

Meeting Minutes
TC 6.2 District Energy
Main Committee Meeting
Winter Conference (February 9th, 2025)

<https://tc0602.ashraetcs.org/>

Attendees

5 Voting Members

Need Minimum 3 Voting Members Present to Meet Quorum

Name	Position	Voting Status	Present
Mr. Timothy Anderson	Chair	Voting	Yes
Mr. Daniel Pyewell	Vice Chair	Non-Voting	Yes
Mr. Charles Bertuch	Secretary	Non-voting	
Mr. Geoff Bares	Programs Subcommittee Chair	Voting	Yes
Dr. Wangda Zuo	Research Subcommittee Chair	Non-Voting	Yes
Gary Phetteplace	MTG.ASEC	Voting	Yes
Bill Ryan	Member	Voting	Yes
Alan Neely	Membership Chair	Voting	Yes
Dr. Jamie Fine	Research Subcommittee Co-Chair	Non-Voting	Yes
Ms. Elizabeth (Betsy) Goll	Handbook Subcommittee Chair	Non-Voting	Yes
Mr. Steven Tredinnick	Member	Non-Voting	Yes
Mr. Brad Chen	Prov Corresponding Member	Non-Voting	Yes
Mr. John Andrepont	IDEA Liaison	Non-Voting	Yes
Mr. Rob Thornton	Corresponding Member	Non-Voting	Yes
Mr. John Steinbergs	Guest	Non-Voting	
Mr. Doug Reidl	TAC Head – Section 6	Non-Voting	Yes
Mr. Wayne Borrowman	Prov Corresponding Member	Non-Voting	Yes
Ms. Ok Kim	Corresponding Member	Non-Voting	Yes
Mr. Patrick Villaume	Prov Corresponding Member	Non-Voting	Yes
Dr. Kathryn Hinkelman	Prov Corresponding Member	Non-Voting	Yes
Mr. Benjamin Bugenhagen	Guest	Non-Voting	Yes
Mr. Reece Fuchs	Guest	Non-Voting	Yes
Mr. Will Randby	Guest	Non-Voting	Yes
Ms. Isabelle Lavoie	Guest	Non-Voting	Yes
Mr. Tim McDowell	Corresponding Member	Non-Voting	Yes
Mr. Hassan F. Ali Younes	Corresponding Member	Non-Voting	Yes
Scott Hellendrung	Guest	Non-Voting	Yes
Medhi Jalayerian	Guest	Non-Voting	Yes
Todd Bradhauer	Guest	Non-Voting	Yes
Paul Glanville	Corresponding Member	Non-Voting	Yes
Dhyan Dharmesh Patel	Guest	Non-Voting	Yes
Rich Kooy	Guest	Non-Voting	Yes

Robert Bean	Guest	Non-Voting	Yes
Joe Chow	Prov Corresponding Member	Non-Voting	Yes

1. Call to Order: (TC Chair-Tim Anderson): 3:30 PM
 - a. Technical Committee 6.2 is concerned with district energy technology and integrated systems that provide one or more forms of thermal energy or a combination of thermal energy and electric power from a central plant(s) to meet the heating, cooling, or combined thermal energy and power needs of end-users in two or more structures. The TC collects and disseminates information on regional resource planning including the design, performance, economic analysis, operation and maintenance of central plants, distribution networks, and consumer limited to materials, construction methods, heat transfer, fluid flow, and measurement. The scope of the TC includes the development and assessment of associated technologies for energy use sections.
 - b. ASHRAE Code of Ethics Statement was recited.
2. Five (5) voting members were present on the attendance list. Quorum was met.
3. Introductions/Attendance taken:
 - a. Secretary for the meeting to take attendance (Tim Anderson), via the membership roster, attendance sheets, and online Team's meeting. Attendance was taken and attached (paper sign-in).
4. Approval of Minutes from the Indianapolis hybrid meeting (posted to Base Camp) by the Chair
 - a. After review, it was noted the voting member count for TC6.2 is five (5).
Elizabeth Goll – Motioned to Approve with one change
G Bares - Seconded
Approved 5-0-0 CNV
5. TC Breakfast Report: Tim Anderson
 - a. CEBD (Center for Excellence for Building Decarbonization) Updates
 - i. This is being developed.
 - b. ISO Workshop, 2024 September
 - i. ASHRAE survey of region chairs
 - ii. IAQ, energy and ventilation are among the highest used.
 - iii. ISO/TC combined standards in play
 1. BIM
 2. Energy
 3. Refrigeration
 4. Thermal Envelope
 5. Others
 - c. Publications
 - i. ASHRAE is Exploring a Tech paper diagram to publish in ASHRAE
 - ii. Meant to help streamline the process.
 - d. ASHRAE Fellow
 - i. Show distinction
 - ii. Substantial Contribution to the industry both in ASHRAE and in the workplace

