



PV Committee China TC Chapter
PV Materials Committee China TC Chapter
Joint Meeting Summary and Minutes

China Spring Standards Meeting 2024

May 16th, 2024, 10:00-17:10

Baoding, Hebei

TC Chapter Announcements

Next TC Chapter Meeting

TBD, China, 2024

Table 1 Meeting Attendees

Italics indicate virtual participants

Co-Chairs: Dengyuan Song (DASOLAR)

SEMI Staff: Cassie Li, Ein Wu

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
DASOLAR	Song	Dengyuan	LINTON	Li	Zhixin
DASOLAR	Huang	Chenru	RUNERGY	Chen	Rulong
CSI	Zhang	Guangchun	Shenzhen SC	Li	Shijun
CSI	Xu	Tao	Shenzhen SC	Tan	Haoyun
NAURA	Li	Buzhong	AikoSolar	Fukui	Kenji
NAURA	Sun	Pengtao	Leadmicro	Li	Weiming
NAURA	Tian	Tao	Leadmicro	Su	Yunshan
NAURA	Yan	Zhishun	Red Solar	Cai	Xianwu
SANY	Chen	Jia	Yingli	Yu	Bo
MDEP	Lv	Jinbiao	Yingli	Ma	Hongna
LDK Solar	Liu	Fang	Risen Energy	Zhang	Ying
Mellow Energy	Gao	Yanyan	NAURA	Han	Tianqi
TCL Zhonghuan	Zhang	Xuenan	JINMAO	Fang	Zhenlei
TCL Zhonghuan	Shen	Yitong	JYT	Guo	Dawei
TCL Zhonghuan	Li	Jianhong	JYT	Chen	Hui
ideaoptics	Hong	Shaoxin	HCVAC	Wang	Yao
Trinasolar	Zhou	Wei	HCVAC	Zhao	Yuwan
Risen Energy	Yang	Bochuan	Huairou Laboratory	Liu	Benyu
Huasun Solar	Chen	Jingwei	Huairou Laboratory	Biao	Yi
Mellow Energy	Wu	Shaohang	Huairou Laboratory	Che	Zhigang
GNETEK	Yao	Huawen	JA Solar	Niu	Xinwei
PVGOT	Sheng	Wenting	JA Solar	Cao	Shaowen



GCL Power	Wang	Bin	JA Solar	Ma	Haotian
LINTON	Liu	Erfei	Longi	Wang	Yichun
Sinosico	Yan	Dazhou	Longi	Ren	Xiuqiang
Meyer Burger	Chen	Min	Longi	Du	Chao
GSolar	Zhang	Hexian	Fusion Materials	Wang	Dongliang
TONGWEI	Jiang	Fangdan	Fusion Materials	Zhang	Jiayun
Shenzhen SC	Tong	Jie	YONGXIANG	Liu	Yifeng
Sunchine	Wang	Tong	YONGXIANG	Wang	Yaping
SHJU	Zhang	Zhen	YL Metron	Zhang	Yingjiu
DASOLAR	Xu	Xingxing	YL Metron	Yi	Jiayang
SEMILAB	Wang	Haifang	Yingli	Wang	Xiuxiang
ECOPV Alliance	Xu	Junyu	Yingli	Liu	Ying
XYNU	Lu	Xiaoman	Yingli	Li	Yingye
Chint Solar	Zhang	Yue	Yingli	Zhang	Lina
Chint Solar	Hua	Feng	AikoSolar	An	Xiexie
Chint Solar	Zheng	Xiaowen	Valiant	Ci	Zhenhua
Sino Poly	Wu	Zenggang	Valiant	Li	Yanhong
Zonchow	Ni	Jianxiong	Valiant	Lin	Shaobo
Zonchow	Li	Bo			

Table 1 Leadership Changes

<i>WG/TF/SC/TC Name</i>	<i>Previous Leader</i>	<i>New Leader</i>
<i>PV</i>		
None		
<i>PV Material</i>		
PV Silicon Wafer Task Force	Yichun Wang – LONGi	Yichun Wang – LONGi Xuannan Zhang – TZE

Table 2 Committee Structure Changes

<i>Previous WG/TF/SC Name</i>	<i>New WG/TF/SC Name or Status Change</i>
<i>Photovoltaic</i>	
None	
<i>Photovoltaic Materials</i>	
None	

Table 3 Ballot Results

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
<i>PV</i>		
7055	New Standard: Guide for Tube PECVD Graphite Boat Materials for Solar Cell Production	Passed
<i>PV Materials</i>		
None		



#1 **Passed** ballots and line items will be submitted to the ISC Audit & Review Subcommittee for procedural review.

