



Shaping Tomorrow's Built Environment Today

MINUTES

GOVERNMENT AFFAIRS COMMITTEE

From Meeting of June 21, 2024

1:30 p.m. – 5:30 p.m.

~ Annual Conference - Indianapolis, IN ~

Minutes approved October 30, 2024

ATTENDANCE

Members Present

Robert Hoadley, Chair
Sheila Hayter, Vice Chair
Jason Alphonso
Chris Phelan
Tim Wentz
Artorius Reyes
Michael Genin
Weston Hockaday
Beth Tomlinson
Doug Cage
Peter Koneck-Wilwerding
Tracey Jumper
Tim Theriault
Albert Sin*
Ioan Dobosi
Ahmed Bolbol
Geoff Jenks
Andrew Persily*
Bryan Holcomb
Bill McQuade

Members Absent

Will Fisher
RJ Hartman
Louis Van Belle
Eleazar Rivera
Sonya Pouncy
Mike Wolf
Bassel Anbari

Guests

Georgios Pantelidis, GTIC
Shaun Nienhueser, SAC
Ashish Rakheja
Tobi Showunmi
Sue Phelan
Mike Nerozzi, BAC
Tiffany Abruzzo
Chad Smith
T. (Alexis) Triantafyllopoulos
Bob Snow
William Bahnfleth*
Alejandra Nieto*
Laura Bonavita*
John Steele
Paul Fernandez
Tobi Showunmi
Crenshaw-MP Liaison
Mark Penchoff

Staff

Alice Yates
Chris Miller
Emily Porcari
Jacob Karson
Jason Davidson

Incoming Members (SY24-25) Present

PJ Johnston
Patrick Adams Villaume
Varun Jain
Heather Schopplein
Adrienne Mitani
Meghan McNulty
Luis Alvarado

Victor Niño*
Adam Doublestein*
Sarah Maston
Abdul Syed Mubarak*

Incoming Members (SY24-25) Absent

Keith Reihl
Megan Tosh

*Indicates Remote Participation

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1. Call to Order, Welcome, and Roll Call - Rob Hoadley called the meeting to order at 1:32 p.m. EDT and welcomed the members. Attendance was taken (see page 1) and a quorum was present.
2. Guest Introductions – Hoadley asked the guests to introduce themselves.
3. ASHRAE Value Statement – Hoadley read the value statement and referenced the hyperlinks.

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 - <https://www.ashrae.org/about/governance/code-of-ethics>

Core Values - <https://www.ashrae.org/about/ashrae-s-core-values>

Diversity Statement - <https://www.ashrae.org/about/diversity-equity-and-inclusion-dei>

4. Review of Agenda -- Hoadley reviewed the agenda and noted that Item #8-a-iv (Dave Palty award) would be moved to the end
5. Approval of Minutes – Hoadley asked for a vote en-bloc to approve minutes from the past three GAC meetings. (see Attachments)
 - a. Winter Meeting (January 19, 2024)
 - b. Spring Meeting (April 25, 2024)
 - c. May Meeting (May 17, 2024)

MOTION: To approve the Minutes of the past 3 GAC meetings. Motion made by Jason Alphonso and Seconded by Artorius Reyes.

MOTION PASSED: Approved By Voice Vote (CNV). No Objections.

6. Update on Action Items (see Attachment) - Alice Yates reviewed the Action Items and noted that only 3 remain; Hoadley asked that those be carried into the next SY.
7. Report from ASHRAE Government Affairs Office – Staff from the Government Affairs Office (Alice Yates, Emily Porcari, Jacob Karson, Jason Davidson, Chris Miller) provided a presentation (see Attachment) highlighting how staff can support GAC efforts, and reviewing policy trends and opportunities for engagement.

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8. Subcommittee Reports and MBO Status Reports (See Attachment)

a. Executive Subcommittee – Hoadley provided an update on the subcommittee’s MBOs. He then asked for votes on revisions to several GAC governing documents:

i. Rules of the Board: GAC Membership for Council Representatives – so that these representatives are members of the council for which they are to represent (See Attachment)

MOTION: To recommend to Members Council that it recommends to the Board of Directors a change to the Rules of the Board for GAC Membership for Council Representatives as shown in the attachment. Motion made by Hoadley on behalf of the Executive Subcommittee.

MOTION PASSED: Approved by Voice Vote (CNV). No Objections.

ii. Manual of Procedures: Motion on Nominating Subcommittee Change (See Attachment)

iii. Manual of Procedures: Motion on Timing for PAOE Recommendations (See Attachment)

MOTION: To recommend that Members Council approve the en bloc changes to the MOP (ii and iii) as shown in the Attachment. Motion made by Hoadley on behalf of the Executive Subcommittee.

MOTION PASSED: Approved by Voice Vote (CNV). No Objections.

iv. Resource Manual Clarifications (See Attachments)

i. Time Zone Requirement for all GAC communication to reflect ASHRAE as a Global Organization

ii. GAC Trainings: Overview of the GAC in late May / early June for incoming members; GOE training in early September for all GAC members

iii. Clarification on Dave Palty Award

MOTION: To approve all 3 changes made to the GAC Resource Manual as shown in the Attachments. Motion made by Hoadley on behalf of the Executive Subcommittee .

MOTION PASSED: Approved by Voice Vote (CNV). No Objections

b. Policy and Programs Subcommittee

i. MBO Status - Tomlinson shared updates to her subcommittee-assigned MBOs.

ii. PPIB Updates – Tomlinson reviewed the minor revisions to the PPIBs that addressed comments received from DRSC, which was the Tech Council designated reviewer (See Attachments).

- Building Decarbonization
- Building Energy Benchmarking

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- Climate Change and the Built Environment
- Consensus Standards- Expert Solutions to Meet Global Needs
- Environmental Tobacco Smoke and Electronic Nicotine Delivery Systems
- Indoor Air Quality
- Indoor Carbon Dioxide
- Wildfires and Indoor Environmental Health

MOTION: To approve the minor revisions to the PPIBs as shown in the attachments. Motion made by Tomlinson on behalf of the subcommittee.

MOTION PASSED: Approved by Voice Vote (CNV). No Objections

iii. SMEs for GOEs – Extension of Pilot Program (see Attachment)

MOTION: That GAC recommend to Members Council that the SMEs for GOEs Pilot Program be extended by 3 years. Motion made by XXX and Seconded by Tomlinson on behalf of the subcommittee.

MOTION PASSED: Approved by Voice Vote (CNV). No Objections

c. Member Mobilization Subcommittee

- i. Government Outreach Events – Artorius Reyes provided the final tallies for GOEs for this Society Year (See Attachment).
- ii. MBO Status Update – Reyes provided a status update on the MBOs assigned to MMSC.

ci. Global Affairs Subcommittee

i. Financial Assistance for International Outreach Events

MOTION: To approve a change to the GAC Resource Manual Section T as shown in the Attachment. Motion made by Tim Theriault on behalf of the subcommittee.

MOTION PASSED: Approved by Voice Vote (CNV). No Objections

- ii. MBO Status Update – Theriault provided a status update on the MBOs assigned to GASC. (see Attachment)

9. Written Reports were provided by all of the Regional Vice Chairs (See Attachments). Most delivered them in person or virtually, with the exception of RVCs from Regions I, III, V, VIII, and XIII.

- RAL – Ahmed Bolbol
- Region XIV – Ioan Dobosi
- Region XIII – Albert Sin
- Region XII – Tim Theriault
- Region XI – Geoffrey Jenks
- Region X – Tracey Jumper
- Region IX – Peter Koneck-Wilwerding

- Region VIII – Eleazar Rivera
- Region VII – Doug Cage
- Region VI – Beth Tomlinson
- Region V – Louis Van Belle
- Region IV – Weston Hockaday
- Region III – RJ Hartman
- Region II – Michael Genin
- Region I – Will Fisher

10. GAC PHOTO – Photos of the current and incoming GAC members were taken by a professional photographer. These photos have been posted on Basecamp.

11. Presentation of Dave Palty Outstanding GAC Service Award - Hoadley presented the award to **Tim Theriault**, in recognition of his **outstanding overall effort on the GAC committee**. (Note that this agenda item was shifted to the end of the meeting.)

12. Reports

- a. ExO Report -Holcomb provided a report highlighting major Society news and updates.
- b. Communications Coordinator Report - Sonya Pouncy was unable to attend the meeting, but provided a written report (see Attachment)
- c. Technology Council Representative Report -Phelan provided a report with highlights from Tech Council (see Attachment)
- d. Members Council Representative Report - Bassel Anbari was not present due to another meeting conflict, but provided a written report (see Attachment).
- e. Pub-Ed Council Representative Report –Jason Alphonso provided a report on recent publications and new training/education resources (see Attachment). Reyes asked Alphonso if Pub-Ed can develop tailored training for government agencies; Alphonso replied that would be considered by TEC (Training and Education Committee).

13. Reports from Committee Liaisons

- a. Global Technical Interaction Committee – George Pantelidis provided a report with updates from the GTIC (See Attachment)
- b. Environmental Health Committee - Bill Bahnfleth was unable to provide a report due to technical difficulties with the virtual connection.
- c. Young Engineers in ASHRAE - Paul Fernandez was unable to provide a report due to scheduling issues, but noted after the meeting that YEA is eager to work with the GAC on outreach.

- d. Student Activities Committee Shaun Nienhueser provided an update from SAC, and noted that SAC was interested in working with the GAC, and he will help connect the SAC RVCs to the GAC RVCs.
- e. Membership Promotion – Hayter announced that she received an email from Mark Pinchoff, MP member, that explains that ASHRAE will soon have a “Group Pay” option for ASHRAE membership. If multiple government employees want to become members of ASHRAE, that could be accomplished with one payment by the government entity. ASHRAE would then have both a billing and membership relationship with the **entity itself** and not an individual. This will eliminate the problem of having individuals unable to request or receive reimbursement for membership dues, and the entity can then fill the role with another person should their personnel change.

14. Guest Reports

- a. American Institute of Architects (AIA) – Michele Mihelic, Senior Director, Codes & Standards, Advocacy & Policy – was unable to attend.

15. Proposed Public Policy Priorities for SY2024-2025 - Hayter reviewed the proposed PPPs for SY24-25 (See Attachment).

MOTION: That the Government Affairs Committee approves the attached Public Policy Priorities for SY24-25. Motion made by Hayter on behalf of the GAC Executive Subcommittee.

MOTION TO AMEND: That Paragraph #2 under the First Header (“Support Sustainable..”) be changed as follows:

~~For existing buildings,~~ *ASHRAE supports the deployment of decarbonization technology such as next generation heat pumps, the adoption of stretch codes, building performance standards ([Standard 100](#)), electric-ready building requirements, and building benchmarking and labeling requirements. ASHRAE also supports the use of decarbonized combustion fuels and on-site carbon capture use and storage, as they become commercially available.*

Motion to Amend made by Hayter and seconded by Reyes.

MOTION TO AMEND PASSED: Approved by Voice Vote (CNV) with one abstention (Andy Persily).

AMENDED MOTION PASSED: Approved by Voice Vote (CNV). No Objections.

- 16. MBOs for SY2024-2025 – Hayter explained that the GAC MBOs for the next Society Year are being developed.
- 17. Other Business - Hoadley asked if there was any other business to come before the committee, and none was brought.
- 18. Review of New Action Items added at this meeting - Yates reviewed the new action items from this meeting (see Attachment).

19. Recognition of Outgoing GAC Members -- Hoadley recognized outgoing members, handing out certificates. Hoadley also received a framed certificate, presented to him by Incoming Chair Hayter, and also received a card signed by the GAC members and staff.
20. Remarks from Outgoing Chair -- Hoadley gave remarks about his term as chair and some thoughts about the future work of the GAC.
21. Remarks from Incoming Chair – Hayter referenced the SY24-25 GAC Subcommittee Assignments, explaining that the new Subcommittee Chairs will be reaching out to schedule meetings, likely in September.
22. Next Committee Conference Call - Hayter noted that the next GAC meeting will likely be in the Fall.
23. Adjourn – Hoadley adjourned the meeting at 5:34 p.m. EDT.

Minutes Respectfully Submitted by Alice Yates, Staff Liaison.



Shaping Tomorrow's
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DRAFT MINUTES

GOVERNMENT AFFAIRS COMMITTEE

**WINTER CONFERENCE
FRIDAY, JANUARY 19, 2024
1:00 PM – 5:00 PM CST**

ATTENDANCE

Members Present

Robert Hoadley, Chair
Sheila Hayter, Vice Chair
Bassel Anbari
Jason Alphonso
Chris Phelan
Tim Wentz
Artorius Reyes
Michael Genin
Weston Hockaday
Louis Van Belle
Beth Tomlinson
Doug Cage
Peter Koneck-
Wilwerding*
Tracey Jumper
Tim Theriault
Albert Sin
Ioan Dobosi
Ahmed Bolbol*
Sonya Pouncy
Eleazar Rivera
Geoff Jenks
Andrew Persily*
Bryan Holcomb
Bill McQuade
Mike Wolf*

Members Absent

Will Fisher
RJ Hartman

Guests

Georgios Pantelidis, GTIC
Shaun Nienhueser, SAC
Daniel Russell
Ronald Gagnon
David Underwood
Erica Powell
Buzz Wright
Benjamin Pignatelli
Katlyn Stoker
James Arnold
Samantha Slater, AHRI
Colin Laisure-Pool
Michele Mihelic, AIA
Arturo Thur de Koos
Iliana Georgia Georgakakou
William McQuade
Ashish Rakheja
Gregory Avina-Rodriguez
Ragan McHan
Kevin Wong*
Haily Mick*
Luis Alaradra, Region XII
Martin Luymes
Vicki Worden
Chris Ruch
Sue Phelan

Staff

Alice Yates
Emily Porcari*
Jacob Karson

Guests (cont.)

Julia Timberman
Jeanette Hay
Pedro Garza
Jennifer Dickinson
Doug Fick
Mark Penchoff
Peter Luftik
Tobi Showunmi
Matthew Hinds
Darryl Boyce
Helen Walter-
Terrinoni
Steve Comstock,
UNEP
Jim Curlin, UNEP
Jeremy Zeedyll,
NEMI
Kimberly Cheslak,
PNNL
Nastase Kline

*Indicates Remote Participation

1. Call to Order, Welcome, and Roll Call - Rob Hoadley called the meeting to order at 1:04 p.m. and welcomed the members. Attendance was taken and a quorum was present.
2. Guest Introductions – Hoadley asked the guests to introduce themselves.
3. ASHRAE Code of Ethics – Hoadley read a summary of ASHRAE’s Code of Ethics:

ASHRAE Code of Ethics Commitment

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.

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

(Core Values: <https://www.ashrae.org/about/ashrae-s-core-values>)

4. ASHRAE Simplified Rules of Order – These were provided as an attachment to the agenda.
5. Review of Agenda – Hoadley reviewed the agenda and noted that some reports may need to be moved around to accommodate schedules.
6. Approval of Minutes from October 30, 2023 Meeting – Hoadley asked for a vote to approved the minutes from the GAC fall meeting.

MOTION: To approve the Minutes of the October 30, 2023 Meeting. Motion made by Jason Alphonso and Seconded by Sonya Pouncy.

MOTION PASSED: Approved By Voice Vote (CNV). No Objections.

7. Update on Action Items (See Attachment) - Alice Yates reviewed the Action Items and noted that two remained open. Hoadley stated that Action Item #1 should be closed as it has been “overtaken by events.”
8. Report from ASHRAE Government Affairs Office – Yates and Jacob Karson provided a report (See Attachment)
9. Subcommittee Reports and MBO Status Reports (See Attachment)
 - a. Executive Subcommittee – Hoadley stated that the MBOs assigned to this subcommittee are still ongoing.

MBO #3: Review volunteer commitments of committee members as well as membership in general; identify ways to use volunteer time effectively and increase participation in GAC governance and activities.

MBO #4: Review effectiveness of GAC mentorship program and obtain feedback on how best to make use of program.

Action Item: Hoadley asked GAC Members to estimate the number of hours they spend a week on ASHRAE work (GAC and anything else ASHRAE-related). Due: Spring GAC Meeting

b. Policy and Programs Subcommittee

- i. MBO Status - Beth Tomlinson revised the status of the MBOs assigned to this subcommittee, and noted an Action Item assigned to all GAC members.

MBO #6: Determine best approach for communicating effective strategies about building decarbonization and other key issues to government officials.

MBO #8: Continue work with GAC Advisory Board. Review recommendations of board and provide recommendations on how best to enact them.

Action Item: All GAC members should consider recommending members to the Advisory Board. Due: Ongoing.

- ii. PPIB Updates (See Attachments, including flow chart on process for review and approval and Status Table)

PPIB on Building Electrification (See Attachment) – This PPIB was approved unanimously by the PPSC and then submitted to the GAC Executive Subcommittee, which approved the PPIB by a unanimous vote.

MOTION: To approve the updated PPIB on Building Electrification. Motion made by the Executive Subcommittee.

MOTION PASSED: Approved By Voice Vote (CNV). No Objections.

- iii. Update on SMEs for GOEs Program (See Attachment) – Tomlinson reported that details for this pilot program are being developed, and they will be posted on Basecamp shortly.

ACTION ITEM: All GAC members should review the SME-GOE pilot program and provide comments. Due Date: Feb. 9.

- c. Member Mobilization Subcommittee - Artorius Reyes reviewed progress on GOEs (See Attachment) and provided a status update on the MMSC assigned MBOs. Reyes noted the MMSC is looking at better tools for identifying individuals for the GA award, and improved tracking of GOEs along with impacts and outcomes.

MBO #1: Increase the participation of ASHRAE members in Government Outreach Events and other advocacy opportunities by hosting promotional GAC meetings, webinars, and other events to non-GAC ASHRAE members to increase awareness about the GAC.

MBO #2: Enhance the approach for gathering data and reporting on GOEs; include number of government officials and staff who attended the GOEs. Determine best way to differentiate between types of GOEs.

- d. Global Affairs Subcommittee - Tim Theriault reported on the status of his subcommittee's assigned MBOs. As part of this GASC report, the GAC had a robust discussion on the need to translate ASHRAE standards and other publications, as well as Public Policy Issue Briefs for government advocacy. Tim Wentz noted that AI should be able to speed up this process and make it less expensive. Staff noted that funds could be available through the ITA, if ASHRAE submits another application. Bill McQuade noted that the application submitted last year was strong and that ITA had positive things to say about it, but they simply didn't have the funds at that time.

Action Item: Staff will investigate the costs and process for translation of publications. **Due Date:** by Spring GAC meeting.

Action Item: The GASC will provide a report on priorities for translation (language(s) and publications), working with the Planning Committee to ensure the priorities align with Society's strategic direction and consulting with the Global Technical Interaction Committee through its GAC liaison. **Due Date:** by Spring GAC meeting.

MBO #5: Build the foundation of a consistent global government engagement program by planning and identifying country- or region-specific events attended by government officials for the purpose of outreach and advocacy.

MBO #7: Work with Global Technical Interaction Committee (GTIC) to facilitate sharing of information to avoid duplication of efforts, including through improved understanding of market needs and the tracking and adoption of ASHRAE standards and guidelines around the world.

MBO #10: Provide recommendations to the full committee on how best to increase the global scope of Government Affairs Committee work and increase participation of members outside North America in committee activities.

- e. Rules Subcommittee - Sheila Hayter reported that this subcommittee approved moving the responsibilities of this subcommittee into the Executive Subcommittee, and dissolving the Rules Subcommittee. Executive Subcommittee unanimously approved this change.

MOP Streamlining and Updates:

MOTION: To approve the updated MOP as shown in the Attachment. Motion made by the Executive Subcommittee.

MOTION PASSED: Approved By Voice Vote (CNV). No Objections.

- f. Nominating Subcommittee – Hayter reported that the work of this subcommittee has been completed. Hayter also noted that Society-Level Nominations are open, and that they can be submitted at the website below. (Deadline: **Feb. 16, 2024.**)

<https://www.ashrae.org/communities/committees/committee-nominations>

10. Motion Referred from RAL CRC: Allowing GAC Chapter Co-Chairs to attend CRCs if Chairs are Unavailable (See Attachment) – Rob reviewed the motion from the RAL CRC and the proposed response from the GAC.

MOTION: To approve the attached response from the GAC to Members Council.
Motion made by Genin and Seconded by Theriault.

MOTION PASSED: Approved 15-1-0 (CNV).

11. During Executive Session, the Government Affairs Award Nomination was discussed, and a nominee approved.
12. Reports were provided by all of the Regional Vice Chairs (See Attachments), with the exception of the Region I RVC.

- | | |
|--|---------------------------------|
| 1. RAL – Ahmed Bolbol | 8. Region VIII – Eleazar Rivera |
| 2. Region XIV – Ioan Dobosi | 9. Region VII – Doug Cage |
| 3. Region XIII – Albert Sin | 10. Region VI – Beth Tomlinson |
| 4. Region XII – Tim Theriault | 11. Region V – Louis Van Belle |
| 5. Region XI – Geoffrey Jenks | 12. Region IV – Weston Hockaday |
| 6. Region X – Tracey Jumper | 13. Region III – RJ Hartman |
| 7. Region IX – Peter Koneck-
Wilwerding | 14. Region II – Michael Genin |

14. GAC PHOTO – Photos were taken of GAC Members; these are available on Basecamp.

15. Reports

- a. ExO Report - Bryan Holcomb provided a report (see Attachment)
- b. Communications Coordinator Report - Sonya Pouncy provided a report (see Attachment)

MBO #9: Work with other relevant bodies within ASHRAE to share needs from Government Officials, and how ASHRAE could better communicate via the web and social media.

- c. Technology Council Representative Report - Chris Phelan provided a report (see Attachment)
- d. Members Council Representative Report Bassel Anbari provided a report (see Attachment)
- e. Pub-Ed Council Representative Report - Jason Alphonso provided a report (see Attachment)

16. Reports from Committee Liaisons

- a. Global Technical Interaction Committee - George Pantelidis, GTIC Member provided a report.
- b. Young Engineers in ASHRAE - Paul Fernandez was not present and did not provide a report.
- c. Student Activities Committee - Shaun Nienhueser, Vice Chair of SAC provided a report.

17. Guest Reports

- a. United Nations Environment Program (UNEP) - James Curlin, Head of Branch, OzonAction; Amr Abdel Hai, Montreal Protocol Programme Officer, OzonAction; and Steve Comstock, Senior Consultant for Partnerships provided a report (see Attachment).

ACTION ITEM: Staff will follow-up with the UNEP staff liaison regarding how to get an invitation from UNEP that could be provided to the chapter chairs and presidents. (They plan to discuss how partnerships between chapters and ozone units can be advanced at the UNEP liaison committee meeting.)

- b. Air-Conditioning, Heating, and Refrigeration Institute (AHRI) - Samantha Slater, Senior Vice President of Government Affairs provided a report, and identified 3 key areas: IRA implementation; DOE Rulemakings; and Refrigerant Transition.
- c. American Institute of Architects (AIA) - Michele Mihelic, Senior Director, Codes & Standards, Advocacy & Policy provided a report.
- d. DOE-LBNL Schools Leadership Team - Sonya Pouncy provided a report on the Schools Pilot Project.
- e. Green Building Initiative (GBI) – Vicki Worden, President and CEO provided a report.
- f. Heating, Refrigeration and Air Conditioning Institute of Canada (HRAI) – Martin Luymes, Vice President, Government and Stakeholder Relations provided a report. They look forward to hopefully working with ASHRAE on 2 outreach events: Federal in May and Ottawa Queens Park in March.
- g. Standard 100 Updates - Kim Cheslak, Member of SSPC 100 provided updates on the– 2024 edition of the standard. Cheslak noted that committee members are available to help with advocacy, in particular for jurisdictions considering BPS. Cheslak also reported on several sessions being held at the Winter Meeting on the new version of Standard 100 and encouraged members to attend.

18. Other Business – No additional business was acted upon.

19. Review of New Action Items added at this meeting – Yates reviewed the new action items added during this meeting (See Attachment).

20. Next Committee Conference Call – Hoadley stated that the next GAC meeting will likely take place in March, after the other subcommittees meet.
21. Adjourn – Hoadley adjourned the meeting at 5:13 p.m. Hayter made the motion and Pouncy seconded, and it was approved unanimously.

Minutes Respectfully Submitted by Alice Yates, Staff Liaison.



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DRAFT MINUTES

GOVERNMENT AFFAIRS COMMITTEE

**THURSDAY, APRIL 25, 2024
9:00 AM – 11:00 AM EDT**

ATTENDANCE

Members Present

Robert Hoadley, Chair
Sheila Hayter, Vice Chair
Jason Alphonso
Bassel Anbari
Chris Phelan
Tim Wentz
Mike Wolf
Artorius Reyes
Beth Tomlinson
Eleazar Rivera
Tim Theriault
Ahmed Bolbol*
Bill McQuade

Members Absent

Andy Persily
Will Fisher
Mike Genin
RJ Hartman
Weston Hockaday
Louis Van Belle
Douglas Cage
Peter Koneck-Wilwerding
Tracey Jumper
Geoffrey Jenks
Albert Sin
Ioan Dobosi
Sonya Pouncy
Bryan Holcomb

Guests

Georgios Pantelidis, GTIC

Staff

Alice Yates
Emily Porcari
Jacob Karson
Jason Davidson
Chris Miller

*Indicates Remote Participation

1. Call to Order, Welcome, and Roll Call - Rob Hoadley called the meeting to order at 9:02 a.m. EDT and welcomed the attendees. Attendance was taken (above) and a quorum was not present.
2. ASHRAE Value Statement – Hoadley read the 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 - <https://www.ashrae.org/about/governance/code-of-ethics>

Core Values - <https://www.ashrae.org/about/ashrae-s-core-values>

Diversity Statement - <https://www.ashrae.org/about/diversity-equity-and-inclusion-dei>

3. Review of Agenda – Hoadley reviewed the agenda and no changes were made.
4. Approval of Minutes from January 19, 2024 Meeting – Because there wasn't a quorum, the minutes could not be voted upon.
5. Update on Action Items - Alice Yates reviewed the Action Items (see Attachment). Four items were open and they are advancing.
6. Subcommittee Reports and MBO Status Reports (See Attachment)

- a. Executive Subcommittee – Hoadley reviewed the MBOs assigned to the Executive Subcommittee and the updates are provided in the Attachment.

- i. MBO Status

MBO #3: Review volunteer commitments of committee members as well as membership in general; identify ways to use volunteer time effectively and increase participation in GAC governance and activities.

ACTION ITEM: Hoadley and Yates will review the review the GAC Job Description that is sent to nominees and determine whether a time commitment should be added to that description. They will also consider whether to add information to the job description concerning the mentoring program. **DUE DATE: ANNUAL MEETING.**

ACTION ITEM: Yates will write memo from GAC Chair to Members Council, Development and Planning, with information on volunteer member contributions of time, which can be used for fund-raising and other purposes. **DUE DATE: MAY.**

MBO #4: Review effectiveness of GAC mentorship program and obtain feedback on how best to make use of program.

- b. Policy and Programs Subcommittee - Beth Tomlinson reviewed the MBOs assigned to this subcommittee and the updates are provided in the Attachment.

- i. MBO Status

MBO #6: Determine best approach for communicating effective strategies about building decarbonization and other key issues to government officials.

MBO #8: Continue work with GAC Advisory Board. Review recommendations of board and provide recommendations on how best to enact them.

- ii. PPIB Updates – updates are provided in the Attached Status Table. None of these are yet ready for a vote, so the PPSC will be meeting in early May to vote, and Hoadley explained that another brief GAC meeting will be scheduled in early May to vote on PPIBs, since they still need to go to Tech Council for review and comment. One new PPIB is anticipated to be developed on Wildfires.

Another brief GAC meeting will likely be scheduled in early May to vote on PPIBs

- iii. SMEs for GOEs Pilot Program (See Attachment for Outline)

- Extension of Pilot Program: The committee discussed extending the pilot program from one year to 3 years. The committee voiced approval for this extension but because a quorum was not present, it could not be voted upon.

- c. Member Mobilization Subcommittee - Artorius Reyes reported that the GAC is making excellent progress on meeting the GOE goals (see Attachment); other updates are provided in the attached MBO table.

- i. Government Outreach Events – Goals, Targets and Progress
- ii. MBO Status Update

MBO #1: Increase the participation of ASHRAE members in Government Outreach Events and other advocacy opportunities by hosting promotional GAC meetings, webinars, and other events to non-GAC ASHRAE members to increase awareness about the GAC.

MBO #2: Enhance the approach for gathering data and reporting on GOEs; include number of government officials and staff who attended the GOEs. Determine best way to differentiate between types of GOEs.

- d. Global Affairs Subcommittee -- Tim Theriault reviewed the MBOs assigned to this subcommittee and updates are provided in the Attachment

MBO #5: Build the foundation of a consistent global government engagement program by planning and identifying country- or region-specific events attended by government officials for the purpose of outreach and advocacy.

MBO #7: Work with Global Technical Interaction Committee (GTIC) to facilitate sharing of information to avoid duplication of efforts, including through improved understanding of market needs and the tracking and adoption of ASHRAE standards and guidelines around the world.

>>Hoadley recognized the great work of Albert Sin and Region XIII members who compiled a wonderful spreadsheet with information on ASHRAE standards being used by countries in this region; Hoadley noted that this spreadsheet should be an example for other countries around the world.

MBO #10: Provide recommendations to the full committee on how best to increase the global scope of Government Affairs Committee work and increase participation of members outside North America in committee activities.

Funding for International GOEs: There was discussion about the use (and non-use) of the \$2,000 per Region with international chapters for GOE events. The money is not being fully utilized and discussion revolved around how to improve the use of these funds.

ACTION ITEM: The GASC will review Section T, “Financial Assistance for International Outreach Events,” in the GAC Resource Manual, and make recommendations on whether that section should be revised. **DUE DATE: ANNUAL MEETING.**

ACTION ITEM: Jacob Karson will more actively communicate at GASC meetings regarding the Financial Assistance for International Government Outreach Events fund. Also communicate one-on-one with the RVCs. **DUE DATE: SUMMER AND FALL 2024.**

14. Reports

- a. ExO Report - Bryan Holcomb was not in attendance.
- b. Communications Coordinator Report - Sonya Pouncy was not present, but Rob Hoadley noted her good work engaging with GAC Chapter Chairs in Africa. Rob encouraged this work to be coordinated with the RAL RVC.

MBO #9: Work with other relevant bodies within ASHRAE to share needs from Government Officials, and how ASHRAE could better communicate via the web and social media.

ACTION ITEM: Yates to connect the RAL RVC (Ahmed Bolbol) with Sonya Pouncy to further the conversation on government outreach to African countries. **DUE DATE: ASAP.**

- c. Technology Council Representative Report - Chris Phelan provided a thorough report on updates with changes relevant to government outreach. The Attachment provides details from his report.
- d. Members Council Representative Report - Bassel Anbari reported that the development of a “Brand Ambassador” program is being discussed in Members Council, and it could be useful to the GAC. Hoadley commented that a longer discussion should be had regarding how or whether that type of outreach through Brand Ambassadors should be counted as GOEs.
- e. Pub-Ed Council Representative Report - Jason Alphonso had nothing to report, as information will be provided the Annual Meeting.

15. Other Business – Hoadley asked if there was any additional business to come before the committee, and nothing was offered.

16. Review of New Action Items added at this meeting – Yates reviewed the action items added at this meeting (See Attachment).

17. Next Meetings – Hoadley noted the future meetings of the GAC:

Brief GAC Meeting to Vote on PPIBs

Early May – Specific Date and Time TBD

GAC Meeting at the Annual Conference

Friday, June 21

1:30 p.m. – 5:30 p.m. EDT

JW Marriott Indianapolis or Marriott Indy – Room TBD

GAC Training for Incoming SY24-25 Members (and encouraging **all** GAC members to attend):

Thursday, May 30

9:00 a.m. – 10:30 a.m. EDT

18. Adjourn – Hoadley asked to adjourn the meeting. Alphonso moved to adjourn; Anbari seconded the motion, and it was unanimously approved. Meeting adjourned at 10:29 a.m. EDT.

Minutes Respectfully Submitted by Alice Yates, Staff Liaison.



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DRAFT MINUTES

GOVERNMENT AFFAIRS COMMITTEE

**FRIDAY, MAY 17, 2024
2:00 PM – 3:00 PM EDT**

~VIRTUAL / ONLINE~

Attendance

Members Present

Robert Hoadley, Chair
Sheila Hayter, Vice Chair
Bassel Anbari
Chris Phelan
Tim Wentz
Andy Persily
Artorius Reyes
Mike Genin
RJ Hartman
Beth Tomlinson
Douglas Cage
Tracey Jumper
Geoffrey Jenks
Ioan Dobosi
Bryan Holcomb

Members Absent

Jason Alphonso
Mike Wolf
Will Fisher
Weston Hockaday
Louis Van Belle
Peter Koneck-Wilwerding
Eleazar Rivera
Tim Theriault
Albert Sin
Sonya Pouncy
Bill McQuade
Ahmed Bolbol*

Guests

None

Staff

Alice Yates
Emily Porcari
Jason Davidson
Chris Miller

1. Call to Order, Welcome, and Roll Call - Rob Hoadley called the meeting to order at 2:02 p.m. EDT and welcomed the members. Attendance was taken (see above) and a quorum was present.
2. ASHRAE Value Statement – Hoadley read the value statement and referenced the hyperlinks.

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 - <https://www.ashrae.org/about/governance/code-of-ethics>

Core Values - <https://www.ashrae.org/about/ashrae-s-core-values>

Diversity Statement - <https://www.ashrae.org/about/diversity-equity-and-inclusion-dei>

3. Review of Agenda – Hoadley reviewed the agenda; no changes were made.
4. PPSC Report - Beth Tomlinson reported that the GAC Policy and Programs Subcommittee approved the eleven (11) PPIBs listed below. All were approved unanimously, except Building Benchmarking and Resiliency in Built Environment, which had one abstention each. The rationale for those abstentions were, respectively, for deleting Building EQ and because the attendee had joined the meeting late.
 - a. Proposed PPIBs for SY24-25 (see Attachments) – Hoadley asked if the 11 PPIBs could be approved by unanimous consent. Yates asked on behalf of Eleazar Rivera (who was unable to attend) that Building Energy Benchmarking be removed from the group; Persily asked that ETS/ENDS be removed.

MOTION: To approve the PPIBs listed below. Motion made by Tomlinson.

- i. Building Decarbonization
- ii. Climate Change and the Built Environment
- iii. Consensus Standards - Expert Solutions to Meet Global Needs
- iv. Indoor Air Quality
- v. Refrigerants and Their Responsible Use
- vi. Resiliency in the Built Environment
- vii. STEM Education & Workforce
- viii. Indoor Carbon Dioxide
- ix. Wildfires and Indoor Environmental Health (**new**)

MOTION PASSED: Approved by Voice Vote (CNV). No objections.

MOTION: To approve the Building Energy Benchmarking PPIBs. Motion made by Tomlinson.

MOTION TO AMEND: To modify the Building Benchmarking PPIB to restore the language about Building EQ in the PPIB. Motion made by Tomlinson and Seconded by Doug Cage.

AMENDMENT PASSED: Approved by Voice Vote (CNV). No objections.

MOTION: To approve the Building Energy Benchmarking PPIBs as amended. Motion made by Hoadley.

MOTION PASSED: Approved by Voice Vote (CNV). No objections.

