



EuroSun 2022 Summary

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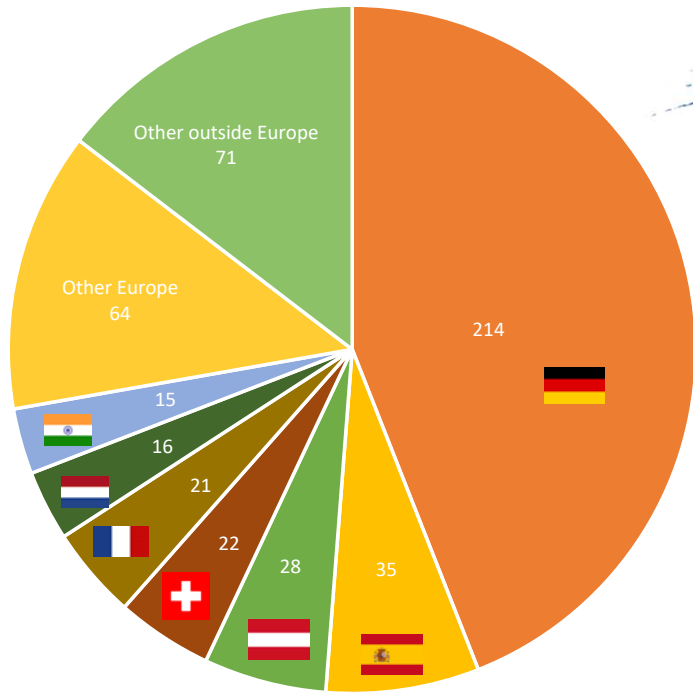
on the basis of a decision
by the German Bundestag



U N I K A S S E L
V E R S I T Ä T

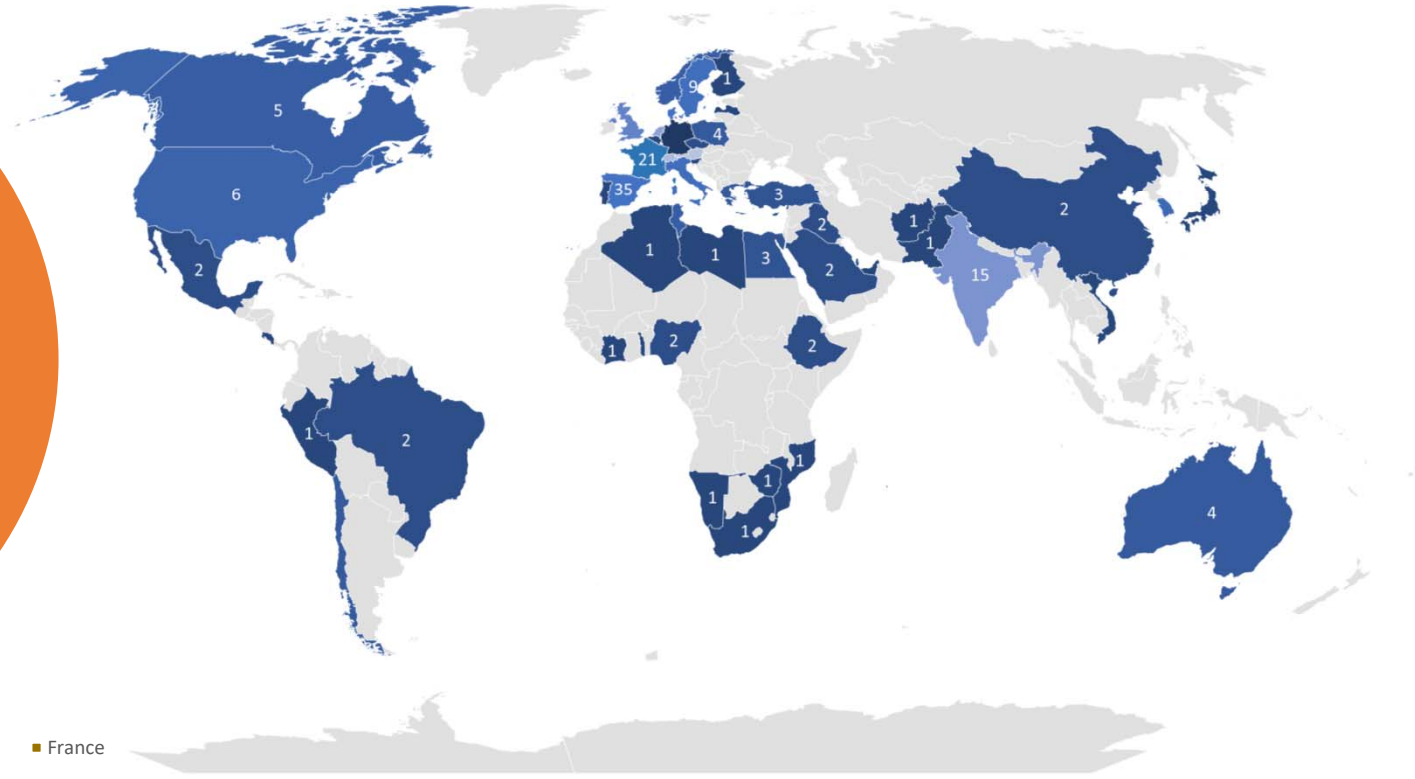
VIESSMANN

486 Participants from 54 countries



- Germany
- Spain
- Austria
- Switzerland
- France
- Netherlands
- India
- Other Europe
- Other non-Europe

