



MINUTES

TECHNICAL ACTIVITIES COMMITTEE

2026 Annual Meeting

June 27 & July 1, 2026

Note: These draft minutes have not been approved and are not the official, approved record until approved by the Technical Activities Committee.

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June 27 & July 1, 2026

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**PRINCIPAL MOTIONS
TECHNICAL ACTIVITIES COMMITTEE
June 27 & July 1, 2026**

No.	Motion	Status
1	the TAC minutes from the June 3 rd meeting be approved.	PASSED
2	TAC disband MTG.BIM (Building Information Modeling).	PASSED
3	TAC disband MTG.RES (Resilience)	PASSED
4	TAC recommends the FOAC report recommendations not be accepted by the BOD.	PASSED

Actions from TAC 2026 Annual Meeting:

No.	Responsible Party	Action	Status
1	Section Heads	Email tthomas@ashrae.org with members to get FGs to 6 member minimum before July 1, 2026	
2	Staff	Send notice of TAC decision to disband MTG.BIM to members on the MTG.BIM roster	
3	Aute	Appoint a TAC liaison to Special Projects subcommittee for the next Society Year (SY)	
4	TAC members	Review Tracks for the Winter Conference in Chicago with the following assignments:	
5	Fisler	Make TG2.RAST aware of TAC comments on their scope	
6	Staff	Correct TC 1.09 scope on webpage(s)	
7	Glusenkamp/Sakraida	Clarify if 'number of new members added' on FG activity form refers to PCMs or CMs and update forms as necessary.	
8	Gluesenkamp	Review and suggest changes to Hightower point requirements and compare with H&A points eligibility form	
9	Fisler/Atkisson	Lead training of new section heads (Shakra, Smith, Metzger)	
10	Aute	Share draft MBOs for 26-27 SY before the next TAC meeting	

Actions from TAC #6 Meeting (June 3, 2026):

No.	Responsible Party	Action	Status
1	Section Heads	Complete roster submissions for outstanding TCs shown in Attachment A before June 5.	COMPLETE

2	Kazanci	Kazanci to reach out to MTG.BIM leadership about continuing or disbanding the MTG and make a recommended action to TAC at the Annual Meeting	COMPLETE
3	Metzger and TAC members	Metzger distribute the request for a proposed MTG on Resilient On-Site Energy to TAC members for review prior to the Annual Meeting in Austin	COMPLETE

Actions from 2026 TAC Winter Meeting:

No.	Responsible Party	Action	Status
1	Staff	Make changes to Hightower nomination form to indicate to include last 4 years of TC activities.	COMPLETE
2	MTG Section Heads	Reach out to all MTG chairs to affirm if they wish to continue as an MTG	ONGOING
3	Atkisson Aute, Kazanci, Khanna	Develop a format of minimum information MTGs should include on ASHRAE website	ONGOING
4	Atkisson, Fisler, Khanna, Aute, Kazanci	Review MTG Reference Manual for roster procedures and determine if a periodic review should be performed	ONGOING

Actions from TAC #3 (Nov. 6th, 2025) Meeting:

No.	Responsible Party	Action	Status
3	Kulankara, Aute	Reach out to CEBD to see if they still require multiple (3) TAC liaisons or if number can be reduced	COMPLETE

Actions from TAC #1 (Aug. 4th, 2025) Meeting:

No.	Responsible Party	Action	Status
4	Muldoon	Distribute information on MTG votes for MTG.RES and MTG.RAC disbanding for next TAC meeting.	COMPLETE

LIST OF ATTACHMENTS

ATTACHMENT A:	Final report 2025-2026 MBOs
ATTACHMENT B:	MTG.ROSE proposal
ATTACHMENT C:	ASHRAE Leadership presentation
ATTACHMENT D:	TG2.Whole Life Carbon proposal
ATTACHMENT E:	TAC Reference Manual Update

LIST OF ACRONYMS

BIM	Building Information Modeling	IEQ	Indoor Environmental Quality
BOD	Board of Directors	MBO	Management by Objectives
CEBD	Center of Excellence for Building Decarbonization	MTG	Multi-disciplinary Task Group
CE-IEQ	Center of Excellence for Indoor Environmental Quality	RAP	Research Advisory Panel
CTTC	Chapter Technology Transfer Committee	RAST	Reactive Air & Surface Treatment
CNV	Chair Not Voting	RES	Resiliency
CV	Chair Voting	ROSE	Resilient On-Site Energy
DEI	Diversity Equity and Inclusion		Safety of Next Generation Refrigerants
Ex-O	Ex-Officio	SNGR	
FOAC	Future of ASHRAE Conferences	SY	Society Year
FG	Functional Group	TAC	Technical Activities Committee
GTIC	Global Technical Interaction Committee	TC	Technical Committee
H&A	Honors & Awards	TG	Task Group
IAQMD	Indoor Air Quality Monitoring Devices	YEA	Young Engineers in ASHRAE

MINUTES
TECHNICAL ACTIVITIES COMMITTEE
June 27 & July 1, 2026

MEMBERS PRESENT:

Satheesh Kulankara, *Chair*
Vikrant Aute, *Vice Chair & GTIC*
Jason Atkisson, *Training Coordinator*
Diana Fisler, *Section 2*
Tina Brueckner, *Section 3*
Kyle Gluesenkamp, *Section 4, YEA*
Farzin Rad, *Section 5 & CTTC*
Eric Berg, *Section 6*
Kashif Nawaz, *Section 8*
Kevin Muldoon, *Section 9*
GD Mathur, *Section 10*
Money Khanna, *MTG*
Ongun Kazanci, *MTG*
Vincent Sakraida, *Data Coordinator*
Corey Metzger, *BOD Ex-O*

MEMBERS NOT PRESENT:

Devin Abellon, *Coord. Officer*
Natasha Milesi-Ferretti, *Section 1*
Joshua New, *Section 7*

GUESTS:

Kevin Brown
Franco D'Atri
Trent Hunt, *Incoming Coordinating Officer*
Stephanie Mages
Nilesh Mayani
Calen Sansom
Bass Shakra, *Incoming Member*
Walt Vernon
Stanley Yee
Jonathan Smith, *Incoming Member*
Mike Pouchak, *Incoming BOD Ex-O*

ASHRAE STAFF:

Steve Hammerling, *MORTS*
Tara Thomas, *TSC*
Heather Pierce, *TSE*
Leigh Lain Walker, *MBD*

1. **Call to order**

Chair Kulankara called TAC meeting to order at approximately 8:00 AM EDT.

2. **ASHRAE Value Statement:**

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.

Code of Ethics

Core Values

Diversity Statement

3. **Welcome guests/Roll call/Determination of quorum**

Chair Kulankara welcomed all members and guests in attendance.

4. **Meeting Agenda**

Kulankara asked if there were any changes or additions to the meeting agenda distributed in advance of the meeting. The following were suggested:

- Add item in Section 16 on a Section Head Tool Training
- 14.a) motion to convert MTG.RAST to a TC

5. **Review and approval DRAFT minutes**

TAC Meeting #6 (Jun. 3rd) minutes distributed and posted to TAC Basecamp on June 25.

It was moved (KN) and seconded (OK) that,

(1) the TAC minutes from the June 3, 2026 meeting be approved.

MOTION 1 VOTE: 12-0-1*-2 CNV

*Gluesenkamp abstained for not attending the June 3 meeting

6. **Chair Report**

- 2025-2026 Management by Objectives (MBO) (Kulankara)
 1. **Attachment A** below
MBOs will be reviewed as they are listed on agenda or discussed on Wednesday
- Updates & Announcements:
 - o ASHRAE Master Calendar
New! [Summary document](#) on TAC/FG leadership page
Staff summarized a new tool from ASHRAE to post information for interim meetings throughout the year. Instructions can be found [here](#). Similar to the calendar for Winter/Annual Conferences, meetings can be found and attended by any interested parties. FGs are encouraged, but not required, to use and maintain in this system. Meetings will need Staff approval before being posted.
 - o Other
Automated Activity Form
ASHRAE's IT department is supporting automation of the tool. The next step is to annotate the activity form, explaining how it works. These efforts will begin in late summer with a tool for the committee to review in the Fall.

A subcommittee to assist in the annotation and coordination is recommended. Fisler and Sakraida have volunteered.

7. **Review of Possible Motions**

- Hightower Award (Winter Meeting AI #1)
 2. Ref. Manual Update
- Motion to disband MTG.RES (Resilience)
- Motion to disband MTG.BIM (Building Information Modeling)
- Motion for new TG2.Whole Life Carbon
- Motion for new MTG.ROSE (Resilient On-Site Energy)
- Others?