MOTION: To approve the Environmental Tobacco Smoke and Electronic Nicotine Delivery Systems (ETS/ENDS) PPIB. Motion made by Tomlinson.

MOTION TO AMEND: To modify the ETS/ENDS PPIB such that the last 3 bullets in the document read as shown below. Motion made by Persily and seconded by Tomlinson.

- That building design practitioners work with their clients to define their intent, where smoking and ENDS use is still permitted, for addressing exposure in their facilities and educate and inform their clients of the limits of engineering controls in regard to both ETS and ENDS.
- That multifamily buildings have complete bans on tobacco smoking and ENDS inside and nearby in order to protect nonsmoking adults and children.
- That further research be conducted by cognizant health authorities on the health effects of involuntary exposure in the indoor environment from smoking cannabis, and using hookahs and ENDS. Pending the outcome of that research, cannabis and hookah smoking should be managed the same as recommended herein for ETS and ENDS.

AMENDMENT PASSED: Approved by Voice Vote (CNV). No objections.

MOTION: To approve the ETS/ENDS PPIBs as amended. Motion made by Hoadley.

- b. SMEs for GOEs Pilot Program (see Attachments) – Tomlinson reviewed the detailed description of the program, along with the language for the application.

MOTION: To approve the details of the SMEs for GOEs Pilot Program. Motion made by Tomlinson. (Because the program was approved previously, we do not include any fiscal or staff impacts.)

MOTION PASSED: Approved by Voice Vote (CNV). No objections.

14. Other Business – Hoadley asked if there was any other business, and there was none.
15. Review of New Action Items added at this meeting – Hoadley stated that there are no new action items from this meeting.

16. Next Meetings – Hoadley reviewed the schedule of next meetings, and encouraged members to attend the training.

GAC Training for Incoming SY24-25 Members (and encouraging **all** GAC members to attend):

Thursday, May 30

9:00 a.m. – 10:30 a.m. EDT

GAC Meeting at the Annual Conference

Friday, June 21

1:30 p.m. – 5:30 p.m. EDT

JW Marriott Indianapolis – Room White River B (1)

17. Adjourn – Hoadley adjourned the meeting at 2:36 p.m. EDT.

Minutes Respectfully Submitted by Alice Yates, Staff Liaison.



**ACTION ITEMS
GOVERNMENT AFFAIRS COMMITTEE
SY 2023-2024**

Last Updated: June 14, 2024

#	Action	Assigned To	Due Date	Status	C/O
<i>Remaining from SY 2022-2023</i>					
1	Consider recommending PAOE bonus points for getting in the GOE forms in a timely fashion.	Incoming GAC Chair	Summer		CLOSED /OBE
<i>Added at 10-30-2023 meeting</i>					
2	Communicate to GAC Chapter Chairs that they will be added to the GAU distribution list.	Staff to draft email RVCs to send email to their Chapter Chairs	Nov 30	Karson sent out on 11-03-2023.	C
3	Communicate to GTIC through staff liaisons that GAC is requesting George Pantelidis to serve as a liaison to the GAC.	Staff	ASAP	11-15-2023 GTIC Chair responded affirmatively to invitation for Pantelidis to serve as the liaison.	C
4	Send Oregon Clean Energy Fund contact to staff who will send to development staff	Jenks	Nov 30		Closed/ NA
5	Provide input to the strategic plan: https://www.ashrae.org/about/strategic-plan	Hoadley – and anyone else – all input is welcome	Nov 15		C
6	Share information about the Sri Lanka CRC Government Officials re meeting with the Member Mobilization Subcommittee (with cc's to Rob Hoadley and Alice Yates), which can then be shared with other regions for their consideration as they plan their next CRCs.	Ahmed Bolbol	Nov 30		C
7	Submit nominations for GAC leadership roles to Hayter and Yates.	GAC Subcommittee Chairs and all GAC members	Nov. 15		C



#	Action	Assigned To	Due Date	Status	C/O
<i>Added at 01-19-2024 meeting</i>					
8	Estimate the number of hours spent on ASHRAE work (GAC and anything else ASHRAE-related).	All GAC Members	Spring GAC meeting	Received several responses (Average time spent on ASHRAE is 7.8 hours/week and about 50% is spent on the GAC)	C
9	Consider recommending members to the Advisory Board managed by PPSC.	All GAC Members	Ongoing	No input received.	O
10	Review the SME-GOE pilot program and provide comments.	All GAC Members	Feb. 9	Comments received from Andy Persily. Additional comments being compiled by the PPSC Chair.	C
11	Investigate the costs and process for translation of publications.	Staff	Spring GAC meeting	Estimate is \$2,000 per document. While this is a high-end estimate, it is recommended to be used by Pub-Ed.	C
12	Provide a report on priorities for translation (language(s) and publications), working with the Planning Committee to ensure the priorities align with Society's strategic direction and consulting with the Global Technical Interaction Committee through its GAC liaison.	GASC	Spring GAC meeting	GASC will provide recommendations in their year-end report; they also recommend this work continue through the next Society Year.	C
13	Follow-up with the UNEP staff liaison regarding how to get an invitation from UNEP that could be provided to the chapter chairs and presidents. (They plan to discuss how partnerships between chapters and ozone units can be advanced at the UNEP liaison committee meeting.)	ASHRAE-UNEP Liaison committee, chaired by Tim Wentz	Spring GAC meeting	At the UNEP Spring meeting, President-Elect Dennis Knight recommended that the (GTIC) serve as the communications hub and clearinghouse between ASHRAE and UNEP for this initiative.	C



#	Action	Assigned To	Due Date	Status	C/O
<i>Added at 04-25-2024 Spring meeting</i>					
14	Review the GAC Job Description that is sent to nominees; determine whether a time commitment should be added to that description. Possibly also add information on the mentoring program.	Hoadley & Yates	Annual Meeting	5/31 – AY emailed job description to Hoadley	O
15	Write memo from GAC Chair to Members Council, Development and Planning, with information on volunteer member contributions of time, which can be used for fund-raising and other purposes.	Yates	May	5/31 – Yates provided draft memo to Hoadley. 6/14 – Memo sent.	C
16	Review Section T, “Financial Assistance for International Outreach Events,” in the GAC Resource Manual. Make recommendations on whether that section should be revised.	GASC (Therault)	Annual Meeting	On the GAC Annual Meeting Agenda.	C
17	Connect the RAL RVC (Ahmed Bolbol) with Sonya Pouncy to further the conversation on government outreach to African countries.	Yates	ASAP	Sent email on 04/26 to connect these individuals.	C
18	More actively communicate at GASC meetings regarding the Financial Assistance for International Government Outreach Events fund. Also communicate one-on-one with the RVCs.	Karson	Summer and Fall 2024	Communication about the Financial Assistance for International GOEs will be a standing agenda item at all future GASC meetings, one-on-one discussions with RVCs will be conducted early in SY24-25, and a motion to improve the workflow to access the money will be voted on by the GASC at the conference.	O



Staff Report: Government Outlook and Opportunities for Engagement

Annual Meeting – June 2024

Alice Yates, Director of Government Affairs

Emily Porcari, Manager of State and Local Government Affairs

Jacob Karson, Manager of Government Advocacy and Outreach

Jason Davidson, Manager of Federal Government Affairs

Chris Miller, Office Manager

Government Affairs Staff: Who Are We?



We have a team that is ready to support you!

Contact all of us at GovAffairs@ashrae.org



Alice Yates
Director



Jacob Karson
Advocacy & Outreach



Emily Porcari
State & Local



Jason Davidson
Federal



Chris Miller
Office Manager

Where is the ASHRAE Government Affairs Office?



1255 23rd Street NW, Suite 825, Washington, DC

You are welcome to visit!

ASHRAE Government Affairs Website: a Multitude of Resources and Information

<https://www.ashrae.org/about/government-affairs>



Member Resources: Advocacy Toolkit

Find out how to get involved in communicating with elected officials and policy makers, including through the Government Affairs Committee and Government Outreach Days.

[LEARN MORE](#)



Policy Positions and Issues

ASHRAE Government Affairs staff regularly tracks activities within Congress, and Federal, State and Provincial legislative bodies. Access Position Documents, issue briefs, letters, and testimony on key policy areas of interest to ASHRAE.

[LEARN MORE](#)



Government Affairs Update

Stay Updated

This bi-weekly newsletter is the best way to keep up with news and notes on recent government activities in Washington, D.C. of interest to ASHRAE members and others. Keep connected to federal and state activities.

[GET THE LATEST](#)



Resources: BASECAMP

- Meeting Agendas, Minutes and other documents for GAC and Subcommittee Meetings
- Key Resources folder:
 - GAC Roster, Subcommittee Assignments, Mentor-Mentee Assignments, Management by Objectives (MBOs)
 - GAC Governing Documents:
 - Manual of Procedures (MOP)
 - Resource Manual
 - GAC Section from the Rules of the Board
 - Simplified Rules of Order
- Contact Chris Miller (cmiller@ashrae.org) for assistance





OUTLOOK and OPPORTUNITIES

Buildings continue to be on the policy and legislative agenda:

- To meet climate and carbon goals
- To provide healthy and safe places to live, work and learn
- To bring resilience to communities

➔ **ASHRAE resources and technical expertise are in demand!**





Federal: Implementation of the IRA and IJA; Agency Actions

- Largest Infrastructure and Climate Investment in U.S. History
- \$1.225 billion for energy codes adoption and implementation
 - 90.1 and BPS (Standard 100 and 211)
- Agency action could slow due to Congressional Review Act

Congressional: Campaign Season, Lame Duck, Still Some Opportunities

- Appropriations: With divided govt, don't expect many changes
- National Defense Authorization Act
- Hearings, Mark-Ups - Bills and issues to watch for movement next session

- Most state legislative sessions have concluded for the year. Legislative sessions only continue in 15 states, plus D.C. - **More opportunities in Spring 2025**
- Trends in state and local legislation:
 - Gas bans/preemption
 - Building code updates and revisions
 - Building decarbonization, especially embodied carbon
 - IAQ
 - New initiatives and programs using federal funding
- Ongoing opportunities to support ASHRAE's Public Policy Priorities through government outreach
- State and local updates can be found in the biweekly Government Affairs Update newsletter. Sign up on the ASHRAE website: <https://www.ashrae.org/about/government-affairs/government-affairs-updates>

Government Outreach and Advocacy: OUTLOOK AT THE STATE LEVEL



Opportunities to Advance PPPs – States to Watch:

- WI and NH failed to update their 90.1 adoption, but we have a new chance next year.
- AK and HI failed to pass legislation to pursue the phaseout of high GWP refrigerants, but we have a new chance next year.
- Numerous state legislatures are positioned to pursue building decarbonization, improve building energy efficiency, resilience, and indoor air quality during the next legislative session. Government Affairs will engage both proactively and as legislation is introduced.
 - E.g. MD, NJ, DE, MI, MN, CA, OR, and WA



Questions?

**Status Update of GAC MBOs
SY2023- 2024**

Last Updated: June 7, 2024

MBO	Subcommittee Assigned	Metric(s)	Status
#1-Increase the participation of ASHRAE members in Government Outreach Events and other advocacy opportunities by hosting promotional GAC meetings, webinars, and other events to non-GAC ASHRAE members to increase awareness about the GAC.	Member Mobilization	<ul style="list-style-type: none"> • 4 Office Hours held • Hold Panel at ASHRAE conference • Develop Marketing material for chapter meetings and/or CRCs – possibly a one-pager on the GAC 	<p><u>Recommend Continuing this Work into SY24-25</u></p> <ul style="list-style-type: none"> • 3 office hours were held. • This work is recommended to be continued, but not as a specific MBO.
#2-Enhance the approach for gathering data and reporting on GOEs; include number of government officials and staff who attended the GOEs. Determine best way to differentiate between types of GOEs	Member Mobilization	<ul style="list-style-type: none"> • Provide recommendation to GAC on how GOE reporting should be changed. 	<p><u>ONGOING</u></p> <ul style="list-style-type: none"> • An MBO next year will focus on increasing the impact and effectiveness of GOEs.

MBO	Subcommittee Assigned	Metric(s)	Status
<p>#3-Review volunteer commitments of committee members as well as membership in general; identify ways to use volunteer time effectively and increase participation in GAC governance and activities.</p>	<p>Executive Subcommittee</p>	<ul style="list-style-type: none"> ✓ Estimate average volunteer time commitment from committee membership and chairs. ✓ Identify # of committee members with other ASHRAE commitments. ✓ Share information with Members Council and request whether volunteer commitments are similar for other standing committees. 	<p><u>COMPLETED</u></p> <ul style="list-style-type: none"> • We have gotten several survey responses from GAC members, with an average of 7.7 hours per week spent on ASHRAE activities, with about half of that time spent on GAC-related activities. • The bulk (90%) of GAC members have ASHRAE commitments beyond the GAC.
<p>#4-Review effectiveness of GAC mentorship program and obtain feedback on how best to make use of program.</p>	<p>Executive Subcommittee</p>	<ul style="list-style-type: none"> • Poll a selection of recent mentees and mentors on their experiences with the program. • Recommend whether the program should be modified. 	<p><u>TO BE CONTINUED INTO SY24-25</u></p> <p>Working on a questionnaire to be distributed in May, which will also address onboarding and offboarding for more lessons-learned. The incoming GAC Chair will be identifying Mentors and Mentees prior to the Annual meeting, which should also improve the program.</p>

MBO	Subcommittee Assigned	Metric(s)	Status
<p>#5-Build the foundation of a consistent global government engagement program by planning and identifying country- or region-specific events attended by government officials for the purpose of outreach and advocacy.</p>	<p>Global Affairs</p>	<ul style="list-style-type: none"> ✓ Identify national and international conferences/events outside North America where ASHRAE can participate to further government engagement. ✓ Provide recommendations to MMSC on how best to increase the number of GOEs outside North America and increase number of ASHRAE members participating 	<p><u>COMPLETED</u></p> <ul style="list-style-type: none"> • Five national/international conferences were identified as opportunities for greater ASHRAE engagement and can be found in the GASC Year End Report. • Five recommendations on how to increase GOEs outside of North America were developed and can be found in the GASC Year End Report. • GASC recommends this subcommittee continues in SY24-25 with developing recommendations and holding discussions related to these two metrics.
<p>#6-Determine best approach for communicating effective strategies about building decarbonization and other key issues to government officials.</p>	<p>Policy & Programs</p>	<ul style="list-style-type: none"> ✓ Establish a program to connect ASHRAE SMEs to government officials. • Coordinate 3 SME-Government meetings. • Assess effectiveness of program and provide recommendations to GAC on full implementation of program. 	<p><u>Recommend this be Continued into SY24-25</u></p> <p>Program has been established, but it has not yet been implemented.</p> <p>Subcommittee recommends the pilot program get extended for 2 years.</p>

MBO	Subcommittee Assigned	Metric(s)	Status
<p>#7-Work with Global Technical Interaction Committee (GTIC) to facilitate sharing of information to avoid duplication of efforts, including through improved understanding of market needs and the tracking and adoption of ASHRAE standards and guidelines around the world.</p>	<p>Global Affairs</p>	<ul style="list-style-type: none"> ✓ Nominate a liaison from GASC to GTIC and send recommendation to GAC Chair at earliest possible opportunity. ✓ Each member of GASC to provide a list of ASHRAE standards that have been adopted by various jurisdictions in their regions. ✓ Identify opportunities for ASHRAE Standards adoption, including through scheduling meetings, sharing information about standards, and/or writing advocacy letters for standards adoption. 	<p><u>COMPLETED</u></p> <ul style="list-style-type: none"> • George Pantelidis was confirmed as the liaison by the GTIC. • The incoming GASC Chair may take over this responsibility in the next SY. • A list of fifteen nation’s ASHRAE standard adoptions and references was developed. Dozens of Government Outreach Events that shared information about ASHRAE standards were conducted. • Full details can be found in the GASC Year End Report.

MBO	Subcommittee Assigned	Metric(s)	Status
<p>#8-Continue work with GAC Advisory Board. Review recommendations of board and provide recommendations on how best to enact them.</p>	<p>Policy & Programs</p>	<ul style="list-style-type: none"> • Determine whether Advisory Board work should be continued, and if so, whether new members should be invited. • Review recommendations from GAC Advisory Board; determine what recommendations should be referred to the GAC and suggest how those recommendations should be implemented. 	<p><u>To be CONTINUED in SY24-25</u> The GAC Advisory Board held meetings in December 2023 and May 2024.</p> <p>Recommendation on whether and how the Advisory Board should be continued will be assessed in SY24-25.</p>
<p>#9-Work with other relevant bodies within ASHRAE to share needs from Government Officials, and how ASHRAE could better communicate via the web and social media.</p>	<p>Executive Subcommittee, through the Communications Coordinator</p>	<ul style="list-style-type: none"> • Assess effectiveness of outward and inward facing ASHRAE web and social media presence focused on GAC efforts. • Provide recommendations on how ASHRAE web and social media presence can better serve GAC committee members as well as government officials. 	<p><u>COMPLETED</u></p> <ul style="list-style-type: none"> • Website has been improved. • Website navigation included in GAC member training.

MBO	Subcommittee Assigned	Metric(s)	Status
<p>#10-Provide recommendations to the full committee on how best to increase the global scope of Government Affairs Committee work and increase participation of members outside North America in committee activities.</p>	<p>Global Affairs</p>	<ul style="list-style-type: none"> ✓ Review current and historical GAC rosters to determine the usual number of committee members outside North America. ✓ Review and compare GOE participation to determine how chapters outside North America compare to chapters in U.S./Canada. ✓ Provide list of challenges that may impede volunteers outside North America from participation on GAC, and recommendations on how to solve these possible challenges 	<p><u>COMPLETED</u></p> <ul style="list-style-type: none"> • A review of historic GAC and GASC rosters and GOE participation was conducted; the bottom line finding was that participation is low outside of North America, and particularly low for certain regions. • A list of challenges that impede volunteerism from outside North America, and proposed solutions was created. • Full details can be found in the GASC Year End Report.

Motion on Revisions to the Rules of the Board

Motion: That the Government Affairs Committee recommends that Members Council recommend to the Board of Directors that the revision to the ROB as shown below be approved.

2.402 GOVERNMENT AFFAIRS COMMITTEE

2.402.002.1 Composition

The members of this committee are as follows:

- A. Voting members, including a Chair and one Vice chair, a Communications Coordinator, one representative from each Region who serves as Regional Vice Chair, one representative from each Council (Technology Council, Members Council, Publishing and Education Council) and four (4) at-large members.

...

2.402.002.3 Term of Service

The term of service for The Chair, ~~the and~~ Vice Chairs, and Council Representatives shall be one year. The term of service for the other voting members shall be three years, subject to ROB 3.300 *Election and Appointment Procedures*.

Background: Council Representatives appointed to the GAC currently have a 3-year term. Unfortunately, that term does not always correspond with the length of time that individual serves on a particular Council, resulting in so-called Council Representatives serving on the GAC who are no longer members of the Council, and thus they can't effectively represent the Council. This term change will ensure that all Council Representatives on the GAC will also be members of the Council they are representing.

Fiscal Impact: NONE

Staff Impact: MINIMAL (the staff liaison to appointments will have some additional work)



Shaping Tomorrow's
Built Environment Today

Government Affairs Committee
Manual of Procedures

**Approved, as amended by Government Affairs Committee on January 19, 2024 and accepted by
Members Council on January 23, 2024**

Approved by Government Affairs Committee on January 19, 2024

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1. INTRODUCTION

The Rules of the Board (ROB) for the Government Affairs Committee (GAC) define its scope and purpose, membership, and operation. This Manual of Procedures (MOP) details the operating procedures followed in carrying out the responsibilities of the Committee as prescribed in its ROB. This Committee is broadly responsible for organizing and conducting government activities at all levels and advising the BOD on such matters.

2. EXPECTATIONS OF COMMITTEE MEMBERS

Committee members are expected to attend and actively participate in regular meetings, serve on assigned Subcommittees, quickly respond to requests from Government Affairs Office staff and Committee leadership, and engage in constructive dialogue.

3. DUTIES OF COMMITTEE MEMBERS

A. Chair

Duties of the Chair consist primarily of directing the operation of this Committee and reporting to the Members Council as required. Specific duties include:

1. Attend meetings of this Committee and assigned Subcommittee meetings.
2. Preside over all meetings of this Committee and its Executive Subcommittee.
3. Review and coordinate approval of the Committee minutes, as prepared by the staff liaisons, for all Committee meetings.
4. Prepare the agendas for this Committee's meetings with the assistance of the staff liaisons and Committee members.
5. Preparing written reports, including MBO status, at Society Annual and Winter Meetings, and at other times as required.
6. In consultation with the GAC Nominating Committee, shall annually appoint the Chairs of the standing Subcommittees.
7. Annually appoint each member of this Committee to one or more standing Subcommittees.
8. Periodically review the expenditures and budget allocations of the Committee and take any action deemed necessary, in cooperation with the Executive Vice President, to stay within the established budget.
9. Appoint Ad Hoc Subcommittees, or working groups from the membership of this Committee, as necessary.
10. Oversee all liaisons activities. Generate liaisons report(s) for distribution to appropriate Society, ASHRAE Regional, and Chapter groups.
11. Serve as the GAC Representative on Members Council.
12. Submit a mid-year report to Members Council at the Winter Conference, and a final report to Members Council at the Society Annual Conference summarizing the status of the current year Committee objectives and for the final report, introducing the Committee objectives for the next Society Year.
13. Assist with planning and participate in Government Outreach Events as needed.

B. Vice Chair

Duties of the Vice Chair include the following:

1. In the absence of the Chair, the Vice Chair shall assume the Chair role at any scheduled or called meeting of this Committee.
2. In the event the Chair is unable to perform its duties, the Vice Chair shall assume all the duties of the Chair until a successor is selected.
3. Prepare recommended budgets for the operation of this Committee for the coming year, in consultation with this Committee's Executive Subcommittee, the staff liaisons, and the BOD ex-officio members, for consideration by this Committee.
4. Perform other duties which may be assigned by the Chair.
5. Serve on this Committee's Executive Subcommittee.
6. Serve as GAC representative to the Members Council PAOE Subcommittee.
7. Coordinate training activities to enable GAC members (RVCs, at-large members, and Council representatives) to effectively fulfill their GAC responsibilities. A new member training is typically offered in the spring just prior to the Annual Conference. The Vice Chair will also be responsible for other trainings as are determined to be necessary in consultation with the GAC Executive Subcommittee.
8. Prepare Committee objectives for the next Society Year in consultation with the Executive Subcommittee and present the objectives to the full GAC Committee for review during the Society Annual Meeting occurring at the end of the Vice Chair's term.
9. Assist with planning and participate in Government Outreach Events as needed.

C. Communications Coordinator

Duties of the Communications Coordinator shall include working with members and staff to:

1. Work with staff to manage and update relevant ASHRAE webpages and social media outlets.
2. Work with RVCs to solicit and publish Journal and Insights articles.
3. Serve on this Committee's Executive Subcommittee.
4. Attend meeting of the Member Mobilization and Public Policy Subcommittees as needed.

D. Regional Vice Chairs

Duties of the Regional Vice Chairs include:

1. Work closely with the Director and Regional Chair (DRC) to keep them informed regarding the Committee's activities and assist with public policy issues.
2. Attend and actively participate in full GAC committee meetings, serve on at least 1 subcommittee, prepare for and attend any special meetings, and perform other duties as directed by this Committee's Chair.
3. Attend the regular meetings of this Committee at the Winter and Annual Conferences of the Society. Additionally, attendance at Subcommittee meetings during the Winter and Annual Conferences is highly encouraged.
4. Assist Chapters in planning, coordinating and administering government activities and assist with training for such activities.
5. Monitor PAOE and enter RVC assigned points for Chapter governmental activities within the

Region.

6. Prepare and conduct Governmental Activities Workshops at Chapters Regional Conference (CRC).
7. Prepare reports, as required by the Society and this Committee's Chair.
8. Coordinate communication on government activities at the Chapter and Regional levels.
9. Administer this Committee's Government Affairs Awards Program within the Region, solicit entries for each award from the Chapters, and forward qualified entries for Society consideration.
10. Transfer all relevant GAC materials, information, standards, and related information to the successor RVC.
11. Visit as many chapters as possible during the 3-year term in coordination with the DRC's plans for chapter visits from region officers (though some consideration shall be given to the RVC's in Region XIII, XIV and RAL).
12. RVS responsibility to help organize Government Outreach Events.
13. Coordinate with DRC regarding President Elect Training and Regional Training.
14. Coordinate planning calls with Chapter GAC Chairs.

E. Representative of Technology Council

Duties of the Representative of Technology Council (TechC) include:

1. Serve as the liaison between GAC and TechC.
2. Ensure that ASHRAE's standards and other technical products are represented in public policy discussions and initiatives.
3. Serve on this Committee's Executive Subcommittee.
4. Keep GAC and subcommittees informed as to what standards, position documents, etc. are currently being discussed and/or edited to coordinate efforts with GAC Executive Subcommittee, Policy and Programs subcommittee, or any other impacted Subcommittee.

F. Representative of Members Council

Duties of the Representative of Members Council include:

1. Serve as the liaison between GAC and Members Council.
2. Ensure that ASHRAE's grassroots interests are represented in public policy discussions and initiatives.
3. Serve on this Committee's Executive Subcommittee.
4. Keep GAC and subcommittees informed as to the status of activities occurring within Members Council that are of interest to the GAC.

G. Representative of Publishing and Education Council (PubEd)

Duties of the Representative of PubEd Council include:

1. Serve as the liaisons between GAC and PubEd.
2. Ensure that ASHRAE's publications, training, certification, and related products are represented in public policy discussions and initiatives.
3. Serve on this Committee's Executive Subcommittee.

4. Keep GAC and subcommittees informed as to the status of activities occurring within PubEd Council that are of interest to the GAC.

H. At-Large Members

Duties of the At-Large Members include:

1. Serve on the Committee's Subcommittees as assigned by the Chair.
2. Provide support and advice as an advocate for assigned Committees in communication and interpretation of Committee's goals; guidance in fiscal planning, assistance in preparation and monitoring of annual objectives; assistance in developing and monitoring of action plans to achieve Strategic Plan Objectives; and assist in preparing recommendations to the Members Council.
3. Attend all meetings of the Committee.
4. Other duties from time to time as directed by the Committee Chair.
5. Assist with planning and participate in Government Outreach Events as needed.

I. Ex Officio Member

Duties of the BOD Ex-Officio member include:

1. Serve this Committee in an advisory capacity and provide liaisons with the BOD, Councils, and other Committees.
2. Provide support to this Committee as follows:
 - a. Guidance in fiscal planning.
 - b. Assistance in preparation of annual objectives.
 - c. Monitoring of progress toward completion of annual objectives.
 - d. Assistance in developing action plans to achieve Strategic Plan Objectives.
 - e. Ongoing review of Committee's ROB and MOP.
 - f. Assess the Committees scope and operation, and suggest changes as needed.
3. Attend all meetings of the Committee, except in cases of conflict with BOD meetings.

J. Staff Liaison

The staff liaisons shall assist in carrying out Committee duties, including:

1. Generate, submit for approval to the Chair, and distribute meeting minutes within 10 business days after Committee meetings.
2. Distribute other supporting documents to Committee members in a timely manner.
3. Assist the Chair in preparation of timely, informative reports to the Members Council.
4. Welcome new members appointed to this Committee and send them electronic copies and/or weblinks to the current Committee roster, MOP, minutes of the past Committee meetings, and other pertinent information, as applicable.
5. Assist the Vice Chair with generating the Committee's budget.
6. Maintain a copy of accounting records and financial statements for the Committee.
7. Process appropriate transportation reimbursement requests for Committee members.

8. Support the Committee in carrying out MBOs.
9. Update this Committee's MOP as directed by the Committee.
10. Update and process materials for this Committee's workshops at CRCs.
11. Assist in the preparation of materials for training incoming Committee members.
12. Assist the Vice Chair in conducting training of Committee members at the Annual Conference and the Winter Conference, and in qualifying Committee members to provide training at CRC Workshops and Chapter events.
13. Respond to inquiries from Chapters regarding this Committee's activities.
14. Provide support for this Committee's Government Affairs Awards Program, coordinate notifications, transportation to the Society Meeting, and Society notification to award winners.
15. Provide information and appropriate contact with government agencies in support of Committee government activities.
16. Provide administrative support for this Committee's programs.
17. Coordinate update of website per this Committee's directives.
18. Offer public policy updates and guidance to the Committee on:
 - a. Summary of recent government activities (as informed by the Society's Public Policy Priorities).
 - b. Trends relative to such priorities at the grassroots government level.
 - c. Existing or potential collaboration with partnering policy organizations.
 - d. Summary of recent requests for input from ASHRAE's GA team, requests for ASHRAE GA action for specific issues being addressed at national, sub national, and local government levels, and the actions that were taken (or not taken) to respond to these requests.

4. SUBCOMMITTEES

- The Chair shall appoint Committee members to each Subcommittee annually. Subcommittee members may include voting members of this Committee and individuals with specific and relevant experience needed on each Subcommittee.
- The Chair of this Committee shall form Subcommittees to conduct the business of the Committee in a practical and efficient manner. As conditions change, standing Subcommittees may be dissolved. The Chair may also form ad-hoc Subcommittees as needed.
- Subcommittee Chairs must have served on the Subcommittee to which they are being appointed for at least 1 year, with the exception of the Nominating Subcommittee.
- Subcommittee members are appointed for a period of one year and may be reappointed by the incoming Chair.

Standing Subcommittee membership and responsibilities are assigned as follows:

A. Executive

The Executive Subcommittee (ES) consists of the Chair, Vice Chair, Subcommittee Chairs, Communications Coordinator, Representative of Tech Council, Representative of Members Council, Representative of PubEd Council, Consultants and the BOD ExOs.

Responsibilities of the Executive Subcommittee shall include:

1. Develop the proposed yearly Public Policy Priorities for the Society.
2. Develop and monitor the Committee's MBOs. When developing MBOs, ES should ensure they align with the Strategic Plan.
3. Develop budgets and monitors Committee expenses.
4. Review and approve requests for action alerts.
 - a. Action alerts are requests to the membership to support an active issue that aligns with the Society's interests, such as pending action on a bill affecting indoor environment.
 - b. Requests for action alerts may be initiated by individuals or groups within or outside GAC.
 - c. When a request for an action alert is received, ES shall make a preliminary judgment as to whether it is necessary and supported by an approved position of the Society.
 - d. If an action alert request is deemed necessary and supported by approved positions of ASHRAE, and if ES agrees that an alert should be issued, timely concurrence from Society Executive Committee will be sought by the Coordinating Officer.
 - e. If an action alert is found to lack support in approved ASHRAE positions and if ES believes an alert should be issued, the Coordinating Officer shall, in a timely manner, seek a supporting position from Society Executive Committee and report it to ES for further consideration.
5. Review and approve requests for input and/or support for specific issues being addressed at national, sub national, and local government levels.
 - a. Requests for input and/or support for specific issues being addressed at national, sub national, and local government levels are initiated by those outside of the GAC. Requests for support often are asking ASHRAE to publicly express an opinion on issues that are considered to be related to ASHRAE's interests.
 - b. Requests for input and/or support may be proposed or initiated by individuals or groups within or outside GAC or ASHRAE.
 - c. When a request for input and/or support is received, if time allows, ES shall make a preliminary judgment as to whether it is supported by an approved position of the Society.
 - d. If an input and/or support request is deemed relevant and supported by approved positions of ASHRAE, and if ES agrees that the input and/or support should be provided, timely concurrence from Society Executive Committee will be sought by the Coordinating Officer.
 - e. If a request for input and/or support is found to lack support in approved ASHRAE positions and if ES believes the input and/or support should be provided, the Coordinating Officer shall, in a timely manner, seek a supporting position from Society Executive Committee and report it to ES for further consideration.
 - f. ASHRAE GA staff should inform the GAC chair when requests are received and advise the chair as to whether or not the request aligns well with existing ASHRAE priorities and documented positions. If time allows, the chair then determines whether to bring the issue to the ES for discussion or authorize staff to address the issue directly.
 - g. For requests received by staff that do not allow time to be considered by the GAC ES and/or GAC ES chair, staff may recommend action directly of the Society Executive Committee and/or Society President. Staff should inform the GAC chair of these time-

sensitive requests and recommendations, along with the action taken.

6. Review, comment, and approve Public Policy Issue Briefs (PPIBs) developed by the Policy and Programs Subcommittee.
 - a. Recommendations, if any, for new PPIBs shall be provided to the Policy and Programs Subcommittee.
 - b. Recommendations, if any, for the retirement of PPIBs shall be provided to the Policy and Programs Subcommittee.
 - c. PPIBs approved by the Executive Subcommittee shall be sent to the full Government Affairs Committee for approval.
7. Transfer all relevant GAC materials, information, standards, and related information to the successor Executive Subcommittee members.
8. When deemed necessary by the Subcommittee, conduct a review of the Committee's governing documents, and make revisions or updates in accordance with the process below.
 - a. Rules of the Board (ROB):
The rules of the board for the GAC define its scope and purpose, membership and operation. Specifically, section 2.402.001 of Volume 2 covers the scope and purpose of the committee, section 2.402.002 Membership, and 2.402.003 Operation. Changes to this document must be preliminary reviewed by the Society Rules Committee, then passed as a motion to Members Council for approval, and lastly passed to the Board for Final approval. The content of these sections should be high level and identify the "who", "what" and "why". The "how" should be described in the Manual of Procedures.
 - b. Manual of Procedures (MOP):
This manual details the operating procedures followed in carrying out the responsibilities of the committee as prescribed in its ROB. For example, this document contains the expectations of Committee members, their duties, a description and make-up of the GAC working subcommittees, the requirements for developing annual objectives, and the awards that the GAC committee is empowered to distribute. Changes to the MOP must be approved by Members Council, but do not require Board approval.
 - c. GAC Resource Manual (RM):
The Government Affairs Committee Resource Manual is a reference for guidelines, forms, procedures, sample documents and other tools that the Committee uses in its day-to-day operations. It ensures consistency in the operation of the Committee at the Society, Region, and Chapter level and serves as an educational tool for new members. The Government Affairs Committee Resource Manual is an internal document of the Committee and changes require the approval of the GAC Committee only.
 - d. Section 2.5 of the Manual of Chapter Operations (MCO):
This section of the Manual of Chapter Operations describes the duties of the Chapter level GAC organizations and rules procedures for disseminating information from the Society GAC and when and how to engage local government officials. The MCO is owned and maintained by Members Council. Changes made to this document must be presented and approved by that entity. Members Council meets 4 times a year and proposed changes must have background information and justification for changes.

B. Policy and Programs

The members of the Policy and Programs Subcommittee are appointed annually by the Chair of the GAC and consist of approximately half of the RVCs on the GAC, and any additional members at the discretion of the Chair. Members of the Executive Subcommittee may, at their **discretion**, serve as Ex Officio members of the Policy and Programs Subcommittee.

