



CONFERENCE
PVCELLTECH

13 - 14 MARCH 2018
Penang, Malaysia

POST-EVENT REPORT 2018

Delegate profiles | Testimonials | Feedback

celltech.solarenergyevents.com

#PVCELLTECH

Foreword

The third PV CellTech event once again delivered on its expectations, and much more! In fact, when reflecting on the event's output, there was no shortage of intelligence on offer regarding where the industry has reached with cell efficiency improvements and plans for moving to the next level of performance.

Gaining knowledge into how the major multi-GW wafer and cell manufacturers have evolved today is critical, if we are to understand which technologies will emerge as the mainstream industry candidates, as the industry moves from 100 GW cell production in 2017, to almost 200 GW over the next 3-4 years.

The focus on PERC has clearly moved from being a next-generation upgrade to a full-adopted platform that is now the benchmark for p-type cell producers, and for new entrants looking to disrupt the supply-chain with n-type variants.

In this respect, PV CellTech 2018 is likely to be remembered as the official starting point for serious discussion on the What-Next-After-PERC question. From being merely a process flow upgrade step, introducing rear surface passivation layer deposition, PERC can now be seen as the logical roadmap progression from standard Al-BSF cells, and the architecture that now needs to be optimized and adapted in the new paradigm of >20% cell efficiency.

Making incremental process flow changes to move p-type mono PERC north of 23% were outlined by a number of companies, speaking at PV CellTech 2018. However, a new wave of n-type investments is well underway, heavily influenced by the ambitions of heterojunction entrants alongside the major PV equipment suppliers that have been key to cell expansions and growth in the last decade.

It is clear that the PV industry is going through a pivotal phase today, with technology leadership being prioritized across the board, in a way that we have not seen before. In the past, simply adding multi-GW of cell capacity was considered to be sufficient to influence the industry's supply dynamics: now, it is all about cell efficiency in mass production, with existing and new capacity having to benchmark with PERC performance levels as a bare minimum.

Learning from multi-GW mass production is now starting to impact efficiency, not simply processing cost through economy-of-scale factors. This is moving p-type efficiencies to levels not thought possible a few years ago. And when we add in the plans of the n-type entrants over the next 12 months, it sets up the prospect of PV CellTech 2019 being the definitive platform to learn exactly what the real PV technology roadmap means in the quest for 23-25% cell performance being the new benchmark going forward.



Dr Finlay Colville
Head of Research, PV-Tech & Solar Media Ltd.

“ PV Celltech continued to be the highest quality and most focused event on market trends and a perfect place for high level networking within the silicon solar cell sector ”

Kristin Lüdemann, VON ARDENNE

“ A great conference for business leaders of high value! ”

Stefan Reber, NexWafe

“ PV CellTech occupies a sweet spot between the technical conferences and trade shows that is very valuable for companies wanting to understand what technologies are moving into PV manufacturing ”

Bill Rever, Advanced Silicon Group

Delegate Profile

Breakdown by country



“ PV CellTech is a great event looking ahead in business of cell and module technology ”

Jan-Marc Luchies, Amtech Systems

*Belgium, Italy, Norway, Turkey, United Kingdom, Austria, Hong Kong, Iran, Israel, Jordan, Sweden, Thailand, Ukraine, United Arab Emirates



2018 attendees:

1366 TECHNOLOGIES	EVONIK INDUSTRIES - CREAIVS	KYOSHIN ELECTRIC CO., LTD.	SHANGHAI ASIACHEM CONSULTING CO LTD
3D-MICROMAC AG	EXATEQ GMBH	LG ELECTRONICS	SHELL GLOBAL SOLUTIONS
8MINUTENERGY RENEWABLES	FIRST SOLAR (M) SDN BHD	LONGI SOLAR	SINGAPORE SOLAR EXCHANGE
ADANI SOLAR	FRAUNHOFER-INSTITUTE FOR SOLAR ENERGY SYSTEMS	MACDERMID ENTHONE	SINGULUS TECHNOLOGIES AG
ADVANCED SILICON GROUP	GCL POLY	MAR SUN SOLAR	SINNALBA GROUP LIMITED
AGC	GCL SYSTEM INTEGRATION TECHNOLOGY CO., LTD	MEYER BURGER	SOL VOLTAICS AB
AIKO SOLAR	GINTECH	MURAKAMI CO.,LTD	SOLAR ENERGY RESEARCH INSTITUTE OF SINGAPORE (SERIS)
AMTECH GROUP	GREATECH INTEGRATION (M) SDN BHD	NATIONAL INSTITUTE OF SOLAR ENERGY (INES R&D)	SOLAR MEDIA
APPLIED MATERIALS	GRESEM INNOVATION	NEXWAFE GMBH	SOLARWORLD INDUSTRIES GMBH
ASM ALTERNATIVE ENERGY	H.A.L.M. ELEKTRONIK GMBH	NORSUN AS	SUN CHEMICAL CORP
AURORA SOLAR TECHNOLOGIES	HANWHA QCELLS GMBH	NORWEGIAN CRYSTALS	SUNPOWER CORPORATION
BEIJING JUNTAI INNOVATION TECHNOLOGY CO., LTD	HENKEL ELECTRONICS	OCI	SUOZ ENERGY GROUP
BOVIET	HORIBA	ORYX ADVANCED MATERIALS	SUZHOU MAXWELL COOPERATION
BT IMAGING	ICB GMBH & CO. KG	OXFORD PV GERMANY GMBH	SYMBIOR SOLAR LIMITED
CANADIAN SOLAR	IMEC	PANASONIC	TABAN
CEA	INDEOTEC	PPT RESEARCH, INC.	TELL GROUP
CEA INES	INDOSOLAR	REC SILICON	TESLA
COVEME ENGINEERED FILMS ZHANGJIAGANG	INNOLAS SOLUTIONS GMBH	REC SOLAR PTE. LTD.	THE QUARTZ CORPORATION
CYPRESS CREEK RENEWABLES	ION BEAM SERVICES ASIA PTE LTD	RECOM-SOLAR	TOTAL SA
DAS ENVIRONMENTAL EQUIPMENT CHINA LTD	ISC KONSTANZ	RENA TECHNOLOGIES GMBH	TT VISION TECHNOLOGY
DOW	ISRA VISION / GP SOLAR	S.E.A CORPORATION	UBIQUITY SOLAR INC.
DR LASER	JA SOLAR	SAATI AMERICAS CORP.	UNSW
DUPONT	JAKSON ENGINEERS LIMITED	SAINT-GOBAIN GLASS	UTILIGHT LTD.
ECM GREENTECH	JINERGY	SAS	VITRONIC
ECN	JINKO SOLAR	SCHMID GROUP	VOESTALPINE SPECIAL WIRE GMBH
EDWARDS TECHNOLOGIES SINGAPORE PTE. LTD.	JOLYWOOD	SEMCO TECHNOLOGIES	VON ARDENNE GMBH
ENEL GREEN POWER	JONAS & REDMANN PHOTOVOLTAICS PRODUCTION SOLUTIONS GMBH	SEMILAB (SEA) PTE LTD	WACKER CHEMIE
ETERNAL SUN SPIRE SOLAR	KIWA ASIA	SGL CARBON	WIOSUN
	KYOCERA CORP.	SHAMASH AUSTRALIA PTY LTD	YINGLI GREEN



Visitor feedback

98%



Rated networking opportunities as Exceptional, Very Good or Good

98%



Rated the agenda as Exceptional, Very Good or Good

86%



Would attend PV Celltech again

98%



Would recommend PV Celltech to colleagues/peers

“ Love learning about the various steps in this value chain. PV CellTech and PV ModuleTech give that insight while still holding focus on leading edge technologies ”

Chuck Sutton, REC Silicon

Join us again in 2019 for:



CONFERENCE PVCELLTECH 2019

12-13 March | Penang

Sponsors and exhibitors already confirmed:

GOLD



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EXHIBITORS



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For all enquiries & sponsorship options: marketing@solarmedia.co.uk

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