8. Open Action Items

Actions from TAC #6 Meeting:

#1 – COMPLETE - Section Heads - *Complete roster submissions for outstanding TCs before June 5th.*

There were still a couple of rosters outstanding that Section Heads would track down and complete.

Thomas noted the following TCs did not have the minimum six voting members on the roster revisions: 1.13, 2.10, 4.10, 5.04, 5.05, 7.04, 9.12, 9.13, 10.06. Section Heads were asked to resolve before rosters are finalized. Members should email tthomas@ashrae.org with appointees before July 1, 2026, otherwise an emergency roster will be required to add members. **(Action Item 1)**

#2 – COMPLETE - Kazanci - *Reach out to MTG.BIM leadership about continuing or disbanding the MTG and make a recommended action to TAC at the Annual Meeting.*

It was moved (Kazanci) and seconded (Brueckner) that,

(2) TAC disband MTG.BIM (Building Information Modeling).

BACKGROUND: Kazanci reached out to Chair, Vice-Chair and Secretary who suggested disbanding. Committee has not met in recent years.

MOTION 2 VOTE: 13-0-0-2 CNV

Staff was asked to send notice of this decision to disband to members on the MTG.BIM roster **(Action Item 2)**.

#3 – COMPLETE - Metzger and TAC members - *Metzger to distribute request for MTG on Resilient On-Site Energy to TAC members to review ahead at their Part A meeting in Austin*

A draft proposal for a new Multidisciplinary Task Group (MTG).ROSE (Resilient On-Site Energy) **(Attachment B)** was discussed.

Walt Vernon presented a draft proposal which aims to take a holistic, performance-based view on resilient on-site energy, positioning ASHRAE as a catalyst for the industry.

Atkisson noted that the current scope and roster are limited to healthcare facilities. Vernon agreed is the primary driver but emphasized the concepts can be expanded to other applications. Metzger clarified that the intent is to ensure representation from other organizations, with the ultimate target being the development of an ASHRAE standard. Atkisson noted that the MTG needs TC members beyond TC 9.06, suggesting potential interest from TCs 2.05, 2.08, 2.10, and 6.09.

The possibility of making a formal motion regarding the proposal will be discussed on Wednesday.

Actions from TAC Winter Meeting:

#1 – COMPLETE – Staff – *Draft changes to Hightower nomination form to indicate to include last 4 years of TC activities*

Members seek alignment between eligibility requirements given and the H&A requirements.

#2 – ONGOING - MTG Section Heads - *Reach out to all MTG chairs to affirm if they wish to continue as an MTG*

This is ongoing. The group doing this work now have a specific task with a timeframe.

#3- ONGOING - Atkisson Aute, Kazanci, Khanna - *Develop a format of minimum information MTGs should include on ASHRAE website*

Atkisson is finding a time for the group to meet after this meeting.

#4 – ONGOING - Atkisson, Fisler, Khanna, Aute, Kazanci - *Review MTG Reference Manual for roster procedures and determine if a periodic review should be performed*

Atkisson is finding a time for the group to meet after this meeting.

Actions from TAC #3 (Nov. 6, 2025) Meeting:

#3 - COMPLETE – Kulankara/Aute - *Reach out to CEBD to see if they still require multiple (3) TAC liaisons or if number can be reduced.*

TAC had three liaisons to Special Projects subcommittee of Tech Council last year, but all concluded only one was necessary going forward. Aute would appoint a liaison for the next Society Year (SY) (**Action Item 3**).

Corey Metzger is on both Centers of Excellence and agreed to be the TAC liaison to CE-IEQ for the next SY.

Actions from TAC #1 (Aug. 4, 2025) Meeting:

#4 - COMPLETE – Muldoon - *Distribute information on MTG votes for MTG.RES and MTG.RAC disbanding for next TAC meeting.*

MTG.RAC was disbanded at earlier TAC meeting. MTG section heads will discuss MTG.RES disbanding at the TC breakfast and can consider a vote to disband Wednesday based on feedback.

9. Section Issues

- MTG's
 - Roster update process – reviewing rosters & TC representation on MTGs No further issues than discussed in action items above
 - o Website Template (MTG scope, roster, member TCs/organizations)
 - o Other MTG Reference Manual updates
- Section Heads
 - o Section 10 – There are difficulties with the roster, scheduling, and completing some tasks. He will follow up with chairs and have another update on Wednesday.
 - o TC 4.05 – The chair just completed his 3rd year with no succession plan. Chair will serve a 4th year while the plan is drafted.

- o There is discussion with Whole-life Carbon to become a subcommittee of 2.8. With the goals of the two groups, it doesn't make sense to combine them despite there being some overlap. The next step is to finalize their roster.
- Other

TAC was again asked to review Tracks for the Winter Conference in Chicago with the following assignments (**Action Item 4**):

 - Track 1, Fundamentals and Applications (Nawaz)
 - Track 2, HVAC Systems & Equipment (Rad)
 - Track 3, Refrigeration and Refrigerants (Mathur)
 - Track 4. Research Summit (**tbd**)
 - Track 5, Residential HVAC & Demonstration (Sakraida)
 - Track 6, Thermal Network & Energy Storage (Gluesenkamp)
 - Track 7, Nexus of Real and Artificial Intelligence (Aute)
 - Track 8, Decarbonization and Retrofits (Atkisson)
 - Track 9, Application Notes in Professional Practice (Khanna)

10. **BOD Ex-O / Coordinating Officer**

- BOD Ex-O report

Metzger presented the ASHRAE Leadership presentation (**Attachment C**). Highlights of interest to TAC included the following:

 - o Vision 2035 now available www.ashrae.org/vision2035
 - o Nominations for elected positions are due September 18, 2026 at www.ashrae.org/communities/committees/committee-nominations
 - o New ASHRAE Society Calendar for all ASHRAE meetings
 - o New Center of Excellence for Indoor Environmental Quality is up and running.
 - o New Artificial Intelligence Framework resource on ASHRAE website - www.ashrae.org/technical-resources/ai-data-center-framework

11. **Liaison Updates**

- YEA & Chapter Leadership Academy Update

Gluesenkamp is following up with YEA on the ASHRAE Connect program for shadowing ASHRAE members for an update. To date, just one has signed up for the program.
- Research Advisory Panel (RAP)

TAC doesn't have a standing liaison with RAP. RAP continues to develop the ASHRAE Research Strategic Plan and will present an update at the TC Leadership Breakfast.
- GTIC Updates

Moving forward, TAC vice chair will be a part of TCIS. They are looking for experts from TCs to provide guidance. It is suggested that section heads make an announcement at TC Leadership Breakfast to call for members.
- Center of Excellence for Building Decarbonization (CEBD) updates

No updates were provided but CEBD would present at the TC Leadership Breakfast.
- Center of Excellence for Indoor Environmental Quality (CE-IEQ)

This group is up and running now and will have clear coordination and communication with similar or overlapping groups. Will also present at the TC Leadership Breakfast.

12. **New/Unfinished Business**

There was no new or unfinished business at this time.

13. **Training**

TAC discussed and finalized the agenda for the TC Leadership Breakfast in the morning:

- Welcome Remarks
- DEI and FOAC Updates, Devin Abellon
- CEC Updates, Kristen Cetin
- CE-IEQ Updates, Wade Conlan
- SNGR, Douglas Reindl
- CEBD, Corey Metzger
- Government Affairs, Alice Yates
- FG Chairs Training, Jason Atkisson
- TAC Update, Satheesh Kulankara

RECESS:

Kulankara recessed the meeting at 11:15 AM CDT.

RECONVENE

Kulankara reconvened Part B of the TAC meeting at approximately 7:00 AM CDT.

14. **Section Head Reports**

a) New motions that TAC must consider at this meeting from TCs in section?

- Proposed New TC/TG/TRGs, or Merges, or Disbands?

(1) Disband MTG.RES (Resilience) – Khanna

It was moved (Khanna) and seconded (Aute) that,

(3) TAC disband MTG.RES (Resilience)

BACKGROUND: MTG has not met in two years. TC 2.5 and 2.10 have suggested disbanding this MTG.

MOTION 3 VOTE: 12-0-0-3 CNV

(2) Motion for new TG2.Whote Life Carbon – Fisler – **(Attachment D)**

A motion can be delayed until next meeting until a full roster is submitted. TAC reviewed previously and was supportive of the effort.

