

inter  
**solar**

connecting solar business

| EUROPE

**PV PRODUCTION AND TECHNOLOGY**



**June 13–15, 2012**

**Intersolar Europe Hall A5 and A6**

**Where PV Meets Manufacturing!**

**New Munich Trade Fair Centre, Germany**

[www.intersolar.de/pvgroup](http://www.intersolar.de/pvgroup)



PHOTO: A high number of visitors and a busy show floor made Intersolar Europe 2011 a great success.

## INTERSOLAR EUROPE – THE PREMIER EXHIBITION FOR PV MANUFACTURING

**SUCCESS** – The PV Production and Technology segment at Intersolar Europe has established itself as the prime exhibition for PV manufacturing equipment, materials and technology. The proof is an increasingly high number of visitors with international and professional backgrounds and a clear interest in PV Manufacturing. In 2012 the exhibition space will be doubled to live up to the strong demand for this important segment!

**VALUE** – The concept of having cell, module, and thin film manufacturers under the same roof with the equipment and materials suppliers has proven successful and continues to create enormously valuable synergies.

**PROFESSIONAL** – PV Group as the global PV association of choice will continue to co-organize this exhibition segment. Various PV technology and manufacturing related events will bring together a high number of leaders, decision makers, and professionals for the PV manufacturing community. These events will be focusing on the real needs of the industry and provide first hand and valuable information.

**JOIN US** – Join the leaders in PV Production and Technology! Be part of the community and showcase your products and services at Intersolar Europe 2012.



PHOTOS: PV manufacturing materials are an integral and important part of Intersolar Europe.



## PV MANUFACTURING AT INTERSOLAR EUROPE

**FOCUSED** – Hall A5 and A6 are dedicated to the PV Production and Technology segment at Intersolar Europe. With cell and module makers exhibiting in the halls beside you, the exhibition represents the whole value chain of the PV supply chain. There is no other place to be closer to your customers. Intersolar Europe is a must-attend event on the exhibition calendar if you are a supplier of one of the following products or services.

### PRODUCTS AND SERVICES

- Equipment and Machinery
- Automation Technology
- Cell and Module Manufacturing
- Thin Film Manufacturing
- Test and Measuring Technology
- Software
- Feedstock and Wafers
- Consumables
- Gases and Chemicals
- Solar Glass

## SEMI PV GROUP

SEMI PV Group is the global industry association with more than 35 years of experience serving companies that provide equipment, materials and services used to manufacture semiconductors, displays, photovoltaics and other related technologies.

SEMI PV Group co-organizes this exhibition segment for Intersolar Europe. Their professional background and global member community ensures the right topics for the conferences and other related events will be covered. Not yet a member of the PV Group? Find out more online, join us and benefit from many advantages for members!



## TOGETHER WE CAN CHANGE THE WORLD

- Build bridges between cell and module manufacturers and their supplier base to address critical issues and move towards increased competitiveness
- Build standards that significantly reduce costs throughout the manufacturing supply chain and spur innovation
- SEMI Environmental Health and Safety (EHS) initiatives that help reduce the cost of EHS compliance
- PV Technology Roadmap development supported by the major Cell-Manufacturers

## centrotherm | EXHIBITORS PV PRODUCTION AND TECHNOLOGY HALL IN 2011

photovoltaics

As a leading global technology and equipment provider, centrotherm photovoltaics has been present at Intersolar for many years. The trade fair is a key date on the solar industry's calendar. This proved to be the case again in 2011: We held many productive meetings, strengthened relationships with existing customers and won new ones. This is why we are already looking forward to Intersolar 2012.

Dr. Peter Fath, CTO, centrotherm photovoltaics AG

## Rexroth Bosch Group

Through the exceptionally high interest from international visitors and excellent show organization was the first exhibition by Bosch Rexroth a complete success. We plan to participate again next year with an even larger booth to support the increasing significance placed on Intersolar by the equipment builders.