Responsibilities of the Policy and Programs Subcommittee shall include:

1. Develop and oversee implementation of public policy goals and initiatives, as drawn from the Society's Public Policy Priorities.
2. Provide regular reports to the GAC on the status of public policy initiatives and goals. These reports shall include recommendations for improving the effectiveness of the Society's public policy operations.
3. Seek opportunities in conjunction with Member Mobilization Subcommittee efforts for influencing public policy through active outreach with governmental and non-governmental organizations.
4. When deemed necessary, prepare and submit requests for action alerts to the Executive Subcommittee.
1. Review and recommend revisions to the PAOE criteria **and forward these recommendations through the staff liaisons to the Committee Vice-chair by November 30 of each calendar year.**
5. ~~, forward to the Committee Vice-chair for consideration.~~
6. Review annually existing PPIBs and make recommendations to the Executive Subcommittee to retire or update the PPIBs. If an update is recommended, the Policy and Programs Subcommittee shall develop the PPIB and submit to the Executive Subcommittee for review and approval.
7. Recommend and develop any new PPIBs, as needed.

C. Member Mobilization

The members of the Member Mobilization Subcommittee are appointed annually by the Chair of the GAC and consist of approximately half of the RVCs on the GAC, and any additional members at the discretion of the Chair. Members of the Executive Subcommittee may, at their discretion, serve as Ex Officio members of the Member Mobilization Subcommittee.

Responsibilities of the Member Mobilization Subcommittee shall include:

- ~~1-8.~~ Monitor and respond to public policy-related requests from government officials and non-governmental organizations on public policy issues deemed important by the Society, including, but not limited to those issues identified in the Society's Public Policy Priorities. Monitor and respond to public policy-related requests from government officials and non-governmental organizations on public policy issues deemed important by the Society, including, but not limited to those issues identified in the Society's Public Policy Priorities. Refer to GAC MOP section 6.a.4 and 6.a.5.
- ~~2-9.~~ When deemed necessary, prepare and submit requests for action alerts or for providing input and/or support for specific issues being addressed at national, sub national levels to the Executive Subcommittee.
- ~~3-10.~~ Provide regular reports to the GAC on the status of ongoing public policy projects.

These reports shall include recommendations for improving the effectiveness of the Society's public policy operations.

- 4.11. Provide recommendations to the GAC on emerging issues that are not the current primary focus of the Society, but have the potential to become of greater interest and thus may warrant greater future attention.
- 5.12. Manage Government Affairs Awards Program.
- 6.13. Review and update training materials for chapter chairs prior to Winter Meeting. The Subcommittee must provide feedback on training materials and work with staff to update and develop the training materials for Regional and chapter training events.
- 7.14. Review and recommend revisions to the PAOE criteria and forward these recommendations through the staff liaisons forward to the Committee Vice-chair by November 30 of each calendar year for consideration.

D. Global Affairs

The members of Global Affairs Subcommittee are appointed annually by the Chair of the GAC. Membership of the Subcommittee includes the RVC's from Regions 2, 8, 11, 12, 13, 14 and the RAL and in addition, up to 3 additional non-RVC Members with international experience that serve on the GAC, at the discretion of the GAC Chair. The Chair of the Subcommittee needs to be an RVC with a minimum of 1 year GAC experience and be from the Regions involved.

Responsibilities of this Subcommittee shall include:

1. Developing strategies to promote and grow activities that reflect the global nature of the Society;
2. Identifying regional best practices for government outreach outside of the U.S. so that chapters can successfully promote the Public Policy Priorities internationally and build connections with government officials, institutions, non-governmental organizations, and private parties;
3. Monitor key public policy needs of government officials and policy makers internationally concerning the built environment, and make ASHRAE recommendations for responding to these issues;
4. Provide regular reports to the GAC on global outreach activities.
15. Review and recommend revisions to the PAOE criteria and forward these recommendations through the staff liaisons to the Committee Vice-chair by November 30 of each calendar year.
5. ~~forward to the Committee Vice-chair for consideration.~~
6. Liaise with other ASHRAE global committees or bodies as needed.

E. Nominating

1. Membership of this Subcommittee shall be the Chair, Vice Chair, a Presidential Member, all Subcommittee Chairs, the Communication Coordinator, the GAC ExO and up to one additional member, if needed. Need for an additional subcommittee member or members shall be determined by the GAC Vice Chair.
2. The Chair of the Nominating Subcommittee shall be the GAC Vice Chair, or another member of the GAC Executive Subcommittee otherwise appointed by the GAC Chair.
2. ~~The Subcommittee shall select a Vice Chair to serve in the absence of the Chair.~~
3. Responsibility of this Subcommittee is to make recommendations to the Society

Appointments Roadmap Committee through the Board ExO for the next year's GAC Committee Chair and Vice Chair.

~~4. The Subcommittee shall seek input from Chairs of Subcommittees on their recommendations regarding nominations.~~

~~5.4.~~ This Subcommittee shall also submit recommendations for the next year's Chairs of the various GAC Subcommittees to the incoming newly appointed GAC Committee Chair and Vice Chair.

~~6.5.~~ This Subcommittee shall meet at the Winter Meeting and at other times during the year as needed. Meetings shall be held in Executive Session and all information shall be treated confidentially~~the staff liaison will be tasked with disposal of any worksheets at the end of each meeting.~~

~~7.6.~~ All nominations should be submitted by the nominating subcommittee within a maximum of two weeks' time after the Winter Meeting.

5. COMMITTEE OBJECTIVES (MBOs)

A final report of the objectives will be included in the Committee report submitted to the Members Council at the Society Annual Conference. The objectives prepared by the incoming Committee Chair for the next Society Year (or by the individual who will be the next year's Chair) will also be included in this report. These two reports on objectives will show the Members Council what the Committee accomplished during the Society Year that is ending and what is planned for the upcoming year.

6. AWARDS PROGRAM

A. Government Affairs Award

The Government Affairs Award was established to recognize an individual for outstanding effort and achievement in national, sub-national, and local government activities in connection with technical issues related to the activities of the Society.

- Recognition is in the form of plaque for the first-place winner.
- One awarded per year.
- The Government Affairs Committee makes recommendations for the award to the Honors and Awards Committee at the Winter Conference.

Motion (Revisions to the GAC Resource Manual): That the Government Affairs Committee approves the attached revisions to the Resource Manual to require time zones to be included in scheduling GAC and Subcommittee meetings. (Page 21)

BACKGROUND: The GAC Executive Subcommittee has proposed updates to the GAC Resource Manual that would add a requirement to the GAC Standing Rules in Section H. Currently, there is no requirement to include the time zone when stating a meeting time in GAC documents or communications. In order to better reflect the fact that ASHRAE is a global society and most members are not located in only one time zone, the Executive Subcommittee suggests that this requirement for meeting communications and invitations to include the time zone be added to the GAC Standing Rules section of the Resource Manual.

FISCAL IMPACT: NONE.

STAFF IMPACT: NONE.

H: GAC STANDING RULES

Every GAC and subcommittee meeting invitation or communication about scheduling must contain the time zone of the meeting.

The rules regarding ASHRAE Council and Committee meetings can be found in the Rules of the Board, Section 2.104.002. The current Rules of the Board can be found at this link: <https://www.ashrae.org/about/governance/rules-of-the-board>. (An ASHRAE member login will be needed to access the document.)

Motion (Revisions to the GAC Resource Manual): That the Government Affairs Committee approves the attached revisions to the Resource Manual to specify that two GAC trainings will take place at certain points in the Society Year and that the trainings will cover the mission and functions of the GAC and GOEs.

BACKGROUND: The GAC benefits from regular trainings for new and returning RVCs. Currently, the first of these trainings is held shortly before the beginning of the new Society Year so that incoming GAC members can be informed of the mission and function of the Committee, and then additional trainings that address GOEs are conducted in the Fall and Winter as to coincide with the start of the legislative season. This policy would benefit from being codified in the Resource Manual, which would make it an explicit practice for the Government Affairs Committee. This would provide clear expectations for staff and would allow Committee members to expect and plan for regular trainings on the core functions of the Committee.

FISCAL IMPACT: NONE.

STAFF IMPACT: NONE.

H: GAC STANDING RULES

The rules regarding ASHRAE Council and Committee meetings can be found in the Rules of the Board, Section 2.104.002. The current Rules of the Board can be found at this link: <https://www.ashrae.org/about/governance/rules-of-the-board>. (An ASHRAE member login will be needed to access the document.)

Trainings:

The Government Affairs Committee will hold two annual training sessions. The first session is intended primarily for incoming GAC members, and will take place shortly before the start of the new Society Year; this first session will broadly cover the mission, functions, procedures, logistics, and resources of the Committee. The second session will focus on Government Outreach Events and will take place in two parts, with the first part scheduled for September/October and the second part scheduled for December/January.

Commented [AY1]: Sheila wants everything to be global in nature.

DAVE PALTY OUTSTANDING GAC SERVICE AWARD – REVISION TO GAC RESOURCE MANUAL

Motion: That the GAC revise the GAC Resource Manual as shown below to clarify the type of award given to the recipient of the Dave Palty Outstanding GAC Service Award.

Section J.

Dave Palty Outstanding GAC Service Award

The Dave Palty Outstanding GAC Service Award is an informal committee award that is given each year to recognize outstanding overall effort on the GAC committee. The subject award will be judged by a 3-person committee made up of the current year Chair, Vice-Chair, and GAC staff director. The individual will be recognized at the GAC committee meeting at the ASHRAE annual meeting and will receive a **plaque certificate** recognizing their outstanding efforts over the course of the year to promote and advocate on behalf of ASHRAE.

Background:

When the Dave Palty Outstanding Service GAC Award was approved by the GAC, it was contemplated that a certificate be given to the awardee. For the past couple of years, a plaque was granted to the awardee. It is important the recognition be consistent over the years, and providing clear direction in the Resource Manual should help make sure that happens.

Fiscal Impact: **\$43.** (These are net costs: Plaque plus shipping less framed certificate (\$44+\$15-\$16)).

Staff Impact: NONE (It will take essentially the same time to order a plaque as it does to assembled the framed certificate.)



Shaping Tomorrow's
Built Environment Today

BUILDING DECARBONIZATION

THE ISSUE

Buildings provide many benefits to society but have a significant worldwide environmental impact due to their greenhouse gas emissions (GHGs). The building industry accounts for roughly 40 percent of global GHGs and the global building stock is expected to double by 2060 due to urbanization, population growth, and related economic trends. The standard metric used to quantify GHGs is carbon dioxide equivalent (CO₂-eq). Using a common metric helps evaluate different sources of GHGs in terms of their potential to impact the atmosphere—it also referred to as their global warming potential. As governmental bodies and jurisdictions across the planet confront climate change, the term “decarbonization” is used to describe practices or policies that reduce GHG emissions. Building decarbonization encompasses a building’s entire life cycle, including building design, construction, operation, occupancy, and end of life.

Many governmental bodies and jurisdictions are requiring new buildings to be low carbon or net-zero energy in the near-term and other policies are requiring retrofits of existing building stock to decarbonize in the medium to long term. Some decarbonization policies also advance building electrification when coupled with a renewable electricity source or other low-carbon technologies. Decarbonization efforts will require large public -and private sector investments, leading to job creation and business opportunities in the HVAC&R, construction materials, and design sectors.

ASHRAE's ROLE

ASHRAE stands at the forefront in providing standards, guidance, technical resources, and education for the design, manufacturing, installation, and operation of building systems. With respect to building decarbonization, ASHRAE's historical focus has been on energy efficiency, which has resulted in significant GHG emission reductions. ASHRAE is expanding its technical resources, education and training and other initiatives so that they address building decarbonization. ASHRAE's Center of Excellence for Building Decarbonization is advancing numerous resources that can be found at www.ashrae.org/decarb

ASHRAE's consensus-based standards that address building decarbonization include:¹

- [Standard 90.1-2022, *Energy Standard for Buildings Except Low-Rise Residential Buildings*](#)
- [Standard 100-2024, *Energy Efficiency in Existing Buildings*](#)
- [Standard 105-2021, *Standard Methods for Determining, Expressing and Comparing Building Energy Performance and Greenhouse Gas Emissions*](#)
- [Standard 189.1-2020, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings*](#)

¹ The most up-to-date list can be found at: <https://www.ashrae.org/about/tfbd-technical-resources>

Commented [AY1]: RR: I have only ever used CO2e

Commented [AY2R1]: RR: standard 228 uses for emissions “kg CO2e” as the unit.

Commented [AY3R1]: GAC Response: We used the terminology of the TFBD (from their position document) - and they approved this.

Commented [AY4]: CFH: recommends removing dash

Commented [AY5R4]: GAC response: we will keep bc it helps make the point.

Commented [AY6]: Doug Fick: Noted that we should be consistent on the list, and recommended including 90.2 and 90.4.

Commented [AY7R6]: GAC Response: We also received feedback that we should list fewer standards. We also have a page limit, so for now we will leave as-is.

Commented [AY8]: RR: Should 90.2 be in here?

Commented [AY9R8]: GAC Response: We also received feedback that we should list fewer standards. We also have a page limit, so for now we will leave as-is.

- Standard 228-2023, *Standard Method of Evaluating Zero Net Energy and Zero Net Carbon Building Performance*
- Proposed Standard 240P, *Evaluating Greenhouse Gas (GHG) and Carbon Emissions in Building Design, Construction and Operation* – for full building lifecycle analysis
- Proposed Standard 242P, *Standard Method for Calculation of Building Operational Greenhouse Gas Emissions*

ASHRAE's VIEW

ASHRAE's position is that eliminating GHG emissions from the built environment is essential to addressing climate change. To do this, it is ASHRAE's position that:

- Decarbonization of buildings and their systems must be based on a holistic analysis including healthy, safe, and comfortable environments; energy efficiency; environmental impacts; sustainability; operational security; and economics.
- By 2030, the global built environment must at least halve its 2015 GHG emissions, whereby:
 - all new buildings are net-zero GHG emissions in operation;
 - widespread energy efficiency retrofit of existing assets are well underway, and
 - embodied carbon of new construction is reduced by at least 40 percent.
- By 2050, at the latest, all new and existing assets must be net zero GHG emissions across the whole building life cycle.
- Building decarbonization provides benefits beyond reducing GHGs, including reduced indoor and outdoor air pollution, improved energy savings, improved community health and wellbeing, enhanced social responsibility, and increased property valuation.
- Operational energy-related GHG emissions can be reduced by implementing efficiency measures and building electrification; improving O&M; using low-GWP refrigerants and minimizing refrigerant volume while maintaining energy efficiency; improving refrigerant management; and increasing use of renewable energy sources both on site and off site, energy storage, and building-grid integration.
- Building design and operations should be able to respond to real-time carbon signals from the power grid to reduce GHG emissions.
- Increasing adoption of current energy codes and their effective implementation are critical for decarbonization.
- Whole-building life-cycle assessment must be considered in future building codes to reduce embodied and operational GHG emissions related to buildings and their HVAC&R systems.
- To improve energy efficiency and reduce emissions in existing buildings, building performance standards (BPS) should be considered as a policy tool.
- Decarbonization policies should consider and mitigate impacts such as increased costs on disadvantaged communities and less-developed nations.

Commented [AY10]: Doug Fick: Noted that these standards were not in the Climate PPIB and that we should be consistent.

Commented [AY11R10]: GAC Response: We also received comments that we should included these, so for now we will leave as-is.

Commented [AY12]: From Doug Fick: Suggest removing carbon due to the complexity of the situation. A small carbon increase at one time could result in a larger decrease later.

Commented [AY13R12]: GAC Response: we can remove.



BUILDING ENERGY BENCHMARKING AND PERFORMANCE STANDARDS

THE ISSUE

Heating, ventilation, air conditioning, and refrigeration (HVAC&R) account for 61% of commercial building site energy use.¹ While new buildings have realized improved energy performance, existing buildings represent the greatest opportunity for energy and greenhouse gas (GHG) emissions reductions. Improving the energy performance of existing buildings requires a robust database of building energy data. Without understanding a building's true performance, identifying effective improvements in energy efficiency is challenging. As the saying goes, "you can't manage what you don't measure."

To address this concern, building energy benchmarking has become a critical tool for quantifying and evaluating building operational energy use patterns. Benchmarking data can inform public policies that focus on the most effective ways to reduce energy use in a city or state's building stock. Benchmarking data can also be used to develop local energy and GHG emissions performance targets appropriate to local climate and building types.

Over 40 U.S. and Canadian cities have building energy benchmarking programs.² Some jurisdictions require actions beyond benchmarking, such as performing energy assessments (audits, tune-ups, or retro-commissioning) or meeting performance targets (maximum energy use or GHG emissions). Cities such as Boston, Denver, New York City, [St. Louis](#), [Columbus \(Ohio\)](#), [Indianapolis](#), Washington, DC, and Vancouver, BC have set aggressive GHG emissions reduction goals for existing buildings that require accurate benchmarking to determine emissions and energy savings.

ASHRAE's ROLE

ASHRAE develops standards, guidance and educational resources informed by robust data on the actual energy performance of buildings, and shares evidence-based best practices and technical information with professionals across the building sector. To achieve a carbon neutral world, ASHRAE is ~~also~~ leading the way in converting energy to carbon in selected standards. ASHRAE's tools and resources include:

- Benchmarking:
 - **ASHRAE Standard 105** *Standard Methods of Determining, Expressing, and Comparing Building Energy Performance and Greenhouse Gas Emissions* provides a method for determining and comparing building energy performance and greenhouse gas emissions.
 - **ASHRAE Standard 214** *Standard for Determining and Expressing Building Energy Performance in a Rating Program* provides uniformity in the building energy labeling and disclosure process.

¹ 2018 Commercial Building Energy Consumption Survey Final Results [Energy Information Administration \(EIA\)-Commercial Buildings Energy Consumption Survey \(CBECS\)](#)

² Comparison of U.S. Commercial Building Energy Benchmarking and Transparency Policies. Institute for Market Transformation, July 2022, <https://www.imt.org/resources/comparison-of-commercial-building-benchmarking-policies/>

Commented [YA1]: Luke Leung: The focus is only on operational. A true "Building Energy Benchmarking" will involve embodied energy, construction energy use, operational energy, and end of life energy usage.

Is the goal of this document on "Building **Operational** Energy Benchmarking"?

If yes, will there be another document regarding "Building Embodied Energy Benchmarking"?

Commented [YA2R1]: GAC Response: The GAC considered developing a new PPIB on Embodied Carbon, but didn't have enough time or information to complete it; GAC welcomes language from Tech Council, the DRSC, the CEBD and others to improve this Building Energy Benchmarking PPIB to include Embodied Energy and/or to create a new PPIB on Embodied Carbon.

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Commented [AY3]: Doug Fick: There are location in republican states which could also show a broader based support. Columbus. Indianapolis, etc

Commented [AY4R3]: GAC Response: Great idea! We added some.

Commented [AY5]: Doug Fick recommends deleting.

Commented [AY6R5]: GAC Response: agree. Thanks!

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- **ASHRAE Standard 228** *Standard Method of Evaluating Zero Net Energy and Zero Net Carbon Building Performance* provides a consistent method for determining whether new and existing sites have reached zero energy.
- **Energy Audits and Assessments:**
- **ASHRAE Standard 211** *Standard for Commercial Building Energy Audits* establishes consistent practices for conducting and reporting energy audits for commercial buildings. Referenced by ordinances in some cities such as Atlanta, GA; Boulder, CO; Los Angeles, CA; New York, NY; and San Francisco, CA.
- **Building performance targets:**
- **Building Performance Standards: A Technical Resource** provides a technical basis and serves as a resource for policymakers, building owners, facility managers, design professionals and ASHRAE members when developing and implementing a Building Performance Standard (BPS).
- **ASHRAE Standard 100** *Energy and Emissions Building Performance Standard for Existing Buildings* sets energy use intensity (EUI) benchmarks for existing buildings in the commercial and residential sector and establishes methods for determining opportunities for improvement in EUI leading to compliance with the standard benchmarks. Standard 100 also includes metrics for greenhouse gas (GHG) emissions targets, and can assist jurisdictions in meeting emissions reduction goals. *Referenced by Washington State's Clean Buildings Act of 2019*, and in Oregon's Building Performance Standard requirements for large buildings.
- **ASHRAE's Building EQ³** program calculates a building's energy performance in relation to other similar buildings, identifies the gap between "as designed" potential and actual performance in operation, and provides recommendations to reduce energy use. Building EQ can be used to publicly display building energy use and comply with disclosure requirements.

Calculating Greenhouse Gas Emissions:

- **Proposed Standard 240P** *Quantification of Life Cycle Greenhouse Gas Emissions of Buildings*
- **Proposed Standard 242P** *Standard Method for Calculation of Building Operational Greenhouse Gas Emissions*

ASHRAE certification programs were developed to meet the industry needs of today and provide value to thousands of built-environment professionals, employers, and building owners. Certifications like Building Commissioning Professional (BCxP) and Building Energy Assessment Professional (BEAP) are recognized by the U.S. Department of Energy (DOE) as meeting the Better Buildings Workforce Guidelines (BBWG) and are used frequently by local jurisdictions to designate who is qualified to perform benchmarking and energy assessments.

ASHRAE's VIEW

Energy metrics that are widely accepted, robust, and validated are critical to achieving policy objectives. Standardized procedures for energy performance assessments ensure an appropriate level of rigor and scope of work. Within a building owner's portfolio or across a jurisdiction's building stock, decision-makers need consistent language, metrics, and procedures to effectively communicate goals, evaluate potential investments, and measure success. ASHRAE remains dedicated to sharing technical resources with policymakers to support

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Commented [AY7]: Doug Fick: We do not discuss 240 and 242 event though they are in process they relate to our carbon leadership

Commented [AY8R7]: GAC Response: We added an additional section to address those proposed standards. We had to keep it really short to stick with the one-page limit.

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legislative and regulatory solutions that improve building energy efficiency and reduce GHG emissions.

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CLIMATE CHANGE AND THE BUILT ENVIRONMENT

THE ISSUE

Worldwide concern for changes in the global climate has escalated as scientific evidence has become more definitive, linking increased concentrations of atmospheric greenhouse gases (GHGs) and consequent global warming to human activities. As a response, ASHRAE is increasing our attention and consideration on standards, regulations, legislation and policies that involve GHGs.

When developing policy to combat climate change, it is important to consider that buildings and their heating, ventilating, air conditioning and refrigeration (HVAC&R) systems directly and indirectly contribute to GHG emissions. Buildings are responsible for 34% of global final energy use and 37% of energy-related emissions worldwide.¹ These emissions are associated with construction and the energy needed to operate buildings and building systems, and to a lesser extent indirectly through the release of refrigerants and other GHGs, in particular if they are not properly managed, if not properly managed. According to the United Nations Intergovernmental Panel on Climate Change (IPCC), "buildings offer immediately available, highly cost-effective opportunities to reduce energy demand, while contributing to meeting other key sustainable development goals including poverty alleviation, energy security and improved employment."² Improving the energy efficiency, and the ongoing efficient performance of building systems provide a significant opportunity for climate change mitigation.

ASHRAE's ROLE

ASHRAE is the leading source of information and research for HVAC&R systems and building performance making this issue a key area for our members. ASHRAE's technical resources help address buildings' contribution to climate change including through these standards:

- Standard 90.1, *Energy Standard for Buildings Except Low-Rise Residential Buildings*
- Standard 90.2, *Energy Efficient Design of Low-Rise Residential Buildings*
- Standard 90.4, *Energy Standard for Data Centers*
- Standard 100, *Energy and Emissions Building Performance Standard for Existing Buildings*
- Standard 189.1, *Standard for the Design of High Performance Green Buildings*
- Standard 189.3 *Design, Construction, and Operation of Sustainable High-Performance Health Care Facilities*
- Standard 105, *Standard Methods of Determining, Expressing, and Comparing Building Energy Performance and Greenhouse Gas Emissions*
- Standard 228, *Standard Method of Evaluating Zero Net Energy and Zero Net Carbon Building Performance*
- Proposed Standard 240P, *Evaluating Greenhouse Gas (GHG) and Carbon Emissions in Building Design, Construction and Operation – for full building lifecycle analysis*
- Proposed Standard 242P, *Standard Method for Calculation of Building Operational Greenhouse Gas Emissions*

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Commented [YA1]: Luke recommended adding "and other GHGs," and deleting "if not properly managed."

Luke explains that "It is NOT just refrigerants only, it is fire protection agents, electric insulator, medical gases, etc. some are intentional (e.g medical gases), others are "fugitive""

Commented [YA2R1]: GAC Response: GAC appreciates this thoughtful comment, and accepts this edit. GAC also believes refrigerant management needs to be included, because reducing leakage rates is critically important. GAC agrees to a modified statement on refrigerant management to indicate that this won't solve the problem.

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Commented [AY3]: Doug Fick recommended including.

Commented [AY4R3]: GAC Response: Thanks for the excellent suggestion! We will include if we can adhere to the 1 page (two-sided) limit per the ROB

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Commented [YA5]: Luke recommends adding these standards.

Commented [YA6R5]: GAC Response: Thanks for the excellent suggestion! We will include if we can adhere to the 1 page (two-sided) limit per the ROB

¹ United Nations Environment Programme (2024), "Global Status Report for Buildings and Construction: Beyond foundations: Mainstreaming sustainable solutions to cut emissions from the buildings sector." Nairobi. <https://doi.org/10.59117/20.500.11822/45095>.

² Lucon, Oswaldo, and Diana Ürge-Vorsatz. "AR5 Synthesis Report: Climate Change 2014." *Chapter 9: Buildings*, United Nations Intergovernmental Panel on Climate Change, 2014, https://www.ipcc.ch/site/assets/uploads/2018/02/ipcc_wg3_ar5_chapter9.pdf. ³ For more information, see www.ashrae.org/technical-resources/aedgs.

Other ASHRAE resources for addressing climate change include:

- ASHRAE and its partners have published several free-to-download Advanced Energy Design Guides (including Zero Energy Building Guides for K-12 Schools and Offices), which provide educational guidance to reduce energy consumption while achieving acceptable IEQ conditions.

ASHRAE's VIEW

ASHRAE is committed to a leadership role in reducing climate change contributed to by building systems and responding to climate change experienced in the built environment. ASHRAE recommends:

- States adopt the most recent version of ANSI/ASHRAE/IES Standard 100 for existing buildings and ANSI/ASHRAE/IES Standard 90.1 for new buildings.
- A full evaluation of new and existing buildings' climate impacts, carbon balance, and energy performance.
- Funding for research that improves energy efficiency/utilization in HVAC&R technology to minimize GHG emissions.
- Funding for building science research leading to improved
 - advanced equipment and systems
 - grid-interactive designs
 - ability to load-shift
 - integration of the Internet of Things (IoT)
 - net metering
 - building based energy storage systems and demand response technology
- Promotion of carbon and energy life-cycle analysis to building owners to encourage sustainable building construction, operation and renewal.



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CONSENSUS STANDARDS: EXPERT SOLUTIONS TO MEET GLOBAL NEEDS

THE ISSUE

Voluntary consensus technical standards developed by private organizations are essential for a productive global economy and to facilitate global commerce. Standards foster safe building technology innovation by providing a transparent baseline and needed metrics for assessing how that technology can impact building design, performance, and the occupants. They are necessary for comparing technologies in the expanding global marketplace and facilitating cross-border collaboration. Governments and model code bodies recognize the value of voluntary consensus standards and adopt them for use in their building codes and regulations.

Voluntary consensus technical standards are developed through the participation of qualified, interested, and affected stakeholders including manufacturers, consumers, users, advocacy organizations, and representatives of government and academia. Standards accreditors such as the American National Standards Institute (ANSI), the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC) follow several principles such as consensus, balance, transparency, due process, and technical expertise.

Copyright protection of voluntary consensus technical standards is critical to the continued development and maintenance of standards. Governments at all levels benefit from application of standards by private organizations who rely on copyright protection in order to continue the maintenance of existing standards and development of future standards. Without copyright protection, standards development organizations will be challenged to provide the public with the benefit of ~~rigorously~~ research, tested and science-backed standards.

In the United States, policymakers have considered voluntary consensus standards so critical that federal law (the National Technology Transfer and Advancement Act of 1995), supplemented by OMB Circular A-119, directs federal agencies to use voluntary consensus standards wherever possible in their procurement and regulatory activities in lieu of expending public resources developing government-unique standards. Current policy recognizes that reliance on voluntary consensus standards protects public health and safety, saves taxpayers money, encourages long-term growth for U.S. businesses, and promotes the global competitiveness of American enterprises.

ASHRAE's ROLE

ASHRAE develops and publishes robust technical standards; many of which are adopted directly by governments or into building codes. ASHRAE standards establish requirements in the areas of heating and cooling, indoor air quality, energy conservation and management, building water systems, high-performance buildings, safe refrigerant use, and others.

ASHRAE's standard development process is rigorous, and it is one of only six standards-developing organizations in the U.S. that can self-certify that its standards have followed ANSI's procedures.

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Commented [AY1]: CFH

Commented [AY2R1]: GAC Response: good catch - thanks!

ASHRAE also serves on U.S. Technical Advisory Groups (TAGS) for ISO Committees and in the role of international secretariat for ISO Technical Committees to help ensure that ASHRAE views are represented. These standards are supported by technical committees that develop publications and educational materials to assist in the application of ASHRAE standards. ASHRAE standards are developed by experts from around the globe under strict ethical and non-commercialism guidelines.

ASHRAE's VIEW

Use of voluntary consensus standards at all levels of government are a benefit to society. For this reason:

- Government entities should continue to support voluntary consensus standard development, use, and adoption in laws and regulations, which can protect public health and safety, improve commerce, and save taxpayers money.
- Agencies should work with standards developers and industry experts to identify situations where societal interests could be addressed through the use of voluntary consensus standards.
- Governments should continue to foster and support the unique character and strengths of the public-private partnership in standards development as they pursue trade and other international agreements, regulatory harmonization, and legislative and regulatory approaches.
- Governments should support policies, both domestically and internationally, which ensure the continued ownership and control of the copyrights and trademarks of standards developers.
- Policy makers should participate in the development of voluntary consensus standards and government officials should encourage their staff who are subject matter experts to participate through work release time and reimbursement of expenses incurred.
- Governments need to ~~should~~ regularly update regulations and policies to reference the latest versions of standards to reflect the latest technical advances, which can help protect public health, improve resiliency and sustainability.

Commented [AY3]: Doug: Recommends using "will" instead of can.

Commented [AY4R3]: GAC Response: Thanks for your comment! Because each standard is different, we do not want to definitively state that using these WILL protect public health. We would rather error on the side of caution.

Commented [AY5]: From Doug: This is becoming a large issue in many states, can we make this a stronger statement?

Commented [AY6R5]: GAC Response: Thank you for this thoughtful comment! We included some strengthening edits to address.

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ENVIRONMENTAL TOBACCO SMOKE AND ELECTRONIC NICOTINE DELIVERY SYSTEMS

THE ISSUE

While indoor smoking has become less common in recent years in many countries the use of Electronic Nicotine Delivery Systems (ENDS) has significantly increased. Both smoking and the use of ENDS negatively affects indoor air quality and each has inherent health risks.

Exposure to Environmental Tobacco Smoke (ETS) continues to have considerable health and cost impacts. Researchers have investigated the health and irritant effects among non-smokers exposed to tobacco smoke in indoor environments. Such exposure is also known as passive smoking and as involuntary exposure to secondhand smoke. A number of national and global health research groups and agencies have concluded, based on the preponderance of evidence, that exposure of non-smokers to tobacco smoke causes specific diseases and other adverse effects to human health, most significantly cardiovascular disease and lung cancer. No cognizant authorities have identified an acceptable level of ETS exposure to non-smokers, or expectation that further research will identify such a level.

Simultaneously with the decline of tobacco smoking, the use of Electronic Nicotine Delivery Systems (ENDS) including vape pens, electronic cigarettes, and other device that convert nicotine into an inhalable aerosol without combustion has rapidly increased. The vapor or aerosol emitted from these devices contains varying amounts of nicotine dissolved in propylene glycol, or glycerol along with volatile compounds (VOCs).^{1,2} Unique to the use of ENDS is the concentration and type of compounds that may deposit and remain on indoor surfaces. These deposits represent a unique source of contamination in buildings that varies depending on indoor climate, airflow and surface area that may require specialized cleaning, HVAC maintenance, and other operational practices.³ In addition, limited studies have been performed to evaluate the chemical reactions and health interactions that may occur between ENDS emissions and other airborne contaminants commonly found indoors.

Despite the well-documented benefits of smoking bans, many locations worldwide still lack laws and policies that provide sufficient protection. Still fewer bans include the use of ENDS. In many locations, laws and policies are only partially protective, permitting smoking and ENDS usage in certain areas of buildings or specific building types including casino, entertainment and multifamily housing.

¹ Offermann 2015. F.J. Offermann, "Chemical Emissions from E-Cigarettes: Direct and Indirect Passive Exposures," *Building and Environment*, Vol. 93, Part 1, 101-105, November, 2015.

² Cooke 2015. Cooke, Andrew, MDa, et. al., "The Electronic Cigarette: The Good, the Bad, and the Ugly," *J Allergy Clin Immunol Practice*, 2015, Vol. 3, 498-505.

³ Schripp 2013. Schripp, et. al., "Does e-cigarette consumption cause passive vaping?" *Indoor Air* 2013; 23: 25-31.

Commented [AY1]: Doug: The systems are delivering other items nicotine (I.E. THC) should this would be removed.

Commented [AY2R1]: GAC Response: ENDS is what they are called in the PD and in the broader community, which is why GAC recommends keeping ENDS.

ASHRAE's ROLE

Providing healthy and comfortable indoor environments through the management of indoor air quality is a fundamental goal of building and HVAC design and operation. ASHRAE has long been active in providing engineering technology, standards and design guidance in support of this goal. For example, ANSI/ASHRAE Standards 62.1 and 62.2 are standards that specify minimum ventilation rates and other measures to manage indoor air quality. Therefore, the health effects of indoor exposure to emissions from tobacco products, and ENDS devices are relevant to ASHRAE.

ASHRAE's VIEW

Exposure to ETS can be reduced through a variety of strategies, but they do not completely eliminate exposure to ETS. Only indoor smoking bans, leading to near zero exposure, provides effective control, have been recognized as effective by health authorities. Effects of secondary involuntary exposure to ENDS have not been thoroughly studied by the scientific community, in part because these devices are new, evolving, diverse and customizable. However, because ENDS have become so prevalent, indoor building components and occupants are being exposed to passive vapors. Many cognizant public health authorities argue that caution should prevail in all situations of human exposure when limited data is available about health impacts. Applying this principle to ENDS argues that involuntary exposure should be banned in order to keep exposure to airborne emissions as low as possible.

ASHRAE's mission to act for the benefit of the public encourages lawmakers, policymakers and others who exercise control over buildings, to maximize mitigation of secondary involuntary exposure from smoking and ENDS use inside and near buildings. ASHRAE also recommends:

- That building design practitioners work with their clients to define their intent, where smoking and ENDS use is still permitted, for addressing exposure in their facilities and educate and inform their clients of the limits of engineering controls in regard to both ETS and ENDS.
- That multifamily buildings have complete bans on tobacco smoking and ENDS inside and nearby in order to protect nonsmoking adults and children.
- That further research be conducted by cognizant health authorities on the health effects of involuntary exposure in the indoor environment from smoking cannabis, and using hookahs and ENDS. Pending the outcome of that research, cannabis and hookah smoking should be managed the same as recommended herein for ETS and ENDS.

Commented [AY3]: CFH: Recommended deleting "and" to read easier.

Commented [AY4R3]: GAC Response: Deleting "and" would break the sentence. The first clause is about "smoking" and this one is about "using", both hookahs and ENDS.



