



EU PVSEC

22 — 26
September

BEC —
Bilbao Exhibition Centre

Bilbao —
Spain

EU **PVSEC** **2025**

42nd European
Photovoltaic Solar Energy
Conference and Exhibition

**Post
Event
Report**

INTRODUCTION

The EU PVSEC is the leading global forum for PV research and development.

Largest conference on PV solar energy with over 40 years of history.

Annual meeting for experts in research, development, and industry.

Features 1000+ scientific presentations, workshops, and industry forums.

Key platform for exchange between PV science and industry

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





EUPVSEC

KEY FIGURES

OVERVIEW

5
DAYS OF
CONFERENCE

3
DAYS OF
EXHIBITION

1600+
PARTICIPANTS
(Conference and
Exhibition)

FROM
61
COUNTRIES

51
EXHIBITORS

300+
SCIENTIFIC
COMMITTEE
MEMBERS

7
SPONSORS

6
STUDENT
AWARD
WINNERS

16
POSTER
AWARD
WINNERS

BECQUEREL
PRIZE
WINNER:
**WALBURGA
HEMETSBERGER**



FACTS & FIGURES | Presentations

EU PVSEC Programme – Distribution of Presentations per Type

CONFERENCE
PLENARIES &
ORALS

349

CONFERENCE
VISUALS

562

OPENING &
CLOSING

6

1000+
PRESENTATIONS

4
PANEL
DISCUSSIONS
WITH
29
PANELISTS

PARALLEL
EVENTS

110

INDUSTRY
SUMMIT

44



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CONFERENCE





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FACTS & FIGURES | Participants

Participants by Countries Top 10

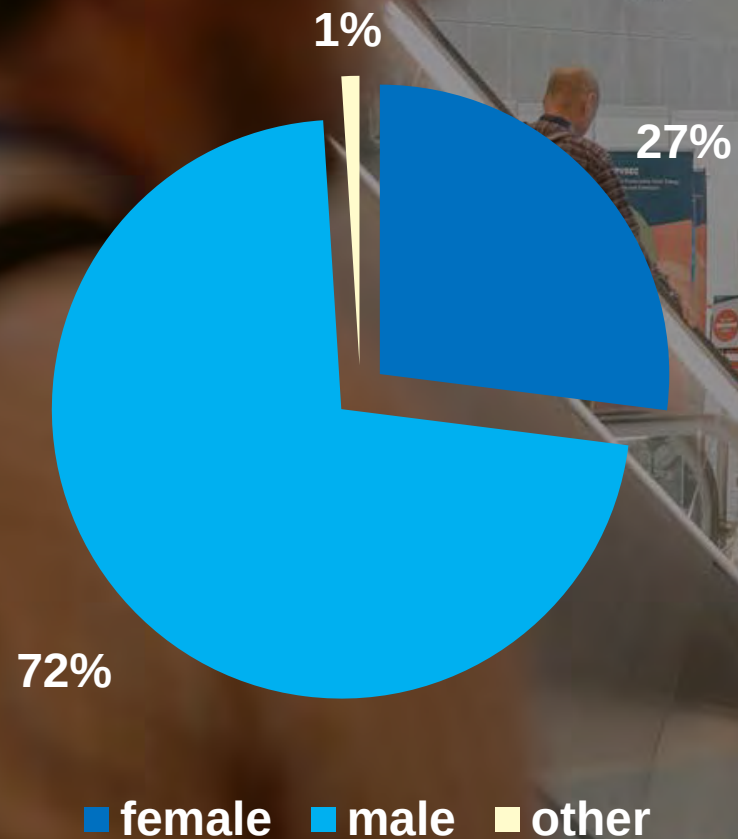
No	Country	Participants
1	Germany	310
2	Spain	270
3	France	108
4	Italy	90
5	The Netherlands	76
6	South Korea	67
7	Switzerland	62
8	Japan	55
9	Belgium	44
10	Norway	35



