



MINUTES

Final Approved

TECHNICAL COMMITTEE

2026 Annual Meeting

June 22, 2025



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

Final Approved

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 06/22/2025

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

DATE OF MEETING 06/22/2025 LOCATION Phoenix, AZ/Virtual

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Kevin Brown (Chair)	2021	Lisa Ng (Vice-Chair, nonvoting)	2023	Stanley Yee
Kevin Cross	2002	Alara Apcin	2018	Chrissie Walsh
Janice Means	2005	Natalie MacDonald	2024	Diana Fisler (SH2)
Svein Morner	2023	Ashish Rakheja (non-quorum)	2022	Patrick Ryan
James Sweeney	2016	Sumayyah Theron	2022	Michael Deru
Juliana Pellegrini Trigo	2024	Kinga Hydras	2024	Costas Balaras
Tania Ullah	2023	Rafi Karim (Secretary, non-voting)	2023	Jo Norris
				Jim Lutz
				Núria Casquero-Modrego
				Steven Emmerich
				Mae Underwood
				Frank Mills
EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE (continued)				
Anthony Guerra		Parichehr Salimifard		Eric Peterson
Mike Woolsey		Joy Altwies		Beth Tomlinson
Yunyang Ye				

DISTRIBUTION: <i>All Members of TC/TG/MTG/TRG plus the following:</i>	
TAC Section Head: Diana Fislser	SH2@ashrae.net
All Committee Liaisons As Shown On TC/TG/MTG/TRG Rosters (Research, Standards, ALI, etc.)	See ASHRAE email alias list for needed addresses.
Mike Vaughn, Manager Of Research & Technical Services	MORTS@ashrae.net

Note: These minutes have been approved by the Technical Committee.



Shaping Tomorrow's
Built Environment Today

TC 2.8 Building Environmental Impacts and Sustainability

Sunday June 22, 2025, 3:30 PM – 5:30 PM MST
Sheraton Phoenix Downtown, Deer Valley (Level 2)

Kevin Brown invited you to a Microsoft Teams Meeting:

TC 2.8 Main Meeting

Sunday, Feb 09, 2025

3:30 PM - 5:30 PM (EST)

Meeting link: [TC 2.8 Main Meeting](#) | [Microsoft Teams](#) | [Meetup-Join](#)

ASHRAE Value Statement – *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.*

Secretary: Meeting Called to Order at 3:35 PM Local Time

- | | |
|--|-----------------|
| 1. Roll call and Introductions | Karim / Brown |
| In-person and virtual attendees introduced. | |
| Quorum present (7 out of 12 voting members including Chair). | |
| 2. Review and Accept Agenda | Karim / Brown |
| Agenda reviewed and accepted. | |
| 3. Review / Approval of February 2025 Meeting Minutes | Karim |
| Means moved. Cross second. No discussion. Approved 7-0-0-CNV (Y-N-A-CNV). | |
| 4. Standing Committee Liaisons TAC / RAC / Standards / Programs | |
| • TAC | Diana Fisler |
| • ASHRAE Strategic Plan 2025–2028 is now active as of July 1. TC2.8 is requested to review the new plan and discuss how the TC aligns with the new strategic plan. | |
| • Roster management continues to be an ongoing challenge across TCs. TC Chair should provide feedback via the TC activity form by Tuesday. Leadership/roster difficulties should be escalated to Diana for support. | |
| • ASHRAE has a new committee GTIC (Global Technical Interaction Committee) which is encouraging all TCs to incorporate global perspectives by including international membership, taking into account global research perspectives and daylighting international best practices. | |
| 5. Subcommittee Reports (detailed reports attached if available) | |
| 5.1 High Performance Buildings Simplified | Lawrence |
| • Second edition of the relevant book was published ~18 months ago. | |
| • No new activity to report. Tom recommended to remove this item from future agenda. | |
| 5.2 International | Mills / Rakheja |
| • Strong ASHRAE chapter growth in Europe (New chapters in France and Italy). | |

