



1791 Tullie Circle, N.E./Atlanta, GA 30329

404-636-8400

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TC/TG/MTG/TRG MINUTES COVER SHEET

(Minutes of all Meetings are to be distributed to all persons listed below within 60 days following the meeting.)

TC/TG/MTG/TRG No. 6.2 DATE 2020-06-17

TC/TG/MTG/TRG TITLE District Energy

DATE OF MEETING 2020-06-17 LOCATION Virtual

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Alan Neely (Chair)	2017-07-01			Dawen Lu (Section Head)
Jessica Mangler (Vice Chair)	2017-07-01			Gary Phetteplace
Michael Calabrese (Secretary)	2018-07-01			Dragos Paraschiv
Steve Tredinnick	2017-07-01			Richard Sweetser
Tim Anderson	2018-07-01			John Molnar
Daniel Pyewell	2018-07-01			
Mohamed Ibrahim	2019-07-01			
Geoff Barnes	2016-07-01			
Elizabeth Goll (Handbook)	2019-07-01			
Alec Kusick (Membership)				

DISTRIBUTION: All Members of TC/TG/MTG/TRG plus the following:

TAC Section Head: Dawen Lu	SHx@ashrae.net Where x is the section number
All Committee Liaisons As Shown On TC/TG/MTG/TRG Rosters (Research, Standards, ALI, etc.)	See ASHRAE email alias list for needed addresses.
Mike Vaughn, Manager Of Research & Technical Services	MORTS@ashrae.net

Note: These draft minutes have not been approved and not the official, approved record until approved by the TC.



Shaping Tomorrow's
Built Environment Today

TC Sign-in Sheet

Meeting Info: TC 6.2, District Energy **Date:** Wednesday, 2020-06-17

Name	Affiliation	E-mail	Member (Voting, Corresponding, or Guest?)	YEA Member? (Yes/No)
Alan Neely	Owens Corning		TC Chair	No
Jessica Mangler	AEI		Vice-Chair	Yes
Michael Calabrese	Burns		Secretary	No
Daniel Pywell	TANCO		Webmaster	No
Steve Tredinnick	Burns & McDonnell			No
Tim Anderson	Applied		Program Subcommittee Chair	No
Geoff Barnes	Enwave Chicago			No
Elizabeth Goll	FPL			No
Mohamed Ibrahim				No
Alec Cusick	Owens Corning		Membership Chair	Yes

Name	Affiliation	E-mail	Member (Voting, Corresponding, or Guest?)	YEA Member? (Yes/No)
Dawen Lu	Lu & S		TC Section Head	No
Gary Phetteplace	GWA Research		Mtg.asec - Voting Member	No
Richard Sweetser				No
Dragos Paraschiv				No
(603) 795-4920				
Aaron				
Heather Thomas	CHA			
James McLeish				
Jim Young				
John Molnar				

Name	Affiliation	E-mail	Member (Voting, Corresponding, or Guest?)	YEA Member? (Yes/No)
Matthew Lane				

Technical Committee Meeting Minutes
TC 6.02 District Energy
Wednesday, 2020-06-17, Remote Zoom (~~Austin, TX~~)

TC 6.02 District Energy – Meeting
Wednesday, 11:30 am – 1:00 pm, Remote Zoom (~~Austin, TX~~)

Voting Committee Members Present:

Mr. Alan Neely	2020-06-30	Ms. Jessica Mangler	2020-06-30
Mr. Steve Tredinnick	2021-06-30	Ms. Elizabeth (Betsy) Goll	2023-06-30
Mr. Michael Calabrese	2022-06-30	Mr. Mohommed Ibrahim	2023-06-30
Mr. Daniel Pyewell	2022-06-30		

1. The Chair (Alan Neely) Called to Order at 10:38 am 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 (Alan Neely)

In this an 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. Membership (Alec Cusick)

A. Review of Current Voting Members and TC officers, Quorum is met.

i. Ref. Manual of Procedures – 3.33, 2.13, 2.14 & 2.15

B. Chair introduction

i. Recruiting of new members and officers for this technical committee (TC 6.02)

4. Meeting Minutes

A. February 2020, Winter meeting in Orlando, FL

i. Minutes were not available to review during this meeting. Minutes to be emailed and voted on electronically.

(1) TC Voting members received, reviewed and approved the Orlando Meeting Minutes electronically, by email.

(2) Motion to approve by Steve Tredinnick, 2nd by Daniel Pyewell, Jessica Mangler, Betsy Goll, Tim Anderson and Alan Neely. Voting was completed on Friday, June 19, 2020.

5. Announcements by Chair:

A. CEC call for reviewers: 2021 Winter Meeting and others. Contact Tiffany Cox (tcox@ashrae.org) and copy TC Chair and Vice Chair.