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INDOOR AIR QUALITY

THE ISSUE

The average adult breathes about 2,000 gallons (7,570 liters) of air each day and most Americans spend around 87% of their time inside buildings – amplifying the importance of indoor air quality. The quality of the air inside our buildings has a significant impact on a person's health, performance and wellbeing. Indoor air is a significant exposure route for airborne contaminants and may contain particles and gases with impacts that range from eye and lung irritation to exposure to infectious pathogens, poisonous compounds, or carcinogens. These contaminants can impact health, comfort, well-being, learning, sleep, and work performance.

The direct connection between health and wellness encourages building designers and operators to prioritize indoor air quality (IAQ) in buildings. Cost-benefit analyses have estimated the health and economic benefits of improved IAQ to be far greater than the costs of implementing strategies that yield IAQ improvements. There are three widely accepted approaches to improving IAQ – source control, ventilation, and air cleaning. Many strategies exist within these approaches that can help achieve good IAQ efficiently and can be implemented to lower energy use and improve occupant satisfaction.

ASHRAE's ROLE

The critical connection between IAQ and building HVAC systems has made IAQ a fundamental issue for ASHRAE and its members for more than 50 years. ASHRAE provides technical resources, coordinates and funds research, organizes conferences, and educates practitioners about IAQ.

ASHRAE developed and continues to support standards, guidelines, and other resources related to efficiently improving IAQ, such as:

- **ANSI/ASHRAE Standard 62.1, Ventilation and Acceptable Indoor Air Quality** – This Standard establishes ventilation and other IAQ requirements for buildings other than residential and health care. Its outdoor air ventilation rate requirements have been adopted into the International Mechanical Code and Uniform Mechanical Code, the two most common model building codes in the US. The standard is also referenced by most green commercial building programs including LEED.
- **ANSI/ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings** – Residential (multifamily to single family homes) ventilation requirements from this standard have been adopted into codes, including California's Title 24, and into LEED for Homes and the U.S. Environmental Protection Agency's (EPA) Indoor airPlus program.
- **ANSI/ASHRAE/ASHE Standard 170, Ventilation of Health Care Facilities** – Standard 170 brought together several documents used throughout North America into a single standard. It is now widely used in building codes for ventilation requirements in hospitals and other health care facilities.
- **ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1, Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings** – This

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Commented [AY1]: Doug Fick: Gallons feels like the wrong units liters would be better aligned with the medical community

Commented [AY2R1]: GAC Response: We will also include liters

Commented [AY3]: Doug Fick: While this standard does provide additional IAQ requirement it is very different than the other standards. This should probably be removed for clarity

Commented [AY4R3]: GAC Response: 189.1 says a lot more about IAQ than 62.1 alone; we will retain.

Standard was developed in conjunction with U.S. Green Building Council, the International Code Council and Illuminating Engineering Society, this standard provides IAQ requirements beyond those in Standard 62.1.

- **ASHRAE Standard 241, *Control of Infectious Aerosols*** – This Standard defines the amount of equivalent clean airflow necessary to substantially reduce the risk of disease transmission during infection risk management mode.
- **ASHRAE Guideline 42, *Enhanced Indoor Air Quality in Commercial and Institutional Buildings*** – This Guideline recommends measures that exceed the minimum requirements in Standard 62.1 to provide enhanced indoor air quality through the management of indoor contaminant sources, and through enhanced ventilation and air-cleaning-system design, installation, commissioning, and operation and maintenance.
- **ASHRAE Indoor Air Quality Guide: *Best Practices for Design, Construction, and Commissioning* and *ASHRAE Residential Indoor Air Quality Guide: Best Practices for Acquisition, Design, Construction, Maintenance and Operation*** – These guides present best practices that have proven successful in building projects to achieve good IAQ.
- ***Damp Buildings, Human Health and HVAC Design*** – This report provides a summary of what is understood about dampness-related health risks in buildings as well as suggestions for HVAC system designers that can help avoid such risks.

ASHRAE'S VIEW

ASHRAE's view is that the provision of acceptable IAQ is an essential building service. Improved IAQ brings substantial health and economic benefits from a broad public health perspective, as well as to individual building owners and occupants.

Therefore, ASHRAE recommends that:

- Achieving and maintaining good IAQ should be included in all decisions (including policy decisions) that affect the design and operation of buildings and HVAC systems, including efforts to improve building energy efficiency, sustainability, resiliency, and the management of infectious diseases.
- The importance of IAQ and the fundamentals of achieving good IAQ through building design and operation should be included in education programs for all stakeholders in built environment – from developers, owners, and operators to designers, technicians, and consultants.
- The latest versions of ASHRAE's IAQ standards should be adopted by building codes and regulations when they are updated every three years, specifically:
 - Standard 62.1-2022 for commercial buildings
 - Standard 62.2-2022 for residential buildings
 - Standard 170-2021 for healthcare buildings
 - Standard 241-2023 for pathogen mitigation
- Research and standards development should be supported by the government, including consideration for a national model standard, improvement of indoor contaminant monitoring and measurement technologies, approaches to improving IAQ beyond ventilation and filtration (e.g., air cleaning), development of tools to assess the economic valuation of IAQ benefits, and improved understanding of new contaminants of concern and techniques for adding them.

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INDOOR CARBON DIOXIDE, VENTILATION AND INDOOR AIR QUALITY

THE ISSUE

Indoor CO₂ has been considered in the context of building ventilation and indoor air quality (IAQ) for centuries. Most of these discussions have focused on how CO₂ concentrations relate to occupant perceptions of IAQ, and the use of CO₂ to evaluate ventilation performance and to control of outdoor air intake rates (demand control ventilation). While these topics have been studied for decades, misinterpretation of CO₂ concentration as an indicator of IAQ and ventilation is common in the HVAC industry, IAQ research community, and the public.

In addition, recent research has studied the ~~impacts~~ of CO₂ on human performance at commonly observed indoor concentrations. ~~indoor~~ Indoor CO₂ monitoring has also been promoted as a ventilation indicator in the context of managing the risks of airborne disease transmission. Concerns have long existed regarding the accuracy of indoor CO₂ concentration measurements, which are now more common due to the availability and more widespread application of less expensive sensors. Given all of these factors, as well as increasing calls to monitor CO₂ in buildings, ASHRAE is working to clarify the use of indoor CO₂ measurements as a tool to help improve IAQ and building ventilation.

ASHRAE's ROLE

ASHRAE has long been active in providing engineering technology, standards and design guidance to support the goal of providing healthy and comfortable indoor environments in an energy-efficient manner. For decades, these efforts have focused on providing effective ventilation in buildings, designing and operating ventilation systems and managing the wide range of air pollutants within buildings. For example, ANSI/ASHRAE Standards 62.1 and 62.2 are standards that specify minimum ventilation rates and other measures to support the health, comfort and productivity of building occupants; these standards do not contain CO₂ limits based on human health and comfort .

ASHRAE Standard 62.1. contains CO₂ concentration setpoints for the application of demand control ventilation, but they are not intended to be and should not be used as indicators of IAQ.

ASHRAE's VIEW

Monitoring indoor CO₂ can be a useful tool for understanding building ventilation and IAQ, supporting efforts to provide high quality indoor environments and manage the energy needed to do so. Critically, indoor CO₂ measurements should be understood in the context of the built environment, to ensure that they are measured and interpreted in a meaningful way. Claims that ASHRAE Standard 62.1 requires indoor CO₂ concentrations below a certain threshold (typically 1000 ppm) for acceptable indoor air quality are *incorrect*.¹ ASHRAE's IAQ Standards do not use indoor CO₂ values to determine acceptable indoor air quality, as IAQ is impacted by multiple factors (such as temperature, humidity, particulate matter, gas pollutants, etc.).

¹ Persily, A. 2022. *Development and application of an indoor carbon dioxide metric*. Indoor Air. Volume 32, Issue 7.

Commented [AY1]: CFH recommended "impact"

Commented [AY2R1]: GAC Response: Okay; will change.

Commented [AY3]: CFH: capitalize

Commented [AY4R3]: GAC Response - yes, thanks!

Because of ASHRAE's mission to act for the benefit of the public, it encourages building designers, lawmakers, policymakers and others to craft informed recommendations for the measurement of indoor CO₂ concentrations. To that end, ASHRAE stresses that:

- Indoor CO₂ concentrations do not provide an overall indication of IAQ, but they can be a useful tool in IAQ assessments if users understand the limitations in these applications (e.g., number and activity level of occupants compared to the design capacity, length of time a space has been occupied, no combustion or other sources of CO₂ that could impact readings). While CO₂ readings below a threshold value do not assure overall acceptable IAQ, CO₂ readings far above expected ranges² may indicate the ventilation system is not functioning properly.
- Existing evidence for the impacts of CO₂ on health, well-being, learning outcomes and work performance is inconsistent and does not currently justify changes to ventilation and IAQ standards, regulations, and guidelines.³ However, CO₂ can be used to verify if ventilation system performance meets existing IAQ standards, regulations, and guidelines.
- The use of indoor CO₂ measurements to evaluate the risk of airborne disease transmission must account for the type of space and its occupancy and the differences in CO₂ and infectious aerosols. For example, CO₂ concentration is unaffected by filtration and most other air-cleaning methods that reduce infectious aerosol concentration, so it should not be used as a direct indicator of infection risk.
- Sensor accuracy, location and calibration are all critical for drawing meaningful inferences from measured indoor CO₂ concentrations.
- Programs or requirements to monitor CO₂ in buildings, when conducted with an understanding of their technical basis, can be helpful, but monitoring CO₂ without such understanding can lead to confusion on the part of building occupants and the public.

² *Ibid.*

³



Shaping Tomorrow's
Built Environment Today

WILDFIRE SMOKE FROM WILDFIRES AND PRESCRIBED BURNS: IMPLICATIONS FOR INDOOR ENVIRONMENTAL HEALTH

THE ISSUE

Wildfires are large-scale, uncontrolled fires that occur in forests, grasslands, and other natural landscapes. In recent years, the frequency and severity of wildfires have increased due to climate change. The smoke from these fires, along with that from prescribed burns, can cause significant air quality issues both outdoors and indoors. Wildfire smoke poses a risk to indoor air quality (IAQ) by introducing hazardous particles and gases into the air. These contaminants can enter buildings through open doors and windows, ventilation systems, or general air leakage. Once inside, they can remain airborne for long periods of time and lead to health symptoms such as eye irritation, coughing, difficulty breathing, headaches, nausea, and dizziness, as well as more severe health risks such as heart attacks and strokes, especially among vulnerable populations. The health impacts caused by wildfire smoke makes it essential for building owners/operators to take proactive steps towards reducing exposure among occupants wherever possible. While wildfires and prescribed burns are the driving issue, many of the concerns and much of the available knowledge and guidance have wider applicability to other smoke events.

ASHRAE's ROLE

ASHRAE develops consensus standards and guidelines, and offers technical resources on both commercial and residential considerations for managing the effects of wildfires. These resources include:

- [ASHRAE Planning Framework for Protecting Commercial Building Occupants from Smoke During Wildfire Events](#)
- ASHRAE Residential Issue Brief, "[Wildfire Smoke Hazards for Dwelling Occupants](#)," 2021.
- Proposed ASHRAE Guideline 44P, *Protecting Building Occupants from Smoke During Wildfire and Prescribed Burn Events* -- is expected to provide guidance on how to protect building occupants from smoke during wildfire and prescribed burn events. The aim of the guideline will be to provide a series of actions to be taken to reduce the risk of smoke infiltration into a building, protect its occupants from smoke, and reduce the need for evacuation. The guideline is anticipated to address risk reduction, guidance on selecting appropriate smoke management strategies, and information on air filtration and air-conditioning systems for smoke control. The guideline is expected to address building envelope design and construction, and testing and commissioning of smoke management systems.

ASHRAE's VIEW

ASHRAE's view is that building owners/operators should take proactive measures to

Commented [DF1]: While the purpose is wildfire there are many smoke events which this could apply. Within the document remove wild to allow for a greater application

Commented [AY2R1]: GAC Response: We consulted the ASHRAE SME on this topic and he recommended not removing wildfire as that gives the context for what the massive problem is, and the need for information, etc.

We added a sentence to the first paragraph to address that much of the guidance/knowledge/whatever has wider applicability to other smoke events.

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Commented [DF3]: There are also unintentional crop fires and the word natural should be removed

Commented [AY4R3]: GAC Response: Thanks - we accept.

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reduce exposure to wildfire smoke in order to have improved IAQ. These include reducing outdoor air intake during high levels of wildfire smoke; installing effective filtration systems; sealing cracks or gaps where outdoor air smoke can enter the building; monitoring IAQ conditions with reliable instruments; raising awareness among occupants about potential health effects of wildfire smoke exposure; using portable HEPA filtration devices when necessary; ensuring proper maintenance of HVAC systems; providing greater access to equipment such as respirators or masks when needed; consulting with local public health officials when necessary; and, offering support services for those affected by poor IAQ conditions caused by wildfire smoke.



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- [ASHRAE Planning Framework for Protecting Commercial Building Occupants from Smoke During Wildfire Events](#) – provides recommended heating, ventilating, and air conditioning (HVAC) and building measures to minimize occupants' exposures and health impacts from smoke during wildfire and prescribed burns.
- ASHRAE Residential Issue Brief, "[Wildfire Smoke Hazards for Dwelling Occupants](#)," 2021 – provides evidence-based information and guidance to protect residential building occupants from smoke exposure and to help designers create residential buildings and systems to limit smoke entry.
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Motion to Extend SMEs for GOEs Pilot Program

Motion: The GAC Recommends to Members Council that the SMEs for GOEs Pilot Program be extended by 3 years.

Background: At the 2023 Annual Meeting in Tampa, Members Council approved a new pilot program that identifies and recruits Subject Matter Experts within ASHRAE to communicate technical information effectively to government officials and policy makers. In Tampa, the GAC provided a framework for the program, and planned to develop details for the program during July-December 2023, and then implement the pilot in January 2024-June 2024, with SME transportation to three (3) meetings funded under this program. The fiscal impact was projected to be \$3,500.

GAC now has the details for the program, along with a website, and application on the website. GAC believes that it needs three (3) years to test out this pilot program and determine if it is worthwhile.

Fiscal Impact: \$3,500 per year (funds are already included in the SY24-25 budget)

Total Net Fiscal Impact: \$7,000 (because \$3,500 was approved for SY23-24, which was not spent)

Staff Impact: About 10 hours per month; total over 3 years: 360 hours.

TRACKING GOVERNMENT OUTREACH EVENTS SY 2023-2024

PROGRESS CHART:
Government
Outreach Events

*Note: Delta assumes that **ALL** planned and scheduled events are held (negative indicates that we are behind the goal).*

	Target	Held	Scheduled	Planned	Delta	Reporting Forms	Recurring Meetings	# of Government Attendees
City/Local		10	0	0	10	10	0	12
State		57	0	0	57	41	17	357
Federal		15	0	0	15	7	0	30
Global		47	0	0	47	35	0	144
In-Person								
Virtual		35						
Total	100	129	0	0	29	93	17	543

Note: Totals may not add up due to rounding

SY23-24 SUMMARY TOTALS (to date):	Number of Attendees (ASHRAE Members)	Number of Meetings	Number of in-person Meetings	Number of virtual meetings
Local	17	10	10	0
State	213	269	260	9
Federal	26	20	9	11
Global	119	50	35	15
TOTAL:	375	349	314	35

In Comparison

SY22-23 SUMMARY TOTALS:	Number of Attendees (ASHRAE Members)	Number of Meetings	Number of in-person Meetings	Number of virtual meetings
State	189	172	154	18
Federal	75	44	15	29
Local	10	10	9	1
Global	257	247	42	5
TOTAL:	531	273	220	53

Regional Comparisons note: 15 = RAL

Region (arabic numeral)	Region	# of GOEs Held In this Region
1	I	9
2	II	8
3	III	2
4	IV	15
5	V	2
6	VI	19
7	VII	12
8	VIII	16
9	IX	10
10	X	4
11	XI	5
12	XII	21
13	XIII	1
14	XIV	0
15	XV	5

SY 23-24 Year End Report on GASC MBOs and Action Items

The GAC Global Affairs Subcommittee was assigned a series of MBOs and action items that involved deep domain research and data aggregation. The global scope and scale of the questions posed to GASC, such as “where are ASHRAE standards adopted?”, categorically result in many of our MBOs being ongoing projects year over year. We have made initial progress on many of our MBOs, and intend to build on this initial work in Society Year 24-25 and beyond.

Action Item: *Provide a report on priorities for translation (language(s) and publications), working with the Planning Committee to ensure the priorities align with Society's strategic direction and consulting with the Global Technical Interaction Committee through its GAC liaison.*

Responses:

- Eleazar: prioritize translating the PPIBs into Spanish. These documents can be used to spread important statements from ASHRAE, but will be easier to translate than the longer Position Documents. GTIC is also working to survey the regions to learn what standards and guidelines are most useful to the nations in each region. We can use the information they aggregate to prioritize our translation work.
- Jacob: to answer this question we need information from ASHRAE's accounting department. We need to know what regions and nations are spending the most on both ASHRAE membership and ASHRAE publications, and then assume that prioritizing these regions and languages will have strong ROI based on proven extant interest.

MBO #5: *Build the foundation of a consistent global government engagement program by planning and identifying country- or region-specific events attended by government officials for the purpose of outreach and advocacy.*

Metrics:

- *Identify national and international conferences/events outside North America where ASHRAE can participate to further government engagement.*
- *Provide recommendations to MMSC on how best to increase the number of GOEs outside North America and increase number of ASHRAE members participating.*

Responses:

GASC identified the following conferences that reoccur regularly, where ASHRAE could benefit from sustained engagement:

- Frio-Calor Expo in Chile
- AHR Expo in Mexico
- Asia Pacific Conference on Built Environment. This is held every 2 years among 10 Chapters in Far East countries. The 2025 Conference will be held in Singapore.
- CIAR Conference in Mexico
- Asia Pacific Conference on Built Environment (APCBE) in Singapore.

GASC members made the following recommendations on how to increase the number of GOEs outside North America and how to increase the number of ASHRAE members participating:

- Due to ASHRAE's yearly leadership change, priorities and strategy can change often as well. Establishing a standing roadmap outlining our goals, objectives, and metrics for global GOEs as to allow volunteers to understand the high-level plan of ASHRAE would be beneficial.
- Enhanced communication with countries outside of North America. Many chapters appreciate ASHRAE's leadership when accompanying them on GOEs.
 - More chapter visits by RVCs
- More announcements and PR around ASHRAE's standards and technical material, translated into relevant languages.
- Highlight global GOEs in ASHRAE publications to inspire ASHRAE members and to raise awareness of GOEs.
- RVCs should deliver more trainings on what GOEs are, how to conduct them, and how to report them.

Outcome/Recommendation:

This MBO should be maintained as an ongoing effort in the next Society Year.

MBO #7: *Work with Global Technical Interaction Committee (GTIC) to facilitate sharing of information to avoid duplication of efforts, including through improved understanding of market needs and the tracking and adoption of ASHRAE standards and guidelines around the world.*

Metrics:

- *Nominate a liaison from GASC to GTIC and send recommendation to GAC Chair at earliest possible opportunity.*
- *Each member of GASC to provide a list of ASHRAE standards that have been adopted by various jurisdictions in their regions.*
- *Identify opportunities for ASHRAE Standards adoption, including through scheduling meetings, sharing information about standards, and/or writing advocacy letters for standards adoption.*

Responses:

GASC identified the following ASHRAE standards that have been adopted in the following jurisdictions:

- Greece: No ASHRAE standards are adopted, but several are referenced. Standards 55 and 62.1 are referenced on national code for energy performance of buildings. Green buildings require LEED, which in turn requires reference to 90.1 and 52.1.
- Romania: uses CEN standards.
- Chile: uses 62.1 and 62.2, 170, 188, and a handbook.
- Costa Rica: uses 62.1.
- CARICOM: uses 62.1 and 90.1.
- Brazil: Brazilian Committee #55 produces Brazilian Standards for the HVAC market. ABNT has an agreement with ASHRAE to translate standards.
- Argentina: no ASHRAE standards used.
- Region 13: extremely high quality research and analysis was conducted by Albert Sin covering Singapore, Hong Kong, Malaysia, Taiwan, Philippines, Thailand, South Korea, and Macao. This data is attached in an enclosure.

Outcome/Recommendation:

GASC members facilitated, led, or trained the participants of many of the 44 global GOEs that took place this Society Year, as of 6/5/24.

GASC established a liaison to the GTIC.

This MBO should be maintained as an ongoing effort in the next Society Year. Researching and compiling data on ASHRAE standard adoption globally is an effort that will take years to complete. GASC should work with GTIC and the associate society alliance to accomplish this

goal. GASC should have a liaison to GTIC at all times and should consider establishing a formal liaison to the associate society alliance.

GTIC is working on a parallel project to analyze global use of ASHRAE standards.

Jacob to begin attending monthly GTIC meetings when relevant.

MBO #10: *Provide recommendations to the full committee on how best to increase the global scope of Government Affairs Committee work and increase participation of members outside North America in committee activities.*

Metrics:

- *Review current and historical GAC rosters to determine the usual number of committee members outside North America.*
- *Review and compare GOE participation to determine how chapters outside North America compare to chapters in U.S./Canada.*
- *Provide list of challenges that may impede volunteers outside North America from participation on GAC, and recommendations on how to solve these possible challenges.*

Responses regarding challenges that impede volunteers outside North America, and proposed solutions:

- Language barriers are a challenge to participation on the GAC. Assigning an assistant RVC who speaks the language of the countries in the region if the primary RVC does not may be a solution.
- DRC involvement, or lack thereof, is a big part of helping the RVC be aware of things happening the region.
- The \$2000 travel allowance is not always adequate for travel in some regions.
- The economic disparity between nations and regions makes it difficult for some members to get involved with ASHRAE if they are outside of North America.
- More incentives for participation, such as free training or the opportunity to earn certificates, may help.
- ASHRAE should do more to highlight our standards and guidelines; the sharing and advertisement of pertinent information will attract more participation.
- Time zone differences present a challenge.
- ASHRAE staff are less knowledgeable and therefore less helpful about engaging in non-North American politics.
- The US political system puts great emphasis on public discourse, public contribution and "listening to your constituents." This is not the case in many other political systems, even in other democratic ones. This limits our access.

- MOUs with peer organizations are very helpful to us for gaining access.

Outcome/Recommendation:

This MBO should be maintained as an ongoing effort in the next Society Year.

The conclusions reached in the review of current and historical GAC rosters and GOE participation completed by ASHRAE staff are enclosed.

Conclusions Reached from Review of Historic GAC and GOE Participation by Region:

- North American ASHRAE members, defined as being from USA/Canada/Mexico account for the vast majority of GASC members and GAC members.
- Low GASC/GAC membership from ASHRAE members in Africa.
 - Membership is only from Egypt, no representation from Eastern, Middle, Southern, or Western Africa.
- Low GASC/GAC membership from ASHRAE members in the Middle East, the entirety of Asia, and the entirety of Europe.
- Half of reported global GOEs from SY 22-23 took place in Canada.
- Half of reported global GOEs from SY 22-23 took place in regions XII, XIII, and RAL.
- Zero reported global GOEs from SY 22-23 in region XIV.
- Zero reported global GOEs from SY 22-23 in Europe/Asia/Africa.
 - We know that GOEs took place that *were not reported*.
- NO GAC members who are from areas outside of North America who were not GASC members, except for: Eduardo Conghos who was a consultant to GAC in 21-22, Farooq Mehboob who was the coordinating officer in 20-21, and Walid Chakroom who was the GAC chair in 19-20.

ENCLOSURE: Research on Standards Adoption in Region 13 and template for future reporting of similar information



ASHRAE Standards
Referenced in Natio



GASC Reporting
Template For Internat

Motion (Revisions to the GAC Resource Manual): That the Government Affairs Committee revise the GAC Resource Manual as shown in the attachment to clarify and improve the rules regarding submitting plans to utilize financial assistance for international outreach events.

BACKGROUND:

A \$2000 USD travel stipend is made available to RVCs who have chapters outside the United States of America to facilitate Government Outreach Events in their region. This money is not for RVCs to use for their own travel, it is intended for other ASHRAE members who volunteer to travel in order to conduct GOEs. Currently, to access this money RVCs are supposed to submit a budget plan to their DRC by November 30th of the SY and then once approved by the DRC, submit it to Government Affairs staff. There is not currently a formal process in place for how to file a late budget request if the need arises. There is great interest in using this money, but the number of plans filed in recent years does not reflect this interest. Few plans are filed each year, showing the need for revisions to the system and for better communication about how this money can be accessed and used. The suggested changes to the Resource Manual would make it clear that even if no budget plan has been submitted, if the need to use this money arises, RVCs are still able to access it through a codified process.

FISCAL IMPACT: NONE.

STAFF IMPACT: NONE (staff time spent on revisions has already been expended.)

S: GOVERNMENT OUTREACH EVENT REPORTING FORM

A Government Outreach Reporting Form should be submitted for every event or meeting ASHRAE members hold with government officials. Contact your RVC or Government Affairs staff for questions or assistance with the form. The Reporting Form is in the Advocacy Toolkit on the ASHRAE website (a member login will be needed for access). A link to the Reporting Form can be found here: <https://www.ashrae.org/about/government-affairs/grassroots-advocacy/accomplishments#plan>. A document defining which events qualify as Government Outreach Events can also be found on this page.

T. FINANCIAL ASSISTANCE FOR INTERNATIONAL OUTREACH EVENTS

In past years, funding has been made available to each RVC with chapters outside the U.S. for reimbursing eligible transportation expenses for members of their region participating in Government Outreach Event activities. If ASHRAE Society includes this funding in the Society Budget, the following procedure should be used by RVCs in order to access these funds:

1. A budget shall be developed by the RVC detailing the use and purpose of expenditures (see Attachment C for an example budget).
2. Eligible expenditures shall only include transportation expenses.
3. The RVC's budget must be approved in writing by that RVC's Director and Regional Chair (DRC), and said written approval from the DRC shall be submitted to the Finance Committee through the GAC staff liaison.
- 3.4. It is recommended that the budget plans be completed within the first quarter of the Society Year and submitted to the GAC Staff Liaison, along with written approval from the relevant DRC. Having a finalized budget plan by November 30th of the Society Year is recommended.
- ~~4. The budget plan must be completed within the first quarter of the Society Year and submitted to the GAC Staff Liaison, along with the written approval from the relevant DRC, no later than November 30 of the Society Year.~~

**ASHRAE Government Affairs Committee
2024 Annual Meeting**

Regional Vice Chair Reports

**For Presentation at the 2024 June 21st
Government Affairs Committee Meeting**

E: STANDARDIZED RVC/ REPORTING FORMAT

The following information is compiled into a summary spreadsheet showing activity for each region. The spreadsheet is reviewed by GAC at each Society meeting.

RVC Report for Region 1

ACTIVITY
CRC
Total number of chapters in region 15
Number of chapters present 9
Number of GA chapter chairs present 6
Percentage of participation 60
Percentage of GA chapter chair participation
No. of planning sessions held 0
PAOE
No. of Chapters Reporting PAOE Points: 12
No. of Chapters Making Society Minimum : 7
No. of Chapters Making Society PAR : 5
Highest PAOE Points by a Chapter: 2450
Percentage of chapters reporting 80
Percentage of chapters making Society Minimum 47%
Percentage of chapters making Society PAR 33%
CHAPTER VISITS
No. of visits made: 4
No. of visits scheduled: 4
Percentage of chapters visited: 27%
GAC AWARDS
Government. Affairs Award
Government Outreach Days
No. of Chapters Participating 4
No. of government officials visited 24+
No. of ASHRAE members participating 6
No. of Chapters reporting 6
No. of days duration ?



2024 Summer Conference

GAC RVC Report

William Fisher



Member States

- Connecticut
- Massachusetts
- Maine
- New Hampshire
- New Jersey
- New York
- Rhode Island
- Vermont



Strategic Objectives

Regional Goals

- **Expand ASHRAE's Presence:** Organize outreach events and networking opportunities to enhance ASHRAE's awareness among city and state officials throughout the region.
- **Strengthen Relationships:** Foster and expand relationships with city and state entities and officials across the region.
- **Inform Members:** Keep ASHRAE members informed about significant legislation, code updates, and standards changes.
- **Promote the ASHRAE Brand:** Actively promote the ASHRAE brand to city and state entities and members across the region to maximize visibility and influence.

Primary RVC Goals

- Establish a quarterly GAC call open to all Region 1 committee members
- Arrange the promotion of ASHRAE Certificates in all chapter newsletters
- Continue to support New England Chapters
- Expand my involvement in NJ and NY chapters
- Attend quarterly meetings with NYSERDA & NY State



Regional Legislative Updates

Connecticut

- Adopted IECC 2021 – September 2022

Maine

- Adopted IECC 2021 – January 2023

Massachusetts

- Updated Stretch Code to include IECC 2021
- City of Boston: Building Emissions Reduction & Disclosure Ordinance (BERDO 2.0) Policies & Procedures Formally Adopted December 2022

New Hampshire

- Updated Base Energy Code to IECC 2018

New Jersey

- Adopted IECC 2021 – September 2022

Rhode Island

- Adopted IECC 2021 – March 2023

Vermont

- Adopted IECC 2021 – November 2022



Regional Challenges

➤ Committee and Leadership Challenges

- Lack of committee members to support the chair.
- Developing a committee to support the chair is essential to prevent dependence on a single individual.
- Very few GAC Chairs have GAC experience.
- Few chapters have long-standing relationships with policy-makers.
- Varying degrees of government relationships across the region.

➤ Fast-Changing Technological and Political Landscape

- Refrigerant transitions
- Decarbonization
- IAQ focus for schools

RVC Lessons Learned

➤ Enhance Communication Among Chapter Chairs

- Frequent communication allows for regional alignment and shared guidance.
- This facilitates continuity if a chair leaves, as knowledge is shared.

➤ Improve Follow-Up

- Better focus on consistent follow-up, not just immediately after meetings.

➤ Collaborate more with Jacob

- Work more closely on policy/legislation commenting, bill tracking, and testimonies.





Regional PAOE Summary

Chapter	Chapter Name	Government Affairs: Minimum 500; PAR 1000
1	BOSTON	2450
3	RHODE ISLAND	350
4	CONNECTICUT	1450
6	LONG ISLAND	1950
7	NEW JERSEY	150
8	NEW YORK	100
9	NORTHEAST	50
10	CENTRAL NEW YORK	0
11	ROCHESTER	450
12	NIAGARA FRONTIER	0
111	CHAMPLAIN VALLEY	500
118	MAINE	1400
129	TWIN TIERS	1300
146	BI-STATE	0
152	GRANITE STATE	500



E: STANDARDIZED RVC/ REPORTING FORMAT

The following information is compiled into a summary spreadsheet showing activity for each region. The spreadsheet is reviewed by GAC at each Society meeting.

RVC Report for Region II – Michael Genin

ACTIVITY	As of June 6, 2024
CRC	
Total number of chapters in region	9
Number of chapters present	6
Number of GA chapter chairs present	6
Percentage of participation	66%
Percentage of GA chapter chair participation	66%
No. of planning sessions held	4
PAOE	
No. of Chapters Reporting PAOE Points:	9
No. of Chapters Making Society Minimum :	7
No. of Chapters Making Society PAR :	6
Highest PAOE Points by a Chapter:	2050 (Hamilton Chapter)
Percentage of chapters reporting	100%
Percentage of chapters making Society Minimum	78%
Percentage of chapters making Society PAR	67%
CHAPTER VISITS	
No. of visits made:	3 for this SY
No. of visits scheduled:	0
Percentage of chapters visited:	22%
GAC AWARDS	
Government. Affairs Award	No nominations for SY 23-24.
Government Outreach Days	
No. of Chapters Participating	3 – Ottawa, Montreal, Toronto
No. of government officials visited	13
No. of ASHRAE members participating	5
No. of Chapters reporting	3
No. of days duration	3



Region II GA Update

Mike Genin – Region II RVC (SY '21-'24)

Global Affairs & Member Mobilization Sub-Committees

Indianapolis June 2024



Chapter Status

Chapter	CRC	Planning	RVC Visit	PAOE (Par = 1000)	Meetings Held
Windsor	Y			850	
London	Y			150	
Hamilton	Y	Y	Y	2050	3
Toronto		Y	Y	300	2
Ottawa	Y		Y	1150	1
Montreal	Y			1350	1
Quebec				1550	
Halifax		Y		1350	
NB / PEI	Y	Y		1250	1

- CRC featured GAC training and Decarb Task Force update.



Accomplishments

- Many chapters encouraged to cross promote EE day, national eng. week, refrigeration day.
- Newly French translation of Decarb task force presentation
- Administrative
 - Completed goal-setting meetings with chapters
 - Most chapters submitting initial year plan
 - Monthly RVC email update with action items
- Regional Government Affairs Award –
 - presented at next CRC
 - Motion was passed at last CRC to implement formal award



Chapters / Meetings

- Day on the Hill event – May 2024
 - ASHRAE Members along side HRAI met with 13 gov officials over 3 days
- Toronto – infrastructure Ontario meetings
- Quebec & Montreal joint meeting with 6 officials at Hydro Quebec
 - Newly French Translated Decarb presentation!
- Halifax – September/ GAC themed dinner meeting/ code updates
- Hamilton – November / GAC dinner meeting on decarb
 - 3x meetings secured with MPs!



E: STANDARDIZED RVC/ REPORTING FORMAT

The following information is compiled into a summary spreadsheet showing activity for each region. The spreadsheet is reviewed by GAC at each Society meeting.

RVC Report for Region 3 – Summer Meeting 2023

ACTIVITY
CRC
Total number of chapters in region: 11
Number of chapters present: N/A (couldn't make it and no data present)
Number of GA chapter chairs present: -
Percentage of participation: -
Percentage of GA chapter chair participation: -
No. of planning sessions held: 3
PAOE
No. of Chapters Reporting PAOE Points: 6
No. of Chapters Making Society Minimum : 3 (up from last year)
No. of Chapters Making Society PAR : 1 (down from last year)
Highest PAOE Points by a Chapter: 1350 (Baltimore)
Percentage of chapters reporting: 55%
Percentage of chapters making Society Minimum: 28%
Percentage of chapters making Society PAR: 9%
CHAPTER VISITS
No. of visits made: 0
No. of visits scheduled: 0
Percentage of chapters visited: 0
GAC AWARDS
Government. Affairs Award – Will be presenting my award at CRC to Baltimore.
Government Outreach Days – 1
No. of Chapters Participating: 1 (Central PA)
No. of government officials visited: 8
No. of ASHRAE members participating: 8
No. of Chapters reporting: 1
No. of days duration: 1



ASHRAE Region 3

Summer Meeting Government Affairs Report

RJ Hartman

GA - Chapter Breakdown

Chapter	PAOE	Min or Par?	Highlight
PHILADELPHIA	0	-	
CENTRAL PENNSYLVANIA	1000	MIN	
JOHNSTOWN	0	-	
PITTSBURGH	0	-	
BALTIMORE	1350	PAR	Testimony at MD senate (Bill 258) and House (Bill 130).
NATIONAL CAPITAL	450	-	
HAMPTON ROADS	0	-	
LEHIGH VALLEY	1050	MIN	
ROANOKE	0	-	
ANTHRACITE	650	MIN	
RICHMOND	50	-	

Note: PAOE is as of 6/10/2024. Some RVC points still available to be input.