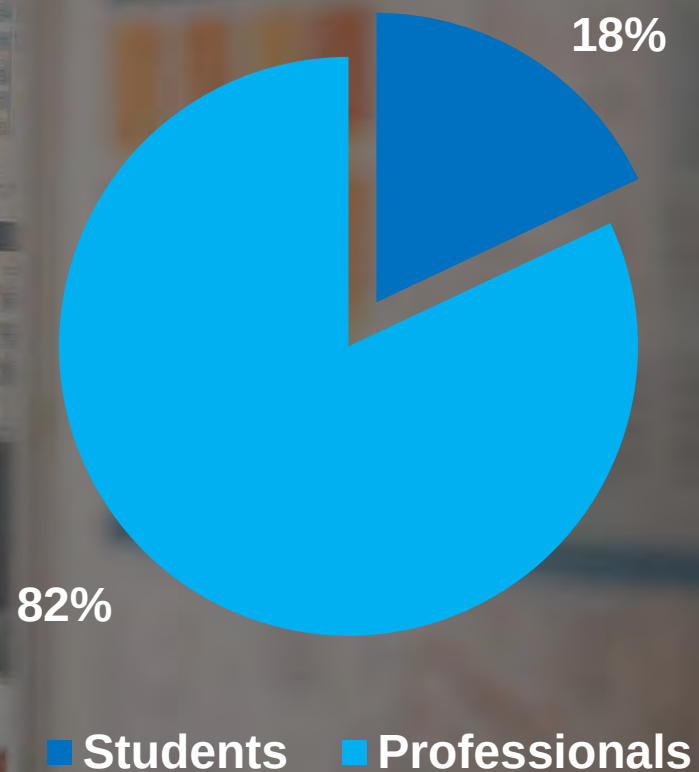
TOTAL
PARTICIPANTS
1600+
FROM **61**
COUNTRIES

