



TC 6.7, 02 February 2026

Solar and other renewable energies

2:30PM to 4:30PM PST, Las Vegas NV, USA, Hybrid meeting

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Véronique Delisle (VM), Chair & Handbook SC chair	2020	Marija Todorovic (CM), Standards SC chair	2016	Chee Ow (Guest)
Costas Balaras (VM)	2006			Yas Ahmadi (Guest)
Khalid Nagidi (VM)	2011			Xinwei Zhuang (Guest)
Anna-Maria Sigounis (VM), Outreach SC chair	2023			Moli Kennedy (ASHRAE HB Editor, Guest)
Stratos Rounis (VM), Secretary	2023			Raji Khouri (Guest)
Svein Morner (VM), Webmaster	2000			Grade White (Guest)
Tim Merrigan (VM)	1988			Julia Timberman (Guest)
Costa Kapsis (CM), Research chair	2016			Paula Hernandez (Guest, Handbook liaison)
Mehrdad Poursadegh (CM), Program chair	2024			Ali Shirazi (Guest)
Erin Gaucher-Loksts (CM)	2023			Oumou Sidibe (Guest)
Janice Means (CM)	2005			Eric Berg (Guest, TAC Section Head)
Cenk Yavuzturk (CM)	2003			
Mahla Behrooz (PCM)	2025			
Ryan Danks (PCM)	2024			
Andrew Shore (PCM)	2023			
Michael Vogel (PCM)	2025			
Caroline Hachem-Vermette (PCM)	2024			
Melanie Canfield (PCM)	2024			
Fengqi Li (PCM)	2024			
Yearim Yang (PCM)	2025			
Mario ElHelou (PCM)	2025			

David Bowmann (PCM)	2025			
Nick Pederson (PCM)	2025			
DISTRIBUTION: <i>All Members of TC/TG/MTG/TRG plus the following:</i>				
TAC Section Head: Erig Berg			SHx@ashrae.net Where x is the section number	
All Committee Liaisons As Shown On TC/TG/MTG/TRG Rosters (Research, Standards, ALI, etc.)			See ASHRAE email alias list for needed addresses.	
Steve Hammerling, Assistant Manager of Research & Technical Services			AMORTS@ashrae.net	

List of Attendees

First Name	Surname	Initials
Ali	Shirazi	AS
Andrew M.	Shore	ASH
Anna-Maria	Sigounis	AMS
Caroline	Hachem-Vermette	CHV
Cenk	Yavuzturk	CY
Chee	Ow	CO
Costa	Kapsis	CK
Costas	Balaras	CB
David	Bowmann	DB
Erin	Gaucher-Loksts	EGL
Fengqi	Li	FL
Grace	White	GW
Janice	Means	JM
Julia	Timberman	JT
Khalid	Nagidi	KN
Mahla	Behrooz	MB
Mario	El Helou	MEH
Mehrdad	Poursadegh	MP
Melanie	Canfield	MC
Michael P	Vogel	MV
Moli	Kennedy	MK
Nick	Pederson	NP
Oumou	Sidibe	OS
Paula	Hernandez	PH
Raji	Khoury	RK
Ryan	Danks	RD
Stratos	Rounis	SR
Svein	Morner	SM
Tim	Merrigan	TM
Véronique	Delisle	VD
Xinwei	Zhuang	XZ
Yas	Ahmadi	YA
Yearim	Yang	YY

1. Welcome (V. Delisle)

Meeting was called to order at 17.34 EDT by VD (chair)

2. Review Scope (V. Delisle)

VD presented the scope of TC 6.7

3. ASHRAE Value Statement (V. Delisle)

VD presented the ASHRAE Value Statement.

4. Roll Call and Introductions (All)

- Roundtable of introductions (Name, affiliation, membership status)
- Meeting minutes: Stratos Rounis (virtual) with the help of Anna-Maria Sigounis (in-person)
- Determination of quorum based on voting members (quorum is the larger of 4 or exceeds ½ of the total number voting members, both present and absent)

☒	Véronique Delisle	(June '26)	☒	Khalid Nagidi	(June '28)
☒	Stratos Rounis	(June '28)	☒	Anna Maria Sigounis	(June '28)
☒	Constantinos Balaras	(June '26)			
☒	Svein Morner	(June '29)			

- All voting members present, quorum reached.

