



EU PVSEC

18 — 22
September
2023

Lisbon —
Portugal

CCL
— Lisbon
Congress
Centre

www.eupvsec.org



EU **PVSEC** 2023

40th European
Photovoltaic Solar Energy
Conference and Exhibition

**Post Event
Report** —

The European Photovoltaic Solar Energy Conference and Exhibition (EU PVSEC) is the World's leading forum for PV research and development and the biggest conference on PV solar energy. Celebrating more than 40 years of history, the EU PVSEC is the longest running, renowned PV conference in the World and the annual meeting point for PV experts from research, development, and the industry. With more than 1,000 scientific presentations, including oral and poster talks and expert workshops as well as special industry forums every year, it is known as the most important platform for exchange between PV science and industry.

The EU PVSEC Conference programme is coordinated by the European Commission Joint Research Centre.

KEY STATISTICS

OVER **1850**
PARTICIPANTS
(conference and
exhibition)

FROM
63
COUNTRIES

5
DAYS OF
CONFERENCE

MORE THAN
1050
PRESENTATIONS

290
SCIENTIFIC
COMMITTEE
MEMBERS

4
DAYS OF
EXHIBITION

OVER **9.500**
SESSION VIEWS IN
THE ONLINE
PLATFORM
WITHIN ONE
WEEK

OVER **70.000**
IMPRESSIONS OF
EU PVSEC POSTS
IN ONE MONTH

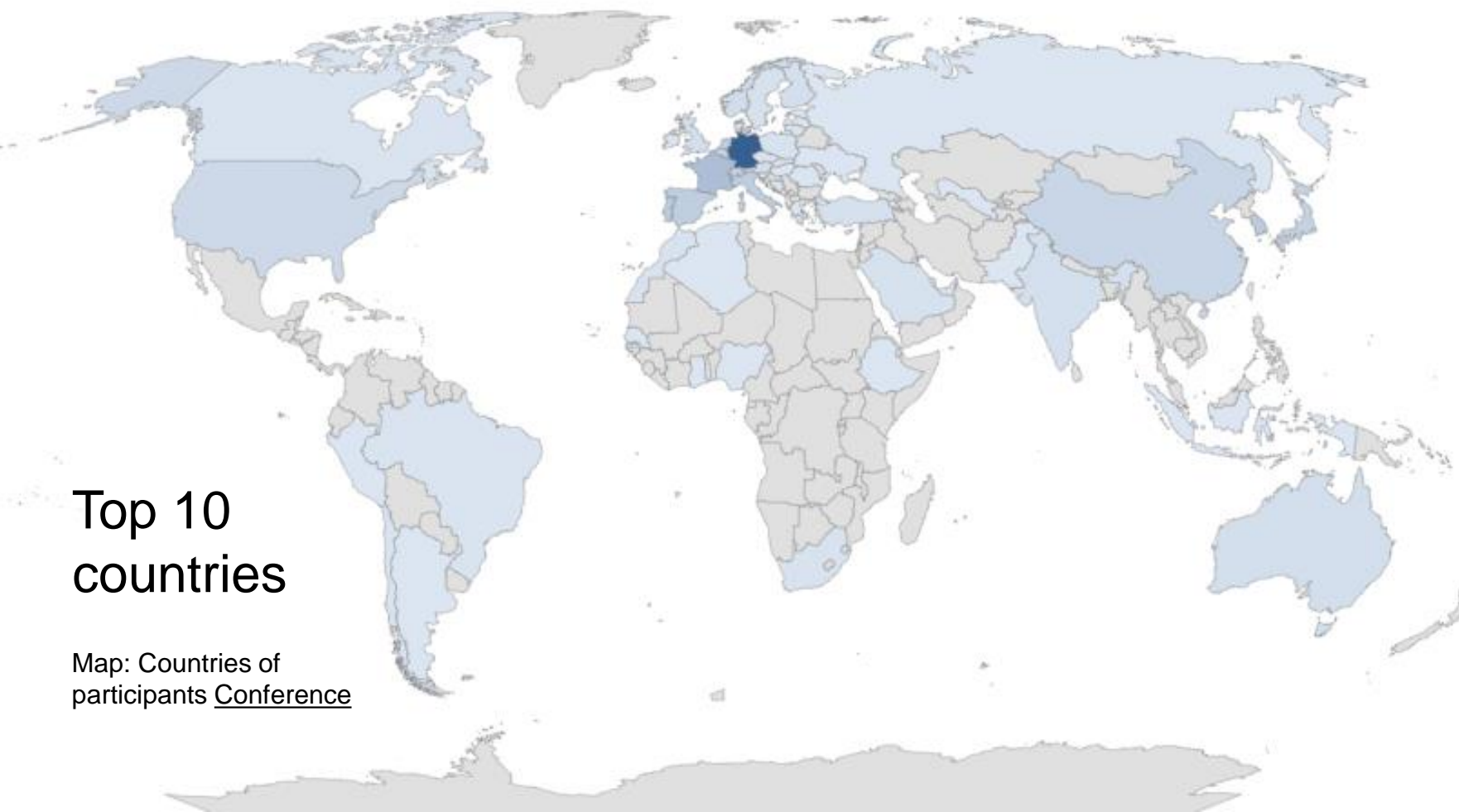
71
EXHIBITORS

20
SPONSORS

6
STUDENT
AWARD
WINNERS

16
POSTER
AWARD
WINNERS

KEY STATISTICS



Top 10 countries

Map: Countries of participants [Conference](#)

2023		
1	Germany	471
2	France	137
3	China	106
4	Italy	92
5	Portugal	88
6	South Korea	82
7	Spain	82
8	The Netherlands	81
9	Switzerland	70
10	Japan	63

KEY STATISTICS

Conference presentations by Topic

TOPIC 5:
PV in the Energy
Transition
14%

TOPIC 4:
PV Systems
Engineering,
Integrated/Applied
PV
29%



TOPIC 1:
Silicon Materials
and Cells
13%

TOPIC 2:
Thin Films and New
Concepts
24%

TOPIC 3:
Photovoltaic Modules and
BoS Components
20%

HIGHLIGHTS AND TAKE-AWAYS

- **Positive Growth:** Increasing proposals signal a promising path for Solar Energy Research in Europe and Globally.
- **c-Silicon's Relevance:** c-Silicon remains central to manufacturing, driving current and future developments.
- **Efficiency Milestones:** New cell structures like TOPCon and heterojunctions boost cell efficiency by 0.5%/year, nearing theoretical limits (26.8%).
- **Diverse & State-of-the-Art Research:** Extensive research in New Concepts, Perovskites, Tandem cells, and PV Systems underscores PV's importance in the Energy Transition.
- **Perovskite Breakthrough:** Perovskite silicon tandem cells achieve >33% efficiency, marking a significant leap in PV technology.