KEY FIGURES

GENDER DISTRIBUTION



STUDENT SHARE



KEY FIGURES

5
MAIN
CONFERENCE
TOPICS

Topic 1 **Silicon Materials and Cells**

Topic 2 **Thin-Films and New Concepts**

Topic 3 **Photovoltaic Modules**

Topic 4 **Photovoltaic Systems**

Topic 5 **Photovoltaics in the Energy Transition**



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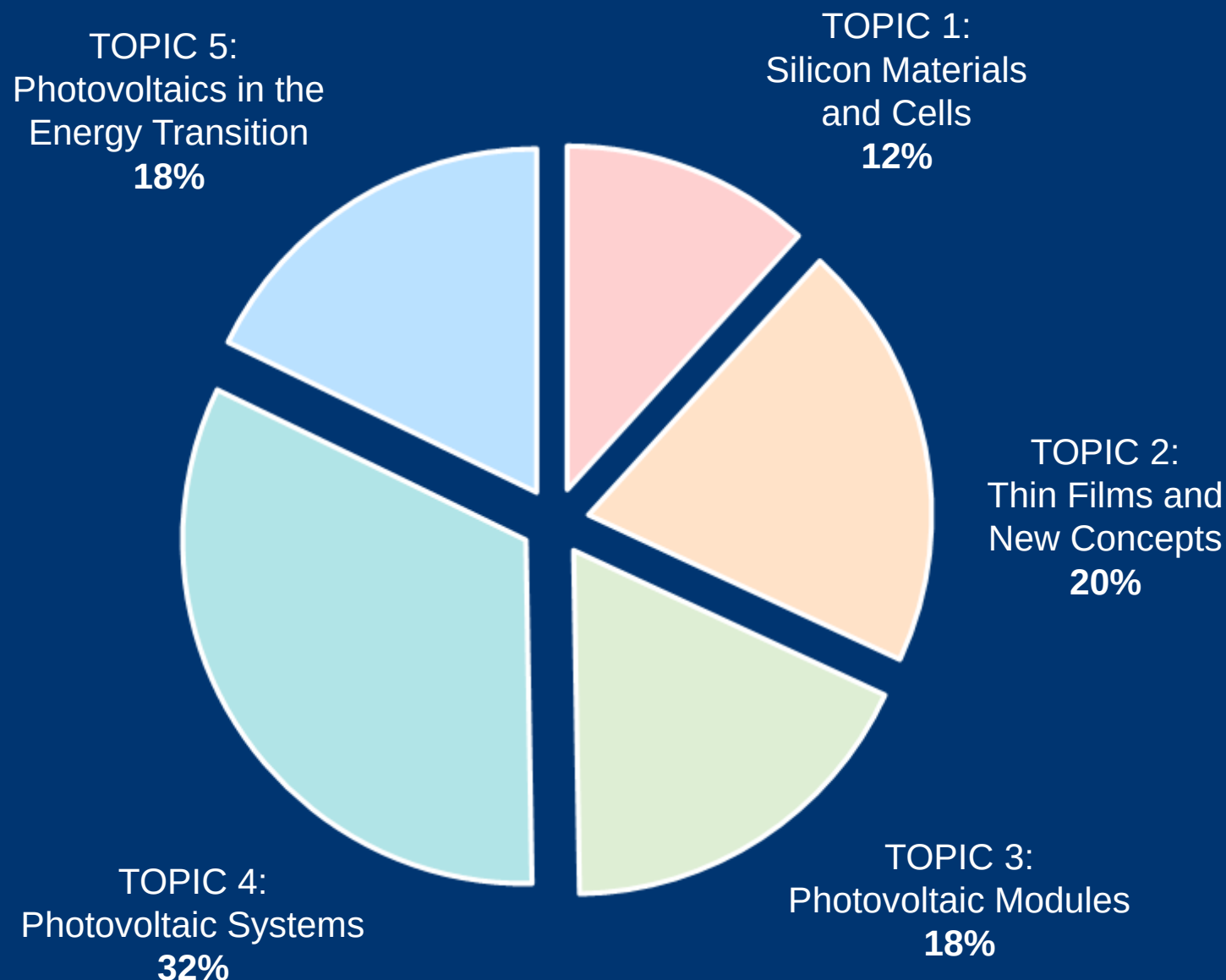
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FACTS & FIGURES | Presentations

EU PVSEC Scientific Conference Programme - Distribution of Presentations per Topic