5. Vote on approval of the meeting agenda (V. Delisle)

- There were no comments on the agenda. The motion to approve the agenda was moved by KN and seconded by AMS. The agenda was approved unanimously (CNV).

6. Vote on approval of last meeting's minutes (V. Delisle)

- There were no comments on the last meeting's minutes (TC 6.7, Phoenix, ASHRAE Summer Conference 2025). The motion to approve the minutes was moved by CB and seconded by KN. The minutes were approved unanimously (CNV).

7. Chair's report (V. Delisle)

- VD informed that subcommittee meetings are now encouraged to be online. Special projects subcommittee oversees projects that might not fit in the regular process (1988-SP is part of it). Submitting special projects is an option to think about.
- Eric Berg, TAC Section Head, mentioned that if anyone wants to provide input on the research process, a QR code for a survey is available.
- Long format technical papers will no longer be available, only the 4-page version.
- VD informed that the Conference and Exposition Committee (CEC) mentioned that they try to give feedback on proposals that were not accepted for the Las Vegas conference. They are open to people reaching out to them for comments on tracks. VD proposed to suggest *Renewables in the built environment* as a future track.

Action item:

- MP to contact CEC to propose *Renewables in the built environment* as a future track idea.

8. Liaison reports

- Handbook:
 - PH informed that the TC 6.7 chapter in HVAC Applications will be moving to Fundamentals. The committee can decide not to update HVAC Applications, but the committee has decided as planned with the modifications even though the chapter will be moving to Fundamentals.
 - PH asked for an update on the revision of ch 36. VD informed that the revision is progressing well but is being done on a different platform than the authoring portal.

9. Membership/Roster

- VD presented the current roster:

Name	Role	Term in position	Term on committee	Voting
Véronique Delisle	Chair HB SC Chair	07/01/2025 - 06/30/2026	06/16/2020 - 06/30/2026	Yes
Costas Balaras	Vice-chair	07/01/2025 - 06/30/2026	07/01/2006 - 06/30/2026	Yes
Stratos Rounis	Secretary	07/01/2024 - 06/30/2028	01/27/2023 - 06/30/2028	Yes
Costa Kapsis	Research SC chair	07/01/2024 -	08/02/2016 - 06/30/2024	No
Marija Todorovic	Standards SC chair	07/01/2024 -	07/01/2016 - 06/30/2024	No
Anna Maria Sigounis	Membership and Outreach	07/01/2024 - 06/30/2028	01/29/2023 - 06/30/2028	Yes ¹
Svein Morner	Webmaster	07/01/2025 - 06/30/2029	07/01/2000 - 06/30/2029	Yes
Khalid Nagidi	Member	06/30/2024 - 06/30/2028	07/01/2011 - 06/30/2028	Yes
Mehrdad Poursadegh	Member	07/01/2025 -	01/22/2024 - 06/30/2025	No

- **Voting members:** VD informed that Ryan Ranks will be the new voting member as of July 2026 as she will be rolling out.
- **Chair:** As of July 2026, Costas Balaras will be the new chair (and remain a voting member).
- **Vice-Chair:** Ryan Danks will be the new vice-chair as of July 2026.
- **Webmaster:** Melanie Campfield (MC) volunteered to be the new webmaster as Svein Morner was ready to have someone else taking on the position.
- **Standards SC Chair:** Costa Kapsis will be the interim standards SC chair and JM will contact Marija Todorovic to inform her.

¹ Error on the official roster where this participant is listed as non-voting

- **Research SC Chair:** CK will be stepping down from Research Chair. RD will be the new Research Chair as of July 2026.

Action items:

- VD will plan a meeting with SM and MC to plan the transition.
- JM will contact Marija Todorovic to inform her that CK will be the interim standards committee chair.
- CK will meet RD to transition the research chair position.
- VD will update the roster according to the listed changes.

