



**ASHRAE** American Society of Heating, Refrigeration and Air-Conditioning Engineers, Inc.

1971 Tullie Circle, NE • Atlanta Georgia 30329 • (404)636-8400 • Tlx 705343 ASHRAE • Fax (404)321-5478

**TC/TG/TRG MINUTES COVER SHEET**

These draft minutes have not been approved and are not the official, approved record until approved by this Technical Committee. (Minutes of all TC/TG/TRG Meetings are to be distributed to all persons listed below within 60 days following the meeting.)

**TC/TG/TRG No.: TC 6.2**

**Date: January 26, 2015**

**TC/TG/TRG Title: District Energy**

**Date of Meeting: January 25, 2015**

**Location: Chicago, IL**

		<b>Ex-officio Members &amp; Guests</b>			
<b>Members Present</b>	<b>Year Apptd</b>	<b>Members Absent</b>	<b>Year Apptd</b>	<b>Corresponding Members</b>	<b>Year Apptd</b>
Lucas Hyman		Ken Collier		Steve Tredinnick	
Drew Overmiller		Chris Paraskevacos		Brandon Oyer	
Gary Phetteplace		Frank St John		David Wade	
Jay Eldridge				Geoff Bares	
John Andrepont				Rich Sweetser	
Steve Severini				Larry Morkel	
				Dragos Paraschiv	
				Eren Selcen	
				Verle Williams	
				Art Giesler	
				Thomas Olmsted	
				Alan Neely	
				Jim Young	
				Tim Anderson	
				<b>Guests</b>	
				Dharam Punwani	
				Edmund Wong	
				Jason Juhasz	
				Jessica Mangler	
				Joe Brillhart	
				John Molnar	
				Steve Hancock	
				Joana Melo	
				Ulf Johansson	



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### **DISTRIBUTION**

*All Members of TC/TG/TRG and guests plus the following:*

TAC Section Head:	Mark Hegberg
TAC Chair:	Eric Adams
Handbook Liaison:	Michael Patton
Journal/Insights Liaison:	
Standards Liaison:	Cyrus Nasser
RAC Research Liaison:	Stephen Hancock
Program Liaison:	
Special Publications Liaison:	
Chapter Tech Transfer	Maggie Moninski
ALI Liaison:	Darin Nutter

### **ADDITIONAL DISTRIBUTION**

ASHRAE Staff Liaison (Standards):	Michael Vaughn
ASHRAE Staff Liaison (Technical Services):	Michael Vaughn



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**ACTIVITIES SHEET**  
**ASHRAE TC 6.2 DISTRICT ENERGY**  
**Sunday, January 25, 2015 Chicago, IL**

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Chairman: Lucas Hyman  
Vice-Chair: Drew Overmiller  
Secretary: Steve Severini

**TC 6.2 Meeting Schedule:**

<b>Location Past 3 Meetings</b>	<b>Location Next 3 Meetings</b>
Denver, CO June 2013	Atlanta, GA June 2015
New York, NY January 2014	Orlando, FL January 2016
Seattle, WA June 2014	St. Louis, MO June 2016

**TC 6.2 Sub-Committees:**

<b>Committee</b>	<b>Chair</b>
Handbook	Steve Tredinnick
Membership	John Andrepont
Program	Tim Anderson
Research	Jay Eldridge
Standards	(open)
ALI Coordinator	Chris Paraskevacos
Webmaster	Drew Overmiller

**Research Projects**

None current.