#2 **Failed** ballots and line items were returned to the originating task forces for re-work and re-balloting or abandoning.

Table 4 Activities Approved by the GCS between meetings of the TC Chapter

#	Type	SC/TF/WG	Details
<i>Photovoltaic</i>			
None			
<i>Photovoltaic Materials</i>			
None			

Table 5 Authorized Activities

Listing of all revised or new SNARF(s) approved by the Originating TC Chapter.

#	Type	SC/TF/WG	Details
<i>PV</i>			
	SNARF	PV Equipment Task Force	Revision to SEMI PV 81-0318, Guide for Specifying Low Pressure Horizontal Diffusion Furnace
7164	SNARF Revised	Perovskite Thin Film PV Materials and Modules Task Force	From: New Standard: Specification of Terrestrial Perovskite Photovoltaic (PV) Module Sizes To: New Standard: Guide of Terrestrial Perovskite Photovoltaic (PV) Module Sizes
7165	SNARF Revised	Perovskite Thin Film PV Materials and Modules Task Force	From: New Standard: Specification of FAI for Perovskite Photovoltaic (PV) Industry To: New Standard: Guide of FAI for Perovskite Photovoltaic (PV) Industry
<i>PV Materials</i>			
	SNARF	PV Silicon Wafer Task Force	Specification for Tungsten Wire Electroplated Diamond Wire for Photovoltaic Silicon Wafer Cutting

#1 SNARFs and TFOFs are available for review on the SEMI Web site at:

<http://downloads.semi.org/web/wstdsbal.nsf/TFOFSNARE>

Table 6 Authorized Ballots

#	When	TF	Details
<i>PV</i>			
None			
<i>PV Materials</i>			
None			

Table 7 SNARF(s) Granted a One-Year Extension

#	TF	Title	Expiration Date
<i>Photovoltaic</i>			
None			



Table 7 SNARF(s) Granted a One-Year Extension

#	TF	Title	Expiration Date
<i>Photovoltaic Materials</i>			
None			

Table 8 SNARF(s) Abolished

#	TF	Title
<i>PV</i>		
7054	PV Equipment Task Force	Reapproval of SEMI PV81-0318, Guide for Specifying Low Pressure Horizontal Diffusion Furnace
<i>PV Materials</i>		
6922	PV Silicon Wafer Task Force	New Standard: Classification of Reusable Silicon Material

Table 9 Standard(s) to receive Inactive Status

Standard Designation	Title
<i>Photovoltaic</i>	
None	
<i>Photovoltaic Materials</i>	
None	

Table 10 Table 10 Standard(s) to receive Withdrawal Status

Standard Designation	Title
<i>PV</i>	
None	
<i>PV Materials</i>	
None	

Table 11 New Action Items

Item #	Assigned to	Details
	DASOLAR & ECOPV	SEMI SCC PV Carbon Emission Reduction Task Force

Table 12 Previous Meeting Action Items

Item #	Assigned to	Details
None		

1 Welcome, Reminders, and Introductions

Committee co-chair Dengyuan Song called the meeting to order at 09:30.



2 Review of Previous Meeting Minutes

The TC Chapter reviewed the minutes of the previous meeting.

Motion: To approve the minutes of the previous meeting as written

By / 2nd: Zhixin Li (Linton)/ Tao Xu (CSI)

Discussion: None

Vote: 41Y - 0 N. Total 41 companies. Motion Passed.

Attachment: 3 China PV&PVM TC Joint Fall Meeting Minutes 20231116-v1

3 Liaison Reports

None

4 SEMI Staff Report

Cassie Li (SEMI) gave the SEMI Staff Report. Of note:

Action Item:

- Standards Technical Committees
- 2024 Critical Dates for SEMI Standards Ballots
- SEMI Standards Publications
- A&R SC Membership
- Organization chart for China PV Committee
- Organization chart for China PVM Committee
- China PV&PV Materials TC Update

Attachment: 4 SEMI Staff Report2024.5.16

4.1 Other SDO (Standards Development Organization) Update

- None

5 Ballot Review

NOTE 1: TC Chapter adjudication on ballots reviewed is detailed in the Audits & Review (A&R) Subcommittee Forms for procedural review. The A&R forms are available as attachments to these minutes. The attachment number for each balloted document is provided under each ballot review section below.