(3) Motion for new MTG.ROSE (Resilient On-Site Energy) – Metzger

This effort was discussed in Part A of meeting. Vernon would review the roster and member TCs to ensure proper participation. TAC can consider motion to establish this MTG at future meeting. The roster has not yet been submitted and this motion will move to the next meeting.

(4) Fisler has a request to convert a TG2.RAST (Reactive Air & Surface Treatment) to a TC. Fisler reported that this TG is functioning well. They had a seminar accepted to this meeting and 15+ members at each meeting she's attended. Atkisson asks about the membership. Their intent is not to overlap TCs doing work in ultraviolet (UV), but they may wish to tailor scope to define what they do intend on addressing. The current TG2.RAST scope is:

TG2 is concerned with advancing the knowledge, effectiveness, and safety of Reactive Air and Surface Treatment and associated technologies for air cleaning and surface disinfection. This TG will be responsible for Photocatalytic Oxidation, Ionization, Hydrogen Peroxide, and other associated or new technologies not specifically covered by another TC. In particular, devices using only ultraviolet radiation to destroy or inactivate biological air and surface contaminants in HVAC systems and indoor spaces are not included.

TAC suggested the TG consider a scope change to delete the last sentence of scope and rewrite if desired before formal TAC consideration to change the TG to a TC. Fislser will let them know of this update (**Action Item 5**).

b) Section Reports

Section Heads presented highlights from their written reports

- Section 1 – Atkisson (for Milesi-Ferretti)
 - o 1.09 has an incorrect TPS on the website. They voted to change it last time there was a winter meeting in Chicago. Staff was asked to correct (**Action Item 6**).
 - o Requesting TC feedback on FOAC proposal. Encouraged to collect positive feedback as well – just one TC chair noted support.
 - o Complaints continue over ASHRAE not providing AV or any support for TCs in hybrid TC meetings. (Kulankara notes that this is a funding issue. Some are bringing devices; others ask members in room to log in so they can be miked for all to hear.)
- Section 2 – Fislser
 - o TC 2.10 may need TAC attention or monitoring
 - o No positive feedback on FOAC. Members noted they would need to attend the expo rather than meetings at the Winter meetings
 - o TG.IAQMD may request to be a TC soon
- Section 3 – Brueckner
 - o Strong TCs in section so there are no concerns
 - o Rosters were set after the Winter Meeting and minor tweaks are getting resolved
 - o No positive comments on FOAC
- Section 4 – Gluesenkamp
 - o Overall a great section
 - o TC 4.5 may need some help. Section Head is corresponding with the chair to work on issues.
 - o TRG4.IAQP (Indoor Air Quality Monitoring Devices) is now working within Section Head. They had 27 in attendance at their meeting.
 - o 4.07 formally voted that meetings should remain in-person
 - o 4.10 reported a strong preference for in-person subcommittee meetings with a virtual full TC meeting.
 - o TCs were unsure if 'number of new members added' on FG activity form refers to PCMs or CMs, the form may need updating. Gluesenkamp would follow up with Sakraida prior to the TAC Winter meeting in Chicago (**Action Item 7**).
- Section 5 –Rad
 - o 5.04 is having problems with getting more members, but the discussion was good.
 - o 5.05 have 8 voting members. The number was incorrectly reported and will be corrected.

- o No positive feedback on FOAC
- Section 6 –Berg
 - o A couple TCs had chairs that couldn't attend but the incoming chair ran the meeting well.
 - o 6.03 may need some attention. They've struggled getting new members. They prefer not to combine with another TC
 - o TCs asked to review the FOAC report
 - o There was no positive feedback on FOAC proposal
- Section 7 – Mathur (for New)
 - o 7.04 has a small roster and is focused on handbook chapter, but TAC can monitor their activity if they need any resources.
 - o 7.09 is discussing a possible merger with another TC and can be monitored.
 - o 7.01 has been struggling lately and may need some attention. They recently agreed to be the cognizant committee to Standard 224.
- Section 8 - Nawaz
 - o Meetings were well attended. TCs don't have overlapping schedules and are functioning well
 - o All TCs have 6 members or above.
 - o TCs wish to reinstate the in-person research subcommittee since it functions better this way
 - o No positive feedback on FOAC. Incredibly strong remarks and emotions. A big comment is that there would be no mentorship of young engineers in virtual meetings.
- Section 9 - Muldoon
 - o All section 9 TCs are healthy.
 - o The TC 9.09 meeting was held in a ballroom and was standing room only. They have huge membership and more guests.
 - o No positive feedback on FOAC. Comments are in the section head tool. There was concern the speed of ASHRAE would slow significantly with just virtual meetings.
- Section 10 – Mathur
 - o No positive feedback on FOAC. Comments are in the section head tool.

TAC discussed the report from the FOAC. Based on FG feedback, TAC wished to communicate opposition to the recommendations from TAC and FGs.

It was moved (Atkisson) and seconded (Brueckner) that,

(4) TAC recommends the FOAC report recommendations not be accepted by the BOD.

BACKGROUND: Functional Groups are overwhelmingly against making the Annual Conference virtual and are in favor of keeping the current hybrid arrangement. Meeting in person twice per year is necessary to complete their activities and facilitate healthy FGs. FGs would like better support to make hybrid meetings more effective.

MOTION 4 VOTE: 12-0-0-3 CV

15. Unfinished Business

- Hightower Award (Winter Meeting AI #1)
- 3. Reference Manual Update (**Attachment E**)
Various tasks should be better clarified (i.e. conference chair, technical chair, etc.). These could be interpreted as the chair over the whole conference or just for a conference paper. The Hightower points are inconsistent with the H&A points eligibility form which has more stringent requirements. For the next award cycle, changes should be made. Gluesenkamp volunteered to work on the form. (**Action Item 8**). Requirements should be clarified before nominations in the fall for the December 1 deadline.

16. New Business

Training would be held to train all section heads on the Section Head Tool and FG activity sheets. Fisler and Atkisson would lead training of new section heads (Shakra, Smith, Metzger) **Action Item 9**.

17. Handover to New Chair

- a) Recognize Outgoing Members
Outgoing chair, Satheesh Kulankara, and outgoing TAC members Tina Brueckner and Kevin Muldoon were recognized by the chair and thanked for their service on TAC.
- b) Recognize Incoming Members
Incoming members for the next Society year included Bass Shakra, Corey Metzger, Jonathan Smith, Trent Hunt (CO), Mike Pouchak (BOD ExO). Members in attendance were thanked and all were welcomed to TAC.
- c) Proposed 2026-27 SY TAC assignments
TAC assignments for the upcoming Society Year would be as shown below:

SECTION 2026-2027 (Effective after Austin)

Chair	Vikrant Aute
Vice Chair	Jason Atkisson
Training Coordinator	Diana Fisler
Data Coordinator	Vincent Sakranda
YEA Liaison	Kyle Gluesenkamp
CTTC Liaison	Farzin Rad
Section Head 1	Natascha Milesi-Ferretti
Section Head 2	Bass Shakra
Section Head 3	Jonathan Smith
Section Head 4	Kyle Gluesenkamp
Section Head 5	Farzin Rad
Section Head 6	Eric Berg
Section Head 7	Joshua New
Section Head 8	Kashif Nawaz
Section Head 9	Corey Metzger
Section Head 10	Gursaran Mathur
Section Head MTG (ACR, BIM, CYB, EBO, BEQ)	Ongun Kazanci
Section Head MTG (HCDG, LowGWP, RAC, RES, CEA)	Money Khanna
Coordinating Officer	Trent Hunt
Board Ex-O	Michael Pouchak

d) 26-27 MBOs (Aute)

Aute is developing MBOs for the upcoming society year and aims to share a draft before the next TAC meeting (**Action Item 10**) to get member feedback before reporting to OPS.

e) Next Meetings

A six-week cadence for TAC virtual meetings is working well. The next TAC meeting will be scheduled for late July or early August.

TAC will meet at the ASHRAE Winter Conference on January 23 – January 27, 2027 in Chicago, IL.

18. **Adjournment**

TAC adjourned their meeting at approximately 9:20 AM CDT.

