2nd International Integrated-PV Workshop

Bringing together experts on IPV research and applications

VIRTUAL Event March 27-28, 2023, free of charge

#2ndIPVworkshop

Integrated PV (IPV) - *The* way to overcome space constraints and competing land use

Many countries in the world have announced massive expansion plans of their PV capacity targets, sparking concerns whether there is sufficient space available and/or whether there are sacrifices to be made between PV deployment and land that is currently used for other purposes such as agriculture. One of the plenary talks at the 8th World Conference for PV Energy Conversion (WCPEC-8) in September 2022 in Milano showed that "Integrated PV" (IPV) solutions on buildings, water bodies (inland and marine waters) and agricultural land alone could provide sufficient space even for the extreme scenario of a future all-electric world that would require ~60 TWp of PV capacity. Therefore, IPV technologies have a huge upside potential, especially in countries where most of the prime land has already been used for PV installations (hence discussions about competing uses of land have started), and where land is scarce or expensive.

Based on the highly successful 1st IPV Workshop in 2022, the 2nd edition will focus on latest innovations that will help shaping this new but fast-growing segment within the solar PV industry. Technologies include Building-integrated PV (BIPV), Floating PV, Agrivoltaics, and Vehicle-integrated PV (VIPV). The healthy mix of speakers from industry and academia will allow to develop a holistic view of the various IPV technologies, covering today's state of the art, latest trends and further R&D needs. Aim of the workshop is to create a better understanding of the various IPV technologies, their potential, and their inter-disciplinary synergies, but also to raise awareness of "non-technical" matters which have already surfaced in some countries; those include, for example, legal issues, regulatory hurdles and environmental & social acceptance.

Integrated PV will be the "Next Big Thing" in solar!

Program | Monday, March 27, 2023

CST Beijing Time	CEST Central European Summer Time		
14:00	8:00	Thomas Reindl	Opening Introduction & the case for Integrated PV
Session 1		Thomas Reindl	Plenary Session
14:20	8:20	Christian Breyer LUT University	Future electricity scenarios and the need for Integrated PV
14:45	8:45	Wilfried van Sark Utrecht University	Overview and Latest Trends in Integrated PV
15:10	9:10	Coffee Break	
Session 2		Kaining Ding Akira Terakawa	VIPV
15:20	9:20	Bonna Newman Lightyear	Status, Challenges and Research Needs of VIPV
15:40	9:40	Neel Patel FZ Juelich	Impact of additional PV weight on the energy consumption of electric vehicles with onboard PV
15:55	9:55	Xiaoyan Gao Trina Way	VIPV, Exploring a New Application for Clean Energy
16:10	10:10	Keiichi Komoto Mizuho Research & Technologies, Ltd.	VIPV Status in Japan
16:25	10:25	Coffee Break	
Session 3		Matthieu Despeiss Zhiqiang Feng	BIPV
16:35	10:35	Pierluigi Bonomo supsi	Overview & Latest Trends in BIPV
16:55	10:55	Heng Xia Shenzhen University	Pixel House in the 2022 Solar Decathlon China
17:10	11:10	Hans-Peter Merklein Envelon	From BIPV solution to Inspiring BIPV Architecture
17:25	11:25	Rebecca Yang RMIT University	BIPV Digitalisation
17:40	11:40	David Wei Araymond Energy	The Contribution of AER to the Next TW Installation in Minimizing Freight,Installation & Maintenance Labor Cost
17:55	11:55	Zhiqiang Feng	Closing

