



Shaping Tomorrow's Built Environment Today

TC 7.6 Building Energy Performance

<https://tc0706.ashraetcs.org/>

Hybrid (**WebEx Meeting**) / Tampa, FL
Tuesday, June 27th, 2023, 1:00-3:00 pm EDT

TC 7.6 **Date:** 2023-06-25 **Time:** 1:00-3:00 PM EDT **Location:** Tampa, FL
TC Title: Building Energy Performance

Attendees:

Name	Affiliation	Voting	YEA	INTL	Status
Adam Hinge	Sustainable Energy Partnerships	CM	N	N	In Person
Alexander Zhivov	CERL	CM	N	N	In Person
Ali Salim Shirazi	ATI/WMC	PCM	N	N	In Person
Amanda Webb	University of Cincinnati	CM	N	N	In Person
Annelise Smith	Introba	VM	Y	N	In Person
Aykut Yilmaz	DC Dept of Energy and Environment	PCM	N	N	Virtual
Barry Abramson	Servidyne	VM	N	N	Virtual
Brittany Wilkins	Carrier	Guest	N	N	In Person
Charles Hofstetter	Karpinski Engineers	VM	N	N	Remote
Chonghui Liu	Popli Design Group	VM	N	N	In Person
Christine Reinders-Caron	Iowa State University	VM	N	N	In Person
David Eldridge	Grumman Butkus Associates	VM	N	USA	In-person
Dennis Landsberg	L+S Energy Services	CM	N	N	In Person
Eric Yang	Vantage Data Center	VM	N	N	In Person
Fredric Goldner	Energy Management & Research Associates	CM	N	N	Virtual
Gordon Stewart	Akela Engineering & Consulting	CM	No	No	Virtual
Haleh Moghaddasi	EXP		N	Y	In Person
Hashani De Silva	University of Cincinnati	M	Yes	No	Virtual
Herve Frank Nouanegue	Hydro Quebec	PCM	N	Y	In Person
Holly Brink	Arup	CM	N	N	Virtual
Hyojin Kim	New Jersey Institute of Technology	VM	No	No	In Person

Jeremy White	Engineered Air Balance - Dallas Cx Manager	Pro CM	n	n	In Person
John Constantinide	U.S. Space Force	CM	n	n	virtual
Josh Dean	CA Energy Alliance	PCM	N	N	In Person
Kelly Majewski	JLL	CM	Y	N	V
Krishnan Gowri	Intertek		N	N	In Person
Kushagra Juneja	Design2Occupancy Services LLP	PCM	Y	Y	In person
Lauren Adams	NREL	CM	N	N	In person
Nicholas Long	NREL	VM	N	N	In Person
Raisa Nekhaeva	QEA Tech	CM			Virtual
Rhys Davis	Resource Refocus	PCM	Y		Virtual
Ruben Abreu	Walker Reid Staples	PCM	Y	N	In Person
Scott West	HFA	VM	N	N	In Person
Siu Fung FUNG	University College London	PCM	Yes	Yes	Virtual
Steven Carlson	XRG Analytics	CM	N	N	In Person
Supriya Goel		VM	N	N	Virtual
Yeonjin Bae	ORNL		No	No	Virtual
Scott Duncan	Georgia Tech	Guest	n	n	In Person
James Frey	Representing California IOU Statewide Codes & Standards Team	Guest			In Person
Michael Rhodes	Rmax	Guest			Virtual
Hyery Shin	Korea institute of Civil Engineering and Technology	Guest		Y	Virtual
Hyegi Kim	Korea institute of Civil Engineering and Technology	Guest		Y	Virtual
Kevin McFadden	Daikin Comfort Technologies	Guest			In Person
Justin Mezzadri	Automated Logic	Guest			Virtual
Stephanie Gonzalez	Limbach	Guest	y	n	In Person
Jamie Fine	RWDI	Guest	Y	N	In Person
Julian Alaret	CTTC Columbia Chapter	Guest	N	Y	In Person
Emily Porcari	ASHRAE Staff	Guest			In Person
Mitchell Paulus	Command Commissioning	Guest	N	N	In Person
Brandon Martin	US Army Corps of Engineers	Guest	N	N	In Person
Michael Deru	NREL	Guest	N	N	In Person
Alexi Miller	NBI	Guest	N	N	In Person
Parichehr Salimifard	Oregon State University	Guest	N	N	In Person
Kristen Cetin	Michigan State University	Guest	Y	N	In Person
Don Shirey	EPRI	Guest	N	N	In Person
Cobi Waxman	AHRI	Guest	N	N	In Person
Gabe Fierro	Mines/NREL	Guest	N	N	In Person
Jennifer Isenbeck	MTG.EBO	Guest	N	N	In Person
Michael Rosenberg	PNNL	Guest	N	N	In Person