DRAFT

MBO Submissions to Planning Committee

Last submission date: 6/27/2026

Generation date: 8/29/2025

Committee: Technical Activities Committee

Chair: Kulankara Satheesh

Vice-chair: Aute Vikrant C

MBO #	Description	Metric	Completion % /Date	Financial Assist Req'd?	Staff Assist Req'd?	MBO Comments
		(how do we determine success?)				
1	Continue new YEA mentorship program.	Recruit at least 1 new YEA member that would shadow each Section Head. Connect younger talent with the more experienced membership. Work through TAC YEA liaison to establish the correct format and structure.		no	no	We are wanting to create more connections between ASHRAE leadership and our younger membership, and take opportunity for mentorship, professional development, as well as learn ASHRAE processes and procedures. UPDATE: 2 TAC members have volunteered to mentor through ASHRAE Connect program for newer members to shadow more experienced members. One person signed up for mentorship program. TAC liaison to YEA attending their meetings.
2	Work on global collaboration by connecting ASHRAE global regions and chapters with the appropriate TC.	TAC VC attends GTIC meetings activities and reports to TAC	Complete	no	no	TAC VC is member of GTIC and is actively participating. TAC regularly updates membership and FG leadership on GTIC activities. TAC is connecting GTIC to TC expertise as requested. UPDATE: There have been 3 interim meetings. GTIC presented at TAC breakfast to ask for and identify cognizant TCs to provide feedback on documents. GTIC has agreed to include more than 1 TAC member as liaison to foster better coordination. The 2nd TAC member will be a member of the GTIC-TCIS subcommittee.
3	Work on collaboration for CEED projects	TAC Chair and TAC liaisons attend the SP sub-committee of Tech Council and reports back to TAC	Complete	no	no	TAC Chair is a member of the SP committee, which oversees CEED activities. The TAC Chair can take actions as needed to connect society membership expertise with identified needs for CEED projects. UPDATE: CEED is meeting regularly with TAC participation. CEED is presenting at TAC breakfast. There are multiple research projects ongoing with various TC and TAC member support.
4	Emphasize TC Chairs training for effective operations, using existing administrative resources and procedures and outreach to other standing committees	Every Chair's Breakfast program includes a training from a different standing committee	Complete	no	no	TAC VC will be working to create the TC Chair's breakfast agenda and coordinate with other ASHRAE committees to provide updates to FG Chairs during the breakfast meeting UPDATE: Reports at Austin breakfast from multiple outside committees. TAC developed library of TC training tools on TAC/FG Leadership Basecamp and the website.
5	Train new TAC members	(ongoing activity)	Complete	no	yes	Active role on TAC is training coordinator for full-filling this responsibility UPDATE: plan new member training for Fall 2026
6	Update TAC informational tools, e.g. Functional Group Evaluation Workbook, TAC webpage, TAC FG Database	TAC Data Coordinator to continue updating TAC data collection tools and update TAC FG Database of FG activities	Complete	no	yes	Active role on TAC is data coordinator for fulfilling this responsibility. Training Coordinator and Data Coordinator led breakfast training in Las Vegas. New TC Activity form and evaluation forms utilized in Las Vegas. TAC leadership met with ASHRAE Staff to develop a plan to help automate these activity sheets. UPDATE: Staff working with 2 members to annotate current tool and identify opportunities for self-population, for ASHRAE IT to automate. Plan for development in Fall and use at Winter 27 meeting.
7	Initiate the process for automating FG activity data collection and creating data dashboards for reviewing FG operations	complete or incomplete (will never be fully complete)	Complete	no	yes	This is likely to be a goal that spans multiple years that seeks to reduce manual effort required to create and analyze FG activity data. Progress is dependent on funding available and selection of a contract TAC leadership met with ASHRAE Staff to develop a plan to help automate these activity sheets. UPDATE: Staff working with 2 members to annotate current tool and identify opportunities for self-population, for ASHRAE IT to automate. Plan for development in Fall and use at Winter 27 meeting.
8	Collaborate with the ASHRAE IEQ Hub Strategic Evaluation Ad-Hoc	Assign a TAC member to be a liaison/member of the IEQ Strategic Evaluation Ad-Hoc	Complete	no	no	The designated TAC member will attend Ad-Hoc meetings and can take actions to connect ASHRAE FGs with needs identified by the Ad-Hoc UPDATE: Center of Excellent for Indoor Environmental Quality approved and meeting in Las Vegas. 10 members with 2+ liaisons. TAC and TCs will participate
9	TAC to support Research Advisory Panel and provide input from FG perspectives in shaping the next Research Strategic Plan.	RAP receives the necessary input and exposure from all FGs.	Complete	no	no	TAC to coordinate FG participation through surveys and Chair's Breakfast participation. TAC Vice-Chair assigned to liaise with RAP UPDATE: RAP reported at TC and Research Breakfasts. A survey was sent to TC leadership. Draft plan anticipated for Winter 2027 meeting.
10	Help CEC review and rank program submissions for annual and winter conference	Assign volunteers from TAC to review and rank program submissions for Winter and Annual conferences	Complete	no	no	TAC members will review program submissions for ASHRAE conferences to help ensure an impactful and quality technical program. UPDATE: TAC continues to rank program submissions. Did so for Las Vegas and Austin programs.
11	Continue online rostering project	complete or incomplete (will never be fully complete)	Complete	Yes	yes	TAC continues to collect feedback for continuous improvements. Training provided at breakfast for roster updates at breakfast. Rosters due March 6th. UPDATE: Phase 2 efforts identified and ready for implementation.

MTG PROPOSAL FORM

Return Form to:
Assistant Manager of Research & Technical Services
ASHRAE
180 Technology Parkway NW
Peachtree Corners, Georgia 30092
☎ 404-636-8400 • Fax 404-321-5478
E-mail: amorts@ashrae.net

Initial Submission Date: April 15, 2026

Revised Submission Date: [Click or tap here to enter text.](#)

Proposer Name & Email Address:

Walt Vernon, walterv@mazzetti.com

MTG Title

Integrated Low-emission Healthcare Energy Resilience Systems Multidisciplinary task group

MTG Purpose

To develop a new ASHRAE standard — or foundational framework document suitable for joint development with NFPA and other relevant organizations — governing integrated, low-carbon, resilient, behind-the-meter energy systems for healthcare facilities. The deliverable would be written to serve as a reference standard for NFPA 99, NFPA 70 (Article 517), NFPA 110, ASHRAE 170, and other applicable codes and standards, enabling those standards to point to a single, coherent, technologically current framework rather than maintaining parallel and sometimes conflicting requirements.

MTG Scope

To develop a new ASHRAE standard — or foundational framework document suitable for joint development with NFPA and other relevant organizations — governing integrated, low-carbon, resilient, behind-the-meter energy systems for healthcare facilities. The deliverable would be written to serve as a reference standard for NFPA 99, NFPA 70 (Article 517), NFPA 110, ASHRAE 170, and other applicable codes and standards, enabling those standards to point to a single, coherent,

technologically current framework rather than maintaining parallel and sometimes conflicting requirements.

The MTG would develop requirements and guidance covering:

- Integrated electrical and thermal on-site energy generation, storage, and management for healthcare facilities
- Multi-form energy storage, including electrical (battery), thermal (chilled water, hot water, thermal mass), chemical (hydrogen, fuel cells), and other emerging forms
- Performance-based compliance pathways as alternatives or complements to prescriptive requirements, with explicit criteria for demonstrating clinical continuity, safety, environmental performance, resilience, and operational readiness
- Resilience definitions and metrics that go beyond traditional utility outage scenarios to include degraded grid conditions, demand response events, extreme weather, and long-duration stress events
- Carbon and emissions considerations for on-site energy systems, including operational carbon, fuel sourcing, and lifecycle emissions
- Operational integration with external grid and utility signals, including demand response, capacity markets, and grid services
- Seasonal and time-varying energy storage strategies calibrated to actual facility load shapes and climate conditions
- Guidance on sizing on-site fuel and energy reserves that reflects actual operational conditions rather than worst-case prescriptive assumptions

This MTG would not duplicate the scope of existing NFPA or ASHRAE standards but would provide an integrated framework to which those standards could reference, reducing inconsistency and enabling technology-neutral compliance pathways.

Background

[Click or tap here to enter text.](#)

Healthcare facilities depend on reliable, continuous energy systems to sustain clinical operations. The current standards framework — distributed primarily across NFPA 99, NFPA 70 (Article 517), NFPA 110, and ASHRAE 170 — reflects a paradigm developed around a specific and now increasingly obsolete architecture: a utility connection as the normal source, a diesel generator as the backup, and separate electrical and thermal systems treated independently.

That framework, while foundational, is no longer sufficient for three reasons.

First, the technology landscape has changed fundamentally. Distributed energy resources — solar photovoltaic, battery energy storage, hydrogen fuel cells, thermal storage, combined heat and power, and grid-interactive controls — now make it possible to construct resilient on-site energy systems from many smaller, coordinated components rather than one large backup generator. These architectures can be more reliable, more flexible, and lower in emissions than legacy approaches. The current standards do not provide an adequate framework for evaluating or permitting them.