- iii. Supply an application to the committee
- e. TC Roster Updates
 - i. Chair/VC must be ASHRAE members
 - ii. Must start as a PCM
- f. Fed Employees have been asked to not participate in conferences.
 - i. Many have not come to the conference
- g. Technical papers are in the single digits per conference now and may be eliminated.
 - i. Conference papers
 - ii. ASHRAE journal papers
 - iii. Still available as a path to get out an idea.
- h. Government Affairs
 - i. There is a need for subject matter experts to assist departments with “what does this mean” types of questions.
- 6. Sub-Committee Reports:
 - a. Handbook: Elizabeth Goll (Chair)
 - i. Chapters 12 and 15 turned into the Handbook Committee for review. On track for next publication. On-line Publishing deadline is TBD.
 - ii. Next order of business will be to start on District Heating Guide. Last updated in 2013. District Cooling Guide (2019) will follow.
 - b. Membership: Alan Neely (Chair)
 - i. TC 6.02 membership health is good (made quorum this meeting.
 - ii. New members were welcomed: Adewumi Adepoju, Curtis Spraggins, Mehdi Jalayerian, Jaimee Wilson, Behnam Sadri, Isabelle Lavoie, Jeekesh Arora, Ok Kim, Hermes Silva and King Tung
 - c. Program: Geoff Bares (Chair)
 - i. This conference: Seminar 35 is co-sponsored in Orlando.
 - ii. Seminar application - “Practical Considerations in DE electrification”. We received interest from Indiana University, but no interest from Purdue. A submission could not be completed for the 2024 annual conference.
 - iii. Future Seminars:
 - 1. Co-sponsor potential with TC9.1 - HVAC System under sizing or oversizing (or perhaps “rightsizing”): How much is too much?” Dennis Wessel and TC6.01 co-sponsorship Looking for Orlando Seminar. 2-3 speakers. Maybe try later.
 - 2. Seminar Application – “DE and use of WWT plant effluent for heat sink” Miami-Dade Co water use reduction. Interest but not enough to complete a seminar application.
 - 3. Orlando tracks
 - a. Thermal storage. OU Cooling is providing a tour for Orlando.
 - b. Future proofing the Built Environment.
 - iv. Future Tours? Potential in Pheonix, AZ. Two potential DE system operate in the Pheonix area. Will investigate further.
 - v. Discussion ensued about the need for steam fundamentals in ASHRAE. This topic is not getting seminar attention; yet the need for draining is getting acute. Still a lot of steam systems out there on campuses and not enough people understanding how DE works. Possible routes to get IDEA training sessions through an ASHRAE webinar could be an avenue for learning steam.
 - d. Standards: This TC does not have a Standard to maintain. Alan Neely was added to complete the Roster

Submission.

- e. Webmaster: Jayson Bursill (Chair): No report.
 - f. Research: Wangda Zuo (Chair) and Jamie Fine (Co-Chair) Reporting
 - i. Banking of Cold in CHW Loop – Sent work statement to the RAC liaison. Actively working on the RAC comments. Goal is to have the final draft by Feb 10, 2025 for committee review. TC co-sponsoring to research? Potentially TC6.09 and/or TC6.04.
 - ii. Co-funding was discussed. IDEA president was in the meeting. Will investigate further.
 - iii. (Reported by Gary Phetteplace) Update on a co-sponsored research opportunity with TC6.8 – Adequate flushing velocities in hydronic systems. A time extension is needed.
7. Visitors & Liaison Reports/Information from other Committee Representatives
- a. DOE- Position open, Richard has retired.
 - b. IDEA- John Andrepoint: Upcoming events
 - i. 116th Annual Conference, June 2-5, 2025 – Minneapolis, MN
 - ii. Cooling Conference in Dubai, UAE December 8-10, 2025
 - iii. 39th Annual Campus Conference, February 17-20, 2026 – Washington, DC.
 - iv. 117th Annual Conference, June 2026 – Ottawa, CA.
 - c. Building Decarbonizing Task Force – Alan Neely.
 - i. No report.
 - d. Publications
 - i. Publications Committee respectfully requests your input on possible topics, authors and reviewers for future ASHRAE Journal articles. It is our goal to enhance ASHRAE Journal's reputation is the preeminent publication in our industry. Each of you are most in tune with what our members are looking for to further their knowledge base. With this in mind, if you could respond with a topic or two with suggested authors and reviewers it would be greatly appreciated.
 - e. TC's Represented in the meeting
 - i. 6.1 – Hydronic & Steam Heating Equipment and Systems
 - ii. 6.9 – Thermal Energy Storage. Committee meeting is Monday @ 4:00 PM. Zhivov's paper was published as a guide.
 - iii. 6.4 – used to be 1.10 Combined Heat and Power changed to Section 6
 - iv. 8.3 – Absorption and Heat Operated Machines meeting is Tuesday @ 8:00 AM. Two seminars are sponsored in Orlando.
 - f. TAC 6 Head (Doug Reidl) – There is a plan in place to change the process of publishing papers. Tech papers may go away. Conference papers and articles are still a viable option.

8. Old Business

- a. Potential new standard – Acceptable Performance Standard for District Cooling Systems. Just recently made SPC 245. A committee is formed, chaired by Ryan Shanley rshanley@ashrae.org, and looking for committee members. Next committee meeting will be online on February 21, 2025.

9. New Business

- a. There is a potential research project getting started with funding already committed by Empower. The

scope of the research is to look to the next generation of DE system. Steve Hammerling shammerling@ashrae.org , is starting to form the work statement and looking for volunteers.

- b. Alan Neely reported. Special recognition is given to John Andrepont who has been lifted to ASHRAE Fellow. Congratulations!
- c. Alan Neely noted there is a Fellow workshop for those interested in providing recognition for those who brought their time and talent to ASHRAE over the years.
- d. Several positions will open up for the 2025-26 Roster. Contact Tim Anderson if you're interested in serving any positions on this TC. Ok Kim expressed interest in the programs subcommittee chair. Patrick Villaume expressed interest in the secretary position. Kathryn Hinkelman expressed interest in being the TC webmaster.
- e. T.C. is now on basecamp!

10. Thank you for serving on TC 6.02 and volunteering for ASHRAE!

11. Motion to Adjourn by Alan Neely. Seconded by Gary Phetteplace. Motion carried.

12. Adjourn at 5:38 PM