Andreas Gryglewski, Head of Sales Industry Sector Solar, Bosch Rexroth

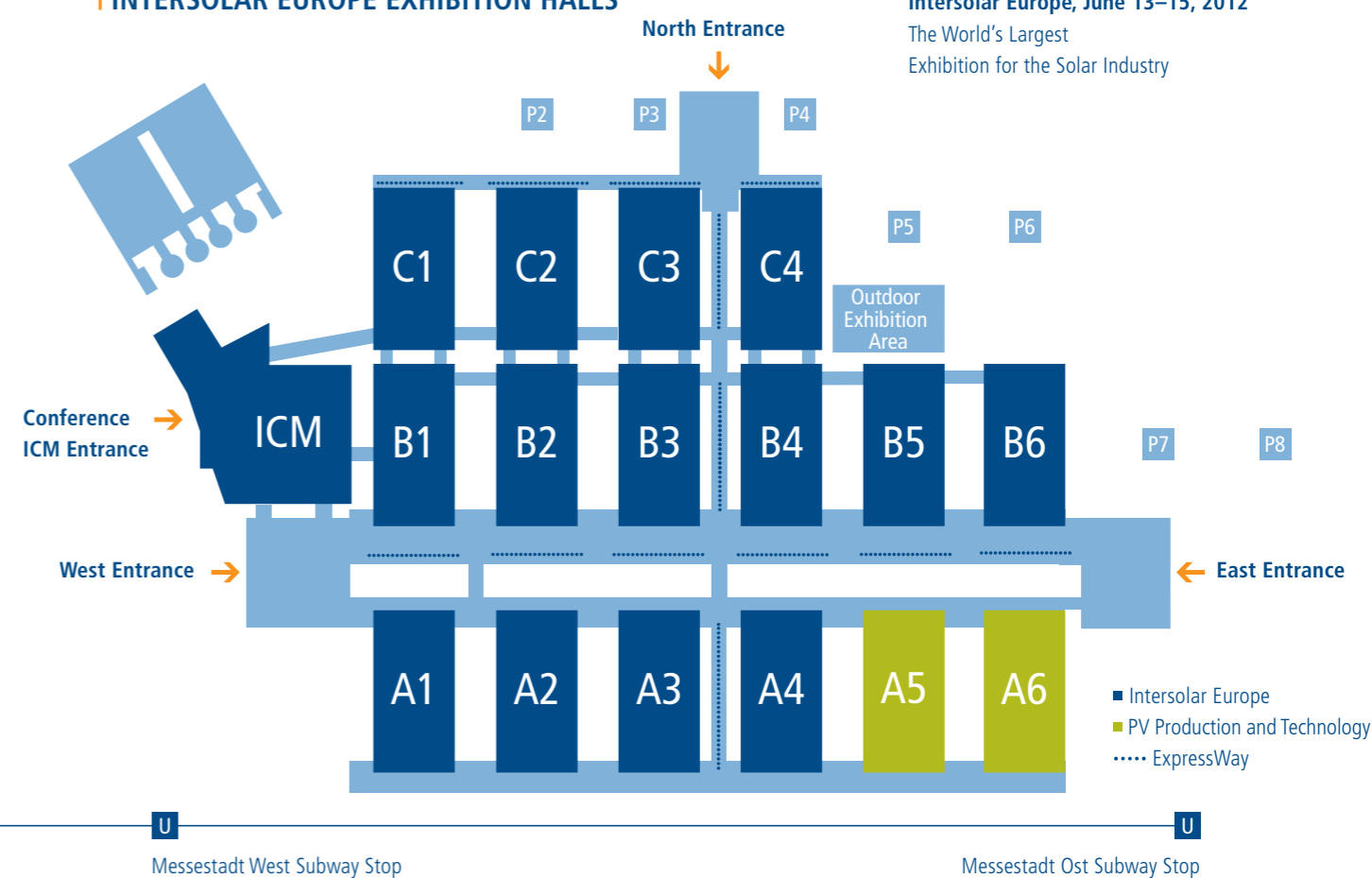


DuPont Photovoltaic Solutions exhibited for the first time at Intersolar Europe this year. In our view this show is key across the large international trade show circuit dedicated to photovoltaics. We were impressed by the quality of the visitors to our booth and by the interactions we had with several technology specialists from across the entire photovoltaic industry.