Second, the operating environment has changed. Healthcare facilities now face grid stress events, demand response obligations, capacity constraints, extreme weather, utility cost volatility, building performance standards, and carbon regulations — conditions that do not fit the traditional "emergency outage" definition but which can nonetheless impair clinical operations or impose serious financial and

regulatory consequences. Standards built around the binary of "utility on / utility off" do not address this reality.

Third, the standards themselves are siloed. NFPA and ASHRAE have developed their requirements independently, leaving gaps and inconsistencies at the boundary between electrical and thermal systems. A facility may maintain electrical service and still lose clinical capability if it cannot sustain required thermal and ventilation conditions. The interdependencies between electrical and thermal systems are real, but the standards do not address them in an integrated way.

Several recent developments illustrate both the urgency and the opportunity. The National Electrical Code Public Input for a new Section 517.30(C) — Healthcare Microgrid — Alternate Means of Compliance, filed with CMP-7 in April 2026, demonstrates that regulators and practitioners are ready for a new paradigm. Commissioned projects including the Klickitat Valley Health hydrogen fuel cell emergency power system and the Valley Children's Hospital 12 MWh flow battery — the latter being designed with Sandia National Laboratories — provide real-world proof of concept. The U.S. Consortium on Long Duration Energy Storage, through its work at Sandia National Laboratories, has developed technical resources that could directly support this standards effort. The Joint Commission has also expressed interest in a more coherent framework that can guide the survey process for facilities implementing these new system architectures.

Problem Statement & Desired Deliverables

Problem Statement: Healthcare facilities are under increasing pressure from energy markets and regulatory forces. Prices are rising quickly, and grid fragility threatens to degrade electrical reliability. Increasing frequency and severity of severe weather events further challenges the energy reliability of these critical facilities. As large loads, healthcare buildings in general, and hospitals in particular, increasingly need to better respond to grid challenges. New technologies are rapidly becoming feasible responses to these challenges — including battery storage, renewable generation, fuel cells, thermal storage, and microgrid controls — that current standards were not designed to evaluate, permit, or survey. The result is regulatory uncertainty, inconsistent AHJ interpretation, friction in project approval, and missed opportunities to improve resilience and reduce emissions. No single standard currently addresses the integrated performance of electrical and thermal on-site systems, nor provides a performance-based pathway for demonstrating clinical continuity using new technology architectures.

Desired Deliverables:

1. A new ASHRAE standard (or ASHRAE-led joint standard with NFPA and other organizations) establishing requirements and guidance for integrated, low-carbon, resilient healthcare energy systems — written in a form suitable for adoption by reference into NFPA 99, NFPA 70, NFPA 110, ASHRAE 170, and related standards.
2. Suggested addenda or revisions to ASHRAE 170 and, in coordination with NFPA, to NFPA 99 and NFPA 110, to create cross-references to the new standard.
3. A performance-based compliance framework with explicit criteria for demonstrating that an integrated system meets the clinical continuity, safety, and resilience intent of existing requirements.

4. Guidance on multi-form energy storage sizing methodologies calibrated to actual clinical load profiles, climate conditions, and utility rate structures.

Anticipated Timeline & Suggested Sunset Date

- Months 1–6: Organizational formation, scope refinement, gap analysis of existing standards
- Months 7–18: First working draft
- Months 19–30: Public review and comment
- Months 31–42: Final standard development and ballot
- Month 42–48: Publication target

Suggested Sunset Date: 7 years from formation, with mandatory review at 5 years given the pace of technology change in this domain.

Impact on Other TC/TG/TRG/MTGs

This MTG would have direct interface with ASHRAE TC 9.6 (Healthcare Facilities), which would be a primary voting participant. Interaction would also occur with TCs addressing thermal systems, energy storage, building controls, and ventilation.

On the NFPA side, the MTG's work would directly inform and need coordination with the technical committees responsible for NFPA 99 (Health Care Facilities Code), NFPA 70 Article 517 (CMP-15 and CMP-7), and NFPA 110 (Emergency and Standby Power Systems). IEEE P3006 and the White Book healthcare working group are also relevant.

The MTG would not duplicate or replace the work of any existing TC but would provide an integrating framework to which existing standards could reference.

Overall Benefit to Society at Large

Healthcare facilities are the infrastructure of last resort. They must operate continuously through grid failures, extreme weather, and public emergencies — and they do so while facing serious financial pressure, growing carbon obligations, and increasing exposure to grid instability. The current standards framework leaves them without clear guidance for deploying the technologies that could address all of these challenges simultaneously.

A new integrated standard would: improve patient safety and clinical continuity by enabling more resilient system architectures; reduce healthcare's contribution to carbon emissions by providing a

clear pathway for low-carbon energy systems; lower the long-run cost of resilience infrastructure by enabling performance-based optimization; reduce regulatory friction and inconsistent AHJ interpretation; and help healthcare facilities serve as grid assets — stabilizing the communities they serve — rather than simply loads to be managed.

The benefit extends beyond healthcare. Hospitals are among the largest and most reliable energy loads in their communities. Facilities that can island, respond to grid signals, and operate on diverse energy sources become anchors of community resilience during the events when communities need them most.

Proposed Roster

Requirements below apply to MTG Rosters Only:

- * Only one person from each TC/TG/TRG or non-TC group participating in MTG may serve as voting member.
- * The Chairs or leaders of participating TC/TG/TRG s or non-TC groups will designate the MTG member to represent their group with a vote on the MTG.
- * Alternate Members are nominated by the MTG Chair, and there are no restrictions on the number or affiliations of nominees
- * Alternate Members are expected to participate in MTG activities and attend meetings when possible.
- * An Alternate Member normally has no right to vote at the MTG level, but can vote at the MTG subcommittee level
- * An Alternate Member may be given proxy authority, however, by a MTG voting member to vote in his or her absence so that groups participating in the MTG are always represented in a MTG vote.
- * Chair & Vice Chair must be ASHRAE members
- * Leadership team shall have completed the ASHRAE Leadership Development Auto-Tutorials

	Position	Person's Name:	TC/TG/TRG or Non-TC Group Affiliation	User, General, or Producer	ASHRAE Member #
1	Chair:	Walt Vernon	TC 9.6, 189.3, NFPA 99, 70, FGI, NAM	General	
2	Vice-Chair:	Leah Hummell	189.3, ASHE, FGI	User	
3	Voting Member:	Corey Metzger		General	
4		Krista Biason	NFPA 99, 70, FGI	General	
5		Jamie Schnick	NFPA 99, 70, HCAI	General	
6		Roger Lautz	NFPA 99, TC 9.6	General	
		David Thomsen	TC 9.6, Providence	User	
		Tim Peglow	TC9.6, 90.1, MD Anderson Cancer Center	User	
		Travis English	TC 9.6, Kaiser	User	
7		Skip Gregory	NFPA 110, FGI, former ASHRAE 170	General	
		Michael Sheerin	Former chair, 170, former chair, 189.3, TC 9.6	General	
		Jennifer Isenbeck Pille		User	
8	Alternate Member:				

T A C U S E O N L Y :

Date Received: _____ Date Sent to TAC/FP: _____ Meeting Date: _____ Approved? Yes No

Responses to TAC Feedback/Comments

Include questions/responses from TAC, if this is an updated version.



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ASHRAE Policies		
ABOUT TECHNICAL RESOURCES PROFESSIONAL DEVELOPMENT CONFERENCES COMMUNITIES MEMBERSHIP		
Code of Ethics 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 interest.	Harassment and Discrimination ASHRAE strictly prohibits and does not tolerate discrimination against members or applicants for membership because of such individual's race, color, religion, age, sex, sexual orientation, national origin, physical or mental disability, pregnancy, genetic information, veteran status, uniformed service member status, or any other category protected under applicable law.	Commercialism ASHRAE's Commercialism Policy allows for Society activities that fulfill the mission of technological advancement with adherence to business plans that generate income to offset operational expenses such as AHR Exposition, ASHRAE periodicals, website, and Society conference events such as the Welcome Party, luncheons, registration kits, and receptions.
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.		

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Government Affairs
Alice Yates



Member Services
Lizzy Seymour



Administrative Services
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Technology
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MARKETING CENTRAL

ASHRAE Acronym Guide

Download this quick guide for an easy reference of acronyms commonly used in ASHRAE. Easily see and search through over 400 terms!

DOWNLOAD

Presentations

Find the most current:

- ▶ ASHRAE Leadership
- ▶ *This Is ASHRAE*
- ▶ ASHRAE Handbook
- ▶ Research Promotion
 - ▶ Standards
- ▶ Technical Committees
- ▶ Other presentations

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ASHRAE President

Bill McQuade, P.E., CDP, Fellow ASHRAE, LEED AP is ASHRAE's President for the 2025-26 term.