HIGHLIGHTS AND TAKE-AWAYS



- **Sustainability & Resilience:** EU PVSEC emphasises a sustainable PV industry, lowering carbon footprint, enhancing durability, and securing the supply chain.
- **Innovative Modules:** Novel materials and reliability testing are hot topics in PV module manufacturing.
- **Diverse Applications:** PV integration in BIPV, VIPV, floating PV, Agri-PV, and roads expands its application possibilities.
- **Data-Driven Operations:** Operational data sharing and AI-driven strategies are gaining traction in PV.
- **Future Scenarios:** Exploration of renewable scenarios, policy implications, and societal challenges shape PV's role in the energy transition.



Exhibitors from the following areas of the value chain



Associations



Consultancy



Research Centres and Universities



Industrial Equipment for Solar Manufacturing



Ingot, Wafer, Cells and Modules Production



PV Mounting Systems and PV Components



Energy Storage Solutions



Chemical and Material Solutions




Simulation and Testing Tools

EXHIBITION FACTS



EXHIBITORS AND
SPONSORS FROM
16 COUNTRIES



Austria, Belgium, China, Denmark, France, Germany, Italy, The Netherlands, Norway, Qatar, Slovenia, Spain, Switzerland, Turkey, United Kingdom, United States of America



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PARTICIPANTS

3D-Micromac | 3E | 3S Swiss Solar Solutions | 3SUN | 4JET microtech | Aiko solar | AIST | AIT | AMROCK | Apollo-Power | Applied Materials | Apricum - The Cleantech Advisory | Atotech Deutschland | Australian Photovoltaic Institute | Autarq | Avancis | Azur Space Solar Power | BayWa r.e. | Becquerel Institute | BELECTRIC | Bottero | BT Imaging | CARBON | CEA | Centralesupelec | centrotherm international | CF Energy | CIEMAT | Clean Energy | Cleantech Solar | CNRS | Coatema Coating Machinery | Colorado School of Mines | Coveme | CSEM | DAS Solar | DEWA | DNV DTU | ECM Greentech | Ecoprogetti | EcoSys Abatement | EDP Renewables | EERA | Eindhoven University of Technology | EMPA | Endurans Solar | ENEA | ENGIE | eni | Enlog | ENS-Paris-Saclay | EPFL | Eternal Sun | ETRI | Eurac Research | European Commission JRC | European Space Agency | Exasun | exateq | First Solar | Fluxim | FOM Technologies | Forschungszentrum Jülich | Fortum Renewables | Fraunhofer CSP | Fraunhofer IMWS | Fraunhofer ISE | Fraunhofer IST | Freiburg University | Friedrich-Alexander University Erlangen-Nuremberg | Fronius International | FuturaSun | G2V Optics | Galp Energia | GCL Technology | Glass to Power | halm elektronik | Hanwha Q-CELLS | HBKU | HD HYUNDAI ENERGY SOLUTION | Heraeus | HI ERN |