Dr. Simone Arizzi, Global Technology Director, DuPont Photovoltaic Solutions

2BG S.r.l. | 3S Modultec | 3S Photovoltaics | 4JET Sales+Service GmbH | acp-IT AG | ACTIV SOLAR | AIS Automation Dresden GmbH | All Real Technology Co., Ltd. | AMB Automation | amtec Analysenmesstechnik GmbH | Amtech Systems Inc. | Apollon Solar s.a.s | Applied Materials | Applied Materials | Asahi Glass Co. Ltd. | Asys GmbH | Avaluxe International GmbH | Avantes | Beijing Jingyi Century Electronics Co., Ltd. | Beijing TONSAN Adhesive Co., Ltd | Böhme Kunststofftechnik GmbH & Co. KG | Böhm-Solar Equipment Technology GmbH | Bosch Rexroth AG | Bruker-Spaleck GmbH | Carl Zeiss Microlmaging GmbH, GF OSS | centrotherm photovoltaics AG | centrotherm sitec GmbH | Changzhou Hongxie Safety Glass Co., Ltd | China Great Wall Industry Corporation | CIEC Overseas Exhibition Co. Ltd | Cixi Tianyou PV Technology Co., Ltd. | Comtec Solar Co. Ltd. | Coveme Spa | CPP Solar | DAS Environmental Expert GmbH | Diamond Wire | Doedijns Instrumentation B.V. Thermo Electric | Dunmore Europe GmbH | DuPont Photovoltaic Solutions | Eckpack Service GmbH & Co. KG | Ecoprogetti srl | Edwards GmbH | EKO Instruments Europe B.V. | emv-Elektronische Meßgeräte Vertriebs GmbH | Engineered Conductive Materials | ENLOG Europe S.A. | ESCAD Automation GmbH | ESL Elektronik GmbH | Fäth GmbH | Féron GmbH & Co. KG | Ferrotec GmbH | FHR Anlagenbau GmbH | FLIR Commercial Systems BV | FMG Flat Glass Group - Zhejiang Jiafu Glass Co. Ltd. | Fraunhofer IZFP Dresden | Fraunhofer-Institut für Elektronenstrahl- und Plasmatechnik FEP | FUJIFILM Electronic Materials (Europe) | Gaotune Technologies Co., Ltd. | Gebr. Schmid GmbH + Co. | GEMOTEC | GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG | GP Solar GmbH | GPP Chemnitz Gesellschaft für Prozeßrechnerprogrammierung mbH | GREATEYES GmbH | GreenSolar Equipment Manufacturing Ltd. | Gsolar Power Co., Ltd. | Guangzhou Baiyun Chemical Industry Co., Ltd. | Guangzhou Lushan New Material Co., Ltd. | Gujarat Borosil Limited | Hager+Elsässer S-Tec GmbH | Hangzhou First PV Material Co., Ltd. | Heimerle + Meule GmbH | Heinrich Betz oHG | Heliatek GmbH | HELIOS ITALQUARTZ S.r.l. | Henan Ancai Hi-Tech Co., Ltd. | Henan Huamei New Materials Technology Co., Ltd. | Henan Succeed Photovoltaic Materials Corporation | Hennecke | HEVATEC Systeme und Anlagenbau GmbH | HSV Technical Moulded Parts BV | IB Vogt GmbH | Innolas Systems GmbH | InQu Informatics GmbH | Intego GmbH | Interfloat Corporation | ISM - Norbert Schröder | ISOVOLTAIC GMBH | Itemic AG | J. Schmalz GmbH | Jiangsu Tayal Powder Science & Technology Co., Ltd. | Jiangxi Sinoma New Solar Materials Co., Ltd. | Jianguin East-China Aluminum Technology Co., Ltd. | Jing Mu International Exhibition Co., Ltd. | Jinshi Solar Electrical Science and Technology Co., Ltd. | Jolywood (Suzhou) Solar Material Technology Co., Ltd | Jonas & Redmann Photovoltaics Production Solutions GmbH | JRT Photovoltaics GmbH & Co. KG | JYT Corporation | Kirchhoff & Lehr GmbH | KLA-Tencor | Komax