Regional Struggles was the highlight this year.

Similar struggles with hearing back from chapter chairs.

Dealt with some personal matters throughout the year that put ASHRAE RVC on the backburner.

Goals and Objectives

Goals/Objectives Review from 2023-2024 (same goals as previous years)

- Continue with being frequent with my communication to my GACs. Gentle reminders are always nice to have.
 - Not great communication from me, struggling to hear back from GACs didn't help things.
- Hold another Day On The Hill event in my region, potentially 2 if the Central PA folks do theirs again. (No excuse for us Virginians to get schooled by PA!)
 - Didn't get this one accomplished, again. Similar struggle of personal matters and lack of committee/interested GACs.
- Personally, I would like to get back in front of some of the VA state government and my local county/school board.
 - Think there was 1 GOE I attended back in the fall that ASHRAE staff set up.
 - Wasn't able to get in front of the local school board, or city council.

Overall just felt disconnected and burnt out from personal life to really get at it this year. Optimistic to come back recharged and available again in a few years.

E: STANDARDIZED RVC/ REPORTING FORMAT

The following information is compiled into a summary spreadsheet showing activity for each region. The spreadsheet is reviewed by GAC at each Society meeting.

RVC Report for Region 4

ACTIVITY	
CRC	
Total number of chapters in region	7
Number of chapters present	4
Number of GA chapter chairs present	4
Percentage of participation	57%
Percentage of GA chapter chair participation	57%
No. of planning sessions held	6
PAOE	
No. of Chapters Reporting PAOE Points:	7
No. of Chapters Making Society Minimum:	6
No. of Chapters Making Society PAR:	3
Highest PAOE Points by a Chapter:	3850
Percentage of chapters reporting:	100%
Percentage of chapters making Society Minimum	85%
Percentage of chapters making Society PAR	43%
CHAPTER VISITS	
No. of visits made:	2
No. of visits scheduled:	2
Percentage of chapters visited:	29%
GAC AWARDS	
Government. Affairs Award	0
Government Outreach Days	
No. of Chapters Participating	3
No. of government officials visited	15
No. of ASHRAE members participating	9
No. of Chapters reporting	3
No. of days duration	1



ASHRAE
2024 Annual Conference
Indianapolis, Indiana
June 21st, 2024

Government Affairs Update

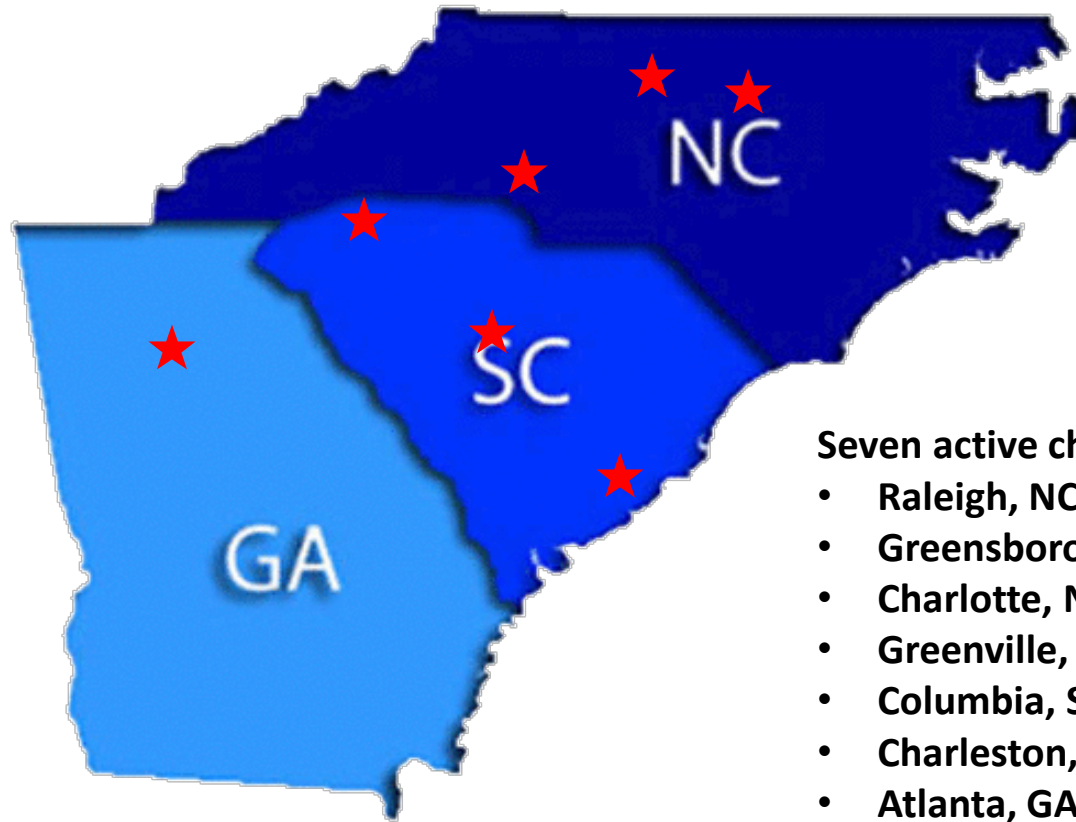


GAC:
Region IV Report

Weston Hockaday, GAC RVC



Region IV Overview



Seven active chapters:

- Raleigh, NC (Triangle)
- Greensboro, NC (North Piedmont)
- Charlotte, NC (Southern Piedmont)
- Greenville, SC
- Columbia, SC
- Charleston, SC
- Atlanta, GA

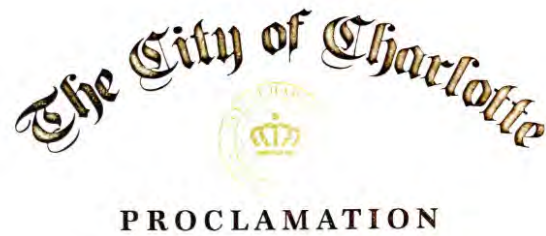
Our Team

ASHRAE
REGION IV 2023-2024 GAC CRC TEAM
GAC ROSTER

UPDATED 1/03/24			
NAME	CHAPTER/POSITION	PHONE	EMAIL
Billy Austin	South Piedmont / GAC Chair	704.618.1959	baustin@shultzeg.com
Pete Conroy	Charleston / GAC Chair	843.818.8062	petec@jmpco.com
Steve Crescenzo	Triangle / GAC Chair	919.771.8149	screscenzo@dewberry.com
Weston Hockaday	Triangle / GAC RVC	919.524.3668	whockaday@dewberry.com
Brian Berg	South Carolina GAC Chair	704-677-9635	Bryan@hahnmason.com
Sam Harvey	Atlanta / GAC Chair	470-210-6302	sharvey@mingledorffs.com
Matthew Morganti	North Piedmont / GAC Chair	336-316-8000	matthew.morganti@heattransfersales.com
Tyler Thomas	North Piedmont / GAC Chair	336-398-2634	tyler.thomas@heattransfersales.com
Jim Ridenhour	Greenville / GAC Chair	864-268-1803 (text) 864-434-1416	jfridenhour@yahoo.com

Special Mention Activities

- Charlotte Mayor – National Engineers Week Proclamation



WHEREAS, ASHRAE (The American Society of Heating, Refrigerating, and Air Conditioning Engineers) (www.ashrae.org) is an international engineering society whose mission is "To serve humanity by advancing the arts and sciences of heating, ventilation, air conditioning, refrigeration and their allied fields"; and

WHEREAS, ASHRAE's vision is "A healthy and sustainable built environment for all;" and

WHEREAS, on Wednesday, February 21, 2024, the local Charlotte Chapter of ASHRAE (called the Southern Piedmont Chapter), represented by Chapter President Erica Powell, will make an official local announcement at its monthly chapter meeting; and

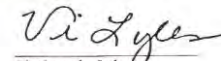
WHEREAS, every February, engineers around the world celebrate National Engineers Week; National Engineers Week was founded by the National Society of Professional Engineers in 1951 and is dedicated to ensuring a diverse and well-educated future engineering workforce by increasing understanding of and interest in engineering and technology careers;

NOW, THEREFORE, I, Vi Alexander Lyles, Mayor of Charlotte, do hereby proclaim the week of February 18 -24, 2024 as

"NATIONAL ENGINEERS WEEK"

in Charlotte and commend its observance to all citizens.

WITNESS MY HAND and the official Seal of the City of Charlotte.


Vi Alexander Lyles
Mayor



Special Mention Activities – 2024 NC Day on the Hill

North Carolina Day on the Hill – 5/22/24 – 15 meetings – Thanks Jacob!





2024 NC Day on the Hill



Special Mention Activities

- Triangle and Southern Piedmont Chapter Visits

ETHICS AND RULES OF PROFESSIONAL CONDUCT



January 10, 2024
5:30 PM to 8:00 PM
[Add to Calendar](#)

Royal Banquet & Conference Center
3801 Hillsborough St
Raleigh, NC 27607
<http://www.theroyalbanquet.com>
[Directions](#)

Note: This presentation will satisfy the Ethics/Rules of Professional Conduct PDH re licensed in North Carolina as per 21 NCAC 56 .1703 for the 2025 license renewal.

SPEAKERS BIO:



David joined the staff of the North Carolina Board of Examiners for Engineers and Surveyors (NCBELS) in 1998. As the Board's Assistant Executive Director he supervises investigations of engineers, surveyors and corporations as well as non-licensed practice. David also oversees business licensure and compliance; continuing professional competency; license applications and renewals; and the Board's regular program of enforcement and education.



TOPIC:

Driving Hospitals Towards Net Zero
Reducing Greenhouse Gas Emissions and Increasing Climate Resilience



By: David N. Schurk
ASHRAE Distinguished Lecturer

When 06 Jun 2024
11:30 AM - 1:00 PM
Location Lenny Boy Brewing - 3000 S.
Tryon Street, Charlotte, NC,
28217



CRC and PAOE Status

PAOE Point Summary			
As of 6/7/24			
Chapter	Attended CRC	MBO Goals Meeting	PAOE Points Reported (min=500; par 1250)
Atlanta	No	Yes	2300
Charleston	No	Yes	850
Greenville	Yes	No	600
North Piedmont	Yes	Yes	850
Southern Piedmont	Yes	Yes	3850
South Carolina	No	Yes	100
Triangle	Yes	Yes	2650



2025 Outlook

Opportunities

- **Improving Meaningful Government Outreach Events – in all 3 states**
 - **Focus on SC for upcoming year**
- **Continue to Develop Local Level Contacts:** City, County, and Schools. – Atlanta much improved this year.
- **Increase Chapter Level Engagement with GAC Theme Meetings & GAC RVC Chapter Visits**
- **Communication to members for planned events**



End of Report



E: STANDARDIZED RVC/ REPORTING FORMAT

The following information is compiled into a summary spreadsheet showing activity for each region. The spreadsheet is reviewed by GAC at each Society meeting.

RVC Report for Region V

ACTIVITY
CRC
Total number of chapters in region: 12
Number of chapters present: 3
Number of GA chapter chairs present: 3
Percentage of participation: 25%
Percentage of GA chapter chair participation: 25%
No. of planning sessions held: Unknown
PAOE
No. of Chapters Reporting PAOE Points: 5
No. of Chapters Making Society Minimum: 4
No. of Chapters Making Society PAR : 2
Highest PAOE Points by a Chapter: 1250
Percentage of chapters reporting: 42%
Percentage of chapters making Society Minimum: 33%
Percentage of chapters making Society PAR: 17%
CHAPTER VISITS
No. of visits made: Unknown
No. of visits scheduled: Unknown
Percentage of chapters visited: Unknown
GAC AWARDS
Government. Affairs Award: None
Government Outreach Days
No. of Chapters Participating: 3
No. of government officials visited: 16
No. of ASHRAE members participating: Unknown
No. of Chapters reporting: 3
No. of days duration: 1

E: STANDARDIZED RVC/ REPORTING FORMAT

The following information is compiled into a summary spreadsheet showing activity for each region. The spreadsheet is reviewed by GAC at each Society meeting.

RVC Report for Region 6

ACTIVITY
CRC
Total number of chapters in region: 11
Number of chapters present: 8 (hybrid option for GAC training)
Number of GA chapter chairs present: 8 (hybrid option for GAC training)
Percentage of participation: 72%
Percentage of GA chapter chair participation: 72%
No. of planning sessions held: 9
PAOE
No. of Chapters Reporting PAOE Points: 10
No. of Chapters Making Society Minimum :
No. of Chapters Making Society PAR : 6
Highest PAOE Points by a Chapter: 2530
Percentage of chapters reporting: 72%
Percentage of chapters making Society Minimum: 55%
Percentage of chapters making Society PAR
CHAPTER VISITS
No. of visits made: 1
No. of visits scheduled: 1
Percentage of chapters visited: 1
GAC AWARDS
Government. Affairs Award: 1 submitted
Government Outreach Days
No. of Chapters Participating: 3
No. of government officials visited: 20+
No. of ASHRAE members participating: 4
No. of Chapters reporting: 3
No. of days duration: 1



Government Affairs Region VI

2023-2024 ASHRAE
Annual Conference Update

Region VI 2023-24 To-Date



RVC - Beth Tomlinson
Chapter, ASHRAE MN

Stantec
Carbon and Climate Discipline Leader



Region VI 2023-24 To-Date

MN –

WI

Wisconsin Milwaukee – Victor Nino

Madison – Jason Boatman

La Cross Area – Kay Hatlestad

Chris Hsieh (RIP)

Northeast Wisconsin – Eric Erdman

IL

Central Illinois – Liz Blankenship

Illinois – Cory Abramowicz

MO

St. Louis – Dan Mareschal

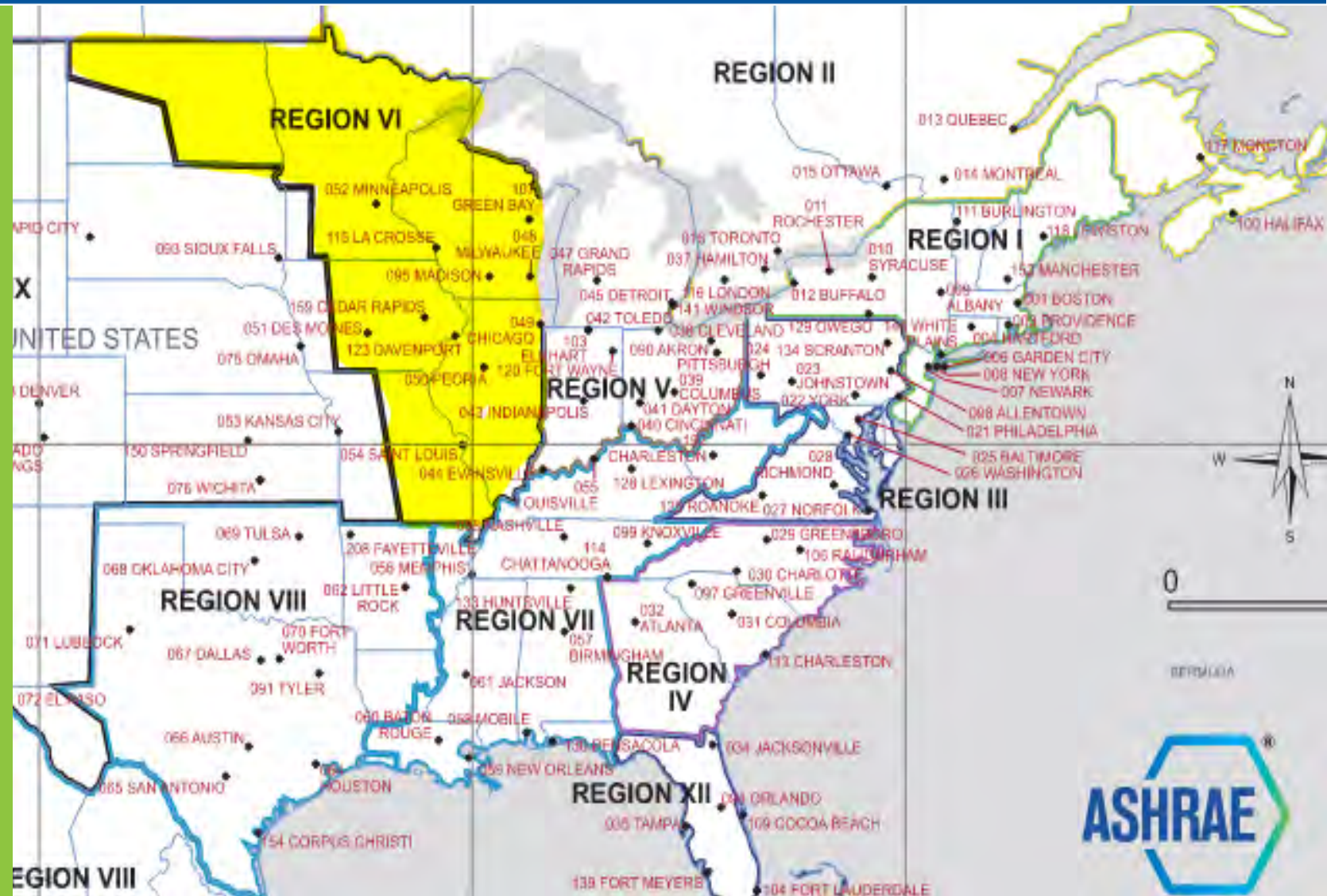
IA

Iowa – Matt Jesson

Cedar Valley – Ryan Collins

IA/IL

Mississippi Valley – Allen Poppe



Region VI 2023-24 To-Date

Goals

- Improve understanding of GAC in regional membership.
- Expand GAC relationships within local code bodies.
- Maintain ASHRAE's position as trusted advisor on decarbonization, climate action plans and indoor air quality.



Region VI 2023-24 To-Date

- Regional Updates

Wisconsin Members Testify at Hearing in Support of ASHRAE 90.1-2019 Adoption



ASHRAE members Mick Schwedler, Heather Kozlowski, Chris Hsieh, and Victor Nino (left to right) testifying at the public hearing

Sept 2023

ASHRAE Government Outreach Day in Wisconsin



Jason Boatman, Eric Erdman, Victor Nino, Heather Kozlowski, and Jon Douglas in the Capitol Rotunda

March 7, 2024



Region VI 2023-24 To-Date

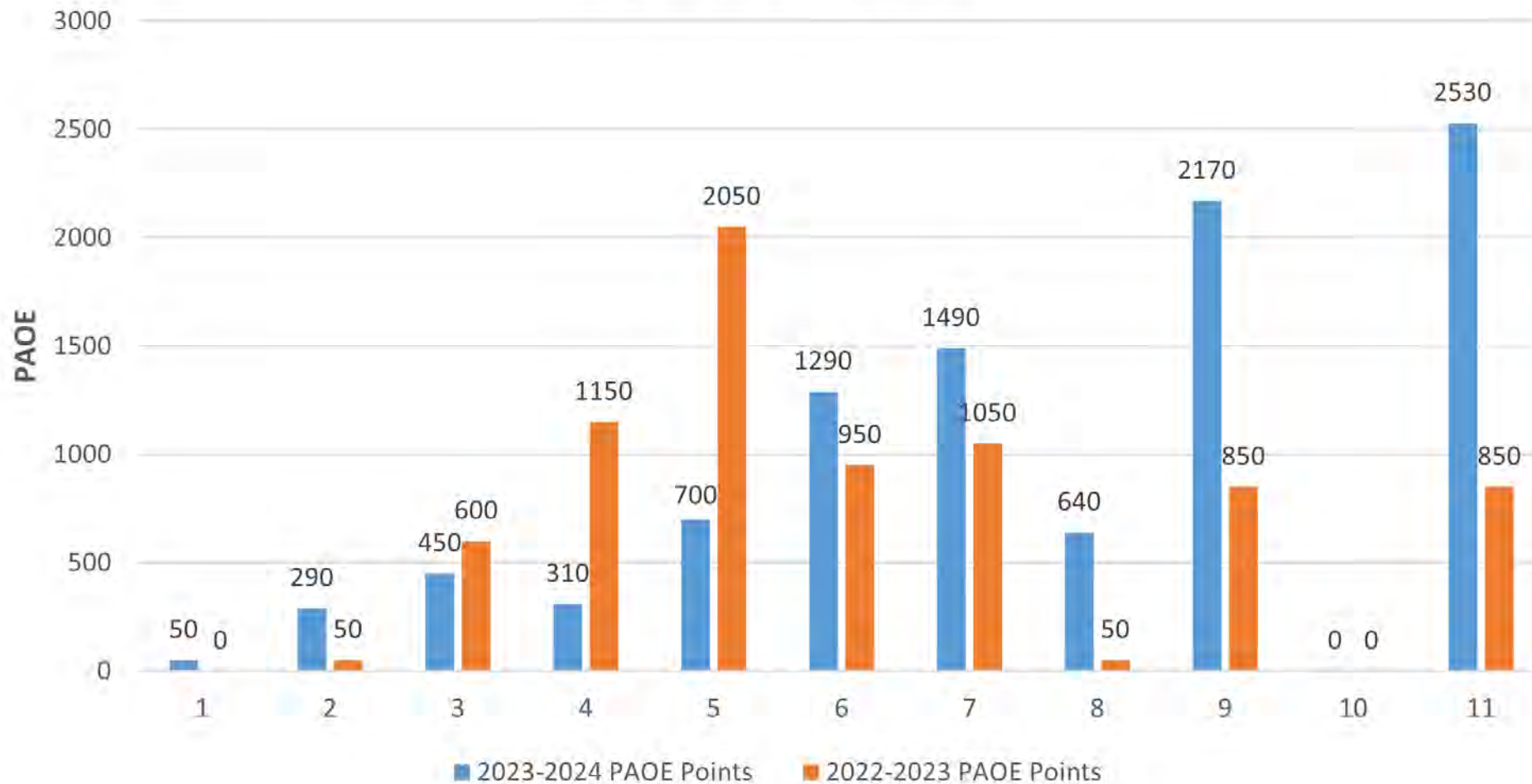
- 3** Chapter activity featured in the ASHRAE GAC bi-weekly newsletter
- 1** Testimony (all WI chapters) to Wisconsin Department of Safety and Professional Services (DPS) regarding new Wisconsin Commercial Building Code draft.
- 1** Day on the Hill (WI)
- 4** Chapters in Wisconsin collaborating and coordinating activities!
- 4** Chapters assisting with local climate action committees, code reviews, decarbonization or energy efficiency.

- MN, Minneapolis Clean Energy Partnership/Energy Vision Advisory Committee Co-Chair, MN Buy Clean Embodied Carbon Taskforce, MN Building Performance Standard working group
- WI-Milwaukee, WI- Advisory Council on Bldg Sustainability, Clean Wisconsin & Benchmarking Ordinance
- WI-La Cross, Healthy Schools Campaign & La Cross City Climate Action Plan
- IA-Des Moines, Climate Action and Adaptation Plan



Region VI 2022-23 To-Date

PAOE Points - Region VI



Region VI 2022-23 To-Date

Region VI Chapter	GAC Chair	Government Outreach Activities					PAOE	
		Local	State	Federal	Global	Total	2023-2024	2022-2023
<u>CEDAR VALLEY</u>	Ryan Collins	0	0	0	0	0	50	0
<u>CENTRAL ILLINOIS</u>	Elizabeth Blankenship	0	0	0	0	0	290	50
<u>ILLINOIS</u>	Cory Abramowicz					0	450	600
<u>IOWA</u>	Matt Jesson					0	310	1150
<u>LA CROSSE AREA</u>	-		1			1	700	2050
<u>MADISON</u>	Jason Boatman		1	1		2	1290	950
<u>MINNESOTA</u>	Brian Freeman		4	2	3	9	1490	1050
<u>MISSISSIPPI VALLEY</u>	Allen Poppe	1				1	640	50
<u>NORTHEAST WISCONSIN</u>	Eric Erdman		1			1	2170	850
<u>ST LOUIS</u>	Dan Mareschal					0	-	0
<u>WISCONSIN - Milwaukee</u>	Victor Nino		5	2		7	2530	850
		1	12	5	3	21	Actual	
		15	16	6	1	36	Estimated Goal	



2023-24 RVC Report for Region VII

RVC: Douglas Cage, PE
11-Jun-2024

ACTIVITY	2023-24	2022-23	Questions/Notes
CRC	(July 2023)	(July 2022)	
Total number of chapters in region	14	14	
Number of chapters present	13	14	
Number of GA chapter chairs present	7	4	or their representatives (post rule-change)?
Percentage of participation	93%	100%	
Percentage of GA chapter chair participation	50%	29%	
No. of planning sessions held	5	7	bluegrass, memphis, nashville, louisville, wv
PAOE			
No. of Chapters Reporting PAOE Points:	10	14	data as of 11Jun2024
No. of Chapters Making Society Minimum:	5	6	
No. of Chapters Making Society PAR:	4	3	
Highest PAOE Points by a Chapter:	2850	1500	
Percentage of chapters reporting	71%	100%	
Percentage of chapters making Society Minimum	36%	43%	
Percentage of chapters making Society PAR	29%	21%	
CHAPTER VISITS			
No. of visits made:	12	13	based on all RVC visits (not just GA)
No. of visits scheduled:	14	14	
Percentage of chapters visited:	86%	93%	
GAC AWARDS			
Government. Affairs Award	0	0	
Government Outreach Days			
No. of Chapters Participating	2	?	data as of 11Jun2024
No. of government officials visited	16	?	
No. of ASHRAE members participating	10	?	
No. of Chapters reporting	2	?	
No. of days duration	12	?	

E: STANDARDIZED RVC/ REPORTING FORMAT

The following information is compiled into a summary spreadsheet showing activity for each region. The spreadsheet is reviewed by GAC at each Society meeting.

RVC Report for Region 8

ACTIVITY	Region VIII – GAC Report June 2024
CRC	
Total number of chapters in region	15
Number of chapters present	13
Number of GA chapter chairs present	6
Percentage of participation	86
Percentage of GA chapter chair participation	50
No. of planning sessions held	8
PAOE	
No. of Chapters Reporting PAOE Points:	12
No. of Chapters Making Society Minimum :	7
No. of Chapters Making Society PAR :	7
Highest PAOE Points by a Chapter:	2950
Percentage of chapters reporting	80
Percentage of chapters making Society Minimum	50
Percentage of chapters making Society PAR	50
CHAPTER VISITS	
No. of visits made:	2
No. of visits scheduled:	2
Percentage of chapters visited:	20
GAC AWARDS	
Government. Affairs Award	0
Government Outreach Days	
No. of Chapters Participating	6
No. of government officials visited	16
No. of ASHRAE members participating	14
No. of Chapters reporting	6
No. of days duration	12



Region VIII

GOVERNMENT AFFAIRS REPORT
JAN 2024 – JUN 2024

ELEAZAR RIVERA MATA



**IF YOU DO NOT TAKE AN
INTEREST IN THE AFFAIRS OF
YOUR GOVERNMENT, THEN
YOU ARE DOOMED TO LIVE
UNDER THE RULE OF FOOLS.**

PLATO





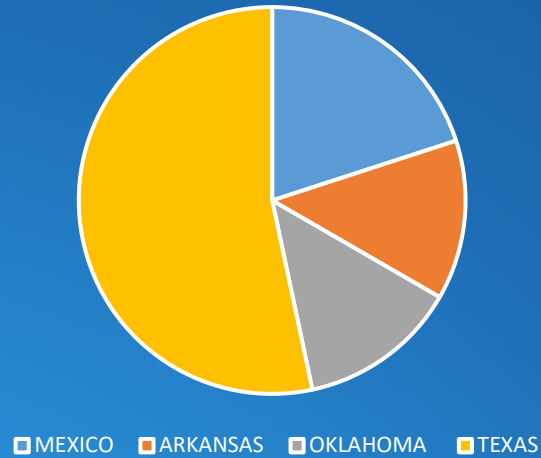
- **15 Chapters: 2 from Arkansas, 2 from Oklahoma, 3 from Mexico and 8 from Texas**
- **Bi-National Region (US-Mex) : two languages and different regulations**

REGION 8 PAOE BY JAN 2023

Chapter Name	Government Affairs: Minimum 500; PAR 1000
ARKANSAS	150
HOUSTON	1800
ALAMO	0
AUSTIN	200
DALLAS	1100
CENTRAL OKLAHOMA	2480
NORTHEASTERN OKLAHOMA	2900
FORT WORTH	100
WEST TEXAS	0
EAST TEXAS	0
SOUTH TEXAS	0
MEXICO CITY	2950
MONTERREY	1840
GUADALAJARA	1430
NORTHWEST ARKANSAS	0

HIGHLIGHTS

CHAPTERS BY STATE



■ MEXICO ■ ARKANSAS ■ OKLAHOMA ■ TEXAS

REGION 8 GA ACTIVITY JUNE 2024



■ ACTIVE ■ NON ACTIVE

- **14,950 TOTAL PAOE REPORTED**
- **More than 50% of the chapters are located in Texas, this year was not a Day on the Hill season**
- **Only 33.3% of the chapters were non-active (do not have a GA chair or not respond to e-mails) but most of them have presidential participation**
- **All Mexican chapters have strong activity in this committee and leading chair**
- **Small chapters tend to have lower GA engagement**

ACCOMPLISHMENTS

OKLAHOMA (NEOK&CEOK)



Joint Day on the Hill event by two chapters at Oklahoma

OKLAHOMA (NEOK&CEOK)

HIGHLIGHT!

The OUBCC (Oklahoma Uniform Building Code Commission) participated on NEOK monthly meeting.

This is the state agency that was created and is reviewing state codes and makes a recommendation to congress what to update.



AMERICAN SOCIETY OF HEATING, REFRIGERATION,
AND AIR-CONDITIONING ENGINEERS

Oklahoma Government Outreach Day - March 12, 2024

HVAC Industry Economic Impact in Oklahoma Fast Facts

- Total Annual Economic Output = \$ 3.6 billion, ranked #9 in U.S.¹
- Oklahoma economic activity makes up 3.8% of entire domestic HVAC industry¹
- Total number of jobs related to HVAC industry = 22,000, ranked #15 in U.S.¹
- **As of Dec. 2019, 1 in 84 jobs of total Oklahoma civilian labor force is found in the HVAC industry, ranking #2 in the U.S.²**
- Roughly 90% of economic output comes from upstream segment which is manufacturing as well as their suppliers, distribution, and transportation channels. This is important as it represents more long-term jobs with stable income as opposed to downstream segment, i.e., actual construction spending in the field.¹
- Since the pandemic, HVAC manufacturers have significantly invested in new facilities in Oklahoma including:
 - AAON, Inc. in Tulsa currently employees over 2,600 Oklahomans and invested over \$ 200M in their new production and R&D facilities facility since 2019
 - Greenheck Group is finishing the last few buildings of their Tulsa manufacturing campus. When they finish this year, it will represent a total investment of over \$ 215M on facilities. They currently employ over 1800 Oklahomans.
 - The Climate Control Group encompasses 4 different manufacturing divisions in the OKC area and currently employs over 1,300 people in those divisions.
 - Manufacturers such as Johnson Controls (Norman), Loren Cook Company (Muskogee) Nortek/Temtrol (Okarche), Titus (Ponca City), Specific Systems (Tulsa), Captiveaire (Muskogee), Ductmate (Wagoner) have all invested in new facilities or expansion of their facilities in the last 5 years.

1. Dr. Chad Moutray, "An Economic Analysis of the U.S. HVACR and Water Heating Industry", Center for Manufacturing Research, July 20, 2017, pgs 20-32.

2. U.S. Department of Labor, Bureau of Labor Statistics, December, 2018.

GUADALAJARA

WORKSHOP SECRETARÍA DE DESARROLLO ECONÓMICO
BUSINESS LAND



CHARLA

El hvac&r y su relación con el cambio climático

IMPARTE:
LUIS FIGUEROA

Descubre cómo las prácticas innovadoras y un diseño inteligente en sistemas de aire acondicionado marcan la diferencia en la resolución de los desafíos medioambientales del futuro.

LUNES 1 DE ABRIL 17:00 A 18:00 H

MIÉRCOLES 3 DE ABRIL 17:00 A 18:00 H

2024

1º CONGRESO

"ENERGIZANDO EL PROGRESO:
PERSPECTIVAS ACTUALES Y FUTURAS EN
EFICIENCIA ENERGÉTICA"

CHARLAS CON:



A partir de las 09:00 AM

PANEL:

A partir de las 12:00 pm



Ginger Scoggins
Ashrae Society president



Eleazar Rivera
Director de proyectos estratégicos de la Agencia Estatal de Energías Renovables



Víctor Cervantes
Encargado del despacho de la dirección general



Joe Sanders
Director Region VIII



Viernes, 5
Abril 2024



AC Hotel Marriot
Av. de las Américas 1500
Country Club, 44610

Cupo limitado

Costos:

\$550 miembros
\$700 no miembros
\$250 estudiantes
Descuento especial a empresas con más de 3 invitados

Haz tu RSV

Encuétranos en:

@ashrae_gdl

www.ashraegdl.com

GUADALAJARA

**Director of Projects, Energy Agency
of Nuevo Leon, Eleazar Rivera**
**ASHRAE President, Ginger
Scoggings**
DRC Region VIII, Joe Sanders
**General Director, Energy Agency of
Jalisco, Victor Cervantes**



MONTERREY



MONTERREY



ROUND TABLE

Public roundtable between our chapter and the Secretary of public health local University regarding Indoor air Quality and their effects on health

MONTERREY



Public recognition of the career of the current elected Mayor of Monterrey by the HVACR industry within our monthly session

HIGHLIGHT: she used to be Director of energy and Economy Secretary prior this new role. She helped the chapter in each of this positions,

MONTERREY



Gobierno de
—
Monterrey



Foro de Edificios Sostenibles

en el marco del Día Mundial de la Eficiencia Energética



Martes 05 de marzo

Registro: 09:30 am



Salón polivalente de la
Facultad de Arquitectura de la UANL.

11

CIUDADES Y
COMUNIDADES
SOSTENIBLES



Actividades:

- Presentación de resultados del Reto de Edificios Eficientes de Monterrey.
- Panel de Eficiencia Energética.
- Ponencia de Bioconstrucción y Diseño Bioclimático.