HOLOSOLIS | Honda R&D | HZB | ib vogt | I-EM | imec | Indeotec | Indian Institute of Technology Bombay | International Energy Agency | IPVF | ISC Konstanz | ISFH | ITRI | JA Solar Technology | Japan Advanced Institute of Science and Technology | Jinko Solar | Jonas & Redmann Photovoltaics Production SolutionsKalyon PV | Karlsruhe Institute of Technology | Khalifa University | KU Leuven | LAPLACE Renewable Energy Technology | LayTec | Lightyear | LONGi Solar Technology | LuxChemtech | Maxeon Solar | Meyer Burger | Mines Paris | Mondragon Assembly | Mounting Systems | Nagase Chemtex America | Next2Sun Technology | Nextracker | NexWafe | Nines Photovoltaics | Ningbo Ulica Solar | Nissan Technical Centre Europe | NorSun | ODTÜ-GÜNAM | OFI | OTT HydroMet (Kipp & Zonen) | Oxford PV | Photovoltaik-Institut Berlin | PV Lighthouse | PVA TePla | Pvsyst | Qatar Environment and Energy Research Institute | Q-CELLS Europe | R&D NESTER | RCT-Solutions | REC Solar | RENA Technologies | RSE | SALD BV | Sandia National Laboratories | SCHMID Group | Semco Smartech, SEMILAB Semiconductor Physics Laboratory Co. Ltd. | SERIS | SINGULUS TECHNOLOGIES, and many more...*

*Demonstrative list of participants according to institutions represented at the EU PVSEC 2023

European Commission | English

EU Science Hub

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CONFERENCES AND SUMMITS

40th European Photovoltaic Solar Energy Conference & Exhibition

The largest international gathering for photovoltaic research, technologies and applications.

This event has ended.

Celebrating its 40th edition in 2023, the European Photovoltaic Solar Energy Conference & Exhibition (PVSEC 2023) is the largest international gathering for photovoltaic research, technologies and applications.

Monday 18 Sep (CEST)
Lisbon, Portugal

Programme

18 Sep 2023, 12:00 - 22 Sep 2023, 18:00 (CEST)

- EU PVSEC 2023 Programme**
- The scientific conference programme comprises plenary, oral and video presentations on the latest scientific, technological and market-related topics.
- Coordinated by the European Commission's Joint Research Centre, this year's programme focuses on 5 key topics:
 - Silicon Materials and Cells
 - Thin Films and New Concepts
 - Photovoltaic Modules and BoS Components
 - PV Systems Engineering, Integrated/Applied PV
 - PV in the Energy Transition

PES THE SOURCE ALL

POWER AND ENERGY SOLUTIONS PRESS RELEASES EX

NEWS CONFERENCE CALL EXCLUSIVE ARTICLES SOLAR

Shaping the future of photovoltaics

SOLARBE 索比光伏网

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挖掘太阳能潜力：2023 年光伏学院等

发表于: 2023-08-15 09:09:56 来源: 投稿

【三秦大地，绿色陕西】2023陕西分布式光伏论坛火热报名中

2023河北分布式光伏论坛火热报名中

The PV Academy is holding the EU PVSEC.

17 September 2023
www.pv-academy.com

SolarPower Europe

SUPPORTED EVENTS

Exhibit at EU PVSEC 2023: A Gateway to Innovation, Collaboration, and Growth in the Photovoltaic Industry

18-22 September, Lisbon

EU PVSEC 18 — 22 September 2023

Lisbon Portugal CCL Lisbon

EU PVSEC 40th European Photovoltaic Solar Energy Conference and Exhibition

InnoEnergy Co-funded by the European Union

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ESIA European Solar PV Industry Alliance

