

ASHRAE TC 6.9 – Thermal Storage – 2025 Hybrid Winter Meeting Agenda

Orlando, Monday, February 10, 2025
4:00PM – 6:00 PM ET

Preliminaries

(5 min)

1. Call to Order - (TC Chair – Daniel Pyewell)

Purpose Statement:

TC 6.9 is concerned with the storage of thermal energy for use in heating and/or cooling and with charging or discharging this energy at a controllable rate. The TC collects and disseminates information on storage processes, materials, containers, components, systems and costs as well as on analytical methods for evaluating and predicting storage performance.

2. ASHRAE Code of Ethics Commitment – (TC Chair – Daniel Pyewell)

In this and all other ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, integrity and respect for others, and we shall avoid all real or perceived conflicts of interests. (See full Code of Ethics: <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>.)

Meeting Housekeeping Items:

Please ensure you sign in via the attendance sheets that are being circulated.

All virtual participants, please mute your microphone unless speaking.

3. Introduction/ Attendance – (TC Chair – Daniel Pyewell)

- a. Secretary for the meeting (Kyle Gluesenkamp) to take attendance via the membership roster, attendance sheets, and from the online Teams meeting attendance list.
- b. Member and Guests Introductions and Sign in
 - i. Please state your name, company/ location, and position on the committee
- c. Establish a Quorum, Review of Current Voting Members, and TC 6.9 Officers (Ref. Manual of Procedures – 3.2.2, 2.13, 2.14, & 2.15)

	Members	Role		Roll Off
1	Daniel Pyewell	Chair/ Webmaster	VM	2025-06-30
2	Emishaw Iffa	Vice Chair	VM	2027-06-30
3	Kyle Gluesenkamp	Secretary	CM	
3	Bruce Lindsay	Program Subcommittee Chair	CM	
4	John Nix	ALI Coordinator	CM	
6	Charles Booten		VM	2025-06-30
7	John F Dunlap	Standards Subcommittee Chair	VM	2025-06-30
8	Hooman Arjmand		VM	2025-06-30
9	Geoff Bares		VM	2028-06-30
10	Mike Filler		VM	2027-06-30
11	Amy Van Asselt		VM	2025-06-30
12	Jason Woods	Research Subcommittee Chair	CM	
14	Navin Kumar	Handbook Subcommittee Chair	CM	

- d. Discuss recruiting of new members and officers to this Technical Committee (TC 6.09). To become PCM, access "Join TC 6.9" under Membership on T.C. webpage

4. **Approval of Minutes** (2 min)
Hybrid Winter Meeting 2024 in Chicago
Hybrid Summer Meeting 2024 In Indianapolis
5. **Announcements by Chair – Daniel Pyewell** (3 min)
Section 6 Virtual Breakfast
6. **Liaison Reports** (10 min)
 - a. TAC Section 6 Head – Doug Reindl
 - b. Training and Education Committee (TEC) – John Nix
 - i. Look at development of E-class
 - c. TC 2.5 Global Climate Change – John Nix
 - d. STD 90.1 – Amy Van Asselt
 - e. IDEA – John Andrepont
 - f. LEED v5 – Ian LaHiff
7. **Standards – John Dunlap** (10 min)
 - a. Std. 150-2000
 - b. Std. SP 233P
 - c. ASME TES-2-200X
 - d. AHRI 900-2014
 - e. 94.1, 2, and 3 (withdrawn) standards use for tax code – Reda Djebbar and Brent Kovash
 - f. Proposed New Standards
8. **Programs – Bruce Lindsey** (10 min)
 - a. Review Past Programs
 - b. Review Current Programs
 - c. Discuss Future Programs
 - d. T.C. 6.9 Hall of Fame new entries
9. **Handbook – Navin Kumar** (10 min)
 - a. 2024 HVAC Systems & Equipment Handbook Revision (reaffirmed)
 - b. Plan for this coming year (2028 update):
 - i. Include new content from Henry Becker on water quality

- ii. Other potential new content from Frazin and William Davies on geothermal borehole technology?
- iii. Establish review team to review all content and comments – arrange this year
- iv. Develop schedule for next two years

10. Research – Jason Woods

(15 min)

- a. Paulo Tabares has resigned as Chair, and we thank him for all of his efforts
- b. RTAR – Quantifying carbon savings from TES, how to simplify the analysis
- c. Future ideas for potential RTARs:
 - T.C. 8.11 expressed desire for standard on how TES could be integrated with heat pumps
 - i. Quantifying benefits from TES (ongoing efforts at national labs)
 - ii. Any other new ideas, please forward along to Jason Woods

11. Long Range Planning/Website –Daniel Pyewell

(10 min)

- a. Stan Nabozny has volunteered to take over webmaster role
- b. Membership – 20 new PCMs have joined the T.C. since the winter meeting.
- c. Voting Members – Daniel Pyewell, Chuck Booten, John Dunlap, Hooman Arjmand, and Amy Van Asselt roll off after summer meeting. We need 5 volunteers for VMs to backfill and maintain a roster of 8.

12. Honors and Awards – Blake Ellis

(5 min)

13. Old Business

(5 min)

- a. ORNL update on Energy Plus Support for TES – Emishaw Iffa
- b. USACE Paper from Alexander Applicability of Large Thermal Energy Storage
 - i. Approved by Publications Committee to publish as Guideline. Moving forward with 2nd round of approval, so guideline will hopefully be printed soon.
- c. Stor4Build Status Update – Kyle Guesenkamp
- d. Effort for creating stand-alone publication for addressing IRA Tax Credits
 - i. Dog this effort off to let things settle with new administration and tax interpretations
- e. DTG (Decarbonization Task Force) – Bruce Lindsay
 - i. Any response or feedback to reaching out?

14. New Business

(10 min)

- a. Chuck Booten – question on when does geothermal storage become thermal storage?
- b. Mike Filler – update on 48E tax credits
- c. Proposed US-EU Battery Project from USTR/ ANSI
 - i. Should T.C. 6.9 formally participate? If so, anyone to volunteer to become a liaison.
 - ii. Collective response in subcommittee meeting is that there was not enough information provided in order for the T.C. to make a proper decision. Chair Pyewell has reached out to TAC leads to see what further information is available to disseminate for further consideration.
- d. Annual review and vote on status of T.C. 6.9:
 - i. Continue as an FG
 - ii. Merge with an FG and submit a revised scope for the merged FG
 - iii. Dissolve the FG
 - iv. If an FG votes to disband, it must establish whether any current responsibilities should be continued

15. Adjourn