**Cupo limitado.*



Registro y programa:
<https://bit.ly/3SA3Tfe>



WRI MÉXICO
— ROSS CENTER



MONTERREY



MONTERREY



REGION 8 + 12

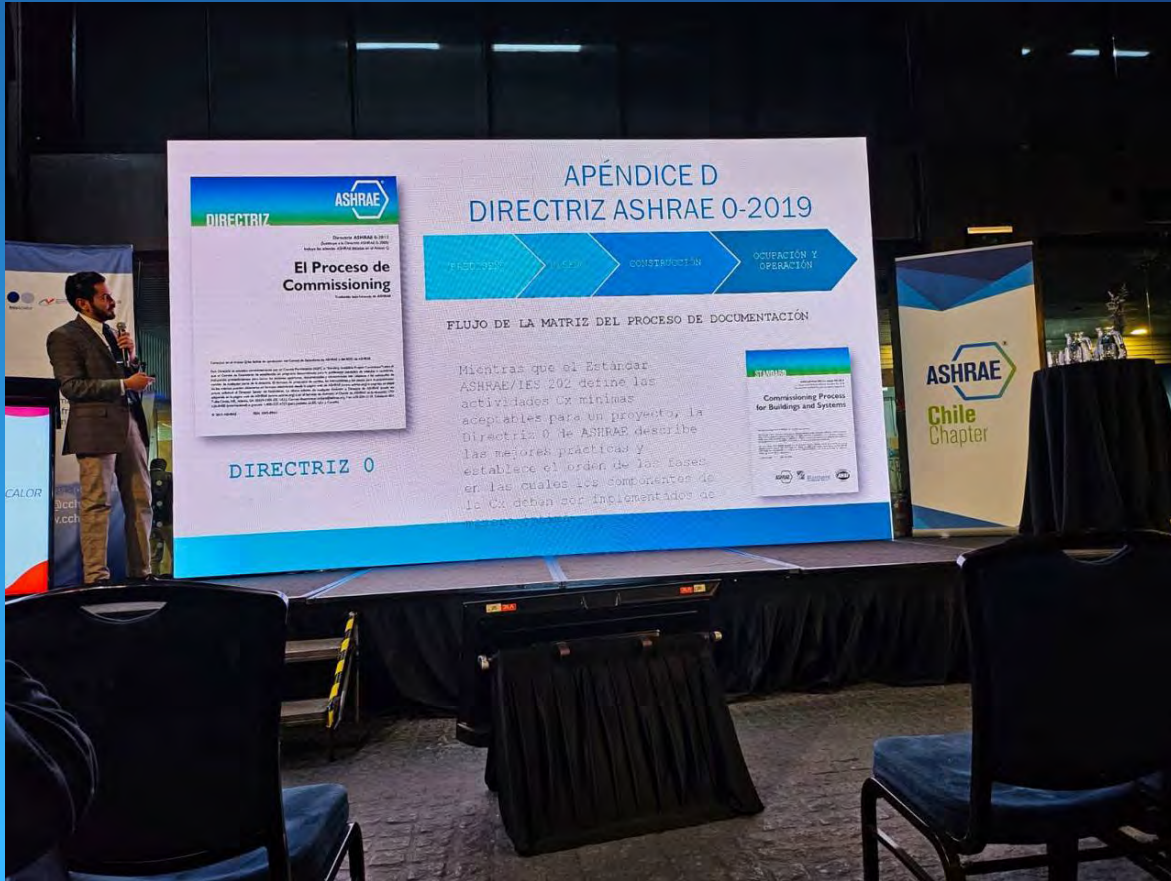
Mario Maldonado, AHRI
Latin America Manager
Lorena Alarcon, Ozone
program consultant,
Ministry of environment
of Chile
Felipe Vidal, Director of
National Institute of
Standards
Eleazar Rivera, RVC
Region 8 GA
René Gonzalez, incoming
GA Chair Chile Chapter



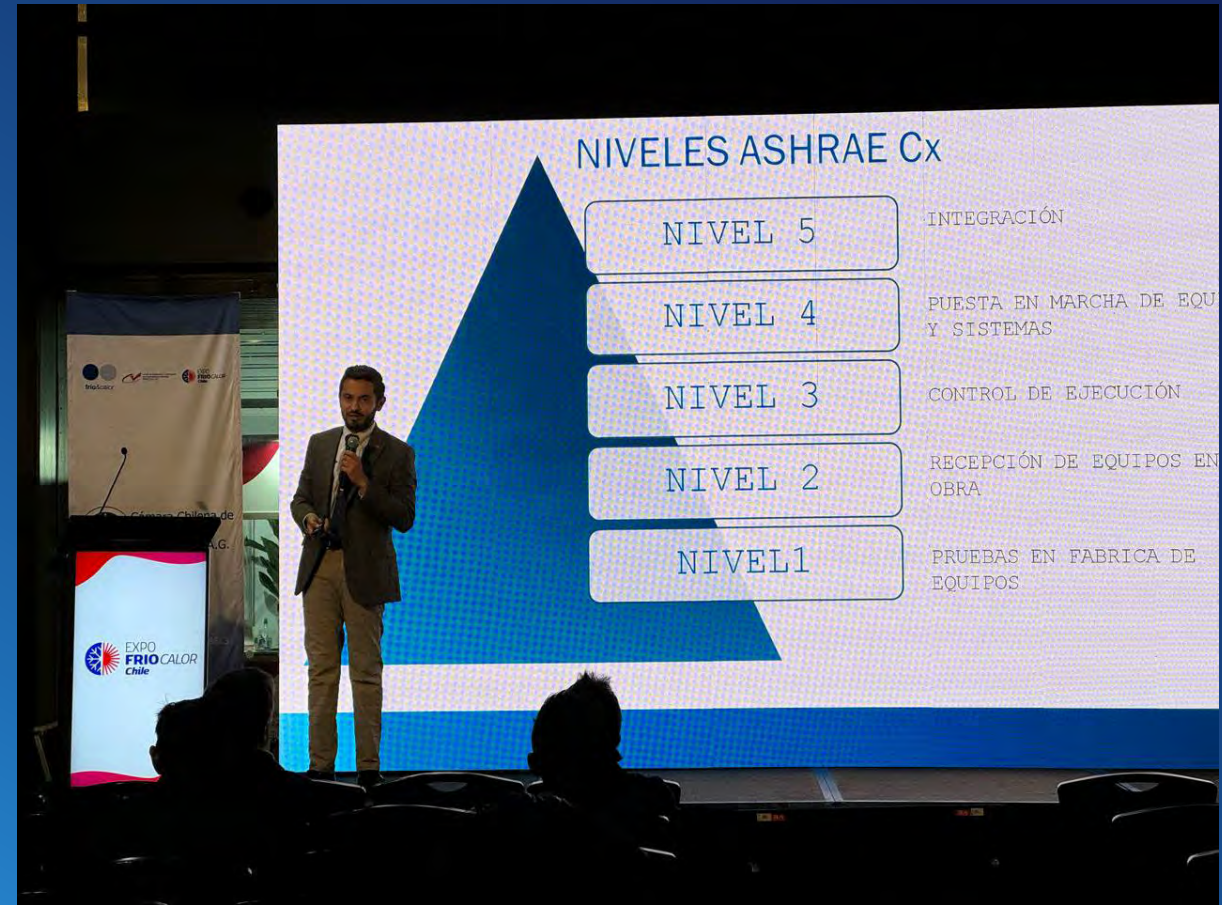
REGION 8 + 12



REGION 8 + 12



REGION 8 + 12



REGION 8 + 12

Mario Maldonado, AHRI
Latin America Manager
Lorena Alarcon, Ozone
program consultant,
Ministry of environment
of Chile
Felipe Vidal, Director of
National Institute of
Standards
Eleazar Rivera, RVC
Region 8 GA
René Gonzalez, incoming
GA Chair Chile Chapter





THANK YOU, GA COMMITTEE AND WONDERFUL STAFF, FOR BEING PART OF THIS SUCCESSFUL 2023-2024!

- **“NEVER BE DAUNTED” E. HEMMINGWAY**

E: STANDARDIZED RVC/ REPORTING FORMAT

The following information is compiled into a summary spreadsheet showing activity for each region. The spreadsheet is reviewed by GAC at each Society meeting.

RVC Report for Region IX

ACTIVITY
CRC
Total number of chapters in region: 13
Number of chapters present: 9
Number of GA chapter chairs present: 7
Percentage of participation: 69%
Percentage of GA chapter chair participation: 53.8%
No. of planning sessions held: 7
PAOE
No. of Chapters Reporting PAOE Points: 10
No. of Chapters Making Society Minimum : 8
No. of Chapters Making Society PAR : 6
Highest PAOE Points by a Chapter: 3,650
Percentage of chapters reporting: 77%
Percentage of chapters making Society Minimum: 61.5%
Percentage of chapters making Society PAR: 46%
CHAPTER VISITS
No. of visits made: 1
No. of visits scheduled: 2
Percentage of chapters visited: 7.7%
GAC AWARDS
Government. Affairs Award: None
Government Outreach Days: 11
No. of Chapters Participating: 6
No. of government officials visited: 79
No. of ASHRAE members participating: 32
No. of Chapters reporting: 6
No. of days duration: 12



Region IX Summer Report 2024

Big Sky



Chapter# 131

Black Hills



Chapter# 127

El Paso



Chapter# 072

New Mexico



Chapter# 077

Ozarks



Chapter# 150

Pikes Peak



Chapter# 148

Idaho



Chapter# 135

Kansas City



Chapter# 053

Nebraska



Chapter# 075

Rocky Mountain



Chapter# 073

South Dakota



Chapter# 093

Utah



Chapter# 074

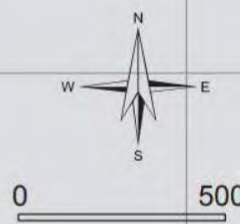
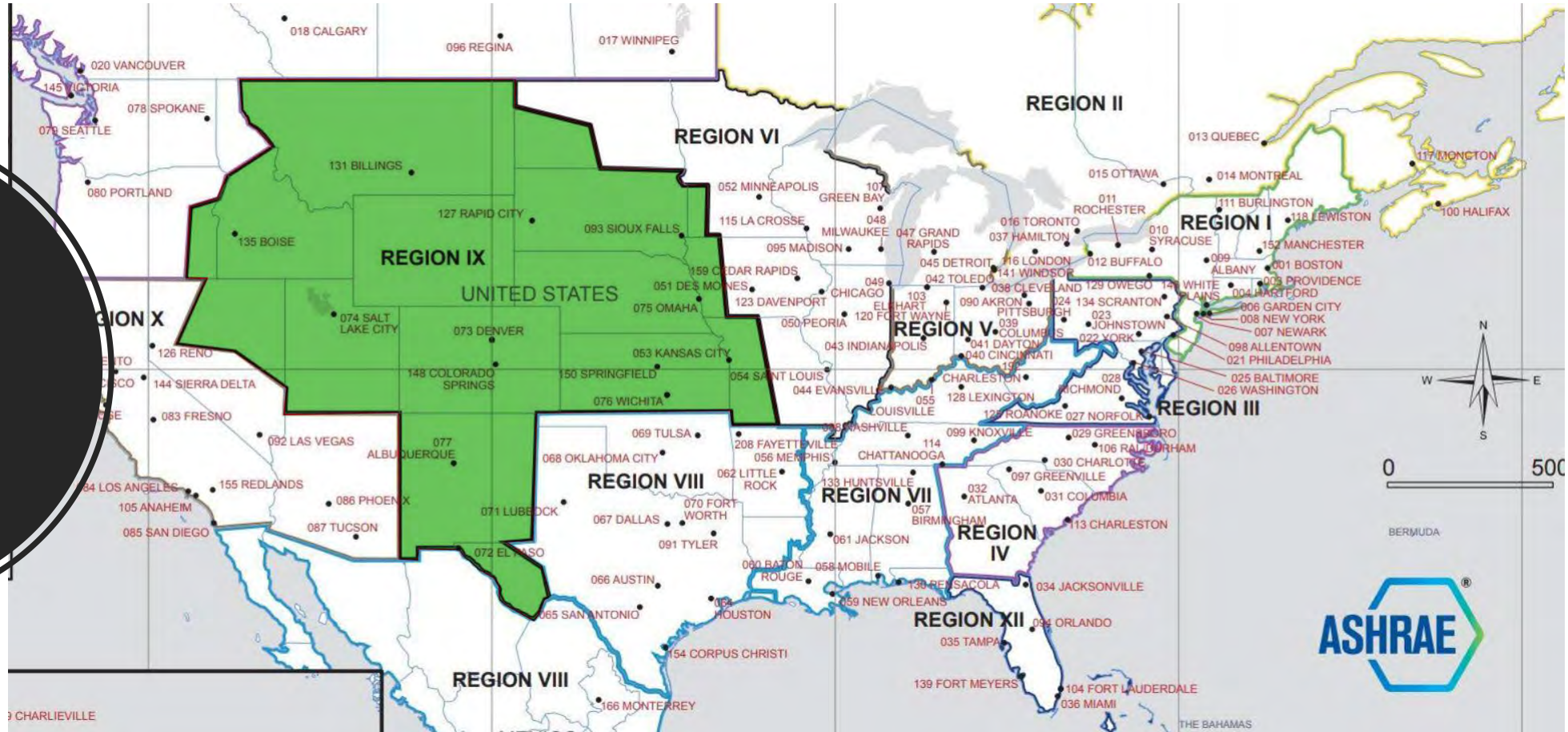
Wichita



Chapter# 076

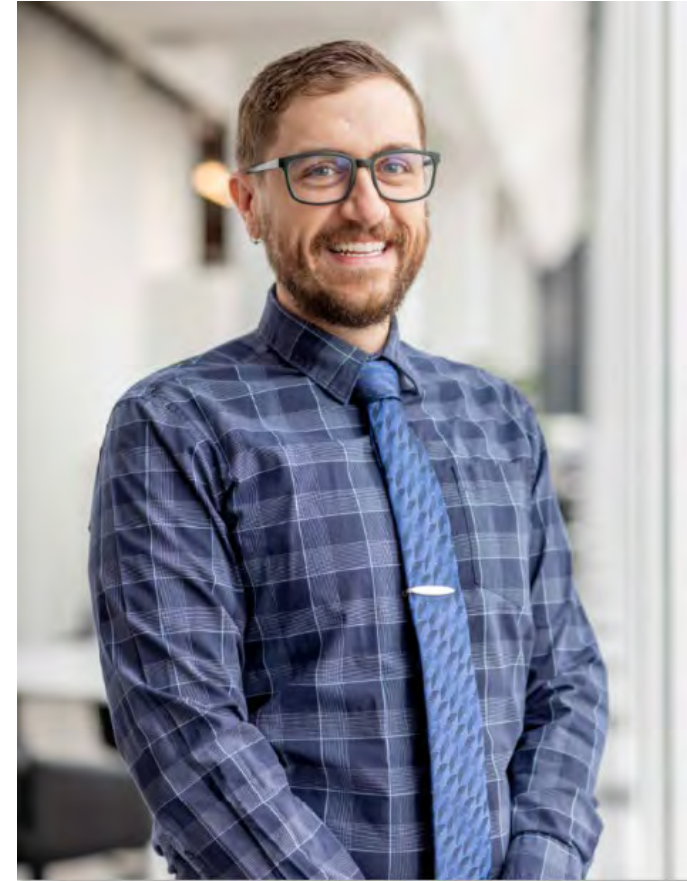


Region IX



Region IX RVC Bio.

- Peter Koneck-Wilwerding
- Mechanical Section Manager at HDR
- Omaha, Nebraska, USA
- Nebraska Chapter #75
- GA Chapter Chair 2018/19, 2019/20, 2020/2021
- On BOG for NE (First Chair)
- Second Year RVC (of 3-year term)



Region IX Chapter PAOE Status

Chapter code	Chapter Name	Chapter AAM	Government Affairs: Minimum 500; PAR 1250	ChapterPAOEpointTotals	% Total
75	NEBRASKA	369	3650	24350	15%
53	KANSAS CITY	620	3550	14935	24%
93	SOUTH DAKOTA	126	3325	13332	25%
135	IDAHO	161	1675	10985	15%
74	UTAH	330	1650	18637	9%
148	PIKES PEAK	108	1250	5935	21%
73	ROCKY MOUNTAIN	970	700	10259	7%
76	WICHITA	143	500	5828	9%
77	NEW MEXICO	137	50	7465	1%
131	BIG SKY	127	50	3580	1%
72	EL PASO	53	0	2080	0%
127	BLACK HILLS	45	0	4055	0%
150	OZARKS	60	0	3740	0%



Region IX Notable Notes

- Kansas City
- Nebraska
- South Dakota
- Idaho
- Utah
- Pikes Peak
- Rocky Mountain

Thank you GAC staff!



E: STANDARDIZED RVC/ REPORTING FORMAT

The following information is compiled into a summary spreadsheet showing activity for each region. The spreadsheet is reviewed by GAC at each Society meeting.

RVC Report for Region 10

ACTIVITY	
CRC – Reno 2023	
Total number of chapters in region	14
Number of chapters present	9
Number of GA chapter chairs present	6
Percentage of participation	64%
Percentage of GA chapter chair participation	43%
No. of planning sessions held	10
PAOE	
No. of Chapters Reporting PAOE Points:	14
No. of Chapters Making Society Minimum :	7
No. of Chapters Making Society PAR :	7
Highest PAOE Points by a Chapter:	2650
Percentage of chapters reporting	100%
Percentage of chapters making Society Minimum	50%
Percentage of chapters making Society PAR	50%
CHAPTER VISITS	
No. of visits made:	6
No. of visits scheduled:	0
Percentage of chapters visited:	14%
GAC AWARDS	
Government. Affairs Award	0
Government Outreach Days	
No. of Chapters Participating	7
No. of government officials visited	25
No. of ASHRAE members participating	9
No. of Chapters reporting	4
No. of days duration	4

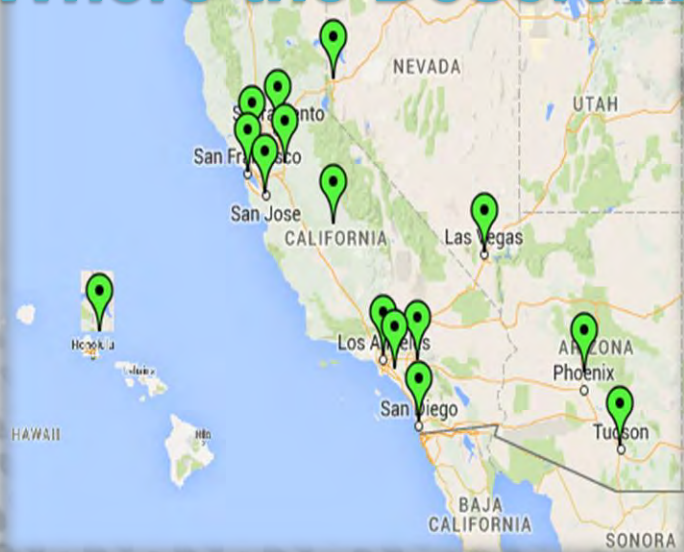
Region X Chapters

- 086 Central Arizona - Phoenix, AZ
- 082 Golden Gate - San Francisco, CA
- 082 Golden Gate - Napa, CA
 - Redwood Empire Section
- 108 Hawaii - Honolulu, HI
- 126 Northern Nevada - Reno, NV
- 105 Orange Empire - Anaheim, CA
- 081 Sacramento Valley - Sacramento, CA
- 085 San Diego - San Diego, CA
- 083 San Joaquin - Fresno, CA
- 101 San Jose - San Jose, CA
- 144 Sierra Delta - Stockton, CA
- 084 Southern California - Los Angeles, CA
- 084 Southern California - Santa Barbara, CA
 - Western Section
- 092 Southern Nevada - Las Vegas, NV
- 155 Tri-County - Redlands, CA
- 087 Tucson - Tucson, AZ



Region X Government Affairs

“Where the Desert Meets the Ocean”



Tracey Jumper
RVC-GAC
Tri-County Chapter

**ASHRAE ANNUAL MEETING
JUNE 21, 2024**

RVC Report – Year-End

RVC Report for Region 10	
ACTIVITY	
CRC – Reno 2023	
Total number of chapters in region	14
Number of chapters present	9
Number of GA chapter chairs present	6
Percentage of participation	64%
Percentage of GA chapter chair participation	43%
No. of planning sessions held	10
PAOE	
No. of Chapters Reporting PAOE Points:	14
No. of Chapters Making Society Minimum :	7
No. of Chapters Making Society PAR :	7
Highest PAOE Points by a Chapter:	2650
Percentage of chapters reporting	100%
Percentage of chapters making Society Minimum	50%
Percentage of chapters making Society PAR	50%
CHAPTER VISITS	
No. of visits made:	6
No. of visits scheduled:	0
Percentage of chapters visited:	14%
GAC AWARDS	
Government. Affairs Award	0
Government Outreach Days	
No. of Chapters Participating	7
No. of government officials visited	25
No. of ASHRAE members participating	9
No. of Chapters reporting	4
No. of days duration	4



Goals

- AZ GOE – Mar 14th pi day
- CA State Capitol Outreach
- Chapter Visits 6! (Thanks DL)
- E-Week, World Refrigeration
Day Proclamations



Proclamations!



PROCLAMATION



CITY OF TUCSON ♦ OFFICE OF THE MAYOR

WHEREAS, Engineers use their scientific and technical knowledge and skills in creative and innovative ways to fulfill society's needs; and,

WHEREAS, Engineers face the major technological challenges of our time – from rebuilding towns devastated by natural disaster, cleaning up the environment, and assuring safe, clean, and efficient sources of energy, to designing information systems that will speed our country into the future; and,

WHEREAS, Engineers are encouraging our math and science students to realize the practical power of their knowledge; and,

WHEREAS, ASHRAE sets standards for the heating, ventilation, air conditioning and refrigeration industry, in addition to certifying and educating people in the industry all across the country; and


WHEREAS, We will look more than ever to engineers and their knowledge and skills to meet the challenges of the twenty-first century:

NOW, THEREFORE, I, Regina Romero, Mayor of the City of Tucson, do hereby proclaim February 18 through February 24, 2024, as

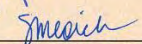
ENGINEERS WEEK

IN WITNESS WHEREOF, I have hereunto set my hand and caused the Seal of the City of Tucson, Arizona to be affixed this 21st day of February, 2024.



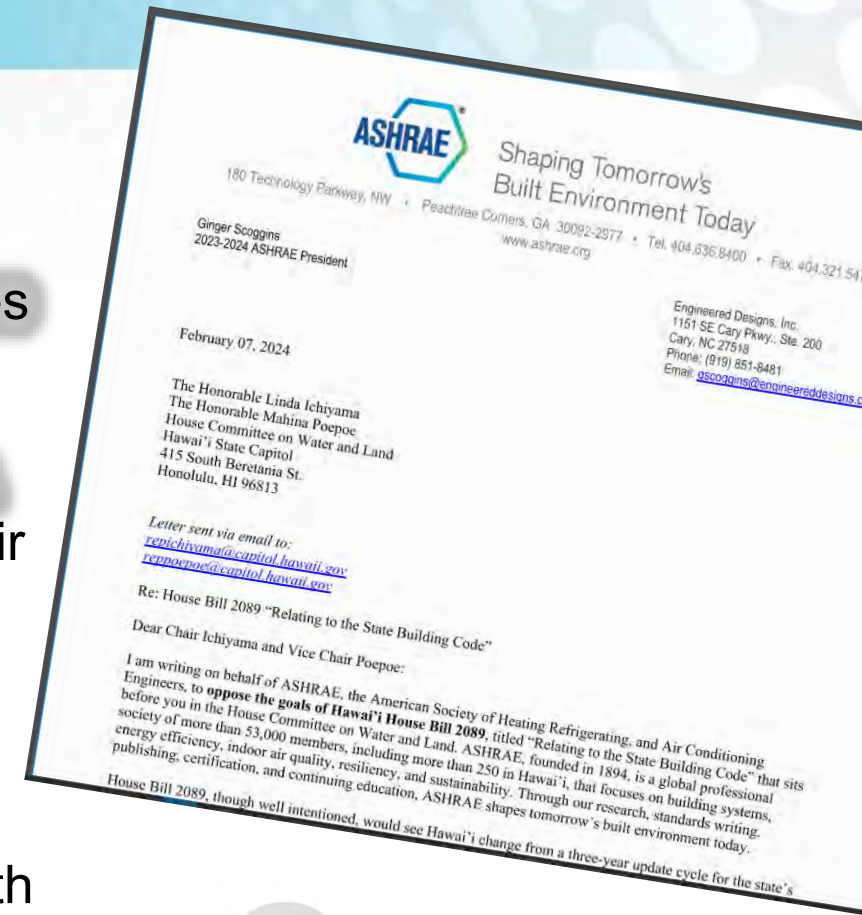

Regina Romero, Mayor

ATTEST:


Suzanne Mesich, City Clerk

Plus...State Legislation

- **Hawaii – SUCCESS! Stopped HI Senate Bills 2030,2031,2335,2994 & Amended HI Senate Bill 2089** to update Energy code updates adoption in shorter cycle (as published/every 3 yrs) versus a longer/double 6-yr cycle.
 - **Thank You** to: HI Local Chapter GAC Chair Kevin Louma & Pres. Justin Choriki, ASHRAE LT: Pres. Scoggins & Exec Dir Littleton for their Letter to HI State Senators), and Letter drafts and Testimony by Jacob Karson
- **Nevada (in progress) – July 2nd Hearing**
 - NV Admin Code 445C, R026-23 Regulation that conflicts with ASHRAE Standard 15-2022 Safety Standard for Refrigeration Systems, a regulation that includes definition of “pressure vessel” could cause refrigeration systems to become noncompliant with ASHRAE Std. 15-2022.



Year End Wrap Up: GOE and PAOE

- Govt Outreach Events:
 - STATE: 4, Including...
 - AZ Doth
 - CA Doth

REGION X		
2023-2024 Presidential Award of Excellence		
*Minimum and PAR points indicated are for 2023-2024		
Chapter Name	Chapter AAM	Government Affairs: Minimum 500; PAR 1000
SACRAMENTO VALLEY	291	2000
GOLDEN GATE	751	1100
SAN JOAQUIN	107	100
SOUTHERN CALIFORNIA	614	100
SAN DIEGO	343	2650
CENTRAL ARIZONA	426	2550
TUCSON	90	1100
SOUTHERN NEVADA	148	100
SAN JOSE	296	1700
ORANGE EMPIRE	366	50
HAWAII	242	2450
NORTHERN NEVADA	87	250
SIERRA DELTA	45	100
TRI COUNTY	73	50



Arizona Day on the Hill



California Day on the Hill



Thank You!



E: STANDARDIZED RVC/ REPORTING FORMAT

The following information is compiled into a summary spreadsheet showing activity for each region. The spreadsheet is reviewed by GAC at each Society meeting.

RVC Report for Region XI

ACTIVITY	
CRC	
Total number of chapters in region	11
Number of chapters present	11
Number of GA chapter chairs present	4 (5) A fifth GA Chair was appointed while at the conference
Percentage of participation	36% (45%)
Percentage of GA chapter chair participation	36% (45%)
No. of planning sessions held	1
PAOE	
No. of Chapters Reporting PAOE Points:	7
No. of Chapters Making Society Minimum :	4
No. of Chapters Making Society PAR :	3
Highest PAOE Points by a Chapter:	Regina
Percentage of chapters reporting	64%
Percentage of chapters making Society Minimum	36%
Percentage of chapters making Society PAR	27%
CHAPTER VISITS	
No. of visits made:	2
No. of visits scheduled:	

0 -Goal is 4 be end of summer	
Percentage of chapters visited:	
	18%
GAC AWARDS	
Government. Affairs Award	
Government Outreach Days-Events	
No. of Chapters Participating	3
No. of government officials visited	16
No. of ASHRAE members participating	10
No. of Chapters reporting	3
No. of days duration	



Government Affairs Region XI Report



Shaping Tomorrow's
Built Environment Today

Society Year 2023-2024

May 2024

2023-2024 Public Policy Goals

- Support Sustainable Building Practices including Building Decarbonization to Mitigate Climate Change
- Promote Healthy Buildings and Reduce Indoor Environmental Risks
- Advance Design and Construction of Resilient Buildings and Communities
- Ensure the Orderly and Safe Phasedown of High-GWP HFC Refrigerants
- Support Adoption of the Latest Edition of ASHRAE's Energy Standards into Building Codes
- Strengthen and Increase Diversity in the HVACR Workforce



Chapter PAOE Synopsis 2023/2024

Chapter	Points to Date		Chair	GOE Logged
	22-23	23-24		
Alaska	750	1,300	Yes	1
British Columbia	1,350	1,350	Yes	
Inland Empire	0	0	Yes	
Manitoba	250	300	Yes	3
Northern Alberta	450	300	Yes	
Oregon	200	0	Yes	
Puget Sound	1,300	0	No	
Regina	2,400	2,050	Yes	
Saskatoon	1,950	50	Yes	2
Southern Alberta	900	0	Yes	
Vancouver Island	1,400	650	Yes	

PAOE

- Min = 500
- Par = 1250

Summary:

- 7 chapters recorded PAOE points
- 3 chapters have recorded GOE events
- 10 chapters have confirmed Chairs



CRC Highlights

- Inland Empire Chapter hosted in Spokane, Washington
- 100% Chapter Attendance
- GA Chairs Present: 4 (36%)
- Planning Sessions Held: 1
- Focus on filling empty GAC seats
- Met with chapter members individually to discuss how to meet the GAC goals without burning out members.
- Able to recruit 1 new GAC chapter chair while in attendance
- Northern Lights sighting

Chapter Highlights

Alaska

As part of Engineer's week in October, conducted a meeting with local Municipal Manager and engineering department regarding ways to save cost on building by updating insulation and energy codes to better insulate the building envelope.

Manitoba

Has conducted ongoing discussions with Manitoba Hydro as well as other utilities. They've begun to foster local relationships.

The chapter also had a member attend the Wesaketewenowuk: A Conference on Metis Environmental Leadership where they found a lot of parallels between their efforts and priorities as well as that of the ASHRAE GAC

Regina

January, Hosted a webinar on Building Decarbonization and Infloor Heating and Cool to address ASHRAE President Ginger Scoggin's Climate Crisis Challenge. The webinar had over 65 attendees from our region. We had one attendee from SaskPower, one from SaskEnergy and one from the BC Ministry of Energy, Mines and Low Carbon Innovation.

Oregon

Provided Testimony to the state codes division in favor of the upcoming energy code change to update to the newest version of ASHRAE 90.1.



Regional Goals

Region XI RVC Goals:

- Get contact information of all chapter GAC's and a confirmed list of those holding the role.
10 confirmed
- Get every chapter to log PAOE points and GOEs.
PAOE: 7/11; COE: 3/11
- Total Regional PAOE points to meet or exceed 5,500 (6,000 currently)
GOAL MET!
- Conduct quarterly meetings with Region XI Chapter GACs
This has started and will continue
- RVC to visit 4 chapters.
2/4 completed

REGION

XI

Questions and Comments



Geoff Jenks

r11GAC@ashrae.net

gjenks@sazan.com

503.358.8697

E: STANDARDIZED RVC/ REPORTING FORMAT

The following information is compiled into a summary spreadsheet showing activity for each region. The spreadsheet is reviewed by GAC at each Society meeting.

RVC Report for Region 12

ACTIVITY	
CRC	
Region #	12
Total number of chapters in region	16
Number of chapters present	10
Number of GA chapter chairs present	9
Percentage of participation	62.5%
Percentage of GA chapter chair participation	56.25%
No. of planning sessions held	7
PAOE	
No. of Chapters Reporting PAOE Points:	14
No. of Chapters Making Society Minimum :	12
No. of Chapters Making Society PAR :	10
Highest PAOE Points by a Chapter:	3050
Percentage of chapters reporting	87.5%
Percentage of chapters making Society Minimum	75%
Percentage of chapters making Society PAR	62.5%
PAOE Trending by Chapter (up or down)	Up
CHAPTER VISITS	
No. of visits made by RVC:	4
No. of visits scheduled:	2
Percentage of chapters visited:	25%
GAC AWARDS	
Government. Affairs Award	Submitted by Brazil and won
Government Outreach Days	
No. of Chapters Participating	14
No. of government officials visited	64
No. of ASHRAE members participating	43
No. of Chapters reporting	12
No. of days duration	22



Region XII Government Affairs

2022/2024

Timothy N Theriault

June 21, 2024

Indianapolis Summer Meeting



GAC Regional Vice Chair Bio

Timothy N Theriault

Consulting Engineer and Project Manager since 1998

Employed by  TLC Engineering Solutions In Tampa, Florida since 2013

Home chapter is  and



FWC GGAC Chair 2017-2018 - Best Chair Award Reg XII

FWC GAC Co-chair 2018-2019 and 2019-2020

Co-Organized FL Day on the Hill in Spring 2019, Spring 2023, and Spring 2024

FWC Chapter President 2020-2021 - Best Chapter Award Reg XII

Sarasota-Bradenton Section President 2023-2024

GAC Regional Vice Chair Term is 2021-2024

GAC Member Mobilization Sub-Committee Chair 2022-2023

GAC Global Affairs Sub-Committee Chair 2023-2024



GA Chapter Synopsis 2023-2024 to date

2024 Winter Mid Year Tally

REGION XII

2023-2024 Presidential Award of Excellence

*Minimum and PAR points indicated are for 2023-2024

Chapter Name	Chapter AAM	Government Affairs: Minimum 500; PAR 1000
JACKSONVILLE	249	50
FLORIDA WEST COAST	400	600
MIAMI	209	400
CENTRAL FLORIDA	323	0
GOLD COAST	199	0
PUERTO RICO	80	0
SOUTHWEST FLORIDA	113	600
BRASIL	162	200
ARGENTINA	107	0
COLOMBIA	54	0
CHILE	52	300
ECUADOR	46	200
PARAGUAY	49	0
ASHRAE CARICOM	71	300
SOUTH BRAZIL	61	1550
PERU	75	0

2024 Summer Near Final Tally

REGION XII

2023-2024 Presidential Award of Excellence

*Minimum and PAR points indicated are for 2023-2024

Chapter Name	Chapter AAM	Government Affairs: Minimum 500; PAR 1000
JACKSONVILLE	249	300
FLORIDA WEST COAST	400	2750
MIAMI	209	2550
CENTRAL FLORIDA	323	1650
GOLD COAST	199	1050
PUERTO RICO	80	0
SOUTHWEST FLORIDA	113	1300
BRASIL	162	450
ARGENTINA	107	1700
COLOMBIA	54	0
CHILE	52	2550
ECUADOR	46	200
PARAGUAY	49	550
ASHRAE CARICOM	71	600
SOUTH BRAZIL	61	2400
PERU	75	1400

Regional Accomplishments



▶ Florida West Coast and Central Florida Chapter: Dinner meetings with Hillsborough County Councilman Harry Cohen. Representatives from 3 Florida chapters visited the Florida State Capitol in Tallahassee and met individually with 17 lawmakers 1 on 1. With training from ASHRAE GAC staff and assistance from veteran DOTM members, ASHRAE was represented over the course of a full day. 3 of the 17 elected officials were repeats from previous years. Additional meetings have been reported from the local level in Tampa and Orlando.

▶ Florida Gold Coast Chapter/Space Coast Section has involvement with Workgroup on Innovative Solar Energy Resources (WISER) and the Beautification and Energy Efficiency Board (BEEB) in Melbourne, FL. The chair has continued involvement with the BEEB. DRC is from Space Force and employed by US Space Force.

▶ Paraguay Chapter meetings with the Ministry of the Environment and Sustainable Development (MADES) to collaborate and sign a MOU to implement ASHRAE standards. Hosted the 6th annual congress of Paraguay for refrigeration, climatization and ventilation.

▶ Ecuador Chapter meetings with United Nations International Development Organization (UNIDO) and their ministry to translate and adopt ASHRAE standards into Ecuadorian codes. Region 12 Regional Representatives have visited to strengthen relations between Ecuador and ASHRAE. Standards to be translated are 15, 34, 147 and Guideline RP1807 to start. Request to Pub Ed for complimentary copy of standards has been sent.

▶ A new Central America section was formed and will be under the guidance of the Florida West Coast chapter. This section will serve all of the countries in Central America, including Guatemala, El Salvador, Nicaragua, Costa Rica, Panama, Dominican Republic, Belize and Honduras.

▶ Chile Chapter has adopted ASHRAE standards and hosted the Frio Calor conference that spanned over 3 days and hosted several south American chapters and Mexico's chapter.



