



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/2551781>

Tuesday, February 11th, 2025, 1:00-3:00 pm EST, Orlando, FL

TC 7.6 is concerned with the estimation, measurement, analysis, benchmarking, and management of whole building and building systems energy and water performance. This includes performance and resource management of new and existing buildings.

1. Roll call and Introductions

Webb

- Welcome new members and guests

13:01 Call to order

- [Sign In](#) (link will also be posted in the chat of the hybrid meeting session)

Quorum reached

- Agenda is on basecamp and on TC 7.6 website: <https://tc0706.ashraetcs.org/>
- Current Voting Members (9): Kim, Reinders-Caron, Abramson, West, Webb, Goldner, Bae, Wilkins, Carlson

2. ASHRAE Code of Ethics Commitment

Webb

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 from June meeting in Indianapolis

Webb

Move Christine, Second Fred. 5-0-1 Chair Voting

4. Announcements and Chair Remarks

- Chair Remarks Webb
 - Chair's emphasis: Supporting decarbonization efforts within ASHRAE and beyond
- Announcements Webb
 - Basecamp and emails to roster used for communication/announcements
 - [If need access talk to Amanda after the meeting.](#)
 - Basecamp used for TC 7.6 and Subcommittee work (separate Basecamps)
 - Honors & Awards nomination information can be found at:
<https://www.ashrae.org/membership/honors-and-awards>

- Bruce – this TC is about building performance and improving it.

5. Membership

Reinders-Caron

- Currently 425 members on the roster.
 - 9 voting members, Hyojin and Christine will be rolling off. Want to move to 10 voting members.
 - We are light on members since a bunch of people rolled off last time.
- Roster access by TC members (log into ASHRAE account > My Profile > Member Services > Committees)
- Roster updates for SY 2025-26 will be made after 2025 Winter Conference.
- As of 7/1/2024, there are 9 Voting Members (VMs).
- Rolling off 6/30/2025: Hyojin Kim, Christine Reinders-Caron (TBD)
- Rolling on 7/1/2025: Nicholas Long, others TBD.

6. Standing Committee Liaison Reports (TAC/RAC/StdCom/Program/SpecPub/ALI/BuildingEQ)

- TAC Section Head Khanna
- Center of Excellence for Building Decarbonization (CEBD) Hinge
 - CEBD seeking TC assistance on projects
 - Used to be the TFBD (task force on building decarb). Followed the model of the COVID task force with a 2-3 years of shelf life
 - Newer efforts are going through TCs. Lots of new guides such as BPS Resource Guide
 - More trainings are available now that members of TC 7.6 might be interested.
 - Tech council is highlighting 6-7 projects
 - Evaluating Global ASHRAE Member Needs for Decarb Education
 - Refrigerant Emissions Management, Tracking, and Compliance
 - Harmonizing Global Decarbonization Standards for Streamlines Compliance
 - Streamlines, Flexible International Building Code Framework
 - Optimizing PCR Protocols for Enhanced EPDs...
 - Decarbonizing SFH
 - While Life Carbon Calculation Guide for Building Systems
 - If interested, reach out to Adam Hinge or Amanda Webb. They will put you in touch with the correct lead.
 - When SPC240P is out for public review, Michael Deru to send to TC7.6 list for review.
 - In general, keep an eye on these.
 - Dennis: manufacturers are going to take a long time to get to embodied carbon
 - Eric: working one step at a time.
 - Christine: new training on certification for whole life decarb. Lots of others, heat pump application and operation, and building decarbonization audits
 - Adam will figure out who oversees the Building Decarbonization Audit course.
 - Marshall: ESPM is adding ability to track refrigeration leakage. Fred: Garbage in-garbage out.
 - The presentation slides from the Ctr for Excellence on Building Decarb meeting that Amanda had been showing during the TC 7.6 meeting is available on the **ASHRAE 365 App: go to the CEBD meeting (Sunday morning, 8-10am), and you will see a link for "CEBD Orlando Winter Meeting Slides"**
- Building EQ Deru
 - Potential TC 7.6 Co-Sponsorship of RTAR (Research Topic Acceptance Request)
 - Does 7.6 want to draft the RTAR. Ideally submitted for March (but might have to be May). Need letter ballot since the draft is not ready.
 - TC 7.6 – expect a letter ballot for the RTAR in the spring.

- Micheal Deru: Project started in TC7.6 – building performance rating platform for operation and asset ratings. Designed for Std 211 Level 1 audit (both energy and carbon performance)
 - Building EQ is now an MTG – **AI: Move this down to section 7 now.**
 - Adding more system types and tying into more “easy to use tools” such as QBAT and BETTER.
- SSPC 90.1 Liaison **Liu**
 - Aiming for net zero code in the next 3 cycles
- SSPC 100 Liaison **Landsberg**
 - Adding in building types that are not covered in the existing standard. Updating a best practice manual.
- SSPC 189.1 Liaison **West**
 - No updates
- **SSPC 211 Liaison**
 - Incorporating appendix H? into the standard. Working on adding decarbonization. Meet monthly. Reach out to David Eldridge if interested in joining.

