



MINUTES

FINAL

TECHNICAL COMMITTEE

2024 Winter Meeting

January 21, 2024



1791 Tullie Circle, N.E./Atlanta, GA 30329
404-636-8400

FINAL

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. TC 2.8 DATE 01/21/2024

TC/TG/MTG/TRG TITLE Building Environmental Impacts and Sustainability

DATE OF MEETING 01/21/2024 LOCATION Chicago, IL/Virtual

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Alara Apcin	2018	Tania Ullah	2023	Natalie MacDonald (YEA)
Kevin Brown (Chair)	2021	Mike Pascual	2018	Yanting Xu
Kevin Cross	2002	Svein Morner	2023	Nuria Casquero
Rafi Karim (Secretary)	2017	Ashish Rakheja (non-quorum)	2023	Tom Lawrence
Janice Means	2005			Renee Clair
Sumayyah Theron	-			Rex Hamre
James Sweeney	-			John Nix
				Patti Gunderson
				Valerie Lisi

EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE (continued)

Coral Pais	Nick Burke	
Douglas Cake	Haily Irrinki	
Parichehr Salimifard	Yokiko Yoshida	
Jaya Mukhopudhjay	Joy Altwies	
Ng Yong Kong	Vik Patnaik	
Juliana Pellegrini Trigo	Stanton Stafford	
Douglas Fick	Mitchell Swann	
Fred Betz	Lisa Ng (Vice-Chair)	
Matt Roberts		

DISTRIBUTION: All Members of TC/TG/MTG/TRG plus the following:	
TAC Section Head: Jon Cohen	SH2@ashrae.net
All Committee Liaisons As Shown On TC/TG/MTG/TRG Rosters (Research, Standards, ALLI, 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 2.8 Building Environmental Impacts and Sustainability
 Sunday January 21, 2024, 3:30 PM – 5:30 PM CST
 Online (Webex) and In-person, McCormick Place West, W185 bc (1)

Chair: Meeting Called to Order at 3:38 PM CST

1. Roll call and Introductions Brown / Karim

In-person and virtual attendees introduced.
 Quorum present (7 out of 11 voting members including Chair).

2. Review and Accept Agenda Brown / Karim

Agenda reviewed.

3. Review / Approval of February 2023 Meeting Minutes Brown

Karim moved to approve. Cross second. No discussion. The Minutes were approved 7-0-0 (Y-N-A).

4. Standing Committee Liaisons TAC / RAC / Standards / Programs

Technical Activities Committee (TAC)

- New MTG regarding Generative AI
- TG 9 for Space is now a TC 9.13
- ASHRAE is looking to increase it's number of ASHRAE Fellows.

Standards

- Recently revised title purpose and scope for Standard 240
- New title purpose and scope for method of calculating carbon? It will go to TAC council for approval on Tuesday. Fast track.
- Standard committee is trying to expedite the process
- New Global technological international committee with 3 subcommittees – standards, technology and regions & chapters.