FACTS & FIGURES | Presentations

CONFERENCE
PLENARIES &
ORALS
349

CONFERENCE
VISUALS
562

4
PANEL
DISCUSSIONS
WITH
29
PANELISTS

	Monday, 22 Sept.	Tuesday, 23 Sept.	Wednesday, 24 Sept.	Thursday, 25 Sept.	Friday, 26 Sept.	
08:30	↓ Auditorium 2	↓ Audit. 2 ↓ Audit. 1 ↓ Audit. Room 1A ↓ Audit. Room 1B ↓ Poster Area	↓ Auditorium 2	↓ Audit. Room 1A ↓ Audit. 2 ↓ Audit. Room 1B ↓ Audit. 1 ↓ Poster Area	↓ Audit. Room 1B ↓ Audit. 2 ↓ Audit. Room 1A	08:30
	Scientific Opening AP.1 08:30 - 09:30	1-2BO.1 T1.3/2.1 4BO.6 T4.3 3BO.11 T3.3 4BO.16 T4.4 2BV.1 T2.4/2.5	CP.1	4DO.1 T4.2 2DO.6 T2.2 5DO.11 T5.3/5.5 3DO.16 T3.2 4DV.1 T4.5/8/7	5EO.1 T5.6 4EO.2 T4.6 5EO.3 T5.4	
09:30	O P E N I N G					
Break	Becquerel Prize Ceremony					10:00
10:30	Opening Addresses	1BO.2 T1.4 4BO.7 T4.3 3BO.12 T3.3 4BO.17 T4.4 2BV.2 T2.3	↓ Auditorium 2	4DO.2 T4.5 2DO.7 T2.2 3DO.12 T3.1 4DO.17 T4.3 5DV.2 T5.2/5.6	EP.1	Break 10:30
12:00	Moderated Panel Discussion		CP.2 CP.3			
Lunch		Lunch	12:10	Lunch		12:10
13:30	↓ Audit. Room 1A ↓ Audit. 2 ↓ Audit. 1 ↓ Poster Area	↓ Audit. 1 ↓ Audit. Room 1A ↓ Audit. 2 ↓ Poster Area	↓ Audit. 1 ↓ Audit. Room 1B ↓ Audit. 2 ↓ Poster Area	↓ Audit. Room 1B ↓ Audit. 1 ↓ Audit. 2 ↓ Audit. Room 1A ↓ Poster Area		
	2AO.1 T2.3 1AO.4 T1.1/1.4 4AO.7 T4.1 3AV.1 T3.1	1BO.3 T1.5 2BO.8 T2.4 BO.13 Panel Discussion 4BV.3 T4.1	2CO.1 T2.1 5CO.4 T5.2 CO.7 Panel Discussion 4CV.1 T4.3	4DO.3 T4.2 2DO.8 T2.2 DO.13 Panel Discussion 5DO.18 T5.2 5DV.3 T5.1/3/4/5		
15:00						
Break						
15:15	2AO.2 T2.3 1AO.5 T1.2 4AO.8 T4.1 3AV.2 T3.2	1BO.4 T1.5 2BO.9 T2.4 3BO.14 T3.3 4BV.4 T4.4	2CO.2 T2.1 5CO.5 T5.2 4CO.8 T4.3 3CO.10 T3.1 1CV.2 T1.2/3/4	4DO.4 T4.5/4.6 1-2DO.9 News 5DO.14 T5.1 3DO.19 T3.2 4DV.4 T4.2		
16:45						
Break						
17:00	2AO.3 T2.3/2.5 1AO.6 T1.2 4AO.9 T4.1/4.2 3AV.3 T3.3	4BO.5 T4.4 2BO.10 T2.5 3BO.15 T3.3 1BV.5 T1.1/1.5	4CO.3 T4.6 5CO.6 T5.2 4CO.9 T4.3 3CO.11 T3.1 2CV.3 T2.1/2.2	4DO.5 T4.5 4DO.10 T4.3/4.7 5DO.15 T5.1 3DO.20 T3.2 Poster Awards Winners Session		
18:30	Welcome Reception		EU PVSEC Dinner			



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HIGHLIGHTS AND TAKE-AWAYS

The scientific programme reflected the full scope of innovation across the PV value chain, from materials research to system integration.

Rapid advancements in materials, designs, and manufacturing processes reflect the accelerating expansion of the global PV market.

- Cross-cutting themes demonstrated the versatility of solar technologies, spanning traditional and emerging application areas:
 - Sustainability and circularity remain central, with research focused on reducing material use, such as replacing silver with copper, and advancing end-of-life management of modules.
 - Ensuring long-term stability and predictable energy yield is equally essential, with studies of degradation mechanisms such as UVID carried out.
 - The role of AI across the PV value chain is rapidly expanding, from design to operations and maintenance, including drone applications.



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HIGHLIGHTS AND TAKE-AWAYS

- Perovskite solar cells continue to stand out as the leading complementary technology to silicon (both alone and in tandems), with research targeting enhanced stability, degradation mechanisms, durability, scalability, and full industrial compatibility.
- Many companies presented impressive results on industrial-size single-junction perovskite modules and perovskite-based tandem modules.
- Efficiency records were presented during the event.
- Rapid innovation in cell and module architecture requires accelerated and more robust testing and qualification methodologies.
- The industry and research community are moving quickly to assess and improve reliability in the rapidly developing PV sector.
- A big theme in module research is optimising module materials and packaging for a long lifetime and a predictable energy yield from high-efficiency cells.
- Options for re-establishing competitive module manufacturing in Europe were extensively analysed, including policy recommendations for industrial support and market growth.