Program | Tuesday, March 28, 2023

CEST Central European Summer Time CST Beijing Time

14:00	8:00	Kaining Ding	Opening
Ses	sion 4	Aude Derrier Dengyuan Song	BIPV
14:05	8:05	Larry Zhao GoodWe	Design of integrated building photovoltaic applications
14:25	8:25	Mauro Pravettoni SERIS, NUS	"Peranakan PV", the next Frontier in Aesthetic PV
14:40	8:40	Millie Tan Gain Solar	Zero Carbon Aesthetic Architect-BIPV Application For Commercial & Residential Buildings
14:55	8:55	Yue Wu Advanced Solar Power	CdTe Thin Film Application in BIPV
15:10	9:10	Coffee Break	
Ses	sion 5	Thomas Reindl	Floating PV
Ses 15:20	sion 5 9:20	Thomas Reindl Carlos Rodriguez SERIS, NUS	Floating PV Overview & Latest Trends in Floating PV
		Carlos Rodriguez	
15:20	9:20	Carlos Rodriguez SERIS, NUS Congyi Tan	Overview & Latest Trends in Floating PV New Standard for Floating PV Systems
15:20 15:40	9:20 9:40	Carlos Rodriguez SERIS, NUS Congyi Tan Envision Digital Philipp Sinn	Overview & Latest Trends in Floating PV New Standard for Floating PV Systems (TR100:2022) Floating Solutions for Off-shore FPV and Other
15:20 15:40 15:55	9:20 9:40 9:55	Carlos Rodriguez SERIS, NUS Congyi Tan Envision Digital Philipp Sinn SINN Power Stephen Thackerey	Overview & Latest Trends in Floating PV New Standard for Floating PV Systems (TR100:2022) Floating Solutions for Off-shore FPV and Other Ocean Energies Environmental Impacts of FPV and Mitigation

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16:35	10:35	Maximilian Trommsdorff Fraunhofer ISE	Standardisation of Agrivoltaics
16:50	10:50	Jean-Michel Villiot Amarenco	The enormous business potential for Agrivoltaics for governments, agrofood industrials and solar IPPs
17:05	11:05	Alessandra Scognamiglio ENEA	Agrivoltaics as part of Sustainable PV Landscapes
17:20	11:20	Gaël Nardin Insolight	Dynamic agrivoltaics: an agricultural tool to make the most of photons
17:35	11:35	Next chair	Closing

Organizer



Thomas Reindl Deputy CEO, Cluster Director

Solar Energy Research Institute of Singapore, SERIS



Kaining Ding

Head of Department Silicon Heterojunction Solar Cells and Modules at IEK-5: Photovoltaics Forschungszentrum Jülich, Germany



Ning Xu Technical Advisor, Director of Photovoltaic Application Research Institute Yangtze Institute for Solar Technology



Heyan Li President & Founder, Chief Analyst

Solarbe & Solarbe Consulting

Speakers



Christian Breyer PhD (Tech), Professor for Solar Economy

LUT University



Wilfried van Sark

Full Professor of Photovoltaics Integration, Copernicus Institute of Sustainable Development Utrecht University



Pierluigi Bonomo Senior Researcher, Head of BIPV Team

SUPSI



Mauro Pravettoni Director of PV Modules for Urban Solar Solar Energy Research Institute of Singapore, SERIS



Rebecca Yang Associate Professor

RMIT University



Philipp Sinn CEO and Founder

SINN Power



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Lancaster University



Congyi Tan Principal Engineer

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CEO



Larry Zhao PVBM Solution Director

GoodWe



Bonna Newman Technical Director for Solar Products Lightyear



Xia Heng Assistant Professor





Gaël Nardin R&D Manager





Xiaoyan Gao General Manager

Trina Way



Jean-Michel Villiot CEO of the Business Line Agrisolar

Amarenco



Yue Wu Deputy General Manager

Advanced Solar Power, Inc.



Millie TAN International Sales Director

Gain Solar



Neel Patel PhD candidate

FZ Juelich

Keiichi Komoto Senior Consultant

Mizuho Research & Technologies, Ltd.



David Wei Business Development Director

ARaymond Energy, China

Main Organizers



Steering Committee

Kaining Ding	Forschungszentrum Jülich GmbH (JÜLICH)
Matthieu Despeisse	The Centre Suisse d'Electronique et de Microtechnique (CSEM)
Zhiqiang Feng	Trina solar
Thomas Reindl	Solar Energy Research Institute of Singapore (SERIS)
Bonna Newman	Lightyear
Akira Terakawa	Panasonic Corporation (Panasonic)
Aude Derrier	Institut National de l'énergie Solaire (CEA-INES)
Dengyuan Song	DAS Solar
Ning Xu	Yangtze Institute for Solar Technology (YIST)

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