



Shaping Tomorrow's  
Built Environment Today

**TC 7.6 Building Energy Performance**

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

Hybrid Link on this page: <https://events.rdmobile.com/Sessions/Details/2303366>

Tuesday, June 25<sup>th</sup>, 2024, 1:00-3:00 pm EST, Indianapolis, IN

**DRAFT MEETING MINUTES**

**TC 7.6**      **Date:** 2024 – 06-25      **Time:** 1:00-3:00 PM EDT      **Location:** Indianapolis IN  
**TC Title:** Building Energy Performance

**Attendees:**

First Name	Last Name	TC 7.6 Membership
Amanda	Webb	Voting Member (VM)
Christine	Reinders	Voting Member (VM)
Chonghui	Liu	Voting Member (VM)
Hyojin	Kim	Voting Member (VM)
Nicholas	Long	Voting Member (VM)
Barry	Abramson	Voting Member (VM)
Fredric	Goldner	Voting Member (VM)
David	Eldridge	Voting Member (VM)
J. Patrick	Carpenter	Voting Member (VM)
Joe	Hofstetter	Voting Member (VM)
Coral	Pais	Provisional Corresponding Member (PCM)
Vishnu	Reddi	Provisional Corresponding Member (PCM)
Enrica	Galasso	Provisional Corresponding Member (PCM)
Lyle	Axelarris	Provisional Corresponding Member (PCM)
Aziz	Mbaye	Provisional Corresponding Member (PCM)
Mahabir	Bhandari	Provisional Corresponding Member (PCM)
Rachel	Guo	Provisional Corresponding Member (PCM)
Jean-Simon	Venne	Guest
Glenn	Friedman	Guest
Chris	Balbach	Guest
Jounghwan	Ahn	Guest
Jeff	Haberl	Guest
Gopal	Chitalia	Guest

Rafael	Dutra	Guest
Scott	Delo	Guest
Michael	Deru	Guest
Haley	Goslinga	Guest
Robert	Glass	Guest
Rachael	Dorothy	Guest
Curtis	Fong	Corresponding Member (CM)
Niraj	Kunwar	Corresponding Member (CM)
Siu-fung (Alex)	Fung	Corresponding Member (CM)
Yeonjin	Bae	Corresponding Member (CM)
Adam	Hinge	Corresponding Member (CM)
Steven	Carlson	Corresponding Member (CM)
Brittany	Wilkins	Corresponding Member (CM)
Aykut	Yilmaz	Corresponding Member (CM)
Kajen	Ethirveerasingham	Corresponding Member (CM)
Rafael	Pérez-Cortines	Corresponding Member (CM)
Natalie	Fylak	Corresponding Member (CM)
Costas	Balaras	Corresponding Member (CM)
matthew	gelnett	Corresponding Member (CM)
Victoria	Sozanksi	Corresponding Member (CM)
Jongki	Lee	Corresponding Member (CM)
Haleh	Moghaddasi	Corresponding Member (CM)
James	McNeill	Corresponding Member (CM)
Eric	Yang	Corresponding Member (CM)
Elizabeth	Kolacki	Corresponding Member (CM)
Ali	SalimShirazi	Corresponding Member (CM)
Youngsik	Choi	Corresponding Member (CM)

## 1. Roll call and Introductions

Smith

- Welcome new members and guests
  - Meeting was called to order at 1:06 PM
  - Quorum Established – 10 voting members present. quorum met.
  - Total Attendees – 50
- Agenda is on basecamp and on TC 7.6 website: <https://tc0706.ashraetcs.org/>

## 2. ASHRAE Code of Ethics Commitment

Smith

*In ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, inclusiveness and respect for others, which exemplify our core values of excellence, commitment, integrity, collaboration, volunteerism and diversity, and shall avoid all real or perceived conflicts of interest. Our culture is one of inclusiveness, acknowledging the inherent value and dignity of each individual. We celebrate diverse and inclusive communities, understanding that doing so fuels better, more creative and more thoughtful ideas, solutions and strategies for the Society and the communities our Society serves. We respect and welcome all.*

(See full Code of Ethics: <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics.>)

- 3. Approve minutes from January meeting in Chicago** **Smith**
- Motion #1: It was moved (CL) and Seconded (Long) that the minutes of the TC 7.6 meeting from the January 2024 meeting be approved as drafted.
  - Motion #1 Passed Unanimously: CNV
- 4. Announcements and Chair Remarks**
- Chair Remarks **Smith**
    - Update on Chair’s emphasis: decarbonization, completion of the PCBEA
    - Continue to incorporate carbon as the TC moves forward and continue emphasis on building performance, reducing load before electrification.
    - Annie’s last meeting as TC chair – Thank you!
  - Announcements **Smith**
    - Basecamp and emails to roster used for communication/announcements
    - Basecamp used for TC 7.6 and Subcommittee work (separate Basecamps)
    - Richard “Dick” Pearson passed away March 7<sup>th</sup>, 2024, and was an active member of TC 7.6
    - Honors & Awards nomination information can be found at: <https://www.ashrae.org/membership/honors-and-awards>
      - June 2024 Award Winners from TC 7.6
        - Distinguished Service; Amanda Webb, Eric Yang, Christine Reinders, Tyler Glesne
        - Apoorv Khanuja – Homer Addams Award
- 5. Membership** **Webb**
- Currently 390 members on the roster as of June 20, 2024.
  - Roster access by TC members (log into ASHRAE account > My Profile > Member Services > Committees)
  - Roster updates completed (thank you Amanda!).
  - As of 7/1/2024, there will be 9 Voting Members (VMs).
  - Rolling off 6/30/2024: Annie Smith, Paul Mathew, J Patrick Carpenter, David Eldridge, Chonghui Liu (CL), Nicholas Long, Charles Hofstetter (Joe)
  - Rolling on 7/1/2024: Yeonjin Bae, Steve Carlson, Brittany Wilkins
- 6. Standing Committee Liaison Reports (TAC/RAC/StdCom/Program/SpecPub/ALI/BuildingEQ)**
- TAC Section Head (Money) **Khanna**
    - Unable to attend
  - Task Force for Building Decarbonization (TFBD) **Hinge**
    - TFBD will become CEBD on July 1, 2024
    - Adam will send slides with an update to the chair to post to basecamp
  - SSPC 189.1 Liaison **(need liaison)**
    - *West rolled off. Looking for a liaison.*
    - Contact TC chair if you are involved in 189.1 and able to be liaison for this TC
  - Guideline 14 is being reconstituted and will need an update at the next meeting **Jeff Haberl**
    - Guideline 14 is looking for persons interested in joining the committee to help revise the guideline.
    - Contact [Jhaberl@tamu.edu](mailto:Jhaberl@tamu.edu)
- 7. Multi-Disciplinary Task Group Reports**