5.1 Document 7055, New Standard: Guide for Tube PECVD Graphite Boat Materials for Solar Cell Production

Motion: Zhishun Yan(NAURA) moved that This Document passed TC Chapter review with technical changes and with or without editorial changes and will be forwarded to the ISC A&R SC for procedural review. A Ratification Ballot will be issued to verify the technical changes.

By / 2nd: Zhishun Yan(NAURA)/Zhixin Li (LINTON)

Discussion: None

Vote: 17 in favor and 0 opposed. (Total 17 companies. 0 companies abstain.) Motion passed.

Attachment: A&R 7055



6 Subcommittee and Task Force Reports

6.1 PV Silicon Raw Materials Task Force

None

7 SNARF Abolished

7.1.1 Doc. 7054, Reapproval of SEMI PV81-0318, Guide for Specifying Low Pressure Horizontal Diffusion Furnace

Motion: Approve abolish SNARF Document 7054
By / 2nd: Pengtao Sun (NAURA) / Rulong Chen (Runergy)
Discussion: None
Vote: 41 in favor. (Total 41 companies. 0 companies abstain.) Motion passed.

Motion: Approve abolish SNARF Document 76922
By / 2nd: Yichun Wang (LONGi) / Zhixin Li (Linton)
Discussion: None
Vote: 41 in favor. (Total 41 companies. 0 companies abstain.) Motion passed.

8 Liasion Report

Cassie Li (SEMI) reported for the Liasion Report of Taiwan region. This report contained information on:

Action Item:



- Meeting Information
- Leadership / Leadership Changes
- Committee Structure Changes
- Organization Chart
- Ballot Results
- Activities Approved via GCS
- Authorized Activities / Other Activities
- Authorized Ballots
- SNARF(s) Granted One-Year Extension
- Abolished SNARFs
- Inactive Status
- Task Force Highlights
- Five-Year Review

Attachment: 5 PV Taiwan Liaison Report_20240326_R1

9 Task Force Report

9.1 Crystalline Silicon Solar Cell Task Force

Rulong CHEN (Runergy) reported for the Crystalline Silicon Solar Cell Task Force. This report contained information on:

Action Item:

- Introduced the task force's leaders and members
- Introduced published standards.
- Working on
 - 7166: Revision to SEMI PV79-0818, Test Method for Exposure Durability of Photovoltaic (PV) Cells to Acetic Acid Vapor

Attachment: 6 2024 年春季会议-电池工作组汇报

9.2 Building Integrated Photovoltaic (BIPV) Task Force

Zhenlei Fang (Jinmao Green Building) reported for the Building Integrated Photovoltaic (BIPV) Task Force. This report contained information on:

Action Item:

- Introduced the task force's leaders and members
- Introduced published standards

Attachment: 7 2024 年春季会议-BIPV 工作组汇报(1)

9.3 PV Module Task Force

Wei ZHOU (TrinaSolar) reported for the PV Module Task Force. This report contained information on:

Action Item:

- Introduced the task force's leaders and members
- Introduced published standards

Attachment: 8 SEMI PV Module TF Report 2024-05-16

9.4 PV Equipment Task Force

Buzhong Li (NAURA) reported for the PV Equipment Task Force. This report contained information on:

Action Item:

- Introduced the task force's leaders and members
- Introduced published standards
- Working on
 - Doc 7055, Guide for Tube PECVD Graphite Boat Materials for Solar Cell Production

Attachment: 9 2024 年春季会议-设备工作组汇报 PPT 5.16 (密级：不涉密)

9.5 Perovskite Thin Film PV Materials and Modules Task Force

Shaohang Wu (Mellow Energy) reported for the *Perovskite Thin Film PV Materials and Modules Task Force*. This report contained information on:

Action Item:

- Introduced the task force's leaders and members
- Introduced published standards
- Working on
 - Doc 7164, New Standard: Guide of Terrestrial Perovskite Photovoltaic (PV) Module Sizes
 - Doc 7165, New Standard: Guide of FAI for Perovskite Photovoltaic (PV) Industry

Attachment: 10 2024 05 16 Perovskite Task Force

10 Old Business

10.1 Refer to Table 12 Previous Meeting Action Items

11 New Business



11.1 *New SNARFs*

11.1.1 SNARF, Revision to SEMI PV 81-0318, Guide for Specifying Low Pressure Horizontal Diffusion Furnace

Motion: Approve the SNARF.

By / 2nd: Pengtao Sun (NAURA) / Zhixin Li (Linton)

Discussion: Dengyuan Song(DASOLAR): What's the difference between low pressure design and sealing condition?