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ASHRAE Branding Guide

Reference this quick and informative resource for all of your ASHRAE branding needs and questions including logos, color palettes, chapter information, and typography.

LEARN MORE

Visit Marketing Central for marketing materials and resources.

- Brochures
- Press Releases
- Forms
- Chapter Logos
- Newsletters

...and more!

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ASHRAE Society Calendar

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All ASHRAE events for the Society year in one place for a seamless experience online and on ASHRAE 365.

Contains

- ✓ In-Person and Virtual Meetings & Events
- ✓ ASHRAE BOD, Council, and Committee Meetings
- ✓ Functional Group Meetings
- ✓ Project Committee Meetings
- ✓ Centralized Trainings
- ✓ ASHRAE Training Opportunities
- ✓ Endorsed Events & Tradeshows
- ✓ ASHRAE Winter, Annual, Topical and CRCs

NOTE: ASHRAE Conferences will continue to have detailed events in ASHRAE 365. Chapter and Region events will not be included.

Look for it July 2026!

ashrae.org/calendar

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Vision 2035 Now Available



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Check out the new Vision 2035!

ashrae.org/vision2035

Vision 2035 and previous long-range vision plan editions serve as time-bound milestones advancing ASHRAE's overall [Mission and Vision](#). It provides guidance for continuity across [Strategic Plans](#) through 2035.

Focus Areas

- ✓ Personalized and Resilient Environments
- ✓ Regenerative Development
- ✓ Human Centered and Equitable Design
- ✓ Intelligent Building Lifecycle
- ✓ Low Carbon and Circular Built Environments

Update: ASHRAE Strategic Plan is extended through 2030

ashrae.org/strategicplan



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President's Luncheon



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Monday, June 29 | 12:15 PM

Ticket Required

Welcome new board members and thank outgoing members at the President's Luncheon.

Hear incoming Society President Sarah Maston introduce the Society Theme:

**Changing the Game:
Retrofitting for Resilience**

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Government Affairs



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Hot Topics in Government Affairs



AI / Data Centers



Refrigerant Transition



EPCA Modernization (DOE
Appliance and Equipment Standards)



Energy Codes, Resiliency and Affordability



IAQ/IEQ/Thermal Comfort



Workforce Development (trades and STEM)

Sign up for the Government Affairs Update
online or email GovAffairs@ashrae.org

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RP and ASHRAE Foundation: Supporting ASHRAE's Mission



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Projections for Society Year ending June 30, 2026



\$2.8M Raised through Research
Promotion Campaign



\$830,000 Raised for Endowments
with the ASHRAE Foundation



\$275,000 Awarded through
79 Scholarships



\$2M Raised for ASHRAE Research



\$35,000 Raised by College
of Fellows and Life Members Club



\$1.2M Given by ASHRAE
Regions, Chapters and Sections

More than 3,500 contributions from Members, Organizations and other Associations

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Center for Excellence in Building Decarbonization (CEBD)



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CEBD Strategic Planning Retreat



Kenya



Lebanon



India

Building Code Workshops

Strategic Planning Retreat *(Held April 24-25, 2026 in Washington, DC)*

- ✓ Strategized Alignment with CE IEQ
- ✓ Developed Future Strategic Initiatives & Existing Enhancements

SY 2026-2027 Strategic Initiatives

- ✓ Asserting Leadership in Whole Life Carbon
- ✓ Charting the Path to 2050
- ✓ Accelerating Market Adoption & Insight

Enhancements to Existing Priorities

- ✓ Additional Building Code Assessment Tool (BCAT) Workshops
- ✓ CEBD Chapter Engagement & Ambassador Program
- ✓ Strengthen Committee-to-Committee Collaboration

Additional Activities

- ✓ Tech Council: Five (5) Research Projects Underway
- ✓ Members Council: Distinguished Lecturer Presentation on Decarbonization Retrofits
- ✓ Publication & Education Council: Two (2) Design Guides and Two (2) eLearning Courses
- ✓ Building Code Workshop held at Developing Economies Conference

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Center for Excellence in Indoor Environmental Quality (CE IEQ)



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CE IEQ April 23-24, Washington, DC



Available July 1, 2026 at

ashrae.org/CEIEQ



Strategic Planning Retreat

- ✓ Develop IEQ Roadmap
- ✓ Harmonize Current & Expedite Future IEQ Guidance
- ✓ Strategize Alignment with CEBD, EHC, & GAC
- ✓ Create External Engagement & Liaison Strategy
- ✓ Develop Future Strategic Priorities

SY 2026-2027 Strategic Priorities

- ✓ Announce and Activate CE IEQ
- ✓ Develop IEQ Operator Checklist
- ✓ Develop Standards-specific Guidance
- ✓ Continue Support for 235p
- ✓ Develop a Holistic IEQ Briefing Document
- ✓ Develop Metrics for IEQ & Energy Nexus
- ✓ Review & Strengthen Organizational Relationships

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NEW! AI Data Center Framework

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A one-stop shop for AI Data Center planning and development.
Available in 'Technical Resources' on ashrae.org.





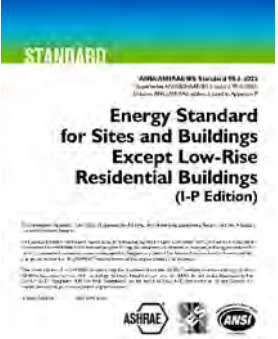
 Planning and Siting	 Integrated Design Principles	 Energy and Thermal Efficiency
 Grid Interactivity and Demand Flexibility	 Resilient Design	 Commissioning and Performance Validation
 Operations and Maintenance	 Retrofit and Modernization Strategies	 Tools, Standards, and Resources

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Standards & Guidelines

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New Standards

 Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings (I-P Edition)	 Ventilation of Health Care Facilities	 A Control Description Language for Building Environmental Control Sequences	 Climatic Data for Building Design Standards
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ASHRAE Bookstore

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Coming Soon!

ASHRAE POCKET GUIDE
for Air Conditioning, Heating,
Ventilation, Refrigeration
SI
11th Edition

ASHRAE POCKET GUIDE
for Air Conditioning, Heating,
Ventilation, Refrigeration
I-P
11th Edition

Principles of Heating,
Ventilating,
and Air Conditioning
Tenth Edition
Based on the 2025 ASHRAE Handbook—Fundamentals
Károly L. Jassó, PE
Julia A. Kean, PhD, PE
Andrew M. Struel, PE
Megan Toth, PE

2026 ASHRAE HANDBOOK
REFRIGERATION
I-P Edition
Supported by ASHRAE Research

2026 ASHRAE HANDBOOK
REFRIGERATION
SI Edition
Supported by ASHRAE Research

Pre-order PHVAC and 2026 ASHRAE Handbook -- Refrigeration

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Professional Development

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eLearning

Updated Course

COURSE PACKAGE

ASHRAE

UPDATED

eLearning



HVAC CONTROL SYSTEMS I-P

ASHRAE Learning Institute

Free Publication

Live Virtual Training
Training that fits your schedule
and your goals.



Register for ALI's Live Virtual Training and receive a FREE ASHRAE Standard or Guideline!

Certification

Record Application Total
On Track for SY 2026



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Professional Development



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Thanks to the contributions from **Richard and Mary Farr, the Setty Family Foundation, and the Jim and Nancy Fields Professional Engineering and Technology Development Fund**, the Professional Development Scholarships will provide eligible ASHRAE Members with **35%-50% off the listed member registration fee.**

Criteria

- ✓ Within first five years of membership
- ✓ Apply 3 weeks before your course
- ✓ Must include a chapter officer's support letter

Where to apply? Check the page of the course you're interested in for an application.



