

Meeting Minutes
TC 6.2 District Energy
Main Committee Meeting
Winter Conference (January 21st, 2024)

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

Attendees

6 Voting Members

Need Minimum 4 Voting Members Present to Meet Quorum

Name	Position	Voting Status
Mr. Timothy Anderson	Chair	Voting
Mr. Daniel Pyewell	Vice Chair	Non-Voting
Mr. Charles Bertuch	Secretary	Non-Voting
Mr. Geoff Bares	Programs Subcommittee Chair	Non-Voting
Dr. Wangda Zuo	Research Subcommittee Chair	Non-Voting
Gary Phetteplace	MTG.ASEC	Voting
Bill Ryan	Member	Voting
Alan Neely	Membership Chair	Voting
Dr. Jamie Fine	Research Subcommittee Co-Chair	Non-Voting
Mr. Mohamed Alagraa		
Ms. Elizabeth (Betsy) Goll	Handbook Subcommittee Chair	Voting
Mr. Nick Xu	Prov Corresponding Member	Non-Voting
Mr. Steven Tredinnick	Member	Non-Voting
Mr. Brad Chen	Prov Corresponding Member	Non-Voting
Mr. Michael Langton	Corresponding Member	Non-Voting
Ms. Saranya LNU	Guest	Non-Voting
Mr. Tom Olmsted	Corresponding Member	Non-Voting
Mr. John Andrepont	IDEA Liaison	Voting
Mr. Doug Reidl	Section 6 Head	Non-Voting
Mr. Andrew Dubel	Guest	
Mr. Ken Warren	Guest	
Mr. Mahabir Bhandari	Prov Corresponding Member	Non-Voting
Mr. Jyolismay Mathis	Guest	
Mr. Matt Mullen	Research Liaison	Non-Voting
Mr. Patrick Villaume	Guest	
Mr. Wayne Borrowman	PCM	Non-Voting
Mr. Mohamed Ibrahim	Guest	
Mr. Lucas Rae	Guest	
Mr. Matt Walters	Guest	
Mr. Darren Smith	Guest	
Mr. Michael Huylo	Guest	
Mr. Lam Yu Hung	Guest	
Mr. Steven Salomon	Guest	

1. Call to Order: (TC Chair-Tim Anderson): 3:32
 - 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.
2. Approval of Minutes from Tampa Bay hybrid meeting (posted to Base Camp)
E Goll – Motion to Approve
D Pywell – Second
Approved 6-0-0 CNV
3. TC Breakfast Report: Alan Neely
 - a. Decarbonization Update: Hoping to have decarb workshop in DC, outside US every other year. Hoping to get more students involved. \$100 scholarship available. New guidelines are based on vertical markets. Five remaining to be published within next 5 months. Have published Building Performance Standards and Grid Interactive Buildings. More emphasis being placed on Total Carbon Embodiment. Hoping to do benchmarking.
 - b. 2024 Annual Meeting: 179 applications for seminars; 124 applications for paper sessions. 90 were accepted.
 - c. TAC asks that TC Rosters are updated.
 - d. GAC – Government activities on the rise, but more interaction needed at Chapter level.
4. Sub-Committee Reports:
 - a. Handbook: Elizabeth Goll (Chair)
 - i. Chapters 12 and 15 proofs expected in March, to be published on-line in June.
 - ii. Next order of business will be to start on District Heating Guide. Betsy to chair. Charles Bertuch and Gary Phetteplace volunteer to help contribute.
 - 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. District Energy ties several technologies together and should remain independent.
 - ii. New members were welcomed.
 - c. Program: Geoff Bares (Chair)
 - i. Subcommittee meeting notes attached.
 - ii. Co-Sponsoring ASHRAE Seminar 8, AHR Expo Session 1; Celebrating 30 years of Thermal Storage.
 - iii. Indianapolis seminars will include Electrification: Possibilities and Pitfalls.
 - iv. *Future program submission may include:*
 1. *European Experience with Heat Pumps and District Heating*
 2. *Boston “Green Steam” Plant (G Phetteplace will reach out)*
 3. *Practical Considerations of District Heating*

- v. *E Goll: Motion to have TC 6.02 sponsor session in Orlando*
B Ryan: Second
Approved 6-0-0 CNV
- vi. *Dennis Wessel asked in TC could co-sponsor session with TC 9.1 – Maintenance and Operations.*
- vii. *Jamie Fine will reach out for contact at Toronto District Energy System.*
- viii. *Looking for potential tour for Orlando conference (Disney?)*

d. Standards: This TC does not have a Standard to maintain.

e. Webmaster: Jayson Bursill (Chair): Will remain in position for another year.

f. Research: Wangda Zuo (Chair) and Jamie Fine (Co-Chair)

- i. Banking of Cold in CHW Loop – RTAR was submitted and approved with comments: Can additional funding be provided from Industry Partner; How will the results be transferable to other sites?
- 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.
- v. Vancouver BC using low grade waste heat from sanitary sewers. cleaned effluent used as source. Miami, 74-84 effluent heat sink for water source heat pumps.
- vi. Garry Phetteplace provided an update on RP 1890: adequate flushing velocities in hydronic systems. Have drawn up test apparatus. Industry partner Purge Right has been bought out, their involvement has slowed.

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

a. DOE- Richard Sweetser: No update

b. IDEA- John Andrepont:

- i. February 2024: Campus DES meeting in San Fransisco.
- ii. June 2024: Annual conference in Minneapolis.
- iii. There are (5) systems in Orland that could serve as tours in Orlando.
- iv. Someone will reach out to Jason Beal at IDEA about co-sponsorship of pre-cooling RTAR.

c. ANSI/CSA/IGSHPA C448 Standard (Jessica Mangler, Lisa Meline, Steve Tredinnick, Gary Phetteplace)

- i. Gary Phetteplace: Work still ongoing. Progress being made on standards for District Scale Geothermal; Centralized vs. Decentralized Heat Pumps; tepid water. Working on General Section, call upcoming on Pipe Insulation.
- ii. Steve Tredinnick: District Energy is just a small, but important part of the overall standard.

d. TAC Section Liaison (Doug Reindl)

- i. Most of report covered in TC Breakfast report. Society is asking that all TC members provide feedback on potential goals and objectives that can be incorporated into new Strategic Plan. <http://strategicplanfeedback.ashrae.org>
- ii. TAC has been looking at ways to reach out to more members.
- iii. TAC suggests (4) key work search terms for each TC.
- iv. MTG is looking at ways to use AI to harness all ASHRAE information.
- v. Would like to see members directed to ways to get involved based on their expressed areas of interest.

e. 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.

- ii. Stephen Kavanaugh

1. ASHRAE Publications Liaison
2. Stephen is looking for any considerations in publications, or articles for journal. If any interest, please let the chair know and he will get them in touch with Stephen.

6. Old Business

- a. Globally there is a push to maximize heat recovery, North America lags behind. Proximity to heat hosts often limits utilization. May be good opportunity for District Energy.

7. New Business

- a. T.C. is now on basecamp! If not added in group, please follow up with Tim Anderson.

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

9. Adjourn at 5:15