Solar Inc. | Konica Minolta Sensing Europe B.V. | Krempel GmbH | Kuka Roboter GmbH | KUKA Systems GmbH | Kuroda Techno Co., Ltd. | Kuttler Automation Systems (Suzhou) Co., Ltd. | Landeshauptstadt Dresden, Amt für Wirtschaftsförderung | LayTec in-line GmbH | Leybold Optics GmbH | Lisec Maschinenbau GmbH | LOTUS Systems GmbH | LUMERA LASER GmbH | Luvata Oy | M+W Group | Madico Inc. | MAG IAS GmbH | Manz Automation AG | Marubeni Corporation, Industrial Machinery Dept. | Maschinenbau Gerold GmbH & Co. KG | MB Robotics | MB Services | MB Wafertec | MBI Solutions GmbH | Meco Equipment Engineers BV | Merck KGaA | Meyer Burger Technology AG | MiniTec GmbH & Co. KG | Mink Bürsten | Mola Solar Systems GmbH | Mure & Peyrot | NanoFocus AG | Novopolymers NV | NPC Incorporated | Nuon Helianthos, a Vattenfall company | NY Loves Clean Tech | Oerlikon Solar Ltd., Trubbach | omt-optische messtechnik gmbh | Op-tection GmbH | Optoprim | Oxidkeramik J.Cardenas GmbH | P.Energy Spa | PASAN | Poly Plant Project, Inc. | Prediktor AS | Pressta Eisele GmbH | PV-TECH.ORG | Qingdao Jinjing Co. Ltd. | Qualiflow Therm | RAYTEK GmbH | RCS-Automation GmbH | Reis SolarEnergy GmbH | REM Solar | Rena GmbH | Robert Bürkle GmbH | Robust Habicht & Heuser GmbH & Co. KG | Röchling Engineering Plastics KG | ROFIN-BAASEL Lasertech GmbH & Co. KG | Roth & Rau AG | Sächsisches Staatsministerium für Wirtschaft, Arbeit und Verkehr | Saes Getters S.p.A. | SBS Metalltechnik GmbH | Schenker AG, VM Semicon/Solar | SCHILLER AUTOMATION GmbH & Co. KG | Schreiner Group GmbH & Co. KG, Geschäftsbereich ProTech | Sconvey GmbH | SEMCO Engineering S.A. | SEMI PV Group Europe | Semi Quarz GmbH | Senning Solar GmbH | SGS Germany GmbH - Solar Testhouse | SiC Processing GmbH | Silicon Saxony e.V. | Singulus Technologies AG | SKC europe GmbH | SMP Sintermetalle Prometheus GmbH & Co.KG | Solneva SA | Soltabond Conductive Adhesives | SOMONT | Sony Chemical & Information Device Corporation | Sony Energy Devices Corporation | Specialized Technology Resources España S.A. | Spire Corporation | STMicroelectronics GmbH | Swiss Wafers AG | Synova SA | synthetica Fluoroplastics GmbH | SYSTEMA Systementwicklung Dipl.Ing. Manfred Austen GmbH | Targray Technology International Inc. | teamtechnik GmbH | Telemeter Electronic GmbH | Tempres Systems BV | Testo AG | Tooliss GmbH | Torsten Meißner Konstruktion & Verkauf von Maschinen | Trakya Cam Sanayii A.S. - Sisecam | TÜV InterCert GmbH | Ulbrich of Austria GmbH | Ulrich Rotte Anlagenbau und Fördertechnik GmbH | ULVAC GmbH | Unique Solar Bremen GmbH | VacSol GmbH | VDI/VDE Innovation+Technik GmbH | Verbundinitiative EESA | Vetrad BV | Vincent Industrie | Vision Engineering Ltd. | vogt group SE | vogt solar GmbH | Voltaix | VON ARDENNE Anlagentechnik GmbH | Voss electronics GmbH | W. C. Heraeus GmbH | Wirtschaftsförderung Sachsen GmbH | Yingkou Jinchen Machinery Co., Ltd. | Yole Developpement | Zibo Jinxing Glass Co., Ltd. | Zimmermann & Schilp Handhabungstechnik GmbH | znt Zentren für Neue Technologien GmbH