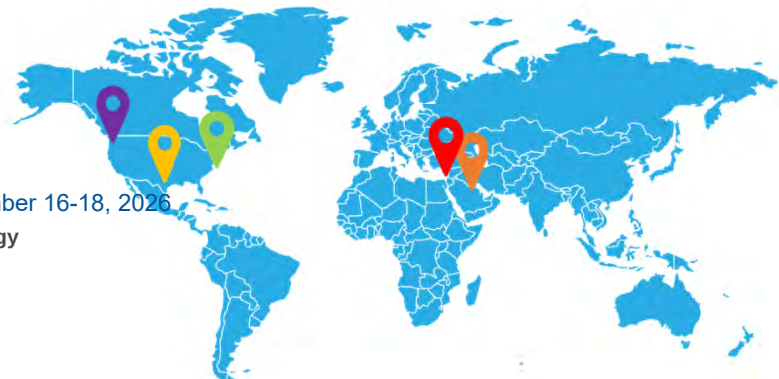
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2026 - 27 Topical Conferences



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- 
Seattle, WA, September 23-25, 2026
 2026 ASHRAE Building
 Decarbonization Conference
- 
Beirut, Lebanon, October 8-9, 2026
 Seventh International Conference on
 Efficient Building Design
- 
Kuwait University City, Kuwait, November 16-18, 2026
 Ninth International Conference on Energy
 Research and Development (ICERD – 9)
- 
Dallas, TX, March 3-5, 2027
 2027 ASHRAE Data Center and AI
 Integration Conference
- 
Baltimore, MD, April 12-13, 2027
 Women in ASHRAE Leadership Symposium



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Future Conferences + 2027 ASHRAE Winter Conference

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Changes to Future ASHRAE Annual Conferences

The Future of ASHRAE Conferences Ad Hoc charge is to recommend a new overall Society conference strategy which specifically focuses on **changes to the typical Annual Conference**.

A recommendation will be made at the 2026 Annual Conference in Austin. Approved changes will be reflected in **the coming years**.

Any approved changes will **not** go into effect until 2030. Annual Conference will remain the same through 2029.

Join us in Chicago
Jan 23 - 27

Registration Opens in
September

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Nominate for Committees and Awards

ABOUT | TECHNICAL RESOURCES | PROFESSIONAL DEVELOPMENT | CONFERENCES | [COMMUNITIES](#) | [MEMBERSHIP](#)

Find Committees and Nominate Yourself or Others

SEP
2026

September 18: Nominations for elected positions are due. (Publications & Education Council, Tech Council, RAC, TAC, Standards, Handbook, Nominating)

FEB
2027

February: Nominations for appointed committees are due.

JUN
2026

June: Speak with your committee ExO/CO if your current appointment/elected position ends to be nominated for another.

HONORS & AWARDS

The following awards have a DEC 1 deadline:

- Andrew T. Boggs Service Award
- Distinguished 50-Year and 75-Year Member Award
- Distinguished Service Award (DSA)
- Louise & Bill Holladay Distinguished Fellow Award
- Exceptional Service Award (ESA)
- Eunice Foote Decarbonization Award

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Simplified Model

VOTE TODAY

Proposed Bylaws amendment on Spring Ballot,
emailed to you in late April from noreply@directvote.net.

Member Grade					Student Member Grade		Other
Member					Young Professional	Tenured Professional	Life Service Member
					Presidential Member	Student Member	Student Branch Advisor
					Honorary Member		
WB Tier 1 Standard Dues	WB Tier 2 80% of dues	WB Tier 3 60% of dues	WB Tier 4 40% of dues	50% (+ tier discount)	FREE	90% (+ tier discount)	80% (+ tier discount)
Anyone involved in the building sciences industry					Anyone ≤ 35 yo who joins pays this fee first for 2 years	Anyone ≥ 65 yo with 25 years cumulative membership	30 yrs cumulative member + ≥ 65 + DSA or 15 qualifying service points
					Served as Society President	Must be currently enrolled in university, college, junior college or technical institute	Faculty member who is ASHRAE member & must submit application and submit annual report
Handbook Online + *Journal, HPB, Insights + Tech Portal + Member Pricing + Voting Privileges and Serve as C,R,S level roles Choice of 1: eLearning Course, Certification Study Guide, Standard or Guideline					Handbook Online + *Journal, HPB, Insights + Tech Portal + Member Pricing	Same as Member + waived dues, extreme discounts to W&A Conferences, Invitations to VIP events (Presidential Only)	Same as Young and Tenured Professionals
Additional New Member Benefits: Receive a Comp Winter or Annual Conference to attend in first 3 years + Handbook Online access for 1 year							Full Member Benefits if requested

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Proposed Dues Rates

VOTE TODAY

Proposed Bylaws amendment on Spring Ballot,
emailed to you in late April from noreply@directvote.net.

Career and Economic discounts off main dues rate as set by the Board of Directors.

Economic discount based on country of residence as defined by the World Bank.

High Income = Tier 1, Upper Middle Income = Tier 2, Lower Middle Income = Tier 3, Low Income = Tier 4

ASHRAE Membership Dues Rate Table		Career Based Discount				
		All Others	Young Pro OR Tenured Pro	Student Branch Advisor	Student	Life Service & Honorary
Economic Discount		0%	50%	80%	90%	100%
World Bank Tier 1	0%	\$290	\$145	\$60	\$30	FREE
World Bank Tier 2	20%	\$230	\$115	\$45	\$25	FREE
World Bank Tier 3	40%	\$175	\$90	\$35	\$20	FREE
World Bank Tier 4	60%	\$115	\$60	\$25	\$10	FREE

The dues rates and percentages are for **illustrative purposes only**, based on 2026-2027 dues rates. The Finance Committee is responsible for reviewing, recommending changes and interpreting fees, dues, and privileges. (ROB 2.408.004)



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Timeline

Learn More at ashrae.org/2026Bylaws



PLEASE VOTE! Election Closes
Saturday, 3:00 PM CT June 27!



Please vote on the Proposed Bylaws amendment on Spring Ballot. Questions? Email ballot@ashrae.org.

By June 30, 2027: If Bylaws amendment are approved, all changes made to membership database, website, promotional materials, ROB, Committee/Council MOPs and training materials.

July 1, 2027: New model implemented.

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Media Inquiries



**Asked to make a statement
on behalf of ASHRAE?**

Please send all media
inquiries to
publicrelations@ashrae.org
before responding to
members of the press.

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Thank you!
Questions or Comments?
ashrae.org

TG/TRG PROPOSAL FORM

Return Form to:
Assistant Manager of Research & Technical Services
ASHRAE
180 Technology Parkway NW
Peachtree Corners, GA 30092
☎ 404-636-8400 • Fax 404-321-5478
E-mail: amorts@ashrae.net

Date: March 20, 2026 (DRAFT)

- Turn in no later than 3 weeks prior to the meeting for consideration by TAC

TG/TRG Name: Whole Life Carbon

TG/TRG Section: TG 2.XX

TG/TRG Scope¹:

This TG advances technical knowledge in whole life carbon and carbon-equivalent emissions through practical, implementation-focused activities. The TG adopts a holistic perspective on the built environment in support of global reductions, with emphasis on mechanical, electrical, and plumbing (MEP) systems and HVAC&R. Its scope encompasses operational and embodied carbon impacts that influence lifecycle greenhouse gas emissions. The TG provides a forum to coordinate research, harmonize data and methodologies, support standards and technical documents, foster cross-disciplinary collaboration, and promote best practices to enable informed decision-making and advance net-zero whole life carbon outcomes consistent with the ASHRAE Position Document on Building Decarbonization.

The TG shall designate a member to coordinate with the Center of Excellence for Building Decarbonization Technology Council liaison.

¹Please see page 2 for an example of a TG scope.

Impact on Other TC/TG/TRGs:

Most Directly Impacted

- TC 2.8 – Building Environmental Impacts and Sustainability - while 2.8 addresses life-cycle assessment concepts and broader environmental performance metrics, this TG would be explicitly limited to whole life carbon (GHG emissions only). The relationship can be complementary.

Building Performance & Construction (Embodied + Operational Interface)

- TC 1.13 – Optimization
- TC 2.5 - Global Climate Change
- TC 4.4 – Building Materials and Building Envelope Performance
- TC 4.7 - Building Energy Modeling
- TC 7.4 – Exergy Analysis for Sustainable Buildings
- TC 7.6 – Systems Energy Utilization

Standards Interaction (Not TCs but Highly Relevant)

- SPC 90.1 – Energy Standard for Buildings Except Low-Rise Residential Buildings
- SPC 228P – Standard Method of Evaluating Zero Net Energy and Zero Net Carbon Building Performance
- SPC 240P – Quantification of Life Cycle GHG Emissions of Buildings
- SPC 242P – Standard Method for Calculation of Building Operational Greenhouse Gas Emissions
- SPC 244P – Sustainability Assessment for Mechanical, Electrical, and Plumbing Products

TG/TRG Roster:

- minimum of 6 members; maximum of 18 members
- no more than one (voting) member from each company
- identify subcommittee chairmen (program, standards, research [TG's only]) where possible
- Chair & Vice Chair must be ASHRAE members
- maximum of 2 members non quorum

		<i>Person's Name:</i>	<i>Company</i>	<i>ASHRAE Member #</i>
1	<i>Chair:</i>			
2	<i>Vice-Chair:</i>			
3	<i>Secretary:</i>			
4				
5				
6				
7				
8				
9				
10				

T A C U S E O N L Y :

Date Received: _____ Date Sent to TAC/FP: _____ Meeting Date: _____ Approved? Yes No

Example Scopes***Technical Committee 1.5, Computer Applications***

TC 1.5 is concerned with determination of computer applications to the design and optimization of refrigeration, heating, and air-conditioning systems, equipment and components thereof; and with programs for all such uses.

