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TC/TG/MTG/TRG MINUTES COVER SHEET

(Minutes of all Meetings are to be distributed to all persons listed below within 60 days following the meeting.)

TC/TG/MTG/TRG No. 6.7 DATE January 26, 2021

TC/TG/MTG/TRG TITLE: Solar and Other Renewable Energies
DATE OF MEETING January 26, 2021 LOCATION Virtual

| MEMBERS PRESENT | YEAR APPTD | MEMBERS ABSENT | YEAR APPTD | EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE |
|--------------------------|------------|----------------|------------|--|
| Svein Morner, VM | 07/01/2018 | | | Yoon Ko |
| Marija Todorovic, VM | 07/01/2017 | | | Michele Shi |
| Tim Merrigan, CM | | | | Brian Rock |
| Cary Smith, CM | | | | Stefan Elbel, Research Liaison |
| James Leidel, CM | | | | |
| Ahmed Elatar, VM | 10/26/2017 | | | |
| Costa Kapsis, VM | 01/07/2018 | | | |
| Gaylen Atkinson, VM | 01/07/2019 | | | |
| Veronique Delisle, NQ-VM | 01/07/2019 | | | |
| Costas Balaras, CM | | | | |
| Janice Means, CM | | | | |
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DRAFT MEETING MINUTES
ASHRAE TC 6.7 – Solar and Other Renewable Energies
Winter Meeting – January 26, 2021
Virtual Meeting

1. Call to order & Introductions. The meeting was called to order by Chair Svein Morner at 11 am, January 26th, 2021 and introductions were made. Chair referred members to the ASHRAE code of ethics and Manual of Procedures.
2. Quorum. It was determined that 6 of 6 voting members were present at the beginning of the meeting. A quorum was present.
3. Agenda Review. Chair reviewed the agenda.
4. Approve minutes from June 2020 Meeting!!!!
Delayed until draft is shared!
5. Program subcommittee presentation
 - Yoon Ko (discussion about technical publication)
 - A separate meeting will be held
 - Two papers are submitted about PV
 - A request by Kapsis to sponsor the two activities lead by Yoon, Members did not object
 - Kosta Kapsis approved the sponsorship
 - Vernoique, Leidel, Svein, Kapses and Marieja proposed new topic for future seminars.
6. Chair's Report – Morner
 - Nothing to report
 - Svein was not able to attend the chair meeting
 - Costas proposes to have more than the summer and winter meetings. We could consider having an intermediate virtual meeting in the spring to brainstorm for example. Svein agreed to set-up this meeting in March or April. It could be a shorter meeting on how the program went.
7. Old Business.
 - Nothing to report
8. Subcommittee Reports
 - A. Handbook – M. Todorovic
 - We need to get a real schedule for the handbook.
 - Considering the huge advances in renewables, especially in PV, handbooks need to be improved (e.g. address the topic of rural vs urban systems).
 - Currently, anyone in subcommittees is on the handbook committee. Svein suggests having a core group for the handbook and for Maria to identify the most important topics to be addressed. From there, we can identify volunteers for these topics.
 - B. Research – J. Leidel
 - Jim shared the information about a PVT-liquid panel manufactured by a company called Power Panel. The company also makes its own PV strings. The system has its own water tank.

- There is a new position paper from the IEA SHC Task 60 published in December 2020 that might be of interest to the group: <https://www.iea-shc.org/Data/Sites/1/publications/IEA-SHC-Task60-PVT-Technology-Position-Paper.pdf>
- Last time, Jim had suggested a project on PVT heat pump systems – people had suggested modelling it first.
- RTAR for **Integrating solar PV and commercial buildings**
 - Received comments from Véronique, but that was it. Still needs a tiny bit of work. Trying to show how PV integrated to buildings interact with more than the roof. Many topics are important including integration with HVAC, fire safety, building codes and standards.
 - Nobody provided suggestions for bidders.
 - Brian Rock (University of Kansas) said he could be a bidder.
 - Jim to run the RTAR through Stefan Elbel for feedback
 - There is a concern from Maria that the title/topic is too broad. Focusing on a type of building (e.g. historical buildings) could be an option.
 - Yoon Ko mentions that there is no guidelines from a fire safety perspective when it comes to BIPV, so this could also be included in this proposal.
 - Janice mentioned that there is not much money now for research, but nevertheless, Svein suggests to move it forward with the existing budget. Worst comes to worst, the funding will be postponed.
 - It might help if matching funds are found. There is a suggestion to put the work statement on the website. Jim will verify with Stefan if there are rules against soliciting people to match funds through the website with the statement-of-work.
- Yoon Ko proposes to look at the following question, which was raised during one of the IEA PVPS Task 15 discussions: When it comes to BIPV, current building code testing standards refer to regular building cladding material without PV Cells. If a BIPV cladding is electrically active and it burns, does it propagate fire faster? Is it more dangerous than regular cladding?
 - Group proposes that Yoon writes and RTAR on it.

C. Standards – A. Elatar

- No update
- Working on the 2024 code map, if there are new ideas, please share.

D. Program

- Janice: proposal to co-sponsor a seminar with TC 2.8 under Hot and Humid or Hot and Arid. Janice will contact Costa Kapsis.
- Janice: Three seminars are focused on Climate Change at the conference.

E. Website – S. Morner

- If anyone wants to share anything, get in contact with Svein.

6. Liaison Reports from Society & Other Organizations

- Nothing to report
- Janice: TC 2.5 will be looking at the Climate Change Position's Statement
- Yoon Ko:
 - The IEA PVPS Task 15 is conducting work on BIPV
 - SEAC: discussion on PV regulations
- Véronique:
 - CSA is starting an activity to look at the adoption of IEC 63092 in Canada

9. New Business

- Short TC 6.7 meeting sometime in the Spring. Svein will set it up.

10. Adjourn.

- Svein moved a motion to adjourn the meeting, Ahmed second the motion.
- Chair adjourned the meeting.

Action items:

- Maria to identify the most important topics to be addressed. From there, we can identify volunteers for these topics.
- Jim to run the RTAR **Integrating solar PV and commercial buildings** to Stefan Elbel for feedback and to the whole TC 6.7.
- Jim to verify with Stefan if there are rules against soliciting match funders through the website.
- Svein to add work statement to website
- Yoon Ko to write an RTAR on BIPV cladding fire propagation
- Janice to contact Costa Kapsis about co-sponsoring a seminar with TC 2.8.
- Svein to organize a spring meeting to discuss progress.

Respectfully submitted,
Ahmed Elatar, TC 6.7 Secretary