6. Visitors and Liaison Reports/Information from other Committee Representatives
 - A. IDEA: John Andrepont provided a report, dated 2020-06-15
 - i. The updated IDEA liaison report be available on the TC webpage. This document lists the upcoming IDEA conference dates and COVID related rescheduling.
 - B. DOE: Richard Sweetser
 - i. Update was provided.
 - ii. DOE with support CHP. The CHP e-catalog was discussed and is available online, since last November. The webpage link was provided in the Zoom chat
 - (1) <https://chp.ecatalog.lbl.gov/>
 - iii. A high-level overview of the e-catalog webpage and it's functionality was presented to the group.
7. Sub-Committee Reports:
 - A. Handbook: Betsy Goll (Chair)
 - i. Chapter 15 was released in the new Handbook.
 - ii. Previously submitted Chapter 12 updates have not been included, at this time.
 - B. Membership: Alec Cusick (Chair)
 - i. Chair updated the group with link to become a member.
 - ii. Open discussion of the voting member and their terms.
 - iii. Alan Neely (Chair) term will be ending. There currently are 10 voting members, including one international member. TC needs two additional voting members.
 - iv. Alan Neely (Chair) nominated-appointed Alec Cusick (Membership Chair) and Gary Phetteplace
 - C. Program: Tim Anderson (Chair), not present.
 - i. Suggested programs, by Chair Alan Neely
 - (1) Qatar in preparation for the World Cup that has 4 football (soccer) stadiums.
 - (2) Chilled Water Insulation used in district energy applications. An ideal topic for the future Phoenix conference.
 - (3) There are a few stadium chilled water projects that could be presented in a lessons learned format.
 - (4) Mohommed will review material to determine if a presentation can be proposed at the TC's 2021 Winter meeting.
 - D. Standards:
 - i. NONE
 - E. Webmaster: Dan Pyewell (Chair)
 - i. A virtual meeting announcement for Chicago will be available on the webpage.
 - ii. Website is current with all meeting minute documents.
 - F. Research: Chair not present
 - i. Gary Phetteplace reviewed "Flushing Velocities in Pipes". TC's 6.1 and 6.8 provided the work statement with several options and add/alternate scope of work. With the pandemic environment, funding may be problematic.
8. Old Business-
 - A. None
9. New Business
 - A. Remote meeting open discussion.
 - B. Chair announced that Jessica Mangler will be the Chair of TC 6.2, July 1st 2020.
 - i. New Vice-Chair
 - (1) Jessica Mangler requested committee feedback for nominees.
 - (2) Steven Trednick thanked Alan Neely for his service as TC Chair.

10. Meeting Adjourned at 11:47 am.

A. Announcement by TC Chair (Alan Neely) to close this session.

Submitted by,
Michael Calabrese
TC 6.02 Secretary
2020-06-17

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

TC 6.02 Handbook - Wednesday, 10:00 pm – 10:30 pm, Remote Zoom

TC 6.02 Program - Wednesday, 10:00 pm – 10:30 pm, Remote Zoom

TC 6.02 Research - Wednesday, 10:00 pm – 10:30 pm, Remote Zoom

DRAFT

Sub-Committee Meeting Minutes
Technical Committee, TC 6.02 District Energy
Wednesday, 2020-06-17, Remote Zoom (~~Austin, TX~~)

TC 6.02 District Energy – Sub-Committee Meeting
Wednesday, 10:00 am – 11:30 am, Remote Zoom (~~Austin, TX~~)

Present:

Alan Neely (Chair)	Steve Tredinnick
Jessica Mangler (Vice-Chair)	Geoff Barnes
Michael Calabrese (Secretary)	Scott Murray
Daniel Pyewell (Webmaster)	Alec Cusick (Membership)
Betsy Goll (Handbook)	Gary Phetteplace
Mohammed Ibrahim	
John Molnar	
Heather Thomas	
James McLeish	
Jim Young	
Matthew Lane	
Parham Eslami Nejad	
Dawen Lu	
<i>Caller 603-795-4920</i>	
<i>Aaron</i>	

1. The Chair (Alan Neely) Called to Order at 10:05 am.
2. Sub-Committee Discussion:
 - A. Handbook: Betsy Goll (Chair)
 - i. Chapter 15 was released in the new Handbook.
 - ii. Previously submitted Chapter 12 updates have not been included, at this time.
 - B. Research: Chair not present
 - i. None.
 - C. Programs: Tim Anderson (Chair), not present.
 - i. Suggested programs, by Chair Alan Neely
 - (1) Spoke about UTA Juan A and Alan would like for Juan to be a presenter
 - (2) Mohammed reviewed Qatar in preparation for the World Cup that has 4 football (soccer) stadiums.
 - (a) Plant is 80,000T. The plant is about 2 miles away (piping distribution)
 - (b) Operating for 1 year.
3. Open Discussion
 - A. Jim Young updated the group about TC 1.8, Mechanical Insulation research projects. They have a research project was approved for a bidder – “Measuring the Performance of Vapor Retarder Systems”
4. Meeting Adjourned at 10:30 am.

Submitted by,
Michael Calabrese
TC 6.02 Secretary
2020-06-17