Incl. 42 participants from low-income countries





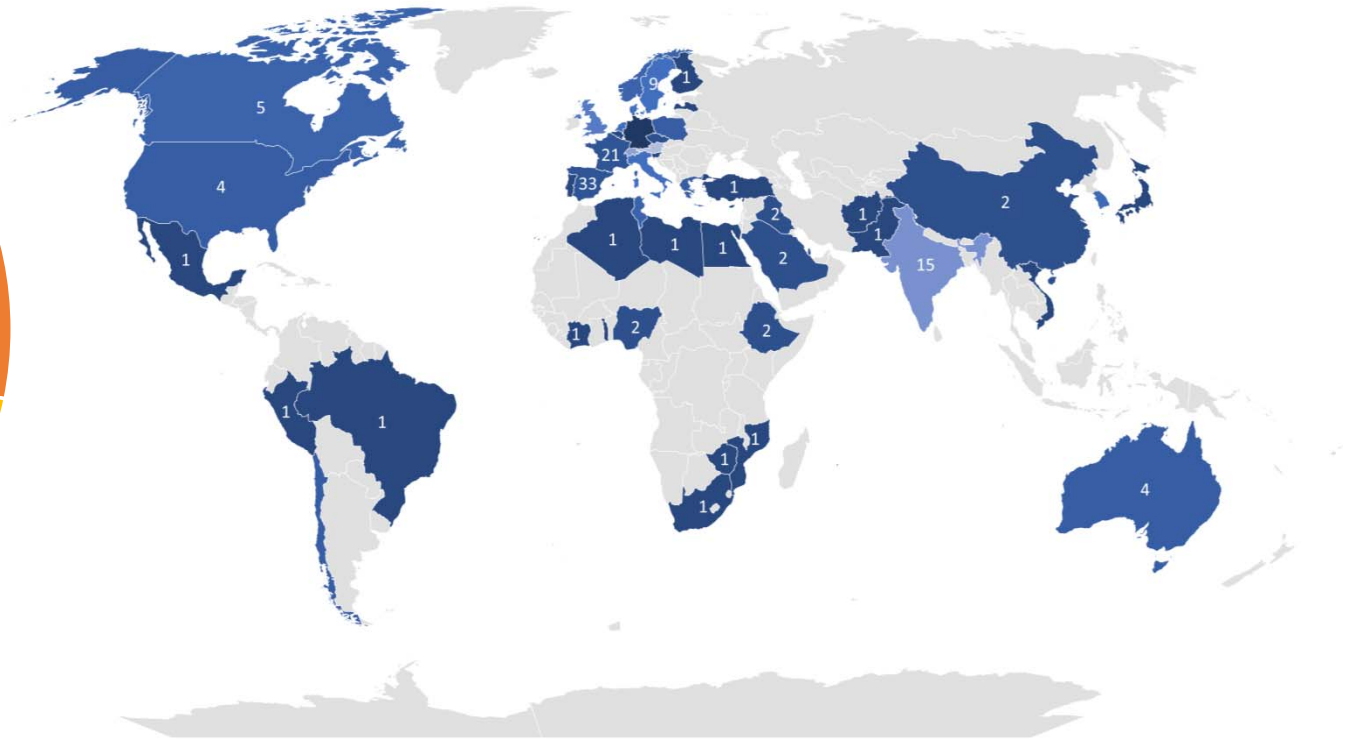
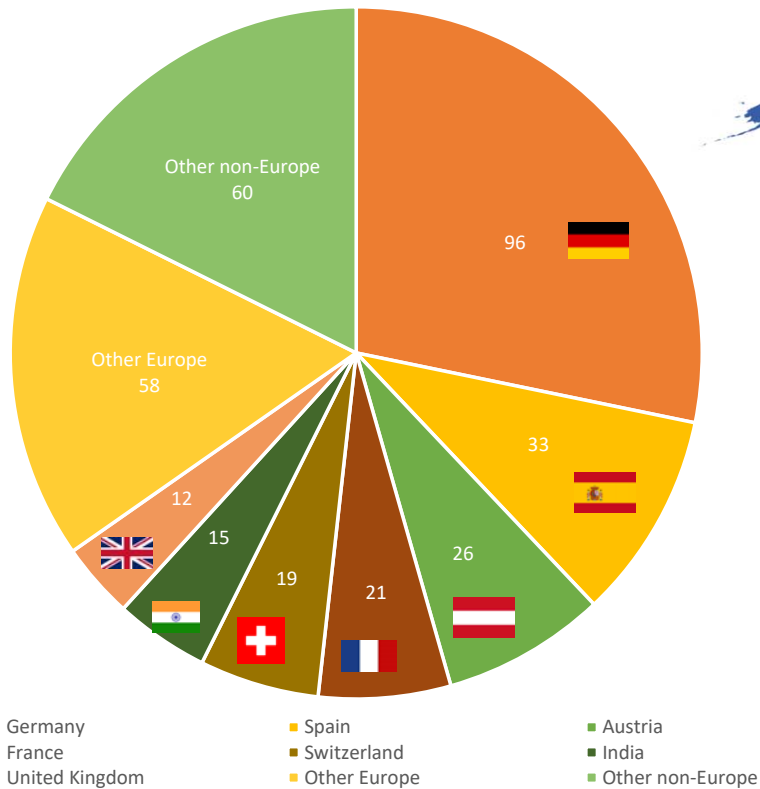
➤ Participants

