

Meeting Minutes
TC 6.2 District Energy
Main Committee Meeting
Annual Conference (June 23rd, 2024)

<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
Mr. Mohamed Alagraa	Prov Corresponding Member		
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. Michael Langton	Corresponding Member	Non-Voting	
Mr. John Andrepont	IDEA Liaison	Non-Voting	Yes
Mr. Mahabir Bhandari	Prov Corresponding Member	Non-Voting	Yes
Mr. Gunther Berthold	Guest	Non-Voting	Yes
Mr. Matt Mullen	Research Liaison	Non-Voting	
Mr. David Searcy	Guest	Non-Voting	Yes
Mr. Wayne Borrowman	PCM	Non-Voting	Yes
Mr. Mohamed Ibrahim	Guest	Non-Voting	Yes
Mr. Alok Kumar	Guest	Non-Voting	Yes
Mr. Andreas Hoess	Guest	Non-Voting	Yes
Mr. Riley Barta	Guest	Non-Voting	Yes
Mr. Keiron Dharmanash Nanan	Guest	Non-Voting	Yes
Ms. Ok Kim	Guest	Non-Voting	Yes
Mr. Lam Uhung	Guest	Non-Voting	Yes
Mr. Bashar Nasir	Guest	Non-Voting	Yes
Mr. Alec Cusick	Guest	Non-Voting	Yes
Mr. Mahabir S. Bhandari	Guest	Non-Voting	Yes

Mr. Nan Chen	Guest	Non-Voting	Yes
Mr. Michael Huylo	Guest	Non-Voting	Yes
Mr. Thomas Holmsted	Guest	Non-Voting	Yes
Mr. David L. Handwork	Guest	Non-Voting	Yes

1. Call to Order: (TC Chair-Tim Anderson): 3:30
 - 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. It was noted that the Secretary has asked to step down from this position. Charles is taking on a Region role in ASHRAE, and had a conflict with TC6.02's meeting.
 - b. 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 Chicago hybrid meeting (posted to Base Camp)

D Pywell – Motioned to Approve without comments
 G Bares - Seconded
 Approved 7-0-0 CNV
5. TC Breakfast Report: Tim Anderson
 - a. CEBCD(Center for Excellence for Building Decarbonization) Updates
 - i. Mr. Devon Aballon
 - ii. Task Force for Decarb
 - iii. Support new ideas to deliver
 - iv. SP-143/44/45 are examples of the results
 - v. Decarb district energy system guide
 - vi. Seminars for chapters available.
1. GTIC (Global Technical Interaction Committee)
 - a. Started 2023-34
 - b. ISO is getting involved
 - i. Nations are members
 - ii. ITU – telecom standards
 - iii. Also related to the electrical grid
 - iv. ANSI is represented by US.
 - v. TAG's are how interactions come together
 - vi. ASHRAE serves as Secretariat to five UG TAGs

1. Energy standard
 2. IAQ standard
 - b. Residential Building Committee Getting formed.
 - c. RTAR process summarized. Late Fall 2024 is the next work statement deadline.
6. Sub-Committee Reports:
- a. Handbook: Elizabeth Goll (Chair)
 - i. Chapters 12 and 15 proofs currently in process. There is a last review possible at some point. 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). TC consolidation of some committees seems to have worked.
 - ii. New members were welcomed.
 - c. Program: Geoff Bares (Chair)
 - i. This conference: Indianapolis, Citizens Thermal Chilled Water Plant Tour is scheduled for Monday afternoon.
 - ii. Seminar application - "Practical Considerations in DE electrification". We received interest from Indiana University, but no interest from Purdue. Was not able to complete a submission 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 a Cleveland potential for Orlando?
 2. "DE and use of WWT plant effluent for heat sink" Miami-Dade Co water use reduction.
 3. Orlando tracks
 - a. Thermal storage
 - b. Future proofing the Built Environment.
 - iv. Future Tours? Potential in Orlando for Winter 2025. Will investigate further.
 - 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)
 - i. Banking of Cold in CHW Loop – RTAR was submitted and approved with comments: Work Statement is the next step. Deadline is in late fall 2024. Date not determined.
 - ii. Need group to develop: work statement with references to other work; statement of Work of what the research work will undertake; deliverables; (3) bidders; other potential funding (IDEA). After completion will submit to RAC. If approved RFP will be developed and then forwarded to the Project Evaluation Committee.
 - iii. Empower/UAE research district cooling system to use less water. Art Geisler.
 - iv. Illinois Commerce Commission wants to promote district energy networks in Illinois, research on potential heat sources, mapping.