## INTERSOLAR EUROPE EXHIBITION HALLS



## PV PRODUCTION AND TECHNOLOGY EXHIBITION HALL A5 AND A6

### PV Manufacturing Material

- Feedstock
- Consumables (Paste, Wires, etc.)
- Gasses and Liquid Chemicals
- Solar Glass and Encapsulation

### PV Manufacturing Machinery and Equipment

- for Wafers and Ingots
- for Cells
- for Thin Films
- Integration and Automation

PHOTO: Thin-Film technologies on display at Intersolar Europe.



## PV PRODUCTION AND TECHNOLOGY EVENTS AT INTERSOLAR EUROPE 2012

### Advanced Photovoltaic Manufacturing Technology Forum

The Advanced Photovoltaic Manufacturing Technology Forum will be held in conjunction with Intersolar Europe Conference. Themes for the forum are determined by strong committee guidance and will encompass the entire photovoltaic supply chain. The forum will focus on the real issues, hot topics, and current challenges of today's PV manufacturing plants. PV manufacturing practices and concepts clearly focused on the critical needs in our industry will also be discussed. Addressing, the most recent manufacturing science, and the PV technology advancements, the event is an ideal learning and networking platform.

#### Featured Topics include:

- FAB OPERATIONS EFFICIENCY – operations challenges, cost management, maintenance strategies, HR challenges and skill management, line supervision, cycle time and throughput management, and overall equipment efficiency
- TECHNICAL PRODUCTIVITY – yield, reliability, quality, tool, process, materials development, advanced equipment control, advanced process control, yield enhancement, device characterization, test, failure analysis, new technology introduction, product management
- FACTORY AUTOMATION & CONTROL – automated material handling system, production control, factory CIM strategies

### Who should attend?

Operations managers, technical management, facility management, lead and chief engineers, purchasing managers, PV research and development engineers, equipment, software and service suppliers, and other PV professionals involved in manufacturing.

The forum will provide the venue for industry professionals to learn and share knowledge on the industry's challenges and accelerating innovative solutions for a prosperous PV industry growth.

### PV Technology Roadmap Forum and Workshop

The CTM Group will again conduct the PV Technology Roadmap Forum during Intersolar Europe. The CTM Group (Crystalline Cell Technology and Manufacturing Group) is a special interest group of SEMI PV Group. The forum is the platform to present and discuss the latest developments and to share opinions and individual assessments of the future. More details about the group's activities and work can be found on

→ [www.itrpv.net](http://www.itrpv.net)

### PV Standards Workshops and Meetings

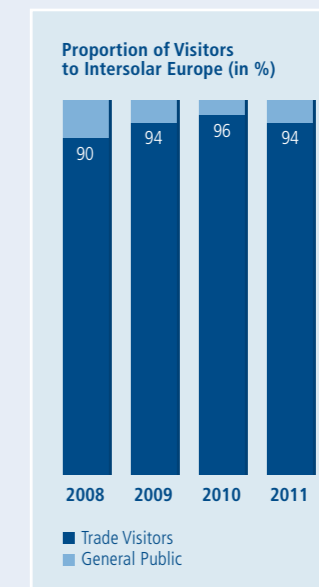
Why PV Standards? SEMI PV Group is the recognized leader in manufacturing standards – standards created by the industry, for the industry, to make PV a reality throughout the world. Intersolar Europe is the event where the most important standard taskforce and workshop meetings are taking place. To find out more about SEMI's PV related standards activities visit

→ [www.pvgroup.org/standards](http://www.pvgroup.org/standards)

### Intersolar Award 2012

Now in its fifth year, the annual Intersolar AWARD honors innovative products and services debuting at the exhibition and ideas from prior exhibitions that represent a significant advancement in products or services. Three pioneering products and services will be singled out for the Intersolar AWARD 2012: one each in Photovoltaics, Solar Thermal Technologies and PV Production Technology. Winners in the first two categories are selected by an independent jury; SEMI PV Group is responsible for the third.

PHOTO: Meet the leaders in PV manufacturing in Munich.

