

Technical Committee Meeting Minutes
TC 6.02 District Energy
Monday, 2021-01-11, Remote Zoom (~~Chicago, IL~~)

TC 6.02 District Energy – Meeting
Monday, 4:00 pm – 6:00 pm, Remote Zoom (~~Chicago, IL~~)

Voting Committee Members Present:

Name	Position	Voting Status
Ms. Jessica Mangler	Chair	Voting
Mr. Daniel Pyewell	Vice Chair / Webmaster	Voting
Mr. Michael Calabrese	Secretary	Voting
Ms. Timothy Anderson	Program Subcommittee Chair	Voting
Mr. Steven Tredinnick	Outgoing Handbook Subcommittee Chair	Voting
Ms. Elizabeth (Betsy) Goll	Handbook Subcommittee Chair	Voting

8 Voting Members and 0 Non-Quorum Voting Members
Need minimum 5 Voting Members Present to meet Quorum

1. The Chair (Jessica Mangler) Called to Order at 4:00 pm and discussed -

Technical Committee (TC) 6.02 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. ASHRAE Code of Ethics Commitment – Announced by TC Chair (Jessica Mangler)

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 interest. (see full code of ethics: <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>.)

3. Introductions / Attendees

- A. Name, company/location, & position on committee.
- B. Attendance was taken
- C. Review of Current Voting Members and TC officers, Quorum is met.
 - i. Ref. Manual of Procedures – 3.33, 2.13, 2.14 & 2.15
- D. Note that with our international voting member, it allows the TC to have one less individual to meet quorum.
- E. Alec Cusick (Membership Subcommittee Chair) expressed an inconsistency in the June 2020 meeting minutes. Two non-voting members were listed to be voting members, at this time. The paperwork needs to be complete to assign new voting members
- F. Recruiting of new members and officers for this technical committee (TC 6.02) were discussed. Alec and Jessica to reconcile the TC's membership list with voting membership.

4. Meeting Minutes

- A. Alec Cusick (Membership Subcommittee Chair) expressed an inconsistency in the June 2020 meeting minutes. No changes are required due to documentation of events at meeting.
- B. Request was made by Webmaster to remove the "Draft".
- C. June 17, 2020, Virtual Annual meeting
 - i. Motion to approve by Steve Tredinnick, seconded by Tim Anderson, Daniel Pyewell ye, Michael Calabrese ye, Betsy Goll ye, chair (Jessica Mangler) abstains.

5. Recognition of Liaisons – NONE PRESENT

6. TC Breakfast Report

- A. Chair provided an overview. See the attached report.

7. Sub-Committee Reports:

- A. Programs: Tim Anderson (Subcommittee Chair)
 - i. Potential TC 6.8 co-sponsored program
 - ii. Decarbonization Topics are preferred
 - iii. Submission due date is February 18th for consideration
 - iv. It was suggested that a lessons learned for these type of systems can be valuable. This should be considered.
 - (1) Tim (chair) suggests we submit Steam education topics related to District Energy.
 - (2) Chair has action item to investigate and coordinate.
 - v. Steve Tredinnick suggested reaching out to TC 6.1 for sponsorship and potential speakers.
 - vi. Seminar submission for 2022.
 - vii. Program idea to follow up, interest in connection to a hospital with chilled water and such as heat pump for thermal heat recovery for LEED points.
 - viii. Chair requested further development after this meeting.
- B. Research: None, Chair not present
- C. Handbook: Betsy Goll (Subcommittee Chair)
 - i. 2 Chapters were released in the last Application Handbook "District Heating and Cooling" and "High and Low-Temperature Heating".
 - ii. TC 6.8 Geothermal, applying technology to district energy systems.
- D. Membership: Alec Cusick (will be the upcoming Subcommittee Chair for Summer 2021 meeting)
 - i. Alex discussed about roster updates for the future meetings will be organized.
- E. Standards: (No Subcommittee Chair)
 - i. No active standards are associated with this TC 6.2.

- 8. Visitors and Liaison Reports/Information from other Committee Representatives**
- A. TC 6.1: Chair will update with current TC 6.2 plans at the upcoming TC 6.1 meeting.
 - B. TC 6.8: Discussion about update on memo of understanding with NYSERDA & ASHRAE. Preliminary educational topics are the reviewed.
 - C. Daniel Levy from NYSERDA provided an update on the upcoming solicitation PON4614, re District Heat Pump Systems. Potential for cooperation on education materials for geothermal district systems.
 - D. TC 6.10: not present
 - E. DOE: Richard Sweetser
 - i. 12/27/2020 a bill was passed for CHP and waste heat to power can be used for tax 26% credit. Programs will be for decarbonization.
 - F. IDEA: John Andrepont.
 - i. See attached report, dated 2021-01-09.
 - ii. This document lists the upcoming IDEA conference dates.
 - G. Decarbonization Updates
 - i. Code requirements in states (NY, CA, WA, others?) with initiatives.
 - ii. Jayson Bursill expressed that Canada has interest decarbonization.
 - iii. States have recs in the mid-Atlantic such as NJ and have for over 5 years.
 - H. Others
 - i. DOE: Richard Sweetser discussed the CHP Catalog
 - ii. TC1.10, and TC6.9 need to be added to future discussions. They have not met yet at this conference.

9. Old Business-

- A. None

10. New Business

- A. Annual review and vote on status of TC 6.2. Should this TC remain?
 - i. Alan Neely expressed that Middle east has significant District Energy construction in Chilled water.
 - ii. Gary Phetteplace, discussed the future of committee and its relevance. Climate controls, etc.
 - iii. Steve Tredinnick stated IDEA is dedicated for the district energy and this ASHRAE TC serves as the coordinating body.
 - iv. Chair noted the need to advocate within Society for these District Energy topics
- B. Voting for TC to remain: motion by Steve Tredinnick, 2nd by Tim Anderson, Michael Calabrese yea, Betsy Goll yea, Daniel Pywell yea, Chair Jessica Mangler abstains.
- C. Contact Jessica Mangler or Daniel Pywell if you're interested in serving any positions on this TC.

11. Meeting Adjourned at 5:20 pm.

- A. Announcement by TC Chair (Jessica Mangler) to close this session.
- B. Motion by Tim Anderson, 2nd by Michael Calabrese. All in favor.

Submitted by,
Michael Calabrese
TC 6.02 Secretary
2021-01-11

Subcommittee Meetings - Day, Date, Times, & Location Prior to TC 6.02 Meeting:

TC 6.02 Handbook - Monday, 3:00 pm – 4:00 pm, Remote Zoom
TC 6.02 Program - Monday, 3:00 pm – 4:00 pm, Remote Zoom
TC 6.02 Research - Monday, 3:00 pm – 4:00 pm, Remote Zoom