In-The-Works / On-The-Go



- ▶ GAC Training Workshop for incoming Region XII GA Chairs during the Summer CRC for the ASHRAE year in August 2024, in Rio De Jenero, Brazil hosted by our Brazil Chapter.
- ▶ GAC presentation at Pres Elect training to be in May 2024 to layout and discuss regional committee expectations to each chapter to be held in Columbia.
- ▶ Next Florida Day on the Hill to be in Spring, 2025. Groups will continue to be organized by the previous year's DOTH leaders from Tampa and Orlando.
- ▶ New Section in Central America has plans for events in 6 countries between October and March including Costa Rica, Panama, Guatemala, Honduras, El Salvador and Nicaragua. Focus to bolster relations in these countries.
- ▶ Assist all chapters to connect with their local governments. Does not have to be during a Day on the Hill event.
- ▶ Brazil and South Brazil chapter has formed a council, creating an alliance with other societies.
- ▶ MOUs in conjunction with CTTC and Pub-Ed for translation of ASHRAE standards and publications, possibly with Paraguay, Ecuador, Chile, Brasil/South Brazil, Costa Rica.
- ▶ Regional GAC Office Hours - Mentorship Program.
- ▶ Focus on helping chairs fill out reporting forms for events. Some challenges with the online forms when done from international chapter areas like Brasil. Other challenges with reporting forms not being forwarded to RVC automatically.



Lessons Learned & Outcomes of 2023-2024

- ▶ Important to make a connection with the chapter GA Chairs. Patience with translations from their languages to English has been very much appreciated. Google Translate.
- ▶ A lot of energy in the beginning of each year is spent getting chapter chairs up to speed and making those connections.
- ▶ Language barrier between chapters in the region prevents proper reporting of events and some PAOE categories. Our region appointed a Portuguese/Spanish speaking assistant RVC to the current English speaking RVCs to help bridge that gap. Next elected GAC chair is from Peru, ARVC will likely be from Florida.
- ▶ COVID restrictions seem to be lifted everywhere. Day on the Hill and more Government events should be expected.
- ▶ The process to form a MOU to translate a standard from English to Spanish as coordinated by GAC, Pub Ed and CTTC chairs. Then get that translated standard to be adopted by countries and shared between countries.
- ▶ Continued to focus on getting reporting forms submitted. More countries have reported this year that had not in the past. Great expectations for continued progress in this reporting system. However, South American Countries do slow down and take the winter months off, much like we take off the summer months. They are busy April-October full speed.



Goals for future 2024-2025



- ▶ A smooth transition to Luis Alvarado from Peru to take over the duties of this regional position.
- ▶ Encourage government outreach events in Florida and International. Connect with all chapters.
- ▶ Continue and support and lead the Regional XII GAC committee to include an English/Portuguese/Spanish speaking Assistant Chair (ARVC) and a Subject Matter Expert (SME) to aide in standards adoption coordination between Central/South American Countries and the Caribbean. This is a combined effort with the CTTC chairs who will coordinate standards translation needs from English to Spanish and to Portuguese.
- ▶ Region has recently combined all Central America countries to one full section. Focus to assist them as much as possible. Florida West Coast chapter hosts this section.
- ▶ Focus on helping chapters fill out their reporting forms.
- ▶ Hold regional GAC office hours and training.



Regional Accomplishments - Chili

- ▶ Chile Chapter participation with Institute of Standards (INN) coordinating administrative issues to start approval meetings for Standard 170. Also working with the INN on Standard 62.1 Approval for Chile as well as other energy efficiency standards. Some additional activities with the Ministry of Health of Chile (MINSAL).
 - ▶ Recent ASHRAE adoption of standards into government codes. Article coming in next ASHRAE Journal publication.
 - ▶ Frio Calor expo spanning multiple days and involving many South American chapters and Mexico's chapter.



Regional Accomplishments - Brasil & S. Brazil



- ▶ Brasil and South Brazil Chapters have signed an MOU between themselves to work together and support each other. They are working chartering a National Council of air Conditioning to bring together multiple associations such as SMACNA, BCC, Abrave and ASHRAE Brasil chapters. Future MOU to be written after charter.

Translation of ASHRAE standards from English to Portuguese include:

- Standard 90.1-2019 - Energy Standard for Buildings Except Low-Rise Residential Buildings
- Standard 55-2020 - Thermal Environmental Conditions for Human Occupancy
- Standard 62.1-2022 - Ventilation and Acceptable Indoor Air Quality

- ▶ Viviane Nunes - Past chapter best GAC chair, Reg XII 2022 for the Brasil chapter. She is Region XII Assistant GAC Chair. She speaks many languages and has assisted with overcoming the language barrier and overall coordination in reaching all of South America.
- ▶ ASHRAE members come together to deal with the climate tragedy in Rio Grande do Sul in Brazil. Full government report available for our use.



RVC/ REPORTING FORMAT

RVC Report for Report XIII (YR 2023 – 2024), 1 June 2024

ACTIVITY	
CRC Region XIII	
Total number of chapters in region	10
Number of chapters present	8
Number of GA chapter chairs present	8
Percentage of participation	80%
Percentage of GA chapter chair participation	80%
No. of planning sessions held	1
PAOE (2023-2024)	
No. of Chapters Reporting PAOE Points:	10
No. of Chapters Making Society Minimum:	1
No. of Chapters Making Society PAR:	7
Highest PAOE Points by a Chapter:	3550
Percentage of chapters reporting	100%
Percentage of chapters making Society Minimum	10%
Percentage of chapters making Society PAR	70%
CHAPTER VISITS	
No. of visits made:	3
No. of visits scheduled:	3
Percentage of chapters visited:	100%
GAC AWARDS	
No. of Government Affairs Award	0
Government Outreach Days	
No. of Chapters Participating	
No. of government officials visited	
No. of ASHRAE members participating	
No. of Chapters reporting	
No. of days duration	



Government Affairs Committee Region XIII Report

June 2024: ASHRAE Annual Meeting

Er. Albert Sin Yew Tek
Regional Vice Chair –
GAC (2021 – 2024)
sinyewtek@gmail.com

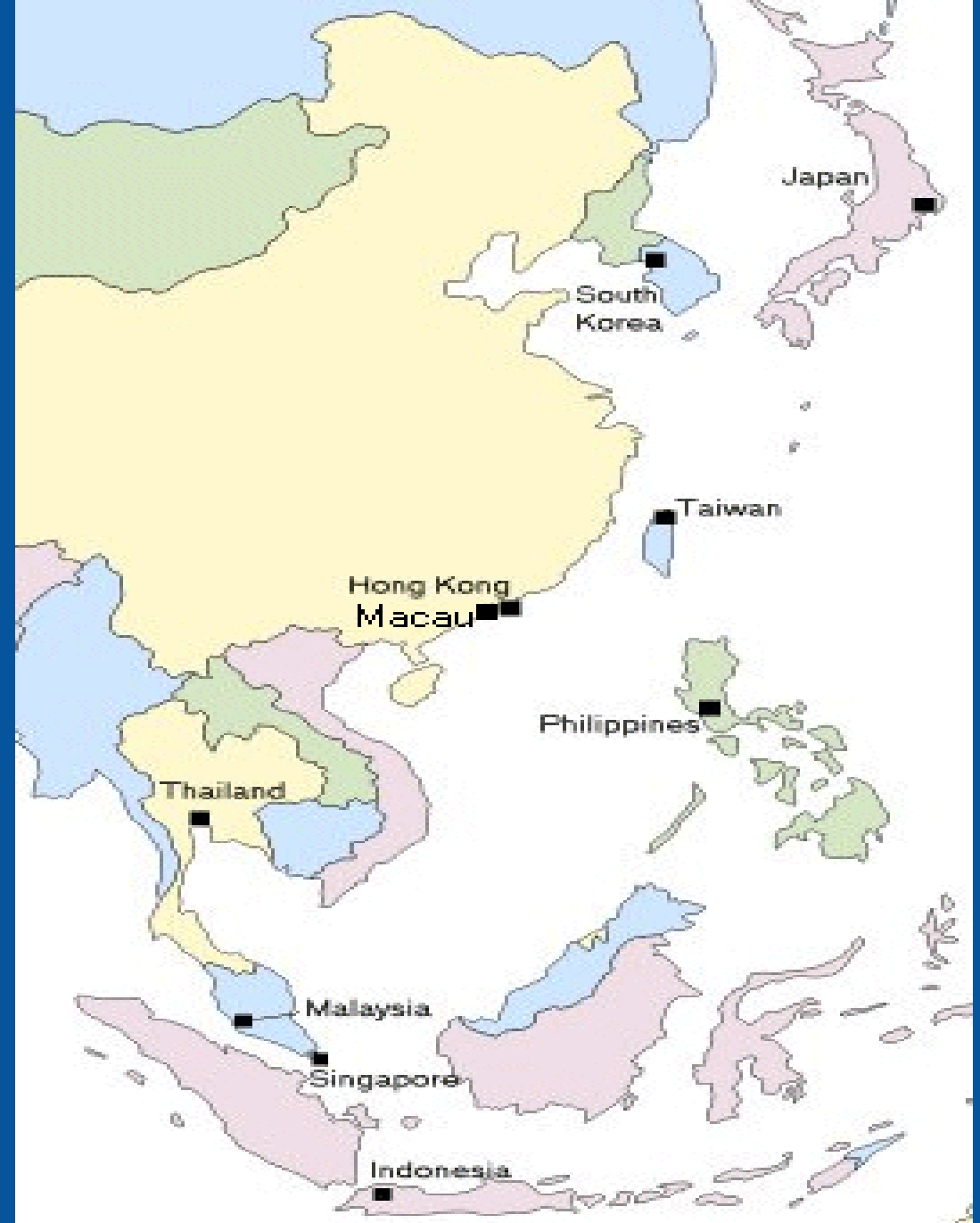




Total 10
Chapters

Region XIII

- Singapore (142)
- Hong Kong (143)
- Malaysia (149)
- Taiwan (157)
- Philippines (167)
- Thailand (170)
- Indonesia (183)
- Japan (194)
- South Korea (195)
- Macao (198)





S/N	Chapter	Chair/CO- Chair	Email address
1	SINGAPORE	Syed MUBARAK	asyedmubarak@gmail.com
2	SINGAPORE		-
3	HONG KONG	Tenny TAM	tennytam@hotmail.com
4	HONG KONG	Mike Chan	hohomikechan@gmail.com
5	MALAYSIA	CHEA Suei Keong	suei.keong.chea@gmail.com
6	MALAYSIA	Leong Siew Meng	leong.siewmeng@gmail.com
7	TAIWAN	SUN Ting-Jui	mizarluka@hotmail.com
8	TAIWAN	Dr Huang Chia Ming	cmhuang@greenmatrixes.com
9	PHILIPPINES	Mr Francis Roberto Sia Guevara	francisg@gpiengineers.com
10	PHILIPPINES		-
11	INDONESIA	Nanik RAHMAWATI	nrahmawati75@gmail.com
12	INDONESIA	Fadel Iqbal Muhammad	fadlim@outlook.com
13	THAILAND	Pachern SANGBUTSARAKUM	pachernsang@gmail.com
14	THAILAND	Ballang Sathorn	bsathorn@gmail.com
15	JAPAN	Hajime ONOJIMA	onojima.hajime@obayashi.co.jp
16	JAPAN	Horikawa	horikawa@nikken.jp
17	SOUTH KOREA	JUNG Jong-Rim	jongrim@ssei.co.kr
18	SOUTH KOREA		-
19	MACAU	FONG Chi-Pui	266773395alex@gmail.com
20	MACAU		



Region XIII GAC PAOE

Note:
For 2023-2024;
Par 1250, Min. 500

Chapter Name	As on 1 June 2024	2022 - 2023	2021 - 2022	2020 - 2021	2019 - 2020
Singapore	1600	2050	1350	1050	2300
Hong Kong	2400	3250	2100	2300	5600
Malaysia	3550	2950	4650	2100	1800
Taiwan	1450	2100	1750	1700	1050
Philippines	2150	1900	2400	3600	3800
Thailand	1350	1700	1620	1050	700
Indonesia	1350	3150	1350	1650	700
Japan	500	500	400	250	200
South Korea	150	600	250	250	200
Macao	150	700	1200	9950	1100



Past GAC meetings: 2023 – 2024

Physical and Virtual Meetings	(2023 – 2024)	
	Dates	Attendances
GAC Workshop	19 Aug. 2023	18
GAC Meeting no. 1	21 Oct. 2023	17
GAC Meeting no. 2	30 Mar. 2024	E-mail update
GAC Meeting no. 3	24 May 2024	RPM2(Seoul) >30 RXIII officers



ASHRAE Region XIII CRC GAC Training Workshop, 19 August 2023

18
participants





ASHRAE Region XIII GA Virtual Meeting No. 1, 21 October 2023

17
participants

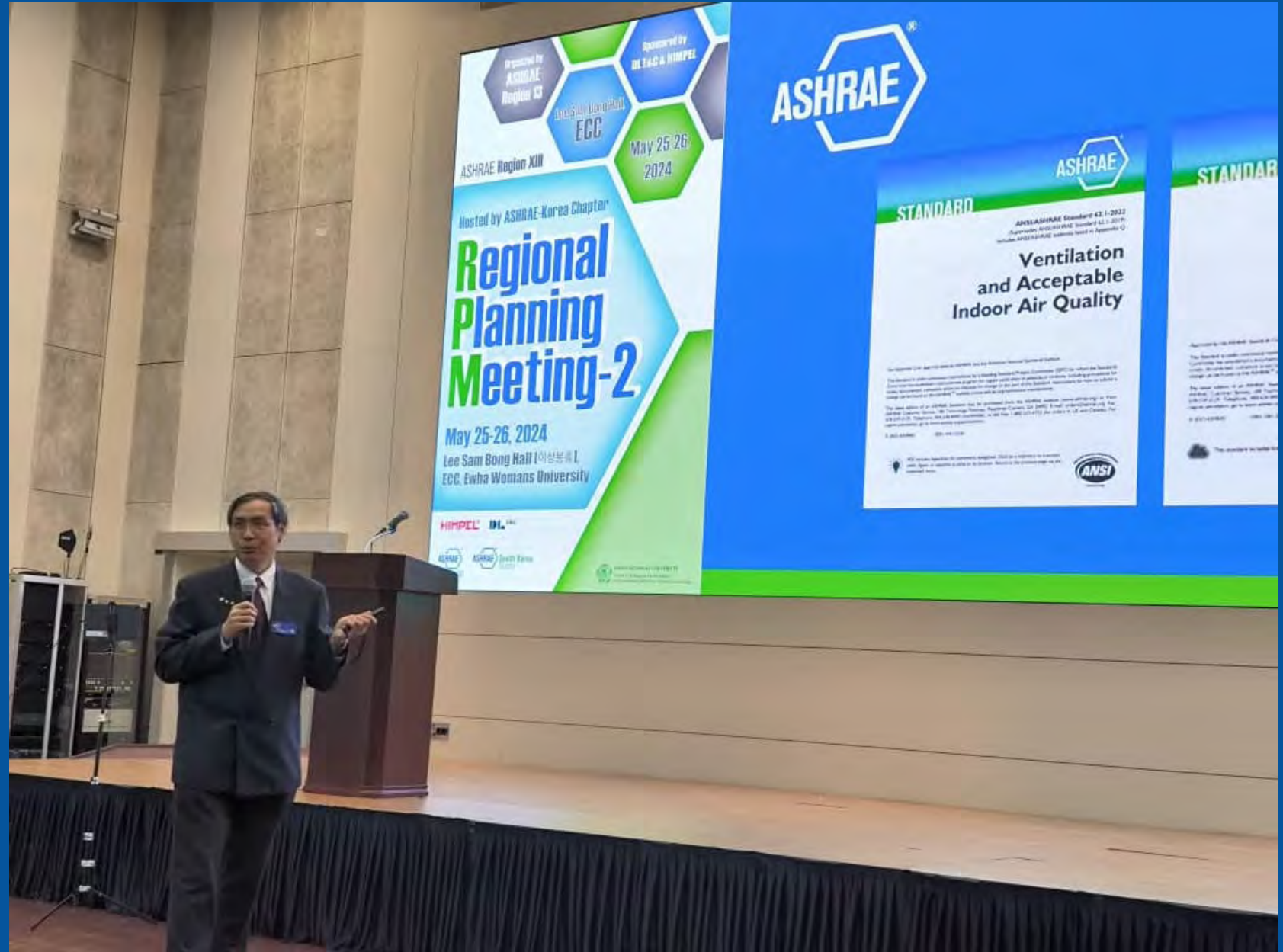
The screenshot shows a virtual meeting grid with 17 participants. The participants are arranged in a grid with 4 columns and 4 rows, with the last cell in the last row being empty. The participants are:

- Suei Keong Chea
- Albert Sin, SIN
- Jati Widiputra (WIDI) Indonesia Ch...
- Ting-Jui (Ray) SUN @Taiwan Chapter
- Nanik Rahmawati
- LEONG Siew Meng
- Hajime Onojima/Obayashi Japan
- Wenbin NG
- Tenny Tam
- Gavin Chang @ Taiwan
- Rahmadi Indonesia Chapter
- Chia Ming Huang/Taiwan Chapter
- Fadel Muhammad - Indonesia
- Herlin Herliatika-Indonesia
- JianYi LIAO
- Ballang098-2-5...
- deni jatnika
- deni jatnika



ASHRAE Region XIII Regional Planning Meeting No. 2, 25 May 2024, Seoul

>30 RXIII officers
attended





OTHER NEWS AND EVENTS

Green Innovation Starter Guide Launch

On 1st March 2024, ASHRAE Singapore Chapter (ASC) is excited to share the “**Green Innovation Starter Guide**” playbook launched by the Enterprise Singapore. This guide is a step-by-step resource to assist companies in identifying green innovation opportunities in the cooling and ventilation technology for buildings and cities. Since 2022, ASC Government Affairs Chair, Mr. Syed Mubarak collaborated with key stakeholders from multiple institutions such as Enterprise SG, Building Construction Authority (BCA), Intellectual Property Office of Singapore (IPOS) and Innovation Partner for Impact (IPI) to ideate and create Innovation Guide for Singapore enterprises.

At the launch event, Mr. Syed Mubarak presented a paper “**Emerging Global R&D Trends in Sustainable Cooling and Ventilation in Built Environment**”. The paper outlined ASHRAE’s Mission, Vision, and Goals about 2050 Net Zero Emissions. ASHRAE as an organization supports capacity building, development of standards, technical tools and research promotion in Singapore and around the world. Mr. Mubarak also outlined some of the emerging technologies such as Data Centre cooling solutions, Induction Filter UVGI Unit (IFFU), hydrogen boilers, geothermal and CO2 cooling/heating. Download the guide now: <https://go.gov.sg/61avsx>



Chapters Local Codes / Standards

Chapter Name	Local Codes/ Standards Input	Reference to ASHRAE Guidelines/Standards	Remarks
Singapore	Yes		
Hong Kong	Yes		
Malaysia	Yes		
Taiwan	Yes		
Philippines	Yes		
Thailand	Yes		
Indonesia			
Japan			
South Korea	Yes		
Macao	Yes		

Singapore building codes

S/N	Local building codes or Standards	Title	Year version	Any ASHRAE member representation (Y/N)	Normative references to ASHRAE Standards/ Guidelines	Remarks	Attachments
1	SS 530:2014+A1:2018	SINGAPORE STANDARD: Code of practice for energy efficiency standard for building services	2014	Y	ANSI/ASHRAE/IES Standard 90.1 : 2013 Energy standard for buildings except low-rise residential buildings		Create link to file for preview
2	SS 553:2016+A1:2017	SINGAPORE STANDARD: Code of practice for energy efficiency standard for building services and equipment mechanical ventilation in buildings	2016	Y	ANSI/ASHRAE/IES Standard 90.1 : 2013 'Energy standard for buildings except low-rise residential buildings (SI Edition)		Create link to file for preview
					ANSI/ASHRAE Standard 62.1 : 2013 'Ventilation for acceptable indoor air quality'		
					ASHRAE Standard 111: Measurement, testing, adjusting, and balancing of building HVAC		
					ASHRAE Standard 15: Safety standard for refrigeration systems		
					ASHRAE Guideline 0: The commissioning process		
					ASHRAE Guideline 1.1: HVAC & R technical requirements for the commissioning process		
3	SS 554 : 2016	SINGAPORE STANDARD: Code of practice for indoor air quality for air-conditioned buildings	2016	Y	ASHRAE Standard 52.2: Method of testing general ventilation air-cleaning devices for removal efficiency by particle size		Create link to file for preview
					ASHRAE Standard 55: Thermal environmental conditions for human		
4	SS 591:2021	SINGAPORE STANDARD Code of practice for long term measurement of central chilled water system energy efficiency	2021	Y	ASHRAE Guideline 14-2014: Measurement of energy, demand, and water savings		Create link to file for preview
					ASHRAE Guideline 22-2012: Instrumentation for monitoring central chilled-water plant efficiency		

Hong Kong building codes

S/N	Local building codes or Standards	Title	Year version	Any ASHRAE member representation (Y/N)	Normative references to ASHRAE Standards/ Guidelines	Remarks	Attachments
1	-	CoP of Energy Efficiency of Building Services Installation	2021	Y	ASHRAE Handbook – Fundamentals ASHRAE Standard 90.1-2019 ASHRAE Standard 140		https://www.emsd.gov.hk/beeo/en/pee/BEC_2021.pdf
2	-	General Specification for HVAC&R and Central Monitoring & Control System Installation	2017	Y	ASHRAE Fundamentals Handbook ASHRAE Applications Handbook ASHRAE Standard 135-2012 - A Data Communication Protocol for Building Automation and Control Networks (BACnet) ASHRAE Standard 34-2013: Designation and Safety Classification of Refrigerants ASHRAE 15-2013 (Packaged with ANSI/ASHRAE 34-2013): Safety Standard for Refrigeration Systems, Designation and Safety Classification of Refrigerants ASHRAE Guideline 14 and ASHRAE Guideline 22 for independent electricity meters and thermal energy meters ASHRAE Standard 52.2-2012 – Method of Testing General Ventilation Air Cleaning Device for Removal Efficiency by Particle Size ASHRAE standard 70-2006 and Air Diffusion Council Test Code 1062R4 ASHRAE Standard 90.1: 2013 ASHRAE Standard 189.1-2014 ASHRAE Standard 15 -2013 (Packaged with ANSI/ASHRAE 34-2013) ASHRAE 62.1-2013 ASHRAE Standard 84-2013		https://www.archsd.gov.hk/media/publications-publicity/general-specification-for-air-conditioning,-refrigeration,-ventilation-and-central-monitoring-control-system-installation/acgs2017.pdf

Malaysia building codes

Local Building Codes or Standards on Air-Conditioning, Mechanical Ventilation (ACMV)

No	Local Building	Title	Version	Any	Normative Reference to	Remar	Attach
1	JKR (Public	Indoor environment quality	2021	Y	(1) ASHRAE Standard 52.2,		
2	JKR (Public	Indoor Ventilation and Air	2021	Y	ASHRAE Standard 62.1		
3	Ministry of	Guideline on Conceptual	2020	Y	ASHRAE Standard 170-2008		
4	Ministry of	Guidelines on Ventilation in the	2021	Y	ASHRAE Standard 170-2021;		
5	Ministry of	Policies & Procedures on	2019	Y	ASHRAE Standard 170-2017		
6	Ministry of	Guidance Note on Ventilation	2021	Y	ASHRAE Technical		
7	Ministry of	Guidance Note on Ventilation	2021	Y	(1) ASHRAE Coronavirus		
8	Ministry of	Guidance Note on Ventilation	2021	Y	(1) ASHRAE. Epidemic Task		
9	Ministry of	Uniform Building By-Laws	1984,	Y	ASHRAE Standard 62-73		
10	Fire & Rescue	Design Guide for Fire	1999	Y	Engineered Smoke Control		
11	PTM Guide	Energy Efficiency and	2007	Y	MASHRAE Team led the		
12	PTM Guide	Energy Efficiency and	2010	Y	MASHRAE Team led the		
13	Ministry of	Energy Audit In Building	2015	Y	MASHRAE Team led the		
14	Ministry of	Energy Efficiency	2014	Y	ASHRAE Handbook -		
15	Ministry of	Energy Management In	2014	Y	MASHRAE Team led the		
16	Ministry of	MS1525 Code of Practice on	2014	Y	MASHRAE Team led the		
17	MS 1472	Code of Practice for Fire	1999,	Y	ASHRAE Guide		
18	MS1525	Energy efficiency and of	2001,	Y	(1) ASHRAE Handbook -		
19	MS 1780	Smoke Control System using	2017	Y	MASHRAE Team led the		
20	MS 2449	Performance rating of water-	2012	Y	ASHRAE Terminology of		
21	MS 2578	Code of Practice on Energy	2014	Y	MASHRAE Team led the		
22	MS 2586	Smoke and Heat Control	2017	Y	MASHRAE Team led the		
23	MS 2678	Flammable Refrigerant System	2017	Y	MASHRAE Team led the		

Taiwan building codes

S/N	Local building codes or Standards	Title	Year version	Any ASHRAE member representation (Y/N)	Normative references to ASHRAE Standards/ Guidelines	Remarks
1	Green Building Labeling (EEWH-BERS)	Green Building Evaluation Manual - Building Energy-Efficiency Rating System	2022	Y	ASHRAE Handbook-HVAC Application 1995	Energy consumption calculation for hot water in Hotel and Hospital
2	Local Energy Regulation (Taipei City Government)	Taipei Municipal Government Ordinance For Industrial and Commercial Energy Saving and Carbon Reduction Guidance and Self-Administration	2010	N	ANSI/ASHRAE Standard 41.1-2013	Indoor temperature measurement for air conditioning
3	Green Building Labeling (EEWH-BC)	Green Building Evaluation Manual EEWH-BC (Basic	2019	Y	ANSI/ASHRAE/IES Standard 90.1-2016 -- Energy Standard for Buildings Except Low-Rise Residential Buildings	Applying IPLV parameter
4	Green Building Labeling (EEWH-BC)	Green Building Evaluation Manual EEWH-BC (Basic	2019	Y	ASHRAE Handbook Fundamental 2013	AC heat load calculation principle
5	Green Building Labeling (EEWH-BC)	Green Building Evaluation Manual EEWH-BC (Basic	2019	Y	ANSI/ASHRAE/IES Standard 62.1-2016 Ventilation For Acceptable Indoor Air Quality	Acceptable Indoor Air Quality requirement design



Philippines building codes

Local building codes or Standards on Air-conditioning, Mechanical Ventilation (ACMV)

S/N	Local building codes or Standards	Title	Year version	Any ASHRAE member representation (Y/N)	Normative references to ASHRAE Standards/ Guidelines
1	PGBC -2016	Philippines Green Building Code	2016	Y	ASHRAE Standard 90.1 & ASHRAE Standard 189.1
2	EE-2020	Guidelines on Energy Conservong Design of Buidin	2020	Y	ASHRAE Standard 90.1 - 2019; ASHRAE Standard 62.1-2019 & 169 - 2013



Thailand building codes

Local building codes or Standards on Air-conditioning, Mechanical Ventilation (ACMV)

S/N	Local building codes or Standards	Title	Year version	Any ASHRAE member representation (Y/N)	Normative references to ASHRAE Standards/ Guidelines
1	EIT Standard 032010-60 :2018	Ventilation for acceptable Indoor Air Quality Standard	2018	Y	ANSI/ASHRAE Standard 62.1 : 2013 'Ventilation for acceptable indoor air quality'
2	EIT Standard 032014-22 :2022	Air Conditioning and Ventilation Systems Standards for Data Center	2022	Y	ANSI/ASHRAE Standard 90.4 : 2019 'Energy Standard for Data Center'
3	EIT Standard XXXXX :2022 (on process)	Ventilation of Health Care Facilities	2022	Y	ANSI/ASHRAE/ASHE Standard 170 : 2021 'Ventilation of Health Care Facilities'

South Korea building codes

Local building codes or Standards on Air-conditioning, Mechanical Ventilation (ACMV)						
S/N	Local building codes or Standards	Title	Year version	Any ASHRAE member representation (Y/N)	Normative references to ASHRAE Standards/ Guidelines	Remarks
1	Local Code	Enforcement decree of the indoor air quality control	2018		ANSI/ASHRAE Standard 62.1 : 2013 'Ventilation for acceptable indoor air quality'	Ministry of Environment
2	Local Code	Rules on facility standard, tec. Of buildings	2021		ANSI/ASHRAE Standard 62.1 : 2013 'Ventilation for acceptable indoor air quality'	Ministry of Land, Infrastructure and Transport
3	Local Code	Energy-saving design standards for building	2022		ANSI/ASHRAE/IES Standard 90.1 : 2013 'Energy standard for buildings except low-rise residential buildings (SI Edition) ASHRAE Standard 55: Thermal environmental conditions for human occupancy	Ministry of Land, Infrastructure and Transport
4	KDS 31 00 00 ~ KDS 31 50 20	Plan Design Standard for building services and equipment	2018		IMC(International Mechanical Code) 2012 IPC(International Plumbing Code) 2012 IBC(International Building Code) 2012 ASHRAE HANDBOOK	Korea Construction Standard Center



Macao building codes

Local building codes or Standards on Air-conditioning, Mechanical Ventilation (ACMV)

S/N	Local building codes or Standards	Title	Year version	Any ASHRAE member representation (Y/N)	Normative references to ASHRAE Standards/ Guidelines
1	no guidelines number	Macao Building Energy Consumption Optimization Technical Guidelines	2009		ANSI/ASHRAE Standard 62
2	no guidelines number	Energy Conservation Commitments and Internal Guidelines Development Recommendations for Public Sectors and Agencies	2006		ANSI/ASHRAE Standard 90.1-1999



As ASHRAE seeks to expand its mission around the globe, the Society is offering ASHRAE content in languages other than English. This page details the numerous translated ASHRAE publications that we offer, which are available in the following languages:

- Arabic
- Chinese
- Croatian
- French
- Greek
- Korean
- Portuguese
- Romanian
- Serbian
- Spanish
- Turkish

ASHRAE Chapters, ASHRAE Associate Societies, and commercial entities who wish to translate ASHRAE publications should email the title of the publication(s) and the intended language to the [Editor of Special Publications](#), who will discuss all requests with the Director of Publications and Education and explain the terms of translation agreements for approved projects.

Handbook Tables of Contents

- [Table of Contents 2023 ASHRAE Handbook—HVAC Applications](#) – Traditional Chinese
- [Table of Contents 2022 ASHRAE Handbook—Refrigeration](#) – Traditional Chinese
- [Table of Contents 2021 ASHRAE Handbook—Fundamentals](#) – Traditional Chinese
- [Table of Contents 2020 ASHRAE Handbook—HVAC Systems and Equipment](#) – Traditional Chinese



ASHRAE/IES Standard 90.1-2019, Energy Standard for Buildings Except Low-Rise Residential Buildings (SI Edition)

This standard provides minimum requirements for the energy-efficient design, construction, and a plan for operation and maintenance and for utilization of on-site, renewable energy resources in buildings except low-rise residential buildings for (1) new buildings and their systems, (2) new portions of buildings and their systems, (3) new systems and equipment in existing buildings, and (4) new equipment or building systems specifically identified in the standard that are part of industrial or manufacturing processes. It also provides criteria for determining compliance with these requirements.

Available in [Chinese](#) or [English](#)



ASHRAE Standard 111-2008, Measurement, Testing, Adjusting, and Balancing of Building HVAC Systems

This standard applies to building heating, ventilating, and air-conditioning (HVAC) systems of the air-moving and hydronic types and their associated heat transfer, distribution, refrigeration, electrical power, and control subsystems.

Available in **Chinese** or **English**



Humidity Control Design Guide for Commercial and Institutional Buildings

This book is designed to help technical professionals design humidity control systems for commercial buildings. It provides complete coverage of humidity control from basic principles to real-world design advice in an easy-to-follow layout.

Available in **Chinese** or **English**



Lucy's Engineering Adventure

This rhyming picture book introduces children to building and HVAC engineering through a young girl's visit to an unfinished building, where her father uses a metaphor of the human body to explain the building's beams and columns, electrical system, and HVAC ducts. Lucy's curiosity is encouraged by her father throughout.

Available in **Chinese** and **English**



ASHRAE Standard 55-2023, Thermal Environmental Conditions for Human Occupancy

ASHRAE Standard 55 specifies conditions for acceptable thermal environments and is intended for use in design, operation, and commissioning of buildings and other occupied spaces. The 2023 edition incorporates eleven published addenda and includes a new method for the assessment of local thermal discomfort with vertical air temperature gradient between the head level and ankle level. The standard also now has wider applicability, covering metabolic rates up to 4 from 2, and calculation methods have been consolidated and simplified to two methods: standard and adaptive. There is also an example spreadsheet compliance form included.

Available in [Korean](#) and [English](#)



Certification Study Guide: Building Energy Modeling Professional (BEMP)

The Certification Study Guide: Building Energy Modeling Professional (BEMP) leverages instructional design best practices to ensure effective learning and drive desired outcomes. It provides a framework and tools to help building energy modeling professionals create a customized, self-paced study plan to improve their knowledge and skills in key energy modeling job tasks, and achieve success on the BEMP certification exam. Importantly, this Study Guide will help building energy modeling professionals target which elements of which resources will be most beneficial to them based on their own professional development needs. The study guide includes self-assessments and a study map, resource breakdowns, quick quizzes, and a 100-question BEMP Practice Exam with an answer key, as well as a list of common BEM formulas and a glossary.



The End



ASHRAE
2024 Winter Conference
Indianapolis, IN
June 20th, 2024

Dr. Eng. Ioan Silviu DOBOSI

RVC-GA Region XIV

Danube Chapter

GAC Indianapolis, June 20th, 2024

Dr. Eng. Ioan Silviu DOBOȘI

Regional Vice Chair Government Affairs - ASHRAE Region XIV Europe

Graduate of “Politehnica” University of Timișoara, Faculty of Civil Engineering, Building Services Department in 1988.

Doctor in Civil Engineering at the “Politehnica” University of Timișoara in 2007.

In 1994, establishes SC Dosestimpex SRL, today one of the main competitors on the market of building services in Romania.