- BuildingEQ
  - Carbon metrics were added from 189.1
  - Building the value in the market and working to expand the user base
  - BEQ is International – Unlike energy star portfolio
- New MTG Proposal – DTG Utilities, Utility Planning for Building Decarbonization
  - MTG proposal shared on basecamp
  - Provide feedback by end of July 2024
  - Voting member required to be provided by TC 7.6 as sponsor

**Deru**

## **8. Subcommittee Reports**

### **A. Standing (Functional) Subcommittees**

#### **8.1 Research**

**Kim**

- Met on Sunday with 12 attendees
- 1 ongoing research project RP1815 – Final report due June 20, 2024
  - PMS reviewed draft final report
- Several work statements and RTAR's are in process – see minutes on basecamp and website
- We need more volunteers for RTAR
  - Link to the ASHRAE Research process flowchart is linked in the minutes
- RTAR Budget tool coming soon

#### **8.2 Handbook**

**Shirazi**

- Applications: Chapter 37 Energy and Water Use and Management
- Applications: Chapter 42 Building Energy and Water Monitoring
  - Met on Sunday, 9 Attendees
  - Applications Handbook will be updated in 2027
  - Comments have been received on both chapters
  - Meeting in 2 months to review all comments
  - Currently on schedule with revisions
  - Future discussions with the handbook committee will address carbon and whether it needs to be added

#### **8.3 Standards**

**Liu**

- New meeting time for subcommittee – Monday @ 2:30pm
- 90.1 2022 is published
- Std 100 GHG emission targets updated for 2024
- Std 211 Adding Decarbonization Scope
- 90.2 – Need new liaison
- Guideline 45P – Meeting every 3 weeks

#### **8.4 Programs**

**Reinders**

- 5 Attendees
- 2 co-sponsored programs in Indianapolis
- Christine – resubmit benchmarking forum under decarb track
- Amanda – Wholistic approach to Decarb in Ohio Session
- David – 211 Forum
- Phoenix – AI role in Energy Management & Modeling
- Programs for Orlando are due Friday August 2<sup>nd</sup>

- Conference paper abstracts for Phoenix are due November 20<sup>th</sup>

#### 8.5 Website

Bae

- Send your agendas and minutes to Bae if not already on Basecamp.

### B. Topical Subcommittees

#### 8.6 Monitoring & Energy Performance

Webb

- 34 attendees
- Discussion highlights:
  - Detroit and Providence now have benchmarking. Did some reflecting by comparing the IMT benchmarking maps from 2016 and 2024.
  - City vs. State BPS, which we now have in Seattle and WA State and Denver and CO
    - Challenges for all-electric buildings in Seattle, who meet GHG target for Seattle BPS, but not site EUI for WA BPS
  - BPS lawsuit in CO
    - IMT webinar July 9 2:00-3:00pm ET: Why Building Performance Standards Are Safe From Legal Challenges (RSVP: [Zoom registration link](#))
  - Toronto is in discussions about creating a BPS
    - Talk to Kajen Singham ([kajen777@gmail.com](mailto:kajen777@gmail.com)) if you have thoughts and advice about this process
  - ENERGY STAR Next Gen certification criteria finalized
    - Applications open in September
  - Wondered about the use of this certification as voluntary vs. in a BPS
- Subcommittee name change

#### 8.7 Energy Management

Yang

- TC 2.8 Water-Energy Nexus Subcommittee Liaison

Yang

#### 8.8 Commercial Building Energy Audits

Hofstetter

- Focus on update to “Green Book”
- Have added a “Place Holder” for how to add Carbon
  - Coordinating with Std 211 to avoid overlap
- PTAR was denied because money and time wasn’t aligned with similar projects
  - Revisions and resubmission is recommended

#### 8.9 Federal Buildings

Zhivov

- Met on Sunday with 11 attendees
- Building Connection to Integrated Thermal Power Grids – Developing Program
  - Workshop in Orlando to be sponsored by TC 7.6
- Building Energy System Resilience discussed
  - This topic could be added to the handbook
- Deep Energy Retrofit roadblocks
  - Books have been published on this topic
  - Challenges are policies and incentives

#### 8.10 Building Data Exchange

Long

- Met today 25 attendees
- Minutes will be posted on basecamp and website
- Reviewing city scale data

### 9. Other Topics

- None

## 10. Old Business

- *Position Document on Energy Efficiency in Buildings*
- Working to complete updates by Orlando Meeting

Hinge / Kelsey

## 11. New Business

- TC Name Change Discussion
  - Incorporate Carbon and avoid overlap with TC 4.7
  - Feedback provided via menti poll

## 12. Adjourn

- Meeting was adjourned by Smith at 3:04PM