- 1. Roll call and Introductions** **Smith**
- Welcome new members and visitors
 - Meeting Called to order: 1:06 PM EDT
 - Quorum Established: 11 voting members present
 - 59 total attendees (11 VM, 14 CM, 12 PCM, 22 Guest, 10 YEA, 5 International)
 - Agenda is on basecamp and on TC 7.6 website
- 2. ASHRAE Code of Ethics Commitment** **Smith**
- 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 interests.
(See full Code of Ethics: <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>.)
- 3. Approve minutes of February Hybrid meeting in Atlanta** **Smith**
- **Motion #1:** It was moved (Reinders) Seconded (Long) that the minutes of TC 7.6 meeting from February 2023 be approved as drafted.
 - **Motion #1 Passed:** 9-0-0-3 CNV (*In Favor-Against-Abstaining-Not Present*)
- 4. Announcements and Chair Remarks**
- Chair Remarks **Smith**
 - Update on Chair’s emphasis – plans for future
 - Decarbonization: alignment of TC 7.6 work with Decarbonization Task Force efforts
 - Completion of the updates to Green Book through Audits subcommittee
 - Announcements **Smith**
 - Basecamp and emails to roster used for communication/announcements
 - Basecamp for TC 7.6 and Subcommittee Basecamps
 - Make sure to email Webb or Smith about upgrading your membership.
- 5. Membership** **Webb**
- Currently 334 members on the roster
 - Roster access by TC members (log into My Membership on ASHRAE website)
 - Currently 13 VMs
 - Rolling off 6/30/2023: Eric Yang, Supriya Goel
 - Rolling on 7/1/2023: Amanda Webb, Fred Goldner
- 6. Standing Committee Liaison Reports (TAC/RAC/StdCom/Program/SpecPub/ALI/BuildingEQ)**
- TAC Section Head (Satheesh) **Kulankara**
 - Submit activity form by 9pm today
 - Advanced Energy Design Guides (AEDG) **Eldridge**
 - On hiatus
 - BuildingEQ **Duru**
 - Transitioning to MTG
 - Task Force for Building Decarbonization (TFBD) **Hinge**
 - SSPC 90.1 Liaison **Lui**
 - New Energy Credit Based Compliance – working on Net Zero update
 - SSPC 90.2 Liaison (need Liaison)
 - Update provided by Hinge – Public Comment Review coming soon
 - SSPC 100 Liaison **Landsberg**

○ Carbon Annex out for Public Review	
● SSPC 189.1 Liaison (Katherine Hammack, Chair)	West
○ Addenda published online, update coming end of this year	
7. Multi-Disciplinary Task Group Reports	
● None	---
8. Subcommittee Reports	
A. Standing (Functional) Subcommittees	
8.1 Research	Kim
● 3 new RTAR's anticipated for Chicago Meeting	
● 2 RTARS currently in Progress	
● 3 Research Project Recently Completed (1836 RP, 1771-RP, 1814-RP)	
● 1815 RP – approved by ASHRAE to bid at the next cycle	
8.2 Handbook	Shirazi
● No Update	
8.3 Standards	Liu
● Std 90.1 - 2022	Lui
○ Continuous maintenance	
● Std 90.2 - 2018	Lui
○ Continuous maintenance	
● Std 100 – 2018	Landsberg
○ Continuous maintenance	
● Std 105 – 2021	Carpenter
○ Annex out for public review	
● Std 211 - 2018	Eldridge
○ Call for members coming to reconstitute the committee	
● Std. 214 – 2017 (reaffirmed at June 2022 meeting)	Liu
<i>Volunteers reviewing comments received during public review process.</i>	
● Std 228	Landsberg
● Guideline 14 – 2014 (GPC 14)	Landsberg
○ Out for Publication	
● Guideline 34 – 2019	
● Proposed Guideline 45 – authorized July 2021 (GPC 45)	Kim
● Proposed new standard – Draft TPS	Adams
○ “A Common Data Collection Format for Commercial Building Energy Audits”	
○ TPS will be circulated for a vote in the future	
8.4 Programs	Reinders-Caron
● 2 Sponsored and 2 Co-Sponsored programs at this conference	
● 9 Future program ideas proposed	
● Program proposals for Chicago are due August 2, 2023	
8.5 Website	Bae
● Send your agendas and minutes if not already on Basecamp.	
B. Topical Subcommittees	
8.6 Monitoring & Energy Performance	Webb
● Legislative updates and CBECS data updates provided	

8.7 Energy Management	Yang
<ul style="list-style-type: none"> • TC 2.8 Water-Energy Nexus Subcommittee Liaison • New ALI Course on Decarbonization coming soon 	
8.8 Commercial Building Energy Audits	Hofstetter
<ul style="list-style-type: none"> • Evaluating how to incorporate Decarbonization 	
8.9 Federal Buildings	Zhivov
<ul style="list-style-type: none"> • No Meeting at this Conference • Upcoming meeting will be held in Rome 	
8.10 Building Data Exchange	Long
<ul style="list-style-type: none"> • 	
9. Other Topics	
<ul style="list-style-type: none"> • (None) 	
10. Old Business	
<p data-bbox="237 726 837 760">11. <i>Position Document on Energy Efficiency in Buildings</i></p> <p data-bbox="284 764 948 798">Revision Committee roster has been approved by BoD ExCom</p> <p data-bbox="284 802 932 835">Revisions will be circulated for review and vote in the future</p>	Hinge
12. New Business	
<ul style="list-style-type: none"> • None 	---
13. Adjourn	
Smith moved, Long seconded, meeting adjourned 2:54pm	