**Technical Papers From Sponsored Research:**

None Current

**ACTIVITIES SHEET (Continued)**  
**ASHRAE TC 6.2 DISTRICT ENERGY**  
**Sunday, January 25, 2015 Chicago, IL**

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**TC 6.2 SPONSORED SYMPOSIA** (Past three years and this meeting)  
[For future programs review the Program Subcommittee report]

<b>Year</b>	<b>Location</b>	<b>Program</b>	<b>Topic</b>
2012, January	Chicago		None
2012, June	San Antonio		None
2013, January	Dallas		None
2013, June	Denver		None
2014, January	New York		None
2014, June	Seattle		None
2015, January	Chicago		None

**TC 6.2 SPONSORED SEMINARS** (Past three years and this meeting)

<b>Year</b>	<b>Location</b>	<b>Topic</b>
2012, January	Chicago	None
2012, June	San Antonio	None
2013, January	Dallas	None
2013, June	Denver	None
2014, January	New York	None
2014, June	Seattle	None
2015, January	Chicago	None

**TC 6.2 SPONSORED FORUMS** (Past three years and this meeting)

<b>Year</b>	<b>Location</b>	<b>Topic</b>
2012, January	Chicago	None
2012, June	San Antonio	None
2013, January	Dallas	None
2013, June	Denver	None
2014, January	New York	None
2014, June	Seattle	None
2015, January	Chicago	None

**Journal Publications:** (Past three years) – None

Minutes of Meeting of: TC 6.2 District Energy  
Sunday, January 25, 2015 Chicago, IL

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**1. Call to Order:**

Chair Lucas Hyman called the meeting to order at 3:00 PM. Lucas welcomed all in attendance, and opened the meeting by stating the scope of TC 6.2 District Energy:

*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.*

An agenda was distributed and attendance sheet was circulated and signed by attendees. Lucas noted the following voting members in attendance: Drew Overmiller, Jay Eldridge, John Andrepont, Gary Phetteplace, Steve Severini, and Lucas Hyman. With 9 current voting members, these 6 attendees provided a quorum. Self-introductions by all attendees were made. The agenda for today's meeting was approved without modifications.

**2. Approval of the Seattle June 2014 Meeting Minutes:**

Lucas distributed a draft of the Seattle June 2014 meeting minutes for review. After a few spelling corrections were noted, John Andrepont moved to approve the minutes. Second by Gary Phetteplace. Lucas called a vote and the meeting minutes were approved.

**3. Announcements by Chair:**

Lucas noted several items from the Section 6 breakfast meeting held earlier in the day.

- a. Electronic meetings are being considered.

**4. Liaison Reports:**

A. ASHRAE Staff Liaison - report from liaison from ASHRAE.

B. Research: ASHRAE is assembling a "research advisory panel". Lucas invited all interested parties to participate.

C. IDEA: John Andrepont reported the following:

- i. The International District Energy Association (IDEA) is an industry association of over 1,000 members. The membership includes District Energy (Thermal) Utilities; Physical Plant and Utilities Personnel from University, Medical, and other District Energy Facilities; Equipment Manufacturer/Suppliers; Service Providers to the Industry; other District Heating & Cooling Associations; plus Government, Student, and other Personal members.
- ii. IDEA has two major conferences each year (one focused on campus District Energy systems and one focused on thermal utility systems), as well as smaller workshops on subjects such as marketing and thermal distribution, plus occasional regional-focused conferences. Each major conference also focuses on integrating Combined Heat & Power (CHP) and Thermal Energy Storage (TES) with District Energy.
- iii. Upcoming IDEA conferences include:
  - 28<sup>th</sup> Annual Campus Energy Conference (and Distribution Workshop)

February 9-13, 2015 – Denver, Colorado

- 106<sup>th</sup> Annual District Energy/CHP Conference and Trade Show

June 28-July 1, 2015 – Boston, Massachusetts (*same dates as ASHRAE Annual Meeting*)

- 29<sup>th</sup> Annual Campus Energy Conference

February 7-12, 2016 – Austin, Texas

- 107<sup>th</sup> Annual District Energy/CHP Conference and Trade Show

June, 2016 – St. Paul, Minnesota

iv. For further information on IDEA, contact:

Rob Thornton, President  
IDEA  
24 Lyman Street, Suite 230  
Westborough, Massachusetts 01581

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fax: 508-366-0019  
e-mail: [rob.idea@districtenergy.org](mailto:rob.idea@districtenergy.org)  
website: [www.districtenergy.org](http://www.districtenergy.org)

## 5. Sub-Committee Reports

A. Handbook: Steve Tredinnick (Chair)

The handbook sub-committee is updating the content of the District Energy (Chapter 12) for the 2016 Systems and Equipment Handbook. The goal is to have the updates completed and distributed in early April. Updates will be voted on by voting members and the final revisions forwarded to the Society by April 25, 2015.