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HIGHLIGHTS AND TAKE-AWAYS

- Many innovative advances in O&M of PV systems were presented and discussed.
- “PV can be deployed everywhere”: from space to agrivoltaics, PV noise barriers, BIPV, floating PV or vehicles.
- Agrivoltaics is gaining momentum as a promising approach to dual land use, offering economic benefits for farmers and also greater resilience to climate change.
- Flexibility solutions, particularly through battery storage, were recognized in many technical presentations as essential to accommodate higher PV penetration levels and reduce energy curtailment.
- Strengthening grid infrastructure and enhancing grid management capabilities remain critical to enable the next phase of PV integration.
- There is currently a mismatch between PV module installation rates worldwide and PV module production rates, leading to increasing inventories and drastically reduced prices.
- Inclusiveness, diversity, citizens participation, awareness, education and social engagement were underlined as vital dimensions of the sector’s long-term sustainability and innovation capacity.



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PRIZES & AWARDS

European
Becquerel Prize
for Outstanding Merits
in Photovoltaics

Winner 2025:
Walburga Hemetsberger
CEO SolarPower Europe



PRIZES & AWARDS

Student Awards - Winners 2025:

Student Awards



PRIZES & AWARDS

Poster Awards - Winners 2025:





EU PVSEC

EXHIBITION



EXHIBITION



Australia, Austria, Bangladesh, Belgium, Canada, China, Czech Republic, Estonia, Egypt, Finland, France, Germany, Greece, Hong Kong, Hungary, India, Italy, Japan, Kuwait, Lithuania, Nigeria, Norway, Oman, Pakistan, Poland, Romania, Senegal, South Korea, Spain, Switzerland, The Netherlands, Türkiye, United States of America, Uzbekistan

EXHIBITION

**51 EXHIBITORS
AND SPONSORS**

4 PAVILIONS









































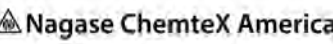

















EXHIBITION

Exhibitors from the following areas of the value chain



Associations

PV mounting systems and PV components



Consultancy

Energy storage solutions



Research centres and universities

Chemical and material solutions



Industrial equipment for solar manufacturing

Simulation and testing tools



Ingot, wafer, cells and modules production

Labs and testing labs





EUPVSEC

PARALLEL EVENTS INDUSTRY SUMMIT

Collaboration
Network

Work

Resource

Justice

Change

Needs
-
Match

Jobs

Jobs?

Investment

Lack of
attract

Resilience
(People + Community)

Creativity

Different
Communication

Internal
Friction

More
Energy

PARALLEL EVENTS & INDUSTRY SUMMIT

110
PARALLEL
EVENT
PRES.

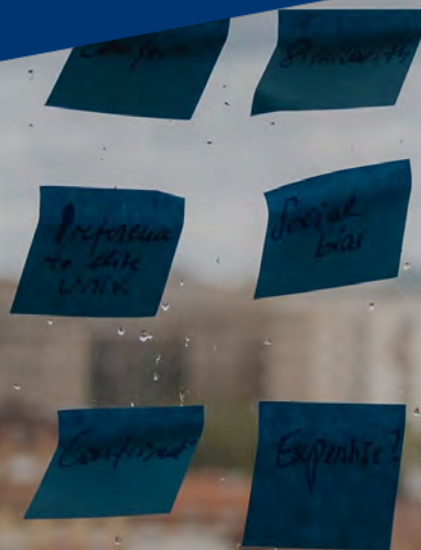
44
**INDUSTRY
SUMMIT
PRES.**

[illegible]



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SATELLITE EVENTS



Free Webinar:

“Unlocking Synergies between Photovoltaics and Storage for a Resilient Energy System”

25 June 2025 | 15:30 – 16:45 CEST



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European Association
for Storage of Energy

Webinar in collaboration with the Energy Storage Europe Association



Jon de Gregorio

WIP Renewable Energies,
Conference Director at
EU PVSEC



Jacopo Tosoni

Head of Policy at EASE



Dr Grazia Barchi

Team Leader in Grid
Integration at Eurac
Research



Dr Robert Kenny

European Commission Joint
Research Centre,
EU PVSEC Technical
Programme Chair



**Silvestros
Vlachopoulos**

Energy Storage Research
Manager at LCP Delta



Ed McCullough

New Market Entry Lead
EMEA at Tesla

Some of the most recognized and experienced scientists in the field gave four top level lectures on:

From Fundamentals to New Materials for PV Cells



Prof. Ned Ekins-Daukes (UNSW)
Dr Shona McNab (UNSW)



Degradation and Reliability of PV Modules



Dr David Moser (Becquerel Institute)
Dr Teresa Barnes (NREL)



Impact of Photovoltaics on Climate Change Mitigation



Prof. Jan Christoph Goldschmidt
(Marburg University)



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SATELLITE EVENTS

EU Projects Proposal Writing: From Vision to Success



EU FUNDING ACADEMY

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KNOWLEDGE AND TOOLS NEEDED TO NAVIGATE
THE COMPLEXITIES OF EU-FUNDED PROJECTS.

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provide practical, actionable guidance on all aspects of EU projects.

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GOOD TO KNOW



SUSTAINABILITY

At the EU PVSEC 2025, we continued our strong commitment to environmental and social sustainability. Our efforts focused on reducing the event's carbon footprint through various initiatives, ensuring a carbon-neutral event. Key sustainability actions included:

Carbon Footprint Reduction:

- Promoted sustainable travel options for participants
- Reduced printed materials in favour of digital alternatives
- Used recyclable packaging and materials to minimise waste

Green Ticket Initiative:

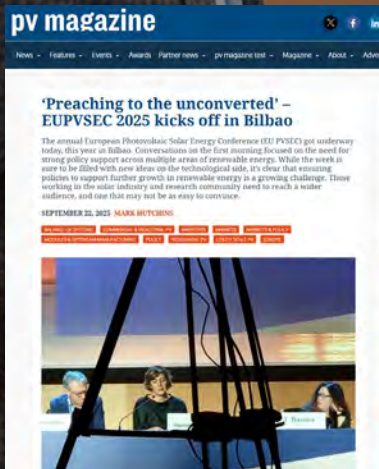
- Participants could contribute to carbon compensation projects through the Green Ticket
- Partnered with *myclimate* to offset remaining emissions



Sustainable Catering:

- Sourced regional ingredients to reduce transportation emissions and support the local economy







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IMPRESSIONS

EUPVSEC
EUPVSEC

BILBAO
EXHIBITION
CENTRE

IMPRESSIONS



IMPRESSIONS



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WE THANK THE PV COMMUNITY AND...



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INTERNATIONAL SCIENTIFIC
ADVISORY COMMITTEE

EXCO
EXECUTIVE COMMITTEE

SCICO
SCIENTIFIC
COMMITTEE



SPONSORS

Platinum



Gold



Silver



Bronze



SUPPORTERS

Institutional Support



Coordination of the Technical Programme



Institutional PV Industry Cooperation



Supporting Organisations



Photovoltaic Equipment

MEDIA PARTNERS



PARTICIPANT FEEDBACK



*The **best conference on solar research**, materials, industry trends and for paving the future direction.*

– Vignesh Murali, Smit Thermal Solutions, the Netherlands



*Great scientific event where you not only meet Europeans and **the industry is represented**, too.*

– Gerry Knoch, exateq, Germany



*This is an extraordinary event that successfully **integrates academic, industrial, commercial and social dimensions**. It plays a key role in shaping the future of PV in Europe.*

– Sandra Riaño, Tecnalia, Spain



*The event was highly insightful and well organized, providing an **excellent platform for knowledge exchange** and collaboration in the renewable energy sector.*

– Richa Parmar, National Institute of Solar Energy, India



EU PVSEC

GET IN TOUCH

**THANK YOU FOR JOINING US
AT THE EU PVSEC 2025!**

Follow us on social media for news, tips and updates:



www.eupvsec.org



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**SEE YOU NEXT YEAR
IN ROTTERDAM!**