10. Handbook Subcommittee meeting report

- JM informed that in addition to the TC 6.7 chapter in HVAC Applications, several chapters will move around in the handbooks (primarily from HVAC Applications to Fundamentals) due to increasing size of HVAC Applications. JM, CB and KN mentioned that it was a good thing to have solar in Fundamentals.
- There was a proposal from VD to have the two chapters combined in Systems and Equipment. JM proposed having at the very least a short chapter in Fundamentals, prompting further read to Systems & Equipment. CB highlighted the importance of having material in Fundamentals. CK pointed out that Chapter 14 already contains solar angle calculations, sky model etc. Potential conflict with other TCs and need for collaborations were discussed. VD said that to make an informed decision, we need to look at the content of each handbook. CB mentioned that we do not need to decide now. VD suggested discussing with TC 4.2 to avoid overlap.
- CB, CK and JM volunteered to do an analysis and word/term search for all books, similar to what was done with TC 2.8 for climate change to identify overlap with other TCs.
 - The decision was made to proceed as planned with the HVAC Applications and Systems & Equipment submissions and in parallel, to do the content analysis to evaluate what would go in Fundamentals.
- HVAC Applications:
 - VD could not get a hold of Andy Walker for the unglazed transpired collector drawings. VD will resketch.
- Systems and equipment:
 - The review for Systems and Equipment must start soon. VD will put the chapter together and then ask volunteers to commit on reviewing sections. Volunteers for reviewers include C. Balaras, C. Hachem-Vermette, S. Rounis, A. Shore and E. Gaucher-Loksts, R. Khouri, Mahla Behrooz and Mario ElHelou.

Action items:

- VD: Proceed as is with HVAC Applications and Systems & Equipment

- VD: Finalize HVAC Applications in February so voting can occur in March
- VD: Put together Systems and equipment
- VD: Invite Systems and Equipment reviewers to a meeting to commit to reviewing sections and to provide instructions.
- VD: Plan a meeting in May with CB, CK and JM to discuss the plan for analyzing what could go in Fundamentals.
- VD: Resketch the solar transpired collector drawings for HVAC Applications

11. Program Subcommittee meeting report (MP)

- Las Vegas conference:
 - MP: we had proposed 3 programs for this conference (myth busting panel, energy storage seminar and BIPV seminar) and 2 out of three 3 were accepted.
 - KN inquired if we had received any feedback on the rejection of the thermal storage seminar, but MP confirmed that we had not.
 - The Myth busting panel was on Sunday, thanks all panellists. Counted about 80 people attending. Majority of people attending were young engineers.
 - The BIPV seminar is on Wednesday.
- Austin conference:
 - Storage seminar:
 - For the Austin conference, fewer people attend so there are less available speakers. The decision was made to try again for the energy storage seminar. MP communicated with John to see if he, or a colleague, would be able to speak. SM and KN are still able to speak
 - Solar seminar idea: VD proposed developing a second session on solar projects.
 - JM suggested to find people from Texas to attend as speakers, as it would be easier for them to travel to the conference. MP can speak with JM if he has possible topics.
 - YA mentioned that she is an energy manager in Houston and may have solar projects or can possibly find colleagues to attend and present.
 - MC mentioned that she is in the Austin chapter and can help find some speakers as well
 - JM informed that it is important to get co-sponsors for 2.8 and 2.5 and that she can help finding co-sponsors.
 - Geothermal seminar idea:
 - SM mentioned that he can possibly find speakers for geothermal. MP can suggest to the corresponding TC on geothermal.
 - AS mentioned that he can speak on geothermal and can coordinate with SM.

- KN proposed a seminar idea on AI in design and construction as a possible proposal

Action items:

- MP: Reach out to John to try to find a 3rd speak for the energy storage seminar.
- MP: Reach out to MC and YA to schedule a second seminar on solar projects.
- MP: Reach out to geothermal committee for having some TC 6.7 speakers in one of their seminars.
- MP: Submit proposal ideas for February 26.

12. Membership and Outreach (AMS)

- Last webinar was from CK in October 2025.