- Chapters increasingly engaged in local publications, including translations and region-specific guidance.
 - CEBD's Flexible Building Standards initiative is geared toward supporting developing countries lacking formal energy codes.
 - Emphasis on using ASHRAE guidance to support sustainable development planning in rapidly growing regions.
- 5.3 Water-Energy Nexus Karim
- Met a week ago Thursday, 6/12
 - The Water–Energy Nexus Guide project will resume with working sessions this summer with a target draft completion timeline of 2 years for TC review.
 - RP-1933 (Sweeney/Betz) will be considered for resubmittal given available ASHRAE research funding.
 - Dunstan noted significant alignment potential between Water–Energy Nexus work and the new ASHRAE strategic plan.
- 5.4 Research Cross
- Met a week ago Friday, 6/13
 - Six active projects:
 - RP-1929: Evaluation of building life cycle analysis tools incorporating embodied carbon. Author: Jim Sweeny. Expected completion: Spring 2026 Currently 10 months into this 24 month duration research project; progressing well. The lead investigator presented to us during the first part of our meeting.
 - WS-1977: Expand and update the ASHRAE Service Life Table in the HVAC Applications Handbook. Author: Natalie McDonald. Important for doing whole life carbon analysis. Bids due: July 18.
 - WS -1885 (Co-Sponsor) Guideline/Book for Design Installation and Operation of PV (Solar and Other Renewable). TC 6.7 is lead on this. Janice returned to TC 6.7 to write as PTAR instead of RTAR.
 - WS-1947 (Co-Sponsor) Climate change driven extreme temperature effects map for efficiency and resilience map of heat pump technology. TC 2.5 is lead on this. Project went out to bid last fall, and bids were reviewed last January. Parichehr is serving on the PES and PMS.
 - Roadmap for Transitioning Existing Hospitals to Net Zero Energy Hospitals. Co-Sponsor with TC 9.6. Frank Mills is leading this effort. If you are interested in volunteering, see Frank.
 - SP-1988: Whole-Life Carbon Gap Analysis. Lisa Ng with CEBD and Working Group are leading this effort. Project out to bid, closing July 18.
 - New request from Technical Council Special Projects subcommittee to provide a project evaluation subcommittee (PES) member from TC2.8 to serve on Whole-Life Carbon Calculation Methodology for Building Systems. If you are interested, see Kevin Cross.
- 5.5 Programs ~~Theron~~ Karim / Means
- No meeting this cycle.
 - Members encouraged to propose sessions for the Winter Conference, especially related to decarbonization.
 - Janice noted that College of Fellows supported the idea of program around Refrigerants and Climate Change in the programs for next conference. If there is any interest, please contact Janice.
- 5.6 Handbook – Chapters 34 & 35 Morner
- Currently meeting every other month; last meeting was held a week ago. Next meeting is going to be held in beginning of September. September meeting will be to brainstorm ideas for next update in 2029.
 - Sumayyah, Jim and Svein proofread the new chapters (Sustainability and Energy Resources) and will be published soon in 2025 Handbook.

6. Related Activities Reports

- 6.1 Standards
- SSPC 189.1 High-Performance Green Buildings Lawrence
Active and in continuous development for 20 years now. 189.1 is the technical basis for international green construction code. Next update will be in 2026.

- **SSPC 189.3 High-Performance Green Healthcare Facilities** Fick
Just published this month. New Chair (Ashley Mulhall) effective July 1. Committee is meeting tomorrow to discuss updates for next version. 189.1 and 189.3 are interconnected through the administrative component. ASHE has a task force reviewing the standard and impact on healthcare for it's members. Betz is on this ASHE task force.
- **SPC 191P Efficient Use of Water in Buildings** Betz
The 5th public ISC review ended on June 9th and received 18 review comments. The review was focused on updates to definitions and one technical change that came out of the 4th ISC review. The committee will not be meeting in Phoenix, but will have a virtual meeting in mid-late July to respond to all outstanding comments. The goal is to complete the review process by the end of summer, and then work towards publication.
- **SSPC 228 Standard Method of Evaluating Zero Energy Building Performance** Forcellini
- **SPC 227P Passive Building Design Standard** Forcellini
Approved 1st publication last November. Files were corrupt in old portal. Since November rewriting standard in new portal and making very slow progress. Goal is to have it issued in next 3 to 6 months.
- **SPC 240P Whole Life Greenhouse Gas Emissions** Deru / Beth
Beth shared the update noting that committee addressed 800 comments from last public review and currently in (hoping final) 45 day public review. Beth suggested Water Energy Nexus Guide authors to include metrics from this 240P especially around water and waste water related emissions.
Kevin Cross asked how 240P fits in with this proposed research project. Beth clarified that 240P is for whole life carbon footprint of complete building including structural components while the other is specific to embodied carbon of MEP systems. Deru also noted that CEBD published a whole life carbon guide this month which gives high level guidance when looking at building systems, not calculation methodologies.
- **SPC 242 Methods of calculating operational greenhouse gas emissions factors** Deru
242 develops the factors for operational carbon that feeds into 240. Goal is to go out for first public review in September.