7. Visitors & Liaison Reports/Information from other Committee Representatives

- a. DOE- Position open, Richard has retired.
- b. IDEA- John Andrepont: Upcoming events
 - i. 38th Annual Campus Energy Conference – February 3-6, 2025 – Boston, MA
 - ii. 116th Annual Conference, June 2-5, 2025 – Minneapolis, MN
 - iii. 39th Annual Campus Conference, February 2026 – near Washington, DC.
 - iv. 117th Annual Conference, June 2026 – Ottawa, CA.
- c. Building Decarbonizing Task Force – Alan Neely.
 - i. A Decarb Task Force conference is scheduled – Early 2025.
- 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 as 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. 6.0 – Thermal Energy Storage. Committee meeting is Monday @ 4:00 PM. Alexander's paper has been published.
 - iii. 8.3 – Absorption and Heat Operated Machines meeting is Tuesday @ 8:00 AM.

8. Old Business

- a. Potential new standard – Acceptable Performance Standard for District Cooling Systems. Steve Tredinnick - Title purpose and scope was submitted to the executive committee.

9. New Business

- a. Mohamed Alagraa has expressed interest in participating as a voting member. We will update the Roster at the next available time (March 2025).
- b. Contact Tim Anderson if you're interested in serving any positions on this TC. Patrick Villaume expressed interest in the secretary position.
- c. T.C. is now on basecamp! If not added in group, please follow up with Tim Anderson.

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

11. Motion to Adjourn by Geoff Bares. Seconded by Bill Ryan. Motion carried.

12. Adjourn at 5:20

MEETING SIGN IN SHEET

Meeting Title: TC6.02 District Energy

Organizer: ASHRAE

Location: Indianapolis, IN

Date:
6-23-2024
Time:
3:30 PM EDS

Name of Attendee	Organization	Phone Number	Email
Tim Anderson, Chair	Applied Engineering	317 443-5342	tanderson@applied-engineering.com
Gary Phetteplace	GWA Research	603-795-4920	garyp@gwa-research.com
Bill Rye	UIC	630-561-4448	wryan@uic.edu
PATRICK VILLANUE	PATTERSON-KELLEY	570 994 3025	PATRICK.VILLANUE@PSU.EDU
Hamid Azarnoush	Technical Safety BC	778 583 0154	hamid.azarnoush@technical-safety-bc.ca
OK KIM	Grundfos	465 9831 7503	okim@grundfos.com
Elizabeth Goli	Engineer	305.588.3945	ELIZABETH.GOLI@ENGINEER-INTERNATIONAL.COM
Wangda Zhuo	Penn State	765-430-4114	Wangda.Zhuo@psu.edu
David Searce	Ernstek International	(484) 332-8054	david.searce@erstek-international.com
Gunter Berthold	Beckett Thermal Solutions	+39 380 1814270	gunther.berthold@beckettthermal.com
Niraj Kunwar	Oak Ridge National Laboratory	515 686 7513	kunwar1@ornl.gov
ALOK KUMAR	NIKAT	301 770 3520	AKUMAR@NAKA SOLUTIONS.COM
ANDREAS HOESS	PURDUE UNIVERSITY	765-772 5430	AHOESS@PURDUE.EDU

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