Action items:

- AMS will reach out to CHV to get a list of the student groups in Concordia to publish out webinars.
- AMS will also coordinate with CHV for a webinar in May.
- Upcoming webinars could include:
 - Case studies (Nick Pederson)
 - Life-cycle cost analysis (Stephen Duda)
 - Acoustics related to renewable energy (Jessie Roy)
 - ASHRAE handbook (Véronique Delisle)

13. Research Subcommittee report (CK)

- MP mentioned that only RTAR was submitted for the current meeting (0 for the previous) and prompted members interested in submitting research ideas to use ASHRAE strategic planning as a guide or reach out to him. MP informed of strong potential for research funding.
- RD attended the research chair breakfast where it was mentioned that a lot of money was available for research encouraging all TCs to get involved. There is an online portal to submit proposals. There is an active effort to streamline and improve the process.
- CK confirmed that the PTAR for Solar PV Design Guide v.2 is on hold.
- CK is working on 2 RTARS in collaboration with TC 7.5 on net-zero carbon buildings. When a draft is ready, he will circulate it to voting members for feedback. TC 6.7 could potentially lead one of the two.
- CB mentioned that the 1988-SP has a survey on LCA needs and gaps. AMS will post on the LinkedIn and VD will send an email to the TC members.
- AS and EGL attended the ASHRAE 90.1 meeting, but it was more policy-related. They did not see a linkage with TC 6.7.

Action items:

- All: if anyone has ideas for research proposals on solar and other renewables, they can contact CK or RD.
- AMS: post 1988-SP survey link to TC 6.7 LinkedIn.
- VD: send an email to the TC members with the link to the survey.

14. Standards subcommittee (VD)

- TC 6.7 is not the lead on any active standard (Std 93 2010 and Std 95 1981 have been removed).

15. Web Page Update (SM)

- SM informed that the webpage is up to date and asked to notify him if something is missing.
- VD noticed that in other TCs, the webmaster updates the roster and Basecamp. When we find a new person, this person can have this responsibility as well. VD will figure out how the permissions work and update the Basecamp permissions according to the roster.
- Webinars: CB indicated that it is not easy to find webinars on the website maybe better to change the place. CB & AMS suggested to put them under Functions -> Other Activities.
- AMS proposed to add links to the LinkedIn page and YouTube page on the front page under Additional information.
- FAQ: CB pointed out that we have only 1 FAQ and proposed that everyone comes up with at least 1 FAQ.

Action items:

- VD: figure out how the permissions work and update the Basecamp permissions according to the roster.
- VD: coordinate changes on webpage with SM and MC
- VD: coordinate document for people to add their FAQ for the web page.
- All: add some FAQs suggestions to the document shared by VD for the web page.

16. Old Business

No old business

17. New Business

No new business

18. Adjournment

Motion to adjourn moved by CB seconded by JM

Meeting adjourned at 3:56 PM

Summary of action items

- MP
 - Contact CEC to propose *Renewables in the built environment* as a future track idea.
 - Reach out to John to try to find a 3rd speaker for the energy storage seminar.
 - Reach out to MC and YA to schedule a second seminar on solar projects.
 - Reach out to geothermal committee for having some TC 6.7 speakers in one of their seminars.
 - Submit proposal ideas for February 26.
- VD
 - Plan a meeting with SM and MC to plan the transition.
 - VD will update the roster according to the listed changes
 - Proceed as is with HVAC Applications and Systems & Equipment
 - Finalize HVAC Applications in February so voting can occur in March
 - Put together Systems and equipment
 - Invite Systems and Equipment reviewers to a meeting to commit to reviewing sections and to provide instructions.
 - Plan a meeting in May with CB, CK and JM to discuss the plan for analyzing what could go in Fundamentals.
 - Resketch the solar transpired collector drawings for HVAC Applications
 - VD: send an email to the TC members with the link to the survey (1988-SP).
 - Figure out how the permissions work and update the Basecamp permissions according to the roster.
 - Coordinate changes on webpage with SM and MC
 - Coordinate document for people to add their FAQ for the web page.
- JM
 - Contact Marija Todorovic to inform her that CK will be the interim standards committee chair.
- CK
 - Meet RD to transition the research chair position.
- AMS
 - Reach out to CHV to get a list of the student groups in Concordia to publish out webinars.
 - Coordinate with CHV for a webinar in May.
 - Post 1988-SP survey link to TC 6.7 LinkedIn.
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- All:
 - If anyone has ideas for research proposals on solar and other renewables, they can contact CK or RD.
 - Add some FAQs suggestions to the document shared by VD for the web page.