- 486 registrations (340 paid)
 - University/Faculty
 - 54 Professors, Assistant Professors, Teachers, 75 PhD Students, 1 Academic Employee
 - 126 Postdocs and Researchers
 - 44 Company/Department Heads
 - 18 Engineers
 - 3 Early Career Researchers/Employees
 - Other
 - 146 free
 - Sponsors: 25
 - Invited speakers: 17
 - Free Students: 57
 - Masters Course Students: 18
 - Organizers and Helpers: 21
 - Other Guests: 8

➤ Participant Fees

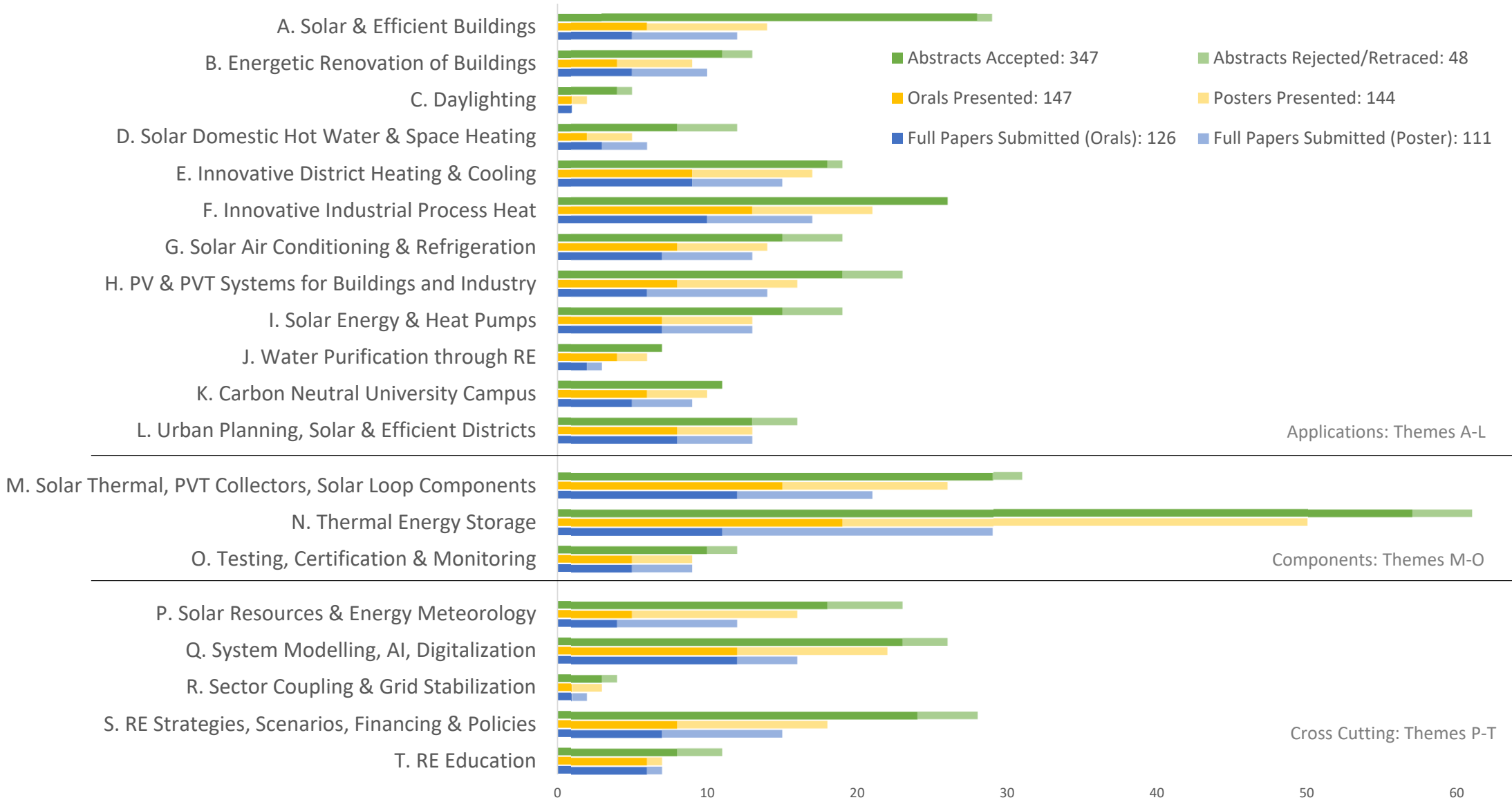
- Regular fee €600 / at the door €720
- 10% discounts for:
 - Early-Bird: 277
 - Presenting Authors: 241
 - ISES Members: 146
 - IEA SHC Task Experts: 76
 - Out-of-Europe: 73
 - Low Income Countries: 37
 - ISES Student Member: 29
 - Theme Chairs and Keynote Speakers: 28
- **43% paid attendees ISES members**
- **Average per person return on fee: €439 (73%)**