The major edits are incorporating nuggets from the District Heating Guide and the District Cooling Guide. This effort is currently about 50% complete.

B. Membership: John Andrepont (Chair)

The term of the current voting members expires at the June meeting. John invited all corresponding members and guests to upgrade their participation – if a corresponding member, consider becoming a voting member. If a guest, consider becoming a corresponding member. Anyone interested should inform Lucas Hyman (Chair) and provide their ASHRAE number in the correspondence.

C. Programs: Tim Anderson (Chair)

There are 9 tracks in the program for the Atlanta meeting in June. Having a review of local Atlanta district energy installations was suggested as a possible presentation topic. Tim mentioned that TC6.2 submitted for a seminar for Chicago in the area of “heating system energy efficiency” but was not accepted. We are always looking for volunteers to speak at upcoming meetings.

D. Standards: no current chair. No discussion.

E. Webmaster: Drew Overmiller

Our TC 6.2 home page (<http://tc62.ashraetcs.org/>) has been recently updated and the roster and other information should be current. Lucas extended an invitation for anyone to take over the Webmaster position, as Drew is now busy with his duties as Vice Chair. Please contact Lucas Hyman, if interested.

F. ALI Liaison: Chris Paraskevakos – not present  
No discussion.

G. Research: Jay Eldridge (Chair)

Dharum Punwani stated that TC 1.10 Cogeneration Systems has requested that TC 1.10 and TC 6.2 co-sponsor a request to prepare a Combustion Turbine Inlet Cooling Guide. As background, the previous guide was prepared in 1999 and several aspects of it are dated, and have been for quite a while. A few members of TC 6.2 also serve on TC 1.10. John Andrepont made a motion for TC 6.2 to participate with TC 1.10 by co-sponsoring a Research Topic Acceptance Request (RTAR) that requests development of a Combustion Turbine Inlet Cooling Guide. Second by Gary Phetteplace. After some discussion, Lucas called a vote and the motion passed.

Jay mentioned that Andy Price (not present) had previously mentioned a possible RTAR in progress. No details were discussed at this meeting.

## **6. Old Business:**

Lucas again encouraged attendees to participate by become corresponding or voting members.

## **7. New Business**

There was significant discussion on ASHRAE Standard 100 "Energy Efficiency in Existing Buildings" being voted on this week for publication. TC 6.2 members as well as IDEA have written letters describing their concern that the Standard's use of "site energy" to determine compliance does not actually promote energy efficiency, but rather provides incentive for building owners to abandon district energy in order to gain compliance. The Standard is flawed in that calculations by the Standard inherently do not consider energy at the source, but rather only energy used by the site. This calculation flaw has been documented by a review panel and the Standard 100 committee responded by altering only the Informative section of the Standard, which is non-binding in enforcement of the Standard as Code. Those people concerned with the proposed Standard feel changes to the Normative section are necessary.

At this late stage of Standard 100 development, voting is conducted only to confirm that procedural standards have been followed, and therefore a technical change is now unlikely. The only avenue for rejection is that the change to the Informative section did not accurately address the concerns of the review panel.

TC 6.2 members should be aware that if Standard 100 is published as currently proposed, then an education effort to explain its flaws and limitations will be necessary, as well as efforts to make changes in the continuous maintenance plan.

## **8. Meeting Adjournment:**

- The next general meeting will be held at the same time (3 pm) in Atlanta.
- John Andrepont made a motion to adjourn the meeting. Second by Drew Overmiller. The meeting was adjourned at 3:59 pm.

Submitted by,  
Steve Severini  
TC 6.2 Secretary  
May 27, 2015