



PV MODULETECH CONFERENCE



Agenda Update 190821

22-23 October 2019, Penang, Malaysia

Day One: Tuesday 22 October 2019

0800-0900: Registration & morning refreshments

0900-0915: Conference welcome

- **David Owen**, CEO, **PV-Tech & Solar Media Ltd.**

0915-1000: Plenary talk from conference Chair

- **Finlay Colville**, Head of Research, **PV-Tech & Solar Media Ltd.**; *Top-performing PV module suppliers in the new PV ModuleTech Bankability Ratings ranking system*

The opening talk of the conference will provide the latest findings on the top-performing solar PV module suppliers meeting 'A' and 'B' grade classification within the new PV ModuleTech Bankability Ratings rankings tables. Understand how this ratings tool can enable credible and qualified benchmarking of PV module suppliers, through analysing both manufacturing and financial operations. Find out the reasons why only a few companies today meet AA-rated status, and which suppliers are in the lower rating bands of bankability.

1000-1130: Morning session 1: State-of-the-art module supply, production equipment & material selection for high-yield, reliable & bankable site operations

- **Daniel Chang**, Director – Global Technical Sales, **First Solar**
- **Rajaram Pai**, Marketing Manager, **DuPont Photovoltaic & Advanced Materials, South Asia and ASEAN**
- **Meyer Burger**, **Speaker TBC**
- **James Ma**, Senior Scientist – Renewable Solutions Laboratory, **3M Company**

This session features some of the leading companies that are setting standard for module supply, quality and reliability. Speakers will explain how module performance can be optimized by careful attention to manufacturing, the use of advanced production equipment, and the adoption of new materials for efficiency improvements in the field.

1130-1200: Morning refreshments & networking

1200-1300: Morning session 2: Bifacial module deployment & site returns (Part 1)

- **Monsoon Wang**, Product Director, **LONGi Solar**
- **Tristan Erion-Lorico**, Head of PV Module Business, **PV Evolution Labs (PVEL)**
- **Teresa Barnes**, Group Manager - PV Reliability & Systems Engineering, **National Renewable Energy Laboratory (NREL)**

The move from mono-facial to bifacial modules is well underway, with most PERC-based suppliers able to upgrade existing lines to bifacial capability with minimum effort. The US market is now leading bifacial adoption and field-data from this region will be critical in terms of setting the realistic yield benefits that can be expected as other countries and regions increase bifacial deployment activity. Two sessions will provide much-needed quantitative data to guide project developers and EPCs as they adjust return-on-investment models for utility solar projects moving forward.

1300-1400: Lunch break & networking

Gold Sponsors



Silver Sponsors



Bronze Sponsors

Supporting Sponsor



PVMODULETECH CONFERENCE



1400-1530: Afternoon session 1: 1200-1300: Bifacial module deployment & site returns (Part 2)

- **Stella Su**, Senior Auditor & Manager, **PI Berlin**; *Bifacial PV technology – ready for mass deployment*
- **Cherif Kedir**, President & CEO, **RETC**
- **Robin Li**, General Manager of TS & PM, **JinkoSolar**
- *Other speakers to be announced*

The move from mono-facial to bifacial modules is well underway, with most PERC-based suppliers able to upgrade existing lines to bifacial capability with minimum effort. The US market is now leading bifacial adoption and field-data from this region will be critical in terms of setting the realistic yield benefits that can be expected as other countries and regions increase bifacial deployment activity. Two sessions will provide much-needed quantitative data to guide project developers and EPCs as they adjust return-on-investment models for utility solar projects moving forward.

1530-1600: Afternoon refreshments & networking

1600-1730: Afternoon session 2: New module offerings from multi-gigawatt bankable module suppliers

- **Eric Shen**, Global Director of Global EPC Solution Division, **Talesun**
- **Liyou Yang**, CEO, **Jinergy (Jinneng Clean Energy Technology)**
- **Qiang Huang**, Technical VP, **Risen Energy**
- **Insan Boy**, Vice President – Business Development, **Seraphim Solar System**

Only a select group of companies are able to supply large-scale solar sites with volumes in excess of 100MW today. This session will hear from leaders in this category, focusing on what’s new for 2020 in terms of module technologies, powers and reliability metrics.

1800-2000: Evening drinks reception hosted by Meyer Burger

Day Two: Wednesday 23 October 2019

0830-0900: Refreshments

0900-1030: Morning session 1: Research & technology-transfer activities for next-generation PV module assembly, testing & efficiency enhancements

- **Anis Jouini**, CEO, **CEA- INES (Institut National de l'Energie Solaire)**
- **Dr Khoo**, Head of the Module Technology Development Group, **National University of Singapore - Solar Energy Research Institute Of Singapore**
- *Other research institutes & speakers to be announced*

Many of the recent module improvements have come from active collaboration between leading research institutes and module suppliers globally. This session will focus on key technology-transfer projects that are guiding how modules can be better modelled, inspected, tested, assembled and produced; and how this will benefit developers, EPCs and asset owners from 2020 onwards.

1030-1100: Morning refreshments & networking

Gold Sponsors



Silver Sponsors



Bronze Sponsors



Supporting Sponsor





PV MODULETECH CONFERENCE



1100-1230: Morning session 2: State-of-the-art practices for module inspection, testing, certification, factory-auditing & investor due-diligence

- **George Touloupas**, Director of Technology & Quality, **Clean Energy Associates**
- **Luca Votta**, International Business Manager – Solar & Wind, **Kiwa Group**
- **Alexandre Minuzzo**, President, **STS (Senergy Technical Services)**
- *Other speakers to be announced*

A critical part of module supplier and technology acceptance for commercial, industrial and utility PV projects is undertaken by third-party agencies engaged by the investment community to perform different types of due-diligence prior to module supplier selection and shipment. This session will feature some of the leading organizations fulfilling these functions, with talks from factory auditors, test labs, and independent engineers; and the level of detail involved in each of these stages.

1230-1400: Lunch break & extended networking forum

1400-1530: Afternoon session: Industry benchmarks for module quality & reliability

- **Dr. Max Köntopp**, Director Global R&D Test Labs & Analytical Services, **Q CELLS**
- **Frederic Dross**, VP Technology, **DSM**
- *Other speakers to be announced*

Module quality and reliability remains one of the key deliverables for all companies engaged in module assembly, BoM selection, and cell manufacture country-of-origin. Speakers in this session will explain how investors can de-risk module selection through understanding the extensive tests being undertaken by some of the leading global players today within the PV module value-chain.

1530-1545: Afternoon refreshments & networking

1545-1700: Closing session: Extended panel discussion & interactive audience Q&A forum

- **Mohan Narayanan**, PV Industry Expert
- **Paul Wormser**, Vice-President, **Clean Energy Associates**
- **Jesse Nickerman**, Sales Director, **PI Berlin**
- *Other panelists to be announced shortly*

The final session of PV ModuleTech 2019 will enable topical issues and unanswered questions from over the two days of the conference to be discussed, analysed and resolved, by way of moderated panel contributions from leading players in the industry today. Questions will be gathered during the event, can be submitted electronically or asked in person from the audience. The goal here is to provide a short-list of key takeaways for participants that can form corporate summaries internally of main PV ModuleTech 2019 findings.

1700: Conference close & ad-hoc networking opportunities

Gold Sponsors



Silver Sponsors



Bronze Sponsors



Supporting Sponsor