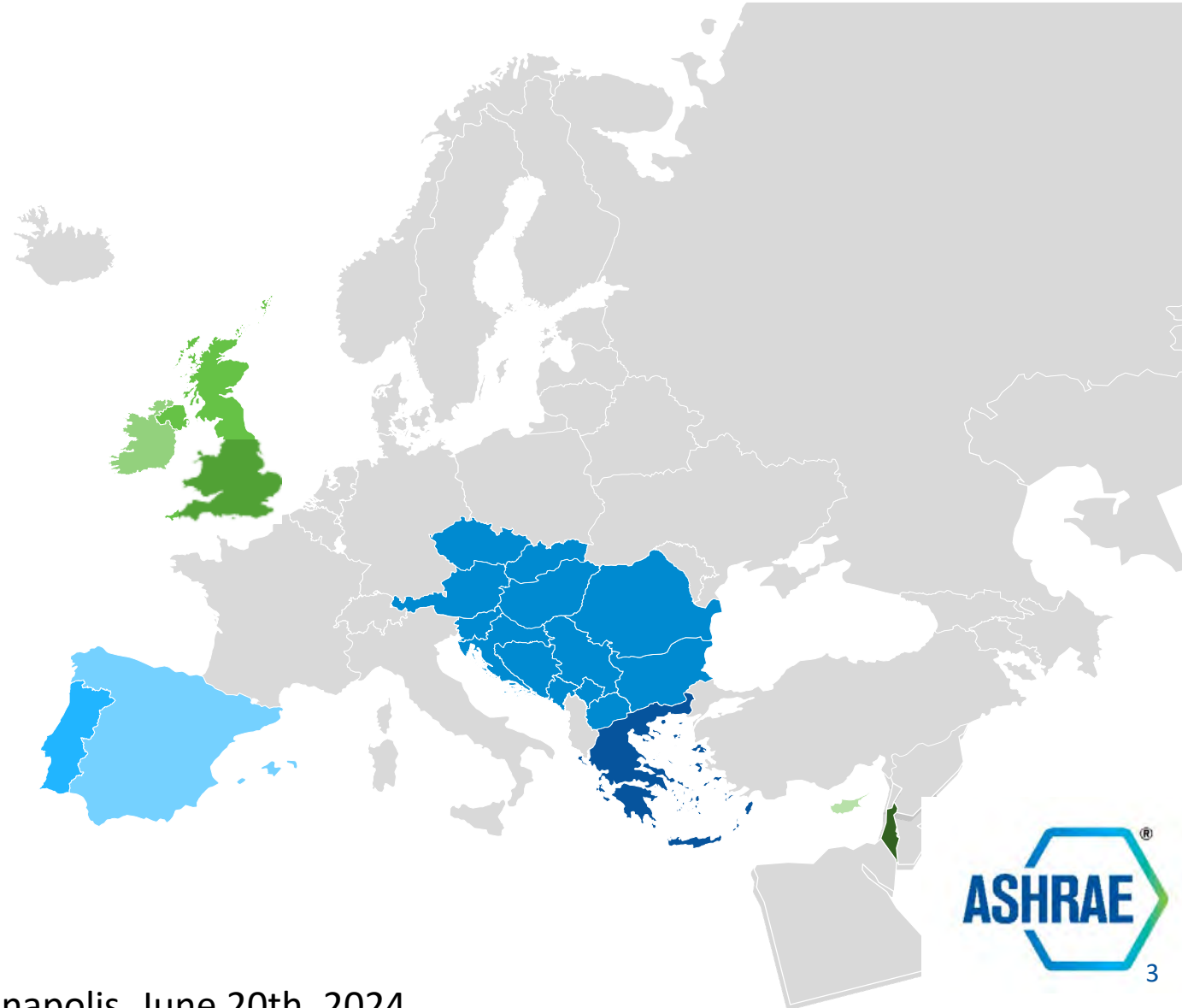
Associate professor at the Faculty of Architecture from the “Politehnica” University of Timisoara since 1993.



- 1993 – Member of AIIR- Romanian Association of Building Services Engineers
- 2007-2016 - Vice President of AIIR - Romanian Association of Building Services Engineers
- 20216-2020 - Prime Vice President of AIIR - Romanian Association of Building Services Engineers
- 2020 -2024 President of AIIR - Romanian Association of Building Services Engineers
- 2007 – 2016 Vice President of REHVA - Federation of European Heating, Ventilation and Air Conditioning Associations
- Fellow REHVA
- From April 1th, 2004, member of the American Society of Heating, Refrigerating and Air-Conditioning Engineers,
- Secretary of ASHRAE Danube Chapter
- Region XIV – Europe, Member Council Representative of ASHRAE 2020-2023
- Regional Vice Chair Government Affairs - ASHRAE Region XIV Europe 2023-2026
- Fellow ASHRAE

The Region XIV

#	Chapter	GA Chair
168	Hellenic	✓
176	Danube	✓
177	Portugal	✓
182	Spain	✓
203	Cyprus	-
204	Ireland	✓
214	Israel	-
223	Ashrae UK	✓



Accomplishments – Current situation

GA Workshop – Virtual (10.7.2023 – around 11 Participants)

Discussion on how the Region can participate in ASHRAE’s effort to be more global

Total Assigned Members: 1329

#	Chapter	Area Assigned Members	GA Chair
168	Hellenic	30	Nikos Giannitsanos
176	Danube	94	Liviu Drughean
177	Portugal	171	Luis Neto
182	Spain	167	Juan Carlos de la Iglesia
203	Cyprus	83	(TBC)
204	Ireland	78	Edith Blennerhasset
214	Israel	193	Raanan Danon
223	Ashrae UK	513	Gary Middlehurst

GAC Indianapolis, June 20th, 2024



Region XIV

ASHRAE's Public Policy Priorities: SY 2023-2024 (PPP)

During Society Year 2023-2024, ASHRAE will focus on the following Public Policy Priorities, as approved by the Board of Directors:

- Support Sustainable Building Practices including Building Decarbonization to Mitigate Climate Change
- Promote Healthy Buildings and Reduce Indoor Environmental Risks
- Ensure the Orderly and Safe Phasedown of High-GWP HFC Refrigerants
- Advance Design and Construction of Resilient Buildings and Communities
- Support Adoption of the Latest Edition of ASHRAE's Energy Standards into Building Codes
- Strengthen and Increase Diversity in the HVACR Workforce



Goals for 2024

- ✓ **Establish communication with EU commission**
- ✓ **Development of relations and collaboration between ASHRAE and REHVA**
- ✓ **Engage more GA chairs to participate and achieve PAOE points**
- ✓ **All chapters to have GA chairs (1 chapters with no chair)**

GAC - RVC Report for Region XIV

E: STANDARDIZED RVC/ REPORTING FORMAT

The following information is compiled into a summary spreadsheet showing activity for each region. The spreadsheet is reviewed by GAC at each Society meeting.

RVC Report for Region XIV

ACTIVITY	Region XIV- GAC Report January, 3, 2024
CRC	
Total number of chapters in region	8
Number of chapters present	8
Number of GA chapter chairs present	7
Percentage of participation	100%
Percentage of GA chapter chair participation	87.5%
No. of planning sessions held	
- Technical Session	4
- Business Meeting	4
- Workshops, Nominating Training, Preparation of Motions, before CRC	8
PAOE	
	Please consult Note 1
No. of Chapters Reporting PAOE Points:	
No. of Chapters Making Society Minimum :	
No. of Chapters Making Society PAR :	
Highest PAOE Points by a Chapter:	
Percentage of chapters reporting	
Percentage of chapters making Society Minimum	
Percentage of chapters making Society PAR	
CHAPTER VISITS	
No. of visits made:	1
No. of visits scheduled:	1
Percentage of chapters visited:	100%
GAC AWARDS	
Government. Affairs Award	0
Government Outreach Days	
No. of Chapters Participating	TBD
No. of government officials visited	TBD
No. of ASHRAE members participating	TBD
No. of Chapters reporting	TBD
No. of days duration	TBD
	TBD

Note 1:

Region XIV filed Motion 34 regarding PAOE Training

Motion 34 is not yet closed, it is marked as “in progress”, and it will be “closed” if those attending the January 30 session are fully satisfied.

DRC - Mahroo Eftekhari and RMCR – Eduardo Maldonado decided the following::

- **EVERYBODY** (plus Chapter Officers): Attend the January 30th PAOE training session (**Delegates/Alternates: please notify all Chapter officers**)
- **ALL RVCs**: please **attend centralized training at either Chicago or Indianapolis** (or virtually, if offered, as last resort), and make sure you know everything you can and need about PAOE.
- **ALL RVCs**: please ensure that you **prepare a most effective PAOE training session for our 2024 CRC** (please remember that you should also be evaluated by that training... - motion 33!).
- **Chapter officers**: please **attend all (Regional and centralized) training sessions and do record all the PAOE relating to activities in your Chapter in a timely way.**

ASHRAE European Policy Update



<https://ashrae-ireland.org/2024/05/22/ashrae-european-policy-update-19/>

GAC Indianapolis, June 20th, 2024







ASHRAE Hellenic Chapter

ENERGY IN BUILDINGS NORTHERN HELLAS 2024

SATURDAY FEBRUARY 17, 2024 @ 9:00-18:00 | @ NIKOPOLIS HOTEL

GOLD SPONSORS

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ASHRAE Hellenic Chapter TEE

ASHRAE STANDARDS TECHNICAL SEMINAR

FRIDAY MAY 17, 2024
@ 17:00-21:30
@ GRAND HYATT

GOLD SPONSORS

SPONSORS







- The new Memorandum of Understanding ASHRAE - REHVA**
 - Meeting in Madrid
 - ASHRAE /REHVA working group
 - From ASHRAE
Dennis Knight - President, Bill McQuade - President-Elect,
Sarah Maston – Treasurer, Jeff Littleton - EVP
 - From REHVA
Cătălin Lungu – President, Livio Mazzarella - President Elect,
Lada Centnerova – Vice President
 - ASHRAE - will propose a draft MoU.
The content will be oriented towards concrete actions.
 - Future meetings of the working group
 - ASHRAE CRC Region XIV Oxford,
 - REHVA Brussels Summit,
 - 2025 ASHRAE Winter Conference Orlando
 - 2025 REHVA Clima Word Congress Milan.


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ASHRAE Ireland Chapter - Technical Webinar Sustainable HVAC Designs for Green Buildings

Panelist: Chandana N. Dalugoda, C.Eng, Managing Partner, Chandana Dalugoda Consultants

Chair: Howard Neville, Senior Building Services Engineer, PM Group

Date/Time: Thursday 11th April 2024 (1:00 - 2:00 PM)

Registration Link: <https://us06web.zoom.us/j/91911111111>

Enquiries: secretary@ashrae-ireland.org

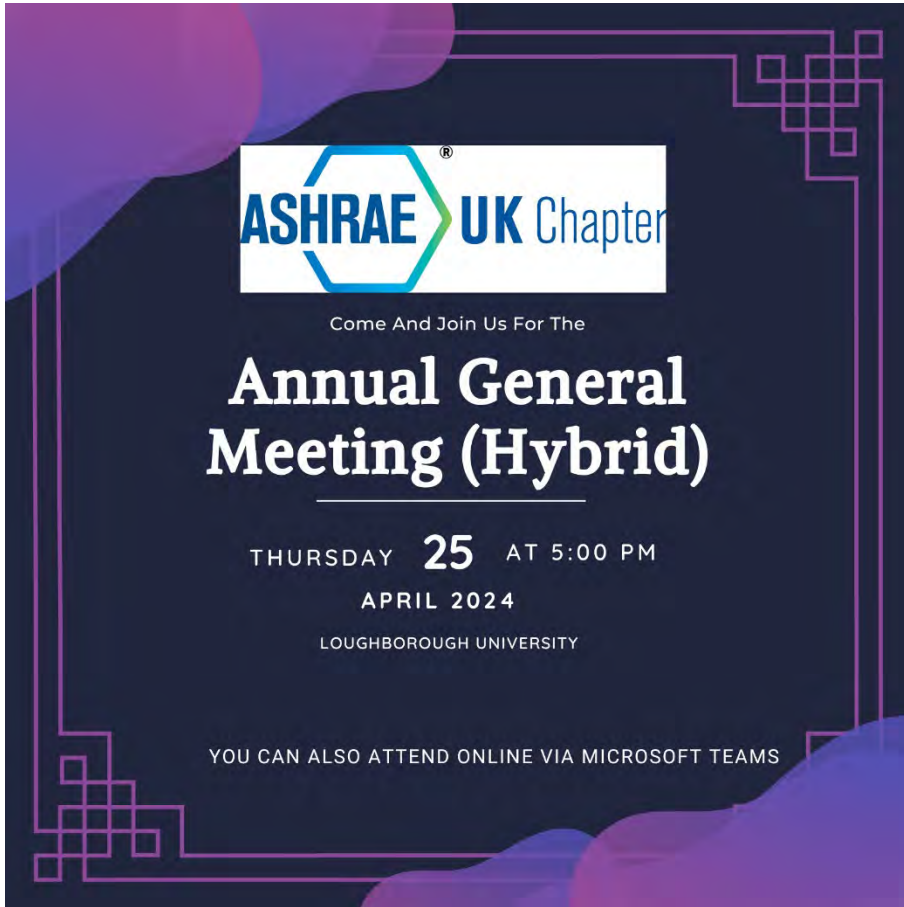
Green buildings are more and more popular in the present day for reducing energy in buildings. Green building certification such as LEED of USGBC & ASHRAE Green building standard 189.1 has become prime tools for achieving green building status. This presentation provides an overview of how to achieve sustainable HVAC designs for Green Buildings by complying with ASHRAE Standards 90.1, 189.1, 62.1, & 55.



About the Speaker: Chandana Dalugoda trained as an Air conditioning & Refrigeration engineer and qualified as a chartered engineer in 2006. His experience includes designs, installations, commissioning and maintenance of HVAC & R systems. As a HVAC Consultant, his responsibilities have ranged from detailed designs, preparation of drawings, site supervision and commissioning of HVAC systems. He is a ASHRAE Fellow, member of CIBSE, Fellow of IESL & Member of Consulting Engineers Association of Sri Lanka. He is actively engaged in the Institution of engineers (IESL) voluntary programmes. He has authored articles and papers (8 articles) for the IESL and many articles for ASHRAE Sri Lankan Chapter. He is a recipient of 2015 ASHRAE Chapter Service Award & 2015 ASHRAE Regional Award of Merit. He was appointed as ASHRAE Distinguished Lecturer on July 1, 2011 and continuing to date.

ASHRAE Ireland Chapter Sponsors:





ASHRAE UK Chapter

Come And Join Us For The

Annual General Meeting (Hybrid)

THURSDAY **25** AT 5:00 PM
APRIL 2024
LOUGHBOROUGH UNIVERSITY

YOU CAN ALSO ATTEND ONLINE VIA MICROSOFT TEAMS



ASHRAE UK Chapter



Ginger Scoggins
ASHRAE President
2023-24

Building Services Exhibition and Technology Awards 10th May 2024



ASHRAE UK Chapter

A Key Strategy in Decarbonization: Optimizing the Design of Radiant Cooling and Heating Systems for High Temperature Cooling and Low Temperature Heating.

10th April 2024 | 18:00 – 19:00 GMT



ROBERT BEAN

Director of www.healthyheating.com, and
Founder of Indoor Climate Consultants Inc

Online event Register now



<https://www.ashrae.uk/ashrae-region-xiv-crc-2024/>

 Technical University of Civil Engineering Bucharest
  Politehnica University Timisoara
  Technical University of Cluj-Napoca
  Technical University "Gheorghe Asachi" Iasi
  Transilvania University Brasov


 National Conference of the Romanian Association of Building Services Engineers

CN AIIR 2024

59th Edition

EXPO

MAIN PARTNERS





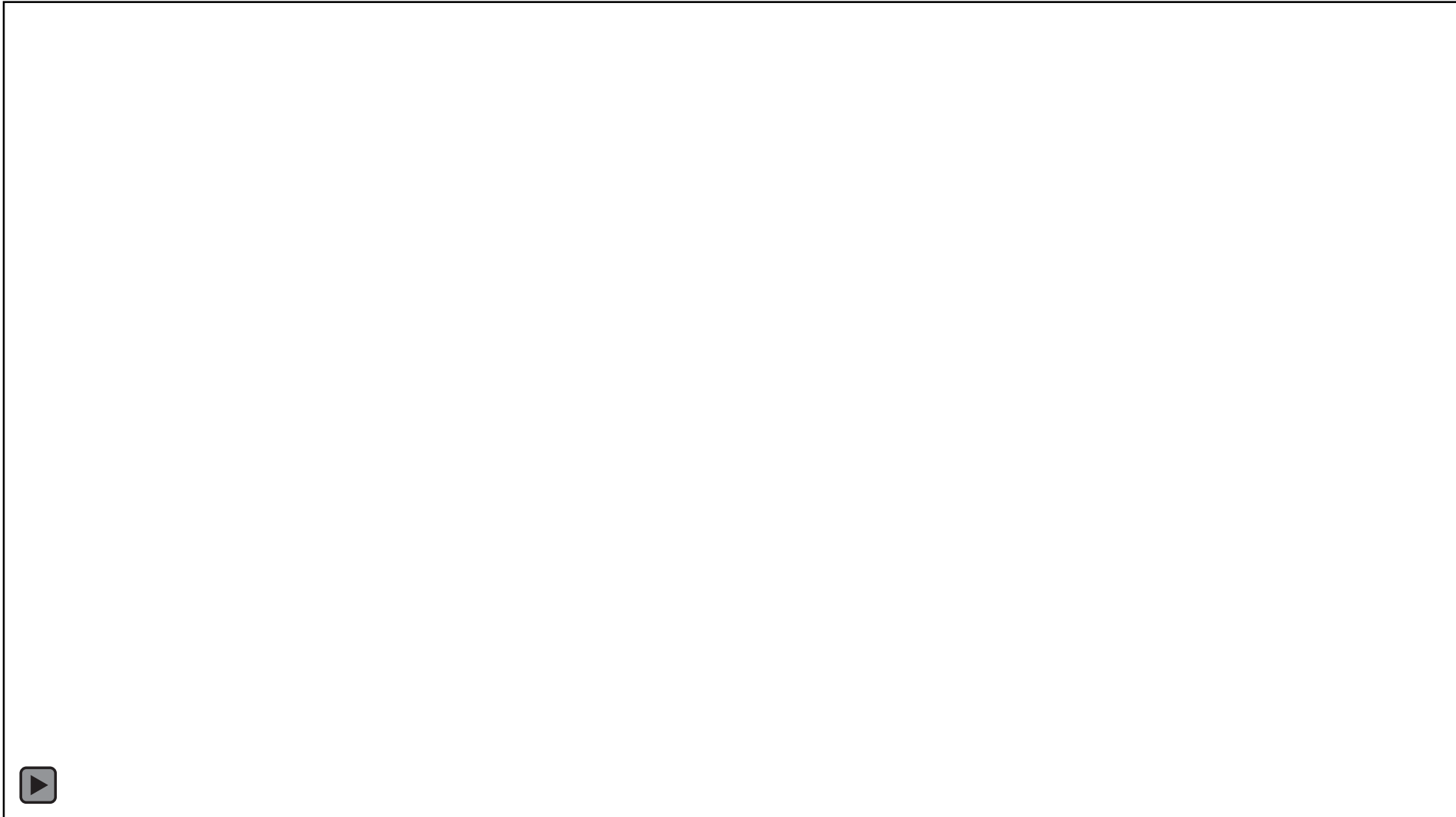
14-15 OCT. 2024
Casino, Sinaia, Romania

A Shift of Paradigm for Decarbonization and Professional Skills with Catalyst Role for Sustainable and Healthy Buildings

INSTITUTIONAL PARTNERS

Contact: aiiro.ro, +4021.252.42.95, office@aiiro.ro, presedinte@aiiro.ro







Dr. Eng. Ioan Silviu DOBOȘI
Regional Vice Chair Government Affairs - ASHRAE Region XIV Europe

Thank You for your attention !



Region-at-Large
"Where Things Happen"

ASHRAE Region at Large

GAC (Summer Meeting) 2024

RVC Bio:

Ahmed M. Bolbol

Consulting Engineer

Cairo, Egypt

Chapter 211 Pyramids

GA Chapter Chair *2014/2017*

Chapter President *2023/2024*

**Second Year of 3 Years GA RAL RVC Term
*2022/2025***



SUB REGION 01



Region-at-Large
"Where Things Happen"

SUB REGION 02

- Alexandria
- Bahrain
- Cairo
- Central Pakistan
- Faisalabad
- Jordan
- Kuwait
- Lebanon
- Libya
- Nigeria
- Northern Pakistan
- Oman
- Pakistan
- Pyramids
- Qatar
- Saudi Arabia
- South Africa
- Sudan
- Turkey
- UAE (Falcon)
- Ghana



- Bangalore
- Bangladesh
- Chandigarh
- Chennai
- Deccan
- East India
- India
- Mumbai
- Pune
- Rajasthan
- Sri Lanka
- Western India



Report for the CRC 2023 – Sri Lanka

The following information is compiled into a summary spreadsheet showing activity for each region. The spreadsheet is reviewed by GAC at each Society meeting.

RVC Report for Region **RAI**

ACTIVITY	
CRC	
Total number of chapters in region	32
Number of chapters present	26
Number of GA chapter chairs present	15
Percentage of participation	81%
Percentage of GA chapter chair participation	55%
No. of planning sessions held	2
PAOE	
No. of Chapters Reporting PAOE Points:	10
No. of Chapters Making Society Minimum :	5
No. of Chapters Making Society PAR :	2
Highest PAOE Points by a Chapter:	Pyramids
Percentage of chapters reporting	38%
Percentage of chapters making Society Minimum	16%
Percentage of chapters making Society PAR	6%
CHAPTER VISITS	
No. of visits made:	3
No. of visits scheduled:	5
Percentage of chapters visited:	60%
GAC AWARDS	
Government Affairs Award	0
Government Outreach Days	
No. of Chapters Participating	12
No. of government officials visited	40
No. of ASHRAE members participating	82
No. of Chapters reporting	4
No. of days duration	14



Regional Accomplishments:

- ✓ ASHRAE with ISO organization meeting with Egyptian standardization and quality authority
- ✓ Mumbai chapter has an outreach with minister of environment for environmental discussion
- ✓ Pyramids Chapter had many number trainings for technicians with UNEP and Ozon unit authority
- ✓ Falcon, Pakistan, Central Pakistan, Faisal Abad and Nigeria chapters

Cooperation between GAC and other committees to reach the goals of PAOE



International Organization meeting ISO

بمشاركة أمين عام منظمة الأيزو الدولية ISO
« هيئة المواصفات والجودة » نشارك
في جلسة نقاشية بإتحاد الصناعات المصرية



**ISO, ASHRAE and Egyptian Standardization
and Quality Authorities**



(Mumbai Chapter Activities)

**GOE with ministry
of environment**



(Pyramids Chapter Activities)



UNEP technicians training program with OZON authority

Falcon, Central Pakistan, Faisalabad & Nigeria Chapters




TALK
**COOLING THE ARAB GULF:
 HOW AIR-CONDITIONING
 CHANGED EVERYTHING**

NOV 1
 6:30 PM - 8:00 PM
 NYUAD INSTITUTE

MODERATED BY
Amr Adel Galal
 Chapter President of
 ASHRAE Falcon (UAE)



Marwa Koheji
 Humanities Research Fellow,
 NYUAD



FREE WEBINAR

Jointly Organized By  

Supported By   

Christiane Lacerda
ASHARE DL



Christiane Lacerda is a chemical engineer, graduated from the Federal University of Rio de Janeiro. She has over 27 years of experience in the chemical treatment and water analysis industry. She holds a Master of Business Administration in Strategic and Economic Business Management. She is an Air Quality and Pollution in Indoor Environments (PECE/USP) specialist and also has large experience in chemical treatment and laboratory analysis of water, indoor air and effluents.

TOPIC: WATER CONDITIONING FOR USE IN COOLING SYSTEMS

This presentation addresses important concepts from the perspective of water that is used in cooling systems, as well as important precautions that the operation must take to avoid corrosion, incrustation and microbiological growth. The topic is presented from the perspective of ASHRAE's Handbook Applications (Water treatment: deposition, corrosion and biological control) - Chapter 50.

Date & Time: Dec 21st, 2023 at 18:00 hours Pkst

Join Zoom Meeting
<https://us06web.zoom.us/j/88570429863pwd=sevQdSSNQjr89xGByxTyeDg4TrUcgy.1>

Meeting ID: 885 7042 9863
Passcode: 253278

For More Information
0313 5279971
Farhan khokhar

Organized by:  

TECHNICAL SEMINAR ON
Green Building Concept Can
Reduce HVAC Load Significantly

14th DEC, 2023 | 5:30pm



Ananta Ahmed
 B.A.L. Regional Lecturer
 International Green Building Expert
 USGBC Faculty, LEED AP BD+C, LEED AP EB O+M, LEED AP
 ID+C, LEED AP HOME, LEED AP ND, Principal Consultant &
 Managing Director, 360 Total Solution Limited (360 TSL)

Head Quarter: Pakistan HVACR Society
 Suite # 7-B, 1st Floor, Shaukat Centre,
 F-8 Market, Islamabad 951-2287560-1

USA CPD Points for ACE Registered Engineers
 For Registration Contact: **Mr. Farhan Khokhar**
 +91 313 5279971
www.aaltr.com








**Engagements
 between GAC
 and CTTC
 committees**



Things to do

- 1) Trying to have better reports from the GAC Chapters chair
- 2) Two on-time meetings for each quarter
- 3) Encourage the chairs to attend the training in CRC
- 4) To have a GA chair in each chapter with at least two CO Chair
- 5) Concentrate on world decarbonization and PPP issues



Lessons Learned

- 1) More support for struggle chapter (Libya, Sudan, Lebanon, South Africa ... etc.)
- 2) Be sure that each chapter has a complete GA committee
- 3) Increase the (Go-To-meeting) specially for reporting.
- 4) Interacting between the GA activities with other committee and increase the outreach attendance.



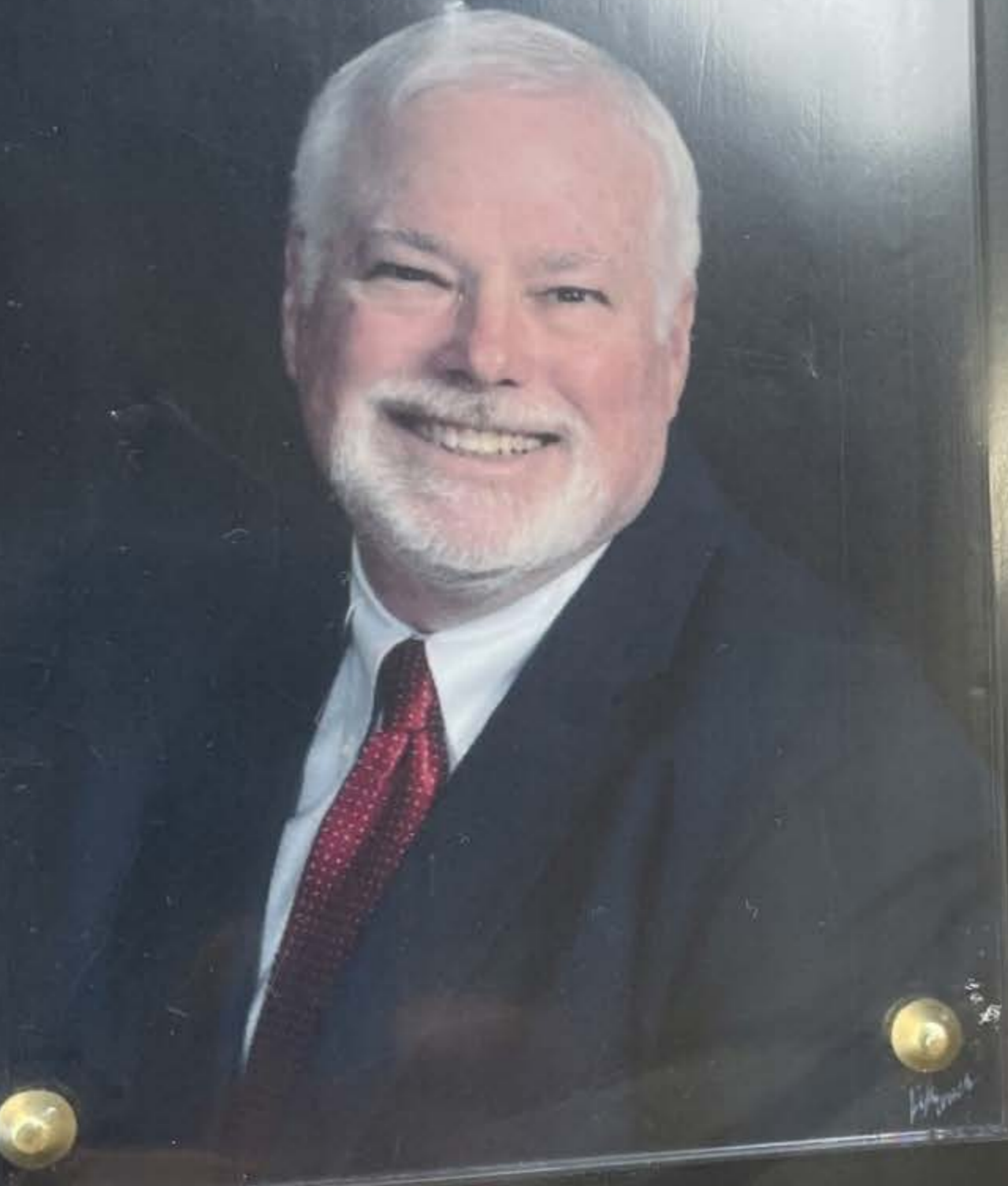
The Dave Palty
GAC Service Award

2023 - 2024

Presented To

TIMOTHY THERIAULT

In Recognition Of
Outstanding Overall
Efforts On ASHRAE's
Government
Affairs Committee





Shaping Tomorrow's Built
Environment Today

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2024 ASHRAE Annual Conference

June 22-26, 2024 | Indianapolis, IN

LEADERSHIP PRESENTATION

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.

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.

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.

SOCIETY SNAPSHOT



MARKETING CENTRAL

A template created by ASHRAE was shared with you, start designing now



Use template



Logos & Branding Guide
Flyers | Brochures | Presentations |
Graphics | Canva Templates



Submit feedback via the Strategic Plan Feedback Form on ASHRAE'S homepage.

[Submit](#)

The Planning Committee and ASHRAE Board of Directors are seeking feedback regarding the next Strategic Plan.

We are looking for your feedback on:

- High-priority industry topics
- ASHRAE products and services
- ASHRAE's industry impact

The new ASHRAE Strategic Plan is to be announced at the **2025 Winter Conference.**

ASHRAE Board of Directors



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Manlius, New York

Region II



Genevieve Lussier
Quebec, Canada

Region III



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LEED AP** Westminster, Maryland

Region IV



Bryan Holcomb
Oak Ridge, North Carolina

Region V



James Arnold, P.E.
Dublin, Ohio

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Susanna Hanson
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Region X



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Tucson, Arizona

Region XI



Rob Craddock
Saskatchewan, Canada

Region XII



John Constantinide, P.E.
Merritt Island, Florida

Region XIII



Cheng Wee Leong, P.E.,
Singapore

Region XIV



Mahroo Eftekhari, CEng., DPhil
Loughborough, UK

Region XV



Richie Mittal, Fellow ASHRAE
New Delhi, India

Region-at-Large



Bassel Anbari, P.E.
Abu Dhabi, United Arab Emirates

ASHRAE Directors at Large



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Clarendon Hills, Illinois



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Government Affairs



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GOVERNMENT OUTREACH



Get Involved!

GOVERNMENT AFFAIRS UPDATE



BI-WEEKLY NEWSLETTER

Sign up online or email
GovAffairs@ashrae.org

LETTERS & TESTIMONY

ASHRAE
180 Technology Parkway, NW • Peachtree Corners, GA 30092-2977 • Tel: 404.636.8400 • Fax: 404.321.5478

Ginger Scoggins
2023-2024 ASHRAE President

November 17, 2023

California Energy Commission
Docket Unit, MS-4
Docket No. 22-BSTD-01
715 P Street
Sacramento, California 95814

Sent via email to: docket@energy.ca.gov

RE: Docket 22-BSTD-01: 2025 Update to California Energy Code

Dear Chair Hochschild and Commission Members:

Thank you for the opportunity to comment on Docket 22-BSTD-01, California's proposed 2025 Building Energy Efficiency Standards.

ASHRAE is a technical and professional society with a mission to serve humanity by advancing the arts and sciences of heating, ventilation, air conditioning, refrigeration and their allied fields. Our more than

THE COUNCIL 09/27/2023
gov Committee on Health

Research: Supporting ASHRAE's Mission



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Society Year 2023-2024



\$2.8M Research Promotion Campaign
(Research, YEA, ALI, Scholarships, General)



\$1.4M Raised for Endowments



\$232,100 Awarded through
52 Scholarships



\$2M Raised for Research



\$53,000 Raised by College
of Fellows and Life Members Club



\$1M Given by ASHRAE
Regions, Chapters and Sections

More than 4,000 contributions from Members, Organizations and other Associations

These numbers are projections. Actuals will be announced in July.



New Year, New Name!

Starting July 1, the Task Force for Building Decarbonization will be called:

Center for Excellence in Building Decarbonization (CEBD).

Coming this Fall: Training On the Grid Guide and Hospital Guide

Now Available in Spanish



STANDARD

ASHRAE Standard 241-2023

Control of Infectious Aerosols

Approved by the ASHRAE Standards Committee on June 24, 2023.

This Standard is under continuous maintenance by a Standing Standard Project Committee (SSPC) for which the Standards Committee has established a documented program for regular publication of addenda or revisions, including procedures for timely, documented, consensus action on requests for change to any part of the Standard. Instructions for how to submit a change can be found on the ASHRAE® website (www.ashrae.org/continuous-maintenance).

The latest edition of an ASHRAE Standard may be purchased from the ASHRAE website (www.ashrae.org) or from ASHRAE Customer Service, 180 Technology Parkway, Peachtree Corners, GA 30092. E-mail: orders@ashrae.org. Fax: 678-539-2129. Telephone: 404-636-8400 (worldwide), or toll free 1-800-527-4723 (for orders in US and Canada). For reprint permission, go to www.ashrae.org/permissions.

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This standard includes links to online supporting files.

First of Its Kind



STANDARD

ANSI/ASHRAE Standard 228-2023

Standard Method of Evaluating Zero Net Energy and Zero Net Carbon Building Performance

Approved by the ASHRAE Standards Committee on February 4, 2023; by the ASHRAE Board of Directors on February 8, 2023; and by the American National Standards Institute on March 8, 2023.

This Standard is under continuous maintenance by a Standing Standard Project Committee (SSPC) for which the Standards Committee has established a documented program for regular publication of addenda or revisions, including procedures for timely, documented, consensus action on requests for change to any part of the Standard. Instructions for how to submit a change can be found on the ASHRAE® website (www.ashrae.org/continuous-maintenance).

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PDF includes hyperlinks for convenient navigation. Click a reference to a section, table, figure, or equation and jump to its location in the document.



Newly Updated for 2024

STANDARD

ANSI/ASHRAE/IES Standard 100-2024
(Supersedes ANSI/ASHRAE/IES Standard 100-2018)
Includes ANSI/ASHRAE/IES addenda listed in Appendix N

Energy and Emissions Building Performance Standard for Existing Buildings

See Informative Appendix N for approval dates by ASHRAE, the Illuminating Engineering Society, and American National Standards Institute.

American National Standards InstituteThis Standard is under continuous maintenance by a Standing Standard Project Committee (SSPC) for which the Standards Committee has established a documented program for regular publication of addenda or revisions, including procedures for timely, documented, consensus action on requests for change to any part of the Standard. Instructions for how to submit a change can be found on the ASHRAE® website (www.ashrae.org/continuous-maintenance).

The latest edition of an ASHRAE Standard may be purchased from the ASHRAE website (www.ashrae.org) or from ASHRAE Customer Service, 180 Technology Parkway, Peachtree Corners, GA 30092. E-mail: orders@ashrae.org. Fax: 678-539-2129. Telephone: 404-636-8400 (worldwide), or toll free 1-800-527-4723 (for orders in US and Canada). For reprint permission, go to www.ashrae.org/permissions.

