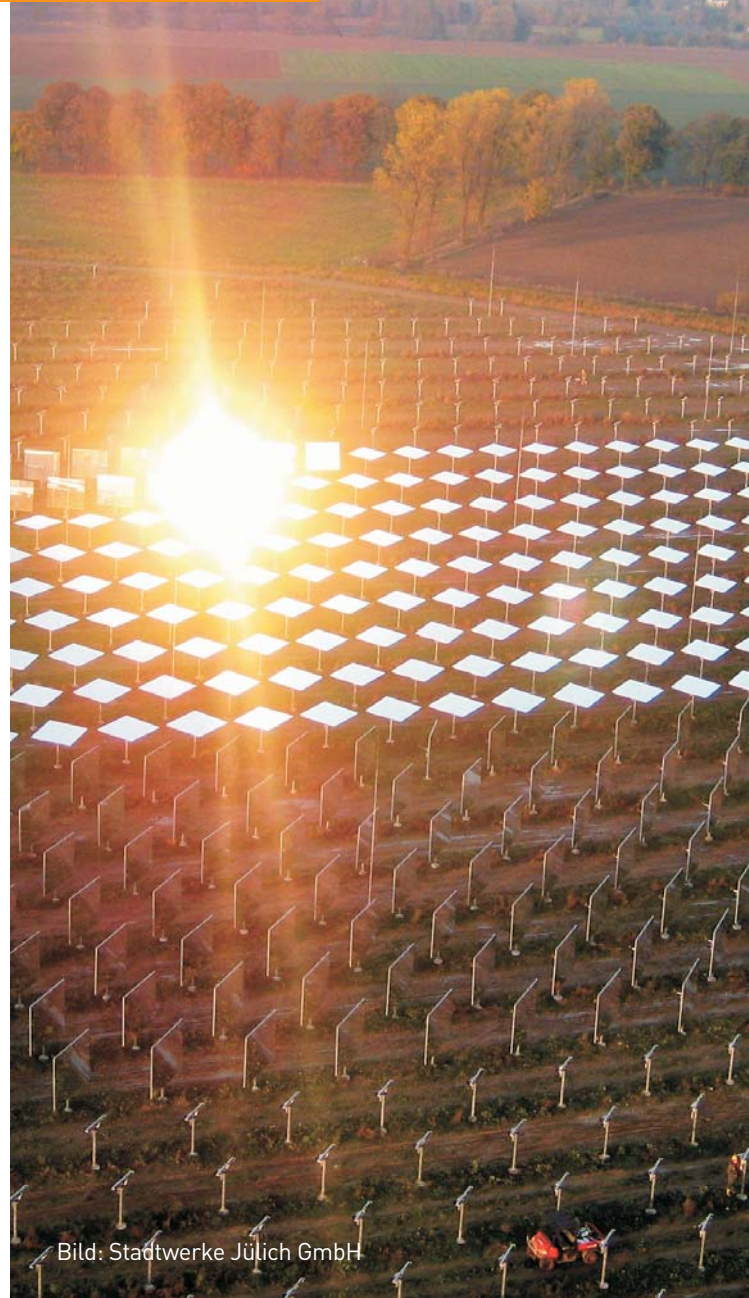


Bild: Stadtwerke Jülich GmbH

Afternoon

Key Components

- 14:00 Solar Mirrors - Basics to Focus (on) Energy**
Dr. Rüdiger Schulz, Flabeg
- 14:20 High Efficient Receivers for Parabolic Trough Power Plants**
Dr. Nikolaus Benz, Schott
- 14:40 Research Funding in the Field of Concentrating Solar Power**
Ralf Christmann, BMU
- 15:00 Steam turbines for solar thermal power plants**
Dr. Bernd Utz, Siemens
- 15:20 High Performance Steam Turbines for Solar Power Applications**
Dr.-Ing. Mark André Schwarz, MAN_Turbo
- 15:40 Concrete Storage for Solar Thermal Power Plants and Industrial Process Heat**
Dipl.-Ing. Carsten Bahl, Project Leader, Senior Engineer

Market and Finance

- 16:00 Mediterranean Solar Plan - Challenge and Chance for a Sustainable Energy Supply*)**
Ralf Christmann, BMU
- 16:20 EmPower Projekt Phase II - Development of CSP and PV Projects in Developing and Emerging Countries**
Dipl. Phys. Werner Klaus, Senior Advisor Renewable Energies
- 16:40 CSP-Project Finance Outlook**
Rosa Tarrago, Project Manager
- 17:00 DESERTEC - how industry can make big business with clean power from deserts for a world with 10 billion people**
Dr. Gerhard Knies, Club of Rome
- 17:30 Sitzung: Arbeitskreis "Solarthermische Kraftwerke" des Kompetenz-Netzwerks Kraftwerkstechnik NRW**
- 18:30 Closing of ConcentratingSolarPower**