7. Multi-Disciplinary Task Group Reports

8. Subcommittee Reports

A. Standing (Functional) Subcommittees

8.1 Research

Kim

- Met on Sunday. Flowchart in meeting minutes describing the workflow for ASHRAE research.
- Only one project sponsors or co-sponsored by 7.6. The project is wrapping up the final report.
- WS-1972: data center liquid chip cooling (cosponsored by 7.6) – the RTAR has yet to be approved.
 - Letter ballot was approved by 7.6.
 - RAC is looking at the
 - **From Amanda’s email -- motion passes, 7-0-0-CNV.**

8.2 Handbook

Shirazi

- Applications: Chapter 37 Energy and Water Use and Management
- Applications: Chapter 42 Building Energy and Water Monitoring
- Content is to be finished by 2026
- **Need more volunteers for reviewing chapter 37 and 42,**
 - **Christopher Morales volunteered to help (send to Ali)**

8.3 Standards

Liu

8.4 Programs

Singham

- Good feedback on forum, okay on the workshop
- Looking at an opportunity for forum/workshop/seminar on 211.
- Energy security and resilience
- Patrick: with AI we might lose the fundamentals since the machines will handle the basics. How do we introduce younger engineers to the basics? Develop a track in 1 to 1.5 on perspectives to improve building energy performance. If interested, reach out to Patrick or Amanda. Goal – how to change the mindset of ASHRAE. Marshall: maybe this should be targeted to non-engineers as well for staff that work in the building’s domain. Eric: young people like the 15-20 minute videos.
 - **Current working group: Haley, Patrick, Alex Z, Joe H, Kajen, Eric Y, Marshall (but not committed)**

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

- Met yesterday, ~35 people. Round up of tools and analysis.
- Compliance rates in NYC and looking good for first target, but not the second target.
- Discussions on push back on standards and gas (e.g., city of Berkeley voted down ng tax)

8.7 Energy Management

Yang

- Met yesterday, ~20 people.
- Ongoing RTAR for the next conference.
- Energy Water Nexus – need liaison

8.8 Commercial Building Energy Audits

Hofstetter

- Met yesterday. Meet every two weeks.
- Making progress on the updated Green Book. Focusing on specific building types and adding a new section on decarbonization. Ideally complete by June meeting.
- Last section is updating forms, photos, sidebars, etc.

8.9 Federal Buildings

Zhivov

- Hosted a workshop this meeting.
- New guides have been created on heat pumps, and you can reach out to Zhivov if you would like access.

8.10 Building Data Exchange

Long

- Met this morning, ~25 people online and remote.
- Need HPXML equivalent in the commercial building space

9. Other Topics

- None

10. Old Business

- Position Document on Energy Efficiency in Buildings **Hinge / Landsberg**
 - Document is officially on ASHRAE's website!

11. New Business

- ASHRAE Position Document for On-site Renewable Energy Generation **Webb**
 - Do we want to do this?
 - Fred: we need to discuss this in content to std 211.
 - Amanda: The position document is to state ASHRAE's position in general.
 - Annie: 6.7 can help since they are solar (and other renewable) energy
 - Dennis: Wants a position document on "does decarbonization only mean electrification?".
Christine: Make this a program. Dennis: Agreed.
- Becoming cognizant TC of two older ASHRAE Publications **Webb**
 - Cindy wants to know if TC 7.6 wants to oversee
 - Efficiency Guide for Existing Commercial Buildings: The Business Case for Building Owners and Mangers
 - Efficiency Guide for Existing Commercial Buildings: Technical Implementation
 - Dennis: worked on them and thinks we should be cognizant.
 - Fred: 98% of the content is probably the same

- Motion: Does TC 7.6 adopt the two documents (Efficiency Guide for Existing Commercial Buildings: The Business Case for Building Owners and Managers, Efficiency Guide for Existing Commercial Buildings: Technical Implementation) to be the cognizant TC?
 - Christine move, Amanda second – 7-0-0 CV
 - Coral, Dave, Amanda, Mark, Eric -- will be on the working group.
 - Action: send email to TC mailing list to coordinate working group

- TEC call for reviewers/instructors for ALI course on grid-interactive buildings **Webb**
 - Amanda pass along Pang Yean (spelling?) (with Fraunhofer) to Joe F

- TC name change / restructuring ad hoc working group **Webb**
 - TC 4.7 will hold off on changing name until TC 7.6 has time to discuss the name change.
 - Changing name to “Building Performance Modeling”, adding scope to “identifies, evaluates, develops, and recommends procedures for calculating performance of the built environment, including energy, emissions, and economics.”
 - In conjunction, how do we restructure / rename our subcommittees?
 - Creation of working group to come up with suggestions for Phoenix.
 - What do “we” do? Focus on whole building, energy, audits, etc.
 - 4.7 are modelers and experimentalists, experts in estimating and predictions. Not M&V and not the real world.
 - Working group members
 - Chair, VC, Secretary, subcommittee chairs, Scott West, Eric, Patrick, Dave, Joe H
 - Bruce: concerned with lumping subcommittees into too few of groups

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12. Adjourn

Adjourned at 14:58 ET