340 Paid Participants from 51 countries



Incl. 37 participants from low-income countries

Abstracts, Oral/Poster Presentations and Full Papers per Theme





Sun - 25 Sep.	Time	Monday - 26 September				Tuesday - 27 September				Wednesday - 28 September				Thur - 29 Sept	time
Track 1 - Hörsaal 4	(CEST)	Track 1 - Hörsaal 4	Track 2 - Hörsaal 5	Track 3 - Seminarraum 6	Track 4 - Seminarraum 2	Track 1 - Hörsaal 4	Track 2 - Hörsaal 5	Track 3 - Seminarraum 6	Track 4 - Seminarraum 2	Track 1 - Hörsaal 4	Track 2 - Hörsaal 5	Track 3 - Seminarraum 6	Track 4 - Seminarraum 2	Track 1	(CEST)
	830	Registration Open				Plenary 2 - Aline Kirsten Vidal de Oliveira + Klaus Vajen - Hörsaal 1				Plenary 4 - Lea Ranalder - Hörsaal 1					830
	845					Plenary 3 - Jan Rosenow - Hörsaal 1				Plenary 5 - Werner Weiss - Hörsaal 1					845
	900	Opening Ceremony - Hörsaal 1				Coffee (30 min)				IEA-SHC Award - Hörsaal 1					900
	915									Break (15 min)					915
	930	Plenary 1 - Brigitte Keyopf - Hörsaal 1				Key 4 - Pauschinger				Key 6 - Bokhoven					930
	945					E-2 Innovative District Heating and Cooling				N-4 Thermal Energy Storage					945
	1000	Press Q/A				Break (30min)				N-4 Renewable Energy Education					1000
	1015					Key 1 - De Keizer				T-1 Solar Air Conditioning and Refrigeration					1015
	1030					N-1 Thermal Energy Storage				G-2 PV and PVT Systems for Buildings and Industry					1030
	1045					E-1 Innovative District Heating and Cooling				Solar Air Conditioning and Refrigeration					1045
	1100	Break (30min)				P-1 Solar Resources and Energy Meteorology				H-2					1100
	1115					Key 5 - Hafner				Break (15 min)					1115
	1130					Q-2 System Modelling, Artificial Intelligence				F-2 Testing, Certification and Monitoring					1130
	1145					L-1 Urban Planning, Solar and Efficient Districts				O-1					1145
	1200	PV and PVT Systems				Q-2 System Modelling, Artificial Intelligence				Key 9 - Haller					1200
	1215					Lunch				J-1 Water Purification through Renewable Energy					1215
	1230									M-3 Solar Thermal and PVT Collectors and Solar Loop Components					1230
	1245									A-2 Solar and Efficient Buildings					1245
	1300	Lunch								Lunch					1300
	1315														1315
	1330														1330
	1345	Poster (Applications) - Foyer				Industry Session				Viessmann Student Event: Kick-Off					1345
	1400					Poster (Components + Cross-Cutting) - Foyer				Viessmann Student Event: Case Study Working Time					1400
	1415									Poster (All) - Foyer					1415
	1430									ISES AGM					1430
	1445									Viessmann Student Event: Working Time					1445
	1500	Break (15 min)				Break (15 min)				Break (15 min)					1500
	1515	Key 2 - Collier				Key 6 - Voss				Key 10 - Häberle					1515
	1530	I-1				N-3				Q-3					1530
	1545	S-1 RE Strategies, Scenarios, Financing & Policies				A-1 Solar and Efficient Buildings				F-3 Innovative Industrial Process Heat					1545
	1600	Solar Energy and Heat Pumps				Thermal Energy Storage				System Modelling, Artificial Intelligence, Digitalization					1600
	1615	Energetic Renovation of Buildings				Solar Thermal and PVT Collectors and Solar Loop Components				Workshop: Scientists for Future					1615
	1630	Workshop: Security of Supply and Energy Transition				Carbon Neutral University Campus				Break (15 min)					1630
	1645	Break (15 min)				Break (15 min)				Break (15 min)					1645
	1700	Key 3 - Dias				Key 7 - Jakob				Closing Ceremony - Hörsaal 1					1700
	1715	Q-1				L-2									1715
	1730	F-1				O-2									1730
	1745	Workshop with Elsevier: How to get published in a Scientific Journal				G-1 Solar Air Conditioning									1745
	1800	RE Strategies, Scenarios, Financing & Policies				Urban Planning, Solar and Efficient Districts									1800
	1815					Testing, Certification and Monitoring									1815
	1830	Happy Hour				Dinner arrival				Happy Hour					1830
	1845														1845
	1900	Party arrival													1900
	1915														1915
	1930														1930
	1945														1945
	2000									Viessmann Student Event: Winner Announcement + Pizza & Drinks					2000
	2015														2015
	2030														2030
	2045														2045
	2100	Young ISES Party				Conference Dinner									2100
	2115														2115
	2130														2130
	2145														2145
	2200														2200
	2215														2215
	2230														2230
	2245														2245
	2300														2300