Technical Group 1.GLE, General Legal Education

TG1.GLE will educate the ASHRAE membership in general legal matters, which touch and concern the HVAC industry and its members. The committee will enable this education through the selection of speakers and offers for programs, and through the publication of articles and other educational materials.

APPENDIX E - PROCEDURE FOR GEORGE B. HIGHTOWER TECHNICAL ACHIEVEMENT AWARD

1. PURPOSE.

The purpose of the George B. Hightower Technical Achievement Award is to recognize annually an individual for excellence in volunteer service in the area of FG technical leadership and contribution, which includes all FG and MTG activities except for research and standards. The award will serve to heighten general membership awareness of, and interest in, Society activities at the FG level.

George B. Hightower was an exceptional ASHRAE member. A member since 1938, he regularly attended Society meetings until his health began to fail. No other person has received more Society level awards than George B. Hightower. He received the ASHRAE-Alco Medal for Distinguished Public Service in 1974; became an ASHRAE Fellow in 1977; received the Distinguished Service Award in 1984; the Distinguished 50-Year Member Award in 1988; the Andrew T. Boggs Service Award in 1997; and the Louise and Bill Holladay Distinguished Fellow Award in 2000.

2. AWARD PRESENTATION.

The George B. Hightower Technical Achievement Award is presented annually but may be omitted if a suitable candidate is not identified. The award will consist of an acrylic trophy with the recipient's name and the year of the award etched into the face of the trophy. The award will be donated by the Atlanta Chapter, to which Mr. Hightower belonged.

3. ELIGIBILITY.

The award is open to ASHRAE FG voting and corresponding members who meet the minimum point requirement detailed in Section 7. Technical Activities Committee (TAC) and Technology Council members or current FG chairs of the nominating committee(s) are not eligible for receipt of the George B. Hightower Technical Achievement Award during the terms they serve on the respective committees, or positions. Past recipients of the award are not eligible.

MTGs participate in the George B. Hightower award through one or more of the FGs that comprise the MTG.

4. NOMINATION.

A nomination for the George B. Hightower Technical Achievement Award is made by a FG chair completing a nomination form that confirms the eligibility and outlines the special contribution that the nominee has made to the work of the nominating committee(s) during the most recent four years.

The chair submits the nomination to the lead nominating committee's TAC Section Head by December 1.

5. JUDGING

The TAC Section Head reviews all nominations received from their Section and forwards eligible nominees from that Section to TAC for its consideration at their Winter Meeting where TAC shall recommend a candidate to the Honors and Awards Committee. The recommended candidate shall be chosen from all nominations that meet eligibility requirements as outlined under Section 7 Criteria for Selecting Recipients and approved by TAC. TAC shall consider award points and the explanation provided by the nominating FG in its deliberations. TAC should also review the candidate's ASHRAE online bio for verification of points.

Because it is a 'pass through award', TAC reports the name of the recipient to Technology Council as an information item and sends the recommendation to H&A who in turn recommends the name to Members Council for approval.

All nominators (not just the winning nomination) are to be apprised of the person selected by the TAC chair no later than 60 days after the selection process has been completed.

6. PRESENTATION

At the ASHRAE Annual Meeting, the George B. Hightower Technical Achievement Award is presented during the recipient's FG meeting.

7. PART I - ELIGIBILITY REQUIREMENTS **(Consider entire ASHRAE career for Part I)**

7.1 Nominees must have earned a minimum of 10 points **during their career** on FG/MTGs as defined below to be eligible for the award.

7.2 If eligible, the award is given **based only on the most recent four years of service** on FG/MTGs. This service must be detailed in the explanation for it to be considered and is the actual basis for receiving of the award.

Eligibility points are defined as follows:

A "tour" is an appointment for 1 year. Assignment to the same position for multiple years each count as a separate tour.

- | | | |
|----|---------------------------------|----------------------|
| A. | Program Subcommittee | |
| | 1. Forum Moderator | ½ point per forum |
| | 2. Seminar Chair | 1 point per seminar |
| | 3. Conference Chair | 2 points per session |
| | 4. Technical Chair | 3 points per sympos |
| | 5. Subcommittee member | 1 point per tour |
| | 6. Subcommittee Chair | 2 points per tour |
| B. | Handbook Subcommittee | |
| | 1. Chapter contributor/reviewer | 1 point per chapter |
| | 2. Chapter author | 3 points per chapter |
| | 3. Subcommittee member | 1 point per tour |
| | 4. Subcommittee Chair | 2 points per tour |
| C. | Technical Inquiries | |

- | | |
|---|------------------------|
| 1. Respond to Question from Headquarters | 1/4 point per question |
| 2. Author Frequently Asked Question | 1 point per question |
| | |
| D. Accept Special Assignment from Chair assignment at Chair's discretion. | Up to 3 points per |
| | |
| E. FG Officers | |
| 1. ALI Coordinator | 2 points per tour |
| 2. Webmaster | 2 points per tour |
| 4. Secretary | 2 point per tour |
| 5. Vice-Chair | 2 point per tour |
| 7. Chair | 3 points per tour |
| | |
| F. MTG member | 1 point per tour |
| G. Inter-Society Liaison Appointed by TAC | 1 point per tour |

8. **PART II – TECHNICAL LEADERSHIP AND CONTRIBUTION (Consider last 4 years for Part II)**

This part determines the actual award winner.

Provide a one page explanation of the nominee's outstanding technical leadership and contributions to the committee(s) **during the past four years** including details on why you think this person deserves the award. (Research and standards activities are NOT to be considered even if done as part of a committee assignment.)

SUBMIT NOMINATION FORM TO SECTION HEAD BY DECEMBER 1.

The form (ASHRAE GEORGE B. HIGHTOWER TECHNICAL ACHIEVEMENT AWARD NOMINATION FORM) can be found on the ASHRAE website at <https://www.ashrae.org/TCs> under the heading "Procedures, Forms & Information for TCs/TGs/MTGs and TRGs"

ASHRAE GEORGE B. HIGHTOWER TECHNICAL ACHIEVEMENT AWARD NOMINATION FORM

In recognition of exceptional service in the area of technical leadership and technical contribution in the past four years.

Nominee's Name

Current Committee Position

Nominating TC/TG/TRG

Chair Name

Signature

Cosponsoring TC/TG/TRG

Chair Name

Signature

Society Year

Submission Date

- Past Hightower award winners are not eligible to be nominated again.
- Research and standards participation are not part of the basis for the award.
- Nominees must have earned a minimum of 10 points **during their career** on TC/TG/TRG/MTGs as defined below to be eligible for the award.
- If eligible, the award is given based only on **the most recent four years** of service on TC/TG/TRG/MTGs. **This service must be detailed in the explanation for it to be considered and is the actual basis for receiving the award. See Part II**

Part I - confirms the eligibility of the nominee. (Consider entire ASHRAE career for Part I)

A "tour" is an appointment for 1 year. Assignment to the same position for multiple years each count as a separate tour.

	Points per	Number of tours	Total points
A. Conferences and Expositions			
Forum Moderator			
Seminar Chair			
Conference Chair			
Technical Chair			
Subcommittee member			
Subcommittee Chair			
B. Handbook			
Chapter contributor/reviewer			
Chapter author			
Subcommittee member			
Subcommittee Chair			
C. Technical Inquiries			
Respond to Question from Headquarters			
Author Frequently Asked Question			
D. Special Assignment from Chair	(up to 3 points per assignment at Chair's discretion)		
E. Officers			
ALI Coordinator			
Webmaster			
Secretary			
Vice-Chair			
Chair			
F. MTG Member			
G. Inter-Society Liaison Appointed by TAC			

Grand Total

Part II - determines the actual award winner. (Consider last 4 years for Part II)

Provide a one page explanation of the nominee's outstanding technical leadership and contributions to the committee(s) **during the past four years** including details on why you think this person deserves the award. (Research and standards activities are NOT to be considered even if done as part of a committee assignment)

SUBMIT NOMINATION TO SECTION HEAD BY DECEMBER 1