No update from Research Administration Committee (RAC) or Programs

5. Subcommittee Reports

5.1 Green Guide Lawrence

- Just completed 6th edition but ASHRAE is not interested in 7th edition since the sales of the recent editions have been low.
 - Green Guide will move to old business from next meeting.
- 5.2 International Mills / Rakheja
- No update. TC2.8 to get an update from Asish
- 5.3 Water-Energy Nexus Karim
- Meeting was held earlier in-person today at the conference.
 - Discussed Water Energy Nexus guide development efforts to be restarted. Seeking new volunteers.
 - Planning to have working session type workshops to engage new volunteers after annual meeting.
- 5.4 Research Cross
- Met virtually on January 12th.
 - 1929-TRP: Evaluation of building life cycle analysis tools incorporating embodied carbon – final work statement approved by RAC last June, TRP went out to bid this past fall. 16 bids received (significantly more than other TRPs that went out to bid). PES evaluated bids earlier this month and has made a recommendation to TC 2.8 that was approved electronically. That recommendation next goes to the RAC, which will then make the final decision and then ASHRAE will negotiate final contract with bidder. Make sure Kevin B. is on track for handing off to RAC (Chris Gray).
 - We are cosponsoring two work statements with other TCs: 1947-WS Climate change driven extreme temperature effects map for efficiency and resilience map of heat pump technology (TC 2.5 Global Climate Change) and 1885-WS Guideline/Book for Design Installation and Operation of PV (TC 6.7 Solar and Other Renewable Energy). The former will be considered for approval by the RAC this week; the status of the other is uncertain at this point; Janice has reached out to the author and we hope to voting on this one in the near future.
 - We have one active RTAR (1933-RTAR: Water-Energy Nexus: Utility Source Water and Source Energy Dataset, which we are hoping Jim and/or Rafi will turn into a WS this year.
 - We have a number of “pending topics”, and are always looking for new ones. If you have an idea for a research topic, please reach out to me. And I note that people and institutions are permitted to bid on topics that they originate, as long as they’re not involved in the selection process either via the PES or as a voting member of the TC.
- 5.5 Programs (minutes included below) Apcin
- Met virtually on January 18th.
 - Subcommittee minutes are posted to basecamp. See minutes for new program ideas.
 - Several new ideas for program for annual conference. See meeting minutes.
 - Contact Brown/Apcin to help walk you through submission of new programs.
 - New program idea - building climate resilience in the face of extreme climate events – focus on indoor air quality, (LBNL) – Janice and Alara to support. TC2.8 will sponsor the event.
- 5.6 Handbook – Chapters 34 & 35 Morner / Theron
- Svein is not present. Theron and Sweeny gave the report in Morner’s absence.
 - Fundamentals chapters are 34: Energy Resources and 25: Sustainability.
 - Editor for Chapter 35 – Sumaya – Complete reorganization and writing of whole chapter. Voting will be done after winter conference. Final deadline is July 31. We will need to vote before annual meeting.
 - Editor for Chapter 34 (energy) – Jim Sweeny – Chapter went through minor edits only. We are looking for volunteers for emissions trading section of this chapter. Planning for final draft to be ready after Chicago. Submission deadline July 2024. Expect to vote during annual meeting or earlier.

6. Related Activities Reports

- 6.1 Standards
- SSPC 189.1 High-Performance Green Buildings Lawrence
 - Latest edition came out not that long ago – 3 year continuous maintenance cycle. Next edition will be focused on decarbonization.
 - SSPC 189.3 High-Performance Green Healthcare Facilities Moser
 - Meeting is online

- Goal is to publish this year based on public review comments.
 - Couple of comments received during public review are – removing fossil fuels from healthcare from kitchen, sterilization and humidification
 - Water discussions with ASHRAE 188 to discuss low flow fixtures. Concern is that low flow fixtures may have an issue in healthcare environment. Goal is to remove current low flow rates from document and utilize federal flush flow rates for fixtures.
 -
 - SPC 191P Efficient Use of Water in Buildings Betz
 - Meeting tomorrow afternoon
 - Two agenda items –
 - MOU with IAPMO; IAPMO has competing/complementary water efficiency standard. IAPMO and 191 both have same target date for publication. Goal is to reconcile the two standards and publish streamlined version.
 - The current standard will go through 3rd public review comment responses.
 - SPC 228 Standard Method of Evaluating Zero Energy Building Performance Deru
 - This SPC has been around for a year – getting converted to SSPC now. Meeting scheduled for tomorrow
 - SPC 227P Passive Building Design Standard Deru
 - Meeting scheduled for Tuesday.
 - SPC 240P Quantification of Life Cycle GHG Emissions of Buildings Standard Deru
 - Draft ready for public review – will come out next month for public review
- 6.2 ASHRAE Advanced Energy Design Guides Update Torcellini
- No update
- 6.3 Task Force for Building Decarbonization Lawrence
- Taskforce has a number of publications scheduled for publishing. ASHRAE Decarbonization publications take priority per ASHRAE's society direction.