Plenary Sessions

- ✓ **Climate Policies and the Current Energy Crisis**
Dr. Brigitte Knopf, Mercator Research Institute on Global Commons and Climate Change (MCC)
- ✓ **InCoRE: International Cooperation in RE Education**
Prof. Dr. Klaus Vajen, University of Kassel & Aline Kirsten Vidal de Oliveira, ABENS
- ✓ **(Europe's) Energy Transition After the Ukrainian War + Paths to a 100% Renewable Energy Future**
Dr. Jan Rosenow, Regulatory Assistance Project (RAP)
- ✓ **Future of Existing Buildings and Neighborhoods, Cities**
Lea Ranalder, UN Habitat
- ✓ **The Role of Solar Heating in a Future Renewable Energy System**
Werner Weiss, AEE Intec

Keynotes

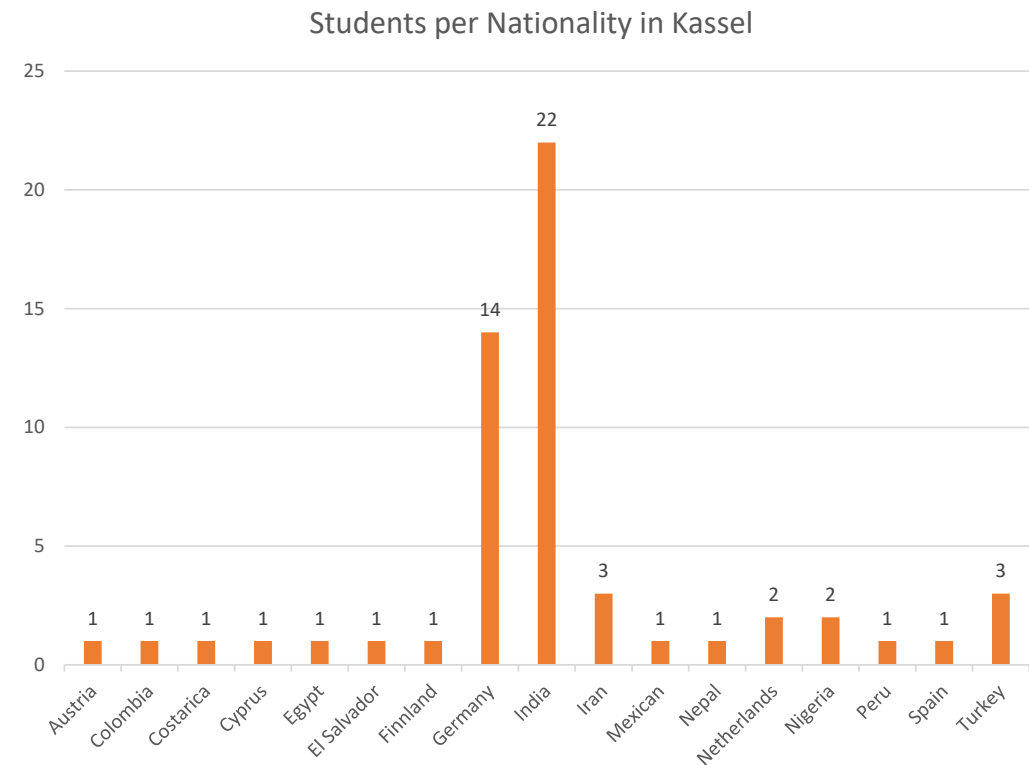
- ✓ Heat and Electricity from the Sun, Challenges and Opportunities for PV-Thermal Systems -
Dr. Corry de Keizer, TNO
- ✓ Solar and the Energy Transition: Challenges and Opportunities
Dr. Ute Collier, IRENA
- ✓ Perspectives for Solar Thermal in Europe: From Policy to Market
Pedro Dias, Solar Heat Europe
- ✓ Challenges and Opportunities for Solar Thermal in a Rapidly Transforming District Heating and Cooling Sector
Thomas Pauschinger, AGFW
- ✓ Digitizing Energy: How Digitalization is Impacting the Energy Domain and is Offering New Opportunities
Dr. Moritz Lauster, Viessmann
- ✓ Solar Decathlon Europe 22 - Experiences and Perspectives of a Student Building Competition
Prof. Karsten Voss, Wuppertal University
- ✓ The Future of Solar Cooling
Prof. Dr. Uli Jakob, JER
- ✓ Energy Storage to Boost Solar Energy Deployment
Teun Bokhoven, TKI Urban Energy
- ✓ Solar and Heat Pump Systems: From Thermal Integration to PV (Over)Consumption
Dr. Michel Haller, SPF
- ✓ Solar Process Heat – Review and Outlook -
Prof. Dr. Andreas Häberle, SPF