6.2 ASHRAE Advanced Energy Design Guides Update Forcellini
No update

7. Old Business

- 7.1 [TC 2.8 Basecamp](#) site
Kevin Brown requested all to join TC2.8 in basecamp as it will be the primary channel of communication since the listserve platform will be going away.
- 7.2 Review Voting Membership roster

Position	Name	End Year	Term Years	Voting Status
Chair	Kevin Brown	6/30/2025	2	Voting (2 Yrs.)
Vice Chair	Lisa Ng		2	Non-voting
Secretary	Rafi Karim			Non-voting
Handbook Subcommittee Chair	Svein Morner	6/30/2026	4	Voting (4 Yrs.)
Program Subcommittee Chair	Sumayyah Theron	6/30/2027	4	Voting (4 Yrs.)
Research Subcommittee Chair	Kevin Cross	6/30/2025	3	Voting (3 Yrs.)
Member Non Quorum	Ashish Rakheja	6/30/2026	4	Voting (4 Yrs.)
Member	Kinga Hydras	6/30/2028	4	Voting (4 Yrs.)

Member	Natalie MacDonald	6/30/2028	4	Voting (4 Yrs.)
Member	Juliana Trigo	6/30/2028	4	Voting (4 Yrs.)
Member	James Sweeney	6/30/2027	4	Voting (4 Yrs.)
Member	Alara Apcin	6/30/2025	4	Voting (4 Yrs.)
Member	Tania Ullah	6/30/2026	4	Voting (4 Yrs.)
Member	Janice Means	6/30/2025	4	Voting (4 Yrs.)

<https://tcroster.ashrae.org/rosterReport?cmtKey=518c6007-fd40-49d5-b8d9-0972f75f3155&fiscalYear=2024-2025>)

www.ashrae.org/joinatc

8. New business

8.1 ASHRAE TEC (Training and Education Committee). ASHRAE is looking for SME instructors interested in reviewing and teaching a 3h course based on the ASHRAE publication [Grid-Interactive Buildings for Decarbonization: Design and Operation Resource Guide](#), developed by the ASHRAE CEED.

If there is any interest, please contact TC 2.8 chair.

8.2 No additional new business

9. Adjourn

Adjourned 4:40pm.

10. NEXT MEETING: Feb 1, 2026, Las Vegas, NV

TC 2.8 Web Site

<http://tc0208.ashraetcs.org>

Upcoming Conferences:

Annual, June 27-July 1, 2026 – Austin

Winter, January 23-27, 2027 – Chicago

Annual, June 12-16, 2027 – New Orleans

Winter, February 6-10, 2028 – Orlando

TC 2.8 Sponsored Programs in Phoenix

Sunday, Jun 22

[Seminar 8: Future-Proofing Our Infrastructure: Optimizing Energy, Air Quality and Sustainability in Building Systems](#)

Phoenix Convention Center North Building , Level 2, 226A

Sunday, Jun 22

3:15 PM – 3:45 PM MST

[Sponsor Tech Talks 1: Simplifying the Shift to Hydronic Heat Pump Systems presented by Trane](#)

Phoenix Convention Center North Building , Level 2, 226A

Monday, Jun 23

11:00 AM – 12:00 PM MST

Panel 4: Faster, Better, Stronger: Resiliency in the Design, Construction and Operations of High Intensity Facilities

Phoenix Convention Center North Building , Level 2, 229A

FREE WIFI at this meeting!

Sheraton Phoenix Downtown

Network: 2025 ASHRAE Conference

Password: PHXAnnual2025!

Phoenix Convention Center

Network: ASHRAE Conference

Password: Phoenix2025

Hyatt Regency Phoenix

Wi-Fi is public. No password required

Important Dates for Submissions for Las Vegas Winter Meeting 2026

- **Thursday, June 19, 2025 | Website Opens for Extended Abstracts and Seminar, Workshop, Forum, Debate, and Panel Proposals**
- **Friday, August 1, 2025 | Debate, Panel, Seminar, Forum, Workshop, and Debate Proposals Due**
- **Wednesday, September 3, 2025 | Conference Papers Due**
- **Wednesday, September 24, 2025 | Conference Paper Accept/Revise/Reject Notifications**
- **Friday, October 3, 2025 | Debate, Panel, Seminar, Forum, Workshop Scheduling Notifications**
- **Wednesday, October 8, 2025 | Revised Conference Papers Due**
- **Monday, October 27, 2025 | Conference Paper Final Accept/Reject Notifications**