Pengtao Sun(NAURA):There is little difference between those condition.

Vote: 40 in favor and 0 opposed,2 abstain. (Total 40 companies.) Motion passed.

Attachment: 12 SEMI SNARF-Revision of existing Standard Guide for specifying low pressure horizontal diffusion furnace (密级：不涉密)

11.1.2 SNARF, New Standard: Guide for Tungsten Wire Electroplated Diamond Wire for Photovoltaic Silicon Wafer Cutting

Motion: Approve the SNARF.

By / 2nd: Yingjiu Zhang(METRON) / Zhixin Li (LINTON)

Discussion: Wei Zhou (Trina Solar): If SNARF created in SEMI., will it be improved in other standard platform?

Yingjiu Zhang(METRON):. No

Vote: 39 in favor 1 abstain and 0 opposed (Total 40 companies.) Motion passed.

Attachment: 14 杨凌美畅新材料股份有限公司

11.1.3 SNARF Revised, 7164, New Standard: Specification for Tungsten Wire Electroplated Diamond Wire for Photovoltaic Silicon Wafer Cutting

Motion: Approve the SNARF title revised to New Standard: Guide for Tungsten Wire Electroplated Diamond Wire for Photovoltaic Silicon Wafer Cutting

By / 2nd: Shaohang Wu(Mellow Energy) /Rulong Chen (Runergy)

Discussion: Tao Xu (CSI): When unpacking crystalline silicon, size is priority considered.

Dengyuan Song(DASOLAR):. Yes

Vote: 43 in favor and 0 opposed (Total 43 companies.) Motion passed.

Attachment: 10 2024 05 16 Perovskite Task Force

11.1.4 SNARF Revised, 7165, New Standard: Specification of FAI for Perovskite Photovoltaic (PV) Industry

Motion: Approve the SNARF title revised to New Standard: Guide of FAI for Perovskite Photovoltaic (PV) Industry

By / 2nd: Yanhong Li(Valiant) /Rulong Chen (Runergy)

Discussion: None

Vote: 43 in favor and 0 opposed (Total 43 companies.) Motion passed.

Attachment: 10 2024 05 16 Perovskite Task Force

11.2 *Five-Year-Review*

None

11.3 *SNARF(s) Granted a One-Year Extension*

None



12 Next Meeting and Adjournment

The next meeting of the PV & PV Materials China TC Chapter is TBD.

For more information, please visit Standards Calendar at <http://www.semi.org/en/standards>

Adjournment: 17:10

Respectfully submitted by:

Cassie Li

SEMI China

Phone: 86-21-60277645

Email: cassieli@semi.org

Minutes tentatively approved by:

Dengyuan Song (DASOLAR), PV Committee and PV Materials Committee China TC Chapter Co-chair	2024.6.5
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Table 13 Index of Available Attachments#1

<i>Title</i>	<i>Title</i>
1 Chinese SEMI Standard Meeting Reminders	2 China PV Standards Committee Spring Meeting 2024 Final Agenda
3 China PV&PVM TC Joint Fall Meeting Minutes 20231116-v1	4 SEMI Staff Report2024.5.16
5 PV Taiwan Liaison Report_20240326_R1	6 2024 年春季会议-电池工作组汇报
7 2024 年春季会议-BIPV 工作组汇报(1)	8 SEMI PV Module TF Report 2024-05-16
9 2024 年春季会议-设备工作组汇报 PPT 5.16 (密级：不涉密)	10 2024 05 16 Perovskite Task Force
11 SEMI PV Silicon Wafer Task Force_May. 13th,2024	12 SEMI SNARF-Revision of existing Standard Guide for specifying low pressure horizontal diffusion furnace (密级：不涉密)
12 SNARF-Revision (PV81-0318) Guide for specifying low pressure horizontal diffusion furnace	13 SNARF-Revision (PV29-1018) Specification for Front Surface Marking of Photovoltaic (PV) Silicon Wafers with Two-Dimensional Matrix Symbols (2024.5.8) (2)
Ballot report 7055	14 SNARF New Standard : Guide for tungsten wire electroplated diamond wire for photovoltaic silicon wafer cutting
14 杨凌美畅新材料股份有限公司	14 杨凌美畅新材料股份有限公司



Table 13 Index of Available Attachments#1

#1 Due to file size and delivery issues, attachments must be downloaded separately. A .zip file containing all attachments for these minutes is available at www.semi.org. For additional information or to obtain individual attachments, please contact [SEMI Staff Name] at the contact information above.