Workshops

- ✓ **Security of Supply as a Booster for the Energy Transition?**
Organizer: Ron-Hendrik Hechelmann, University of Kassel (Institute for Sustainable Products and Processes)
- ✓ **Elsevier Publishing Workshop**
Organizer: Elsevier + ISES
- ✓ **Renewable Energy – Insights from Environmental and Behavioral Economics**
Organizer: Prof. Heike Wetzel, University of Kassel (Department of Applied Microeconomics and Empirical Energy Economics)
- ✓ **How Could the Deployment of Energy Storage Support the Integration of Solar Energy?**
Organizer: Teun Bokhoven, IEA SHC EC TCP & Dr. Andreas Hauer, IEA SHC ES TCP
- ✓ **Scientists for Future Workshop**
Organizer: Apl. Prof. Dr. Ulrike Jordan, University of Kassel (Department of Solar and Systems Engineering)

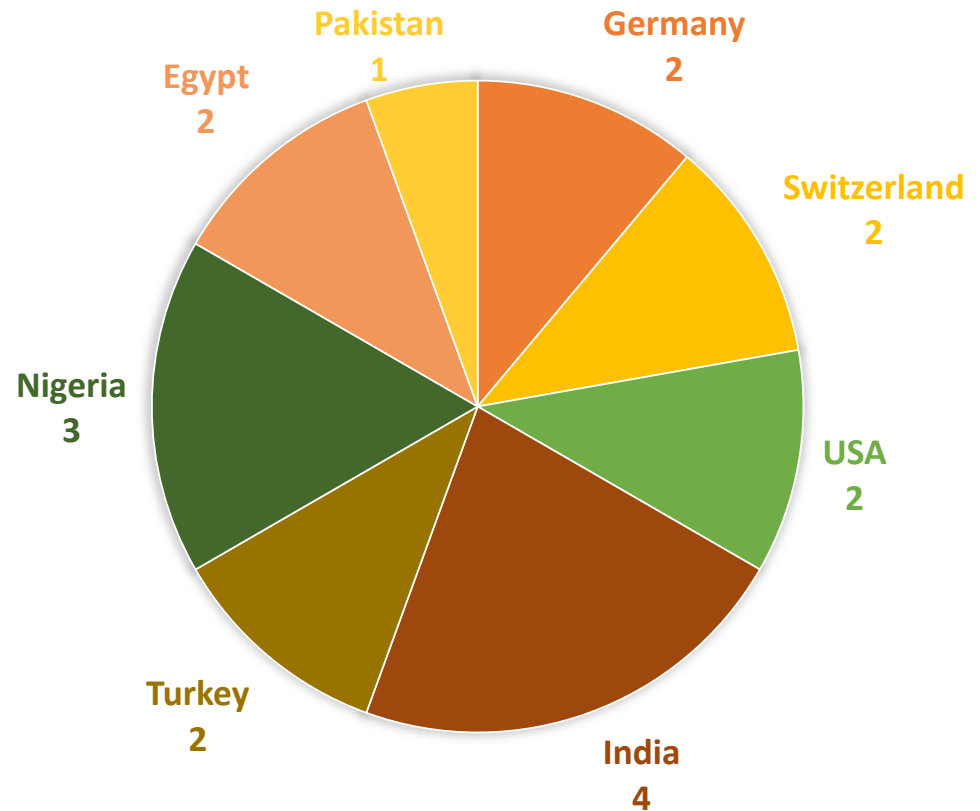
Free Student Registration

- ✓ 116 applications received in total
 - ✓ 91 matched the criteria for Free Student Registration
- ✓ 91 were invited
- ✓ 58 became ISES Student member
- ✓ 57 participants in Kassel
 - ✓ 17 nationalities
- ✓ Free Accommodation for 45 Students
 - ✓ 16 Students from Master's Course
 - ✓ 29 Students were hosted by local scientists