22 Sep, 2023

EU PVSEC 2023 Wraps Up – Innovations are a Decisive Factor in the Global PV Race

- Photovoltaics Paves the Way to Combat Climate Change
- Awarding of the Bequerel Prize
- Session Recordings Available Worldwide
- EU PVSEC 2024 in Vienna, Austria
- ANNEX – Technical Highlights of the Conference

The European Photovoltaic Solar Energy Conference and Exhibition (EU PVSEC) 2023 concluded on 22 September 2023, marking another successful year of bringing together over 1850 leading experts, researchers and industry players to present and discuss the latest developments in photovoltaic research and technology. Over the course of five days, renowned researchers and industry pioneers shared their insights in over 1050 insightful presentations. The exhibition hall was bustling with activity as companies and organisations presented their latest products and services. As we reflect on this dynamic event, we are reminded of Dr Gunter Erfurt's insightful opening speech, where he stated, "An ecosystem that has everything, from R&D to the industry, is most efficient." This statement captures the essence of EU PVSEC, bridging the worlds of PV R&D and industry, and highlights the efficiency that results from such a strong collaboration.

pv magazine Global 136,394 followers 2d •

The current module oversupply market dynamic has bolstered manufacturing outside of China by national government manufacturers alike. pv magazine consultant and contributor part of discussions regarding made-in-Europe production measures are being called for by some. #renewableenergy #sustainability

While solar is thriving, European manufacturers are concerned they won't be able to survive without protective measures

pv-magazine.com • 5 min read

您准备好进入激动人心的太阳能和光伏世界了吗?2023 年光伏学院将于 2023 年 9 月 17 日在里斯本大学举行,为您提供一个独特的学习、交流机会,并在不断发展的太阳能行业中保持领先地位。光伏学院名额有限,请务必尽早报名。

如果您无法参加在里斯本举行的活动,您可以购买线上票,在现场会议结束后不久就能获得精彩演讲的珍贵录像。后,您就可以观看所有演讲,并详细了解演讲内容。

光伏学院的目标是为光伏行业的新人提供支持,同时也为毕业生和教育工作者提供扩展专业知识的机会。为实现这目标,学院将就特定光伏技术和应用的基本知识提供有趣的讲座。

SURVEY RESULTS

85%
RATED THE
VARIETY AND
QUALITY OF THE
OVERALL
PROGRAMME
BETWEEN 7-10

95 %
RATED THEIR
SATISFACTION
WITH THE EU
PVSEC BETWEEN
7-10

GENERAL
CONFERENCE
PROGRAMME IS THE
#1 REASON FOR
ATTENDANCE **58%**,
FOLLOWED BY
PRESENTING THE
WORK TO OTHER
PEERS
55%

78%
ARE LIKELY OR
VERY LIKELY
ATTENDING THE
EU PVSEC 2024

80%
WILL MAKE USE
OF THE
STREAMING ON
DEMAND SERVICE

OVER **64%** RATE
THE
SUSTAINABILITY
ACTIONS WITH 7
OR HIGHER

TESTIMONIALS

"I heard of EU PVSEC through my Professor, João M. Serra, who acted as General Chair of this year's conference. From there, I felt eager to attend the conference as a volunteer, since my studies fall into the conference's topic and, otherwise, I wouldn't have been able to participate. Throughout the week, I got to know the EU PVSEC 2023 staff at each station, as well as attend some lectures during off-hours. I won't be able to attend next year's event, but I surely will attend future ones."

Pedro Graça,
University of Lisbon

"9/10. This year (2023) is much better than the last EU PVSEC that I attended in 2019."

Chandany Sen
UNSW Sydney

"I thought it was really interesting to see how both EU policy and industry are working towards regional production. It was good to see the big picture of the present and future of PV in addition to hearing about all the detailed results from research."

Anonymous

"Diverse topics and challenges in many fields."

Elisabetta Achilli,
RSE



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TESTIMONIALS

"It was a great event."
halm elektronik gmbh

"Exhibition has improved since past editions. Could grow further, to show more variety within the different sectors. However, it is not Intersolar, so scientific focus/quality would be interesting / a chance for exhibitors to get expert opinions on their products"
Anonymous

"Organisation was nice, very kind staff."
EDF ENR PWT
(PHOTOWATT)

"Exhibition was great, and probably my best highlight of the conference."
Anonymous

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our
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Gold



Silver



Bronze



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We thank our Supporters

Institutional Support



Coordination of the Technical Programme



Institutional PV Industry Cooperation



Supporting Organisations



Supporting Associations



Supporting Educational Institutions



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We thank
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EVENT IMPRESSIONS



For more
impressions
of the
EU PVSEC 2023
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CONTACT

Questions?
Get in touch!

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