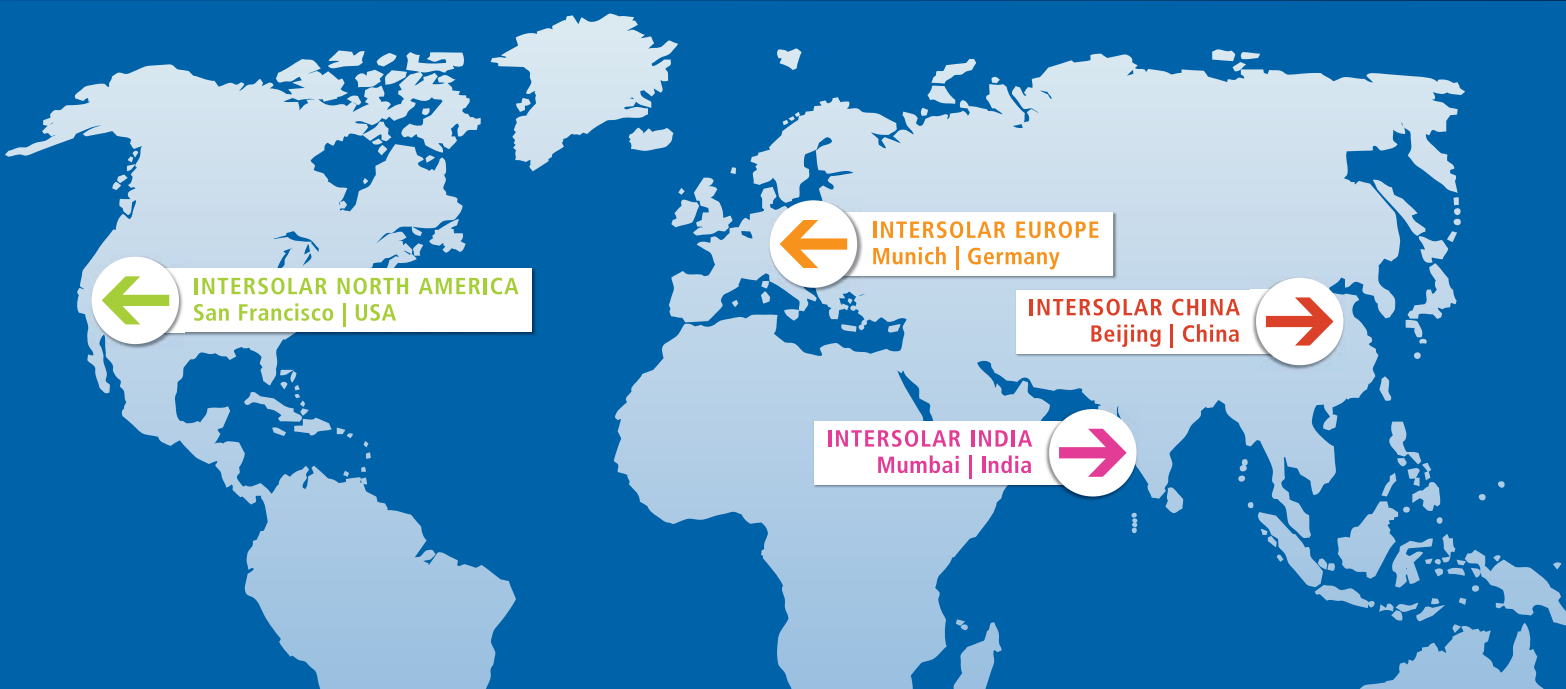


## INTERSOLAR EUROPE – QUICK FACTS

<b>Dates</b>	June 13–15, 2012
<b>Hours</b>	Wednesday, June 13 9:00am–6:00pm Thursday, June 14 9:00am–6:00pm Friday, June 15 9:00am–5:00pm
<b>Venue</b>	New Munich Trade Fair Centre, Germany
<b>Areas of Focus</b>	Photovoltaics and Solar Thermal Technologies
<b>Exhibitors</b>	2,400
<b>Exhibition Space</b>	180,000 sqm
<b>Visitors</b>	80,000+
<b>Application Form</b>	→ <a href="http://www.intersolar.de">www.intersolar.de</a> → Exhibitor Service
<b>Space Rentals</b>	Row Booth: € 176/sqm Corner Booth: € 187/sqm Head Booth: € 194/sqm Island Booth: € 201/sqm Outdoors: € 99/sqm Prices plus VAT, € 0.60/sqm AUMA contribution and waste disposal.
<b>Conference</b>	June 11–15, 2012
<b>Venue</b>	International Congress Centre Munich (ICM), Germany
<b>Attendees</b>	2,500 (expected)
<b>Topics</b>	Photovoltaics Solar Thermal Technologies Solar Thermal Power Plants

Organizers





## ORGANIZERS

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