Master's Course in Solar Energy

- ✓ 127 applications received in total
 - ✓ 92 matched the criteria for participating in the course
- ✓ 18 participants in Kassel
 - ✓ 8 nationalities



Solar Speed Dating

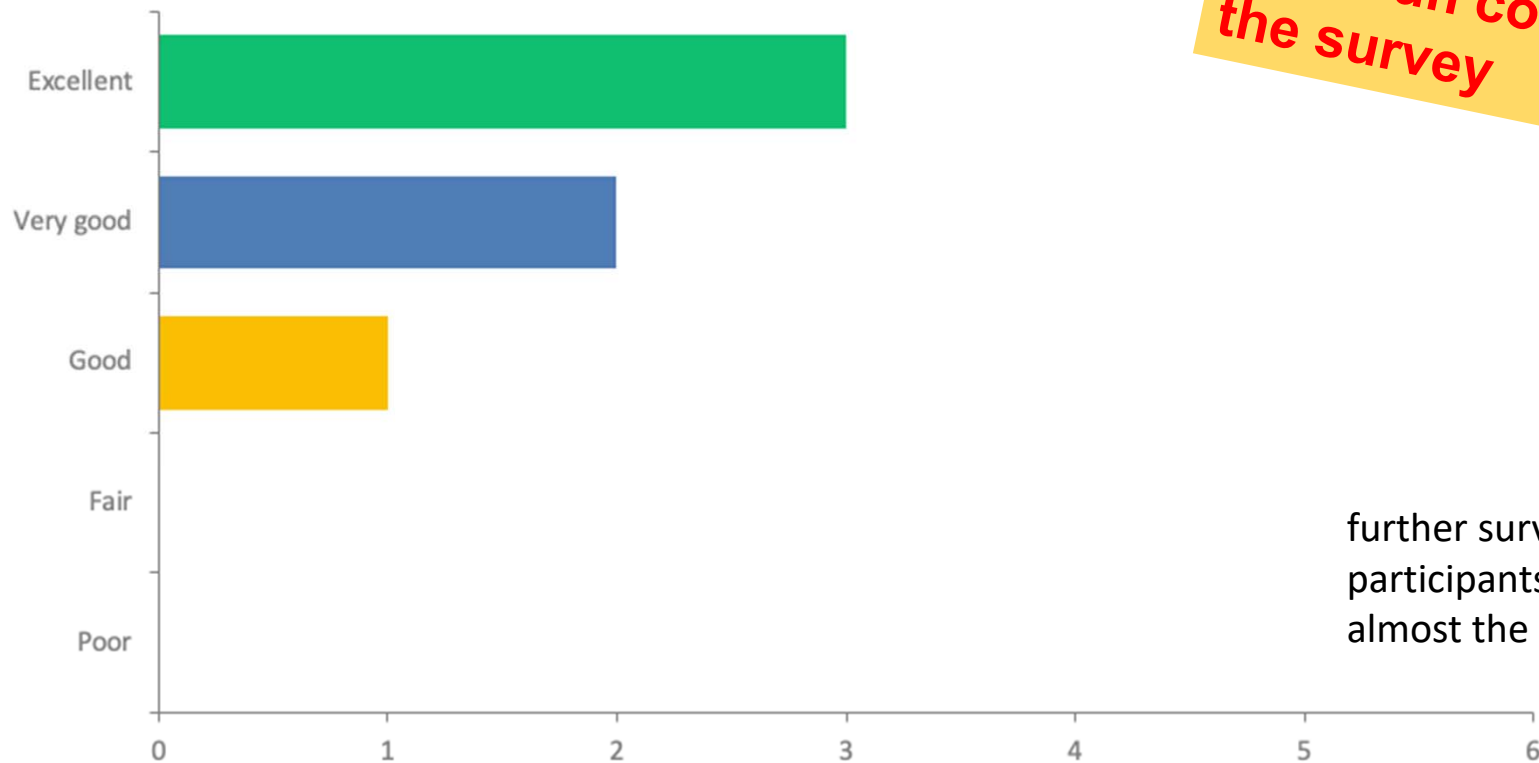
- ✓ 12 experts
- ✓ 60 students (48 pre-registered)
- ✓ 2 rounds of discussions
- ✓ Event rating by participants: 4,3 out of 5





Q1: Overall, how would you rate the conference?

Answered: 6 Skipped: 0



**6 out of 6
Task Managers @
EuroSun completed
the survey**

further survey of 104
participants came out with
almost the same results ...



Q2: What did you like about the conference?