7. Old Business

- 7.1 [TC 2.8 Basecamp](#) site – available for any level of membership
- If you need access, reach out to any TC member.
 - Subcommittee minutes can go to Secretary.
 - Full minutes → go onto Basecamp and Website.
- 7.2 Review Membership roster changes / New voting members starting July 1
- Leave roster as is.
 - Secretary needs to vote. Rafi to get renewed. Lisa will remain as non-voting.
 - Tom suggested to increase voting member to 13 total.
 - 3 New volunteers interested
 - Renee Clair
 - Natalie McDonald
 - Juliana Trigo
- 7.3 Approved minutes

8. New business

- 8.1 WS 1929 approved. Votes were x-x-x (Ask Kevin)
TC website
Atlanta is dropping out ration for AHR. Orlando, Chicago and Vegas?
Upcoming conference
If you have comments about how the sessions are going. Send comments to Kevin Brown by Tuesday morning for feedback to CEC.
TC 6.9 completed a standard 150 – going out for public review. Took 3 years to develop.

9. Adjourn

Moved by Rafi. Second by Theron. Adjourned.

NEXT MEETING: January 21, 2024, Chicago IL



ASHRAE Code Of Ethics

In this and all other 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 we shall avoid all real or perceived conflicts of interests.

TC 2.8 Web Site

<http://tc0208.ashraetcs.org>

[TC 2.8 Basecamp Site](https://3.basecamp.com/3106353/projects/10832944)

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Upcoming Conferences:

Annual, June 22-26, 2024 – Indianapolis

Winter, February 8-12, 2025 – Orlando

Annual, June 21-25, 2025 – Phoenix

Winter, January 31-February 4, 2026 – Las Vegas

Annual, June 27-July 1, 2026 – Austin

Winter, January 23-27, 2027 – Chicago

Annual, June 12-16, 2027 – New Orleans

TC 2.8 Sponsored Programs in Chicago...

Sunday, January 21

3:15 PM - 4:45 PM CST

Seminar 19: LIVESTREAM: Beneficial Electrification

Sponsoring Committee: 2.8 Building Environmental Impacts and Sustainability

Co-Sponsoring Committee: 6.8 Geothermal Heat Pump and Energy Recovery Applications

Other Sponsoring Committee: 4.2 Climatic Information

Monday, January 22

11:00 AM – 12:00 PM CST

Seminar 31: Zero Emission Buildings (ZEB), Rolling out the Revised Energy Performance Buildings Directive (EPBD) in Europe

Sponsoring Committee: TC-2.8 Building Environmental Impacts and Sustainability

Other Sponsoring Committee: GTIC

Tuesday, January 23

8:00 AM – 9:30 AM CST

Seminar 33: Defining and Creating Buildings That Truly Perform at 'Net Zero'

Co-Sponsoring Committee:

2.8 Building Environmental Impacts and Sustainability

Other Sponsoring Committee:

CIBSE ASHRAE Liaison Committee PLUS ASHRAE Task Force for Building Decarbonization

Tuesday, January 23

11:00 AM – 12:30 PM CST

Seminar 45: LIVESTREAM: Design Guidance for Climate Change

Sponsoring Committee:

2.5 Global Climate Change

Co-Sponsoring Committee:

4.2 Climatic Information

Other Sponsoring Committee:

TC 2.8 Building Environmental Impacts and Sustainability

Wednesday, January 24

8:00 AM – 9:30 AM CST

Panel 10: Decarbonization of the Federal Building Portfolio

Sponsoring Committee: 2.8 Building Environmental Impacts and Sustainability

Wednesday, January 24

9:45 AM – 10:45 AM CST

Seminar 58: Strategies for Net Zero Energy Buildings

Sponsoring Committee:

6.7 Solar and Other Renewable Energies

Co-Sponsoring Committee:

2.8 Building Environmental Impacts and Sustainability