VENUE	PARTICIPANTS	PROGRAM	CONFERENCE DINNER
<p>Everything was located in the one building</p> <p>Rooms and social area close to each other</p>	<p>It was good that many students attended</p> <p>My personal highlight was to meet a lot of colleagues personally again after two years of no physical events due to Covid</p>	<p>High quality presentations</p> <p>Very concentrated content</p>	<p>The format of the conference dinner was perfect.</p> <p>Conference dinner in the market hall</p> <p>Good format for the conference dinner (less formal; more opportunities for exchange)</p>



Q3: What did you dislike about the conference?

The **internet** was a bit inconsistent

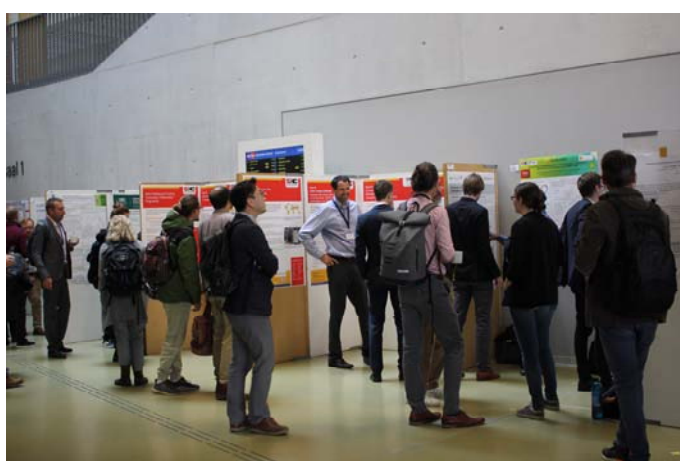
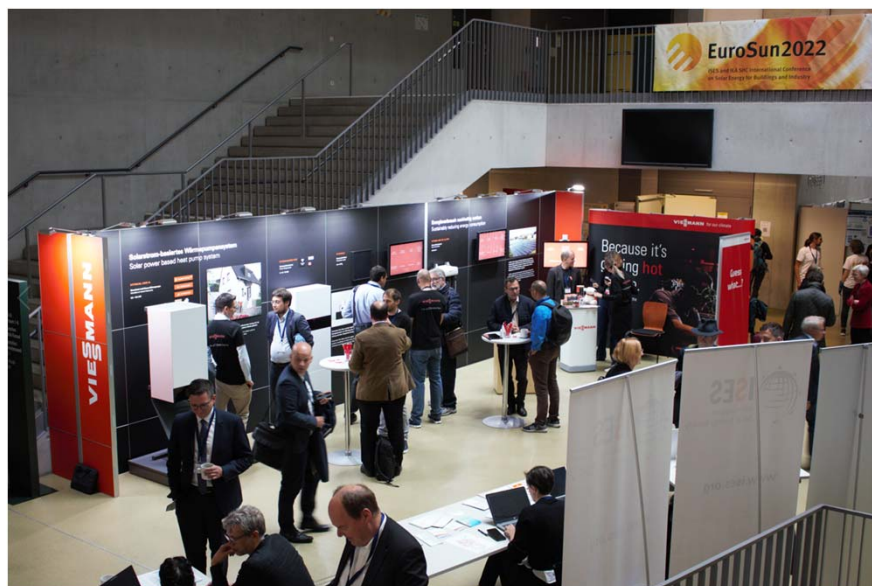
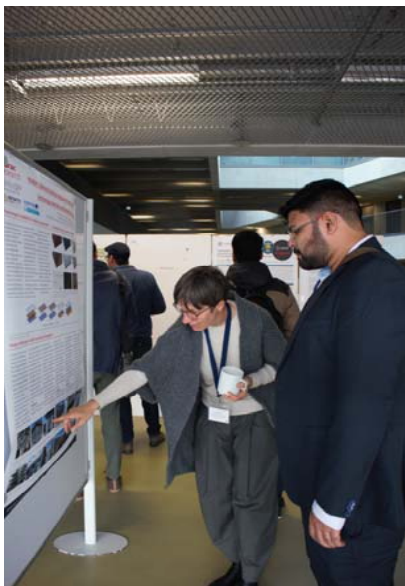
The **summaries by the theme chairs** at the end of the conference did not add much value

There was **no printout** of the **program overview** as well as of the **location of the rooms** available

Impressions from EuroSun 2022



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Conference Dinner & Technical Tours



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Survey Results EuroSun 2022

- 104 answers in total (21.4% of all participants)
 - 62 Paper Authors, 59 of them submitted their full paper
 - 35 Researchers
 - 18 PhD Students
 - 15 Students
 - 12 Educators/Professors
 - 10 working in Industry
- 68 participated for the first time, 25 have been to EuroSun or SWC before
- Country of Origin (67 answers)
 - Germany 18
 - India 8
 - Austria 6
 - Spain 5
 - Italy 3
 - Others 29
- Gender (80 answers)
 - Female 25
 - Male 55
- Age (58 answers)
 - Average 50 years

Information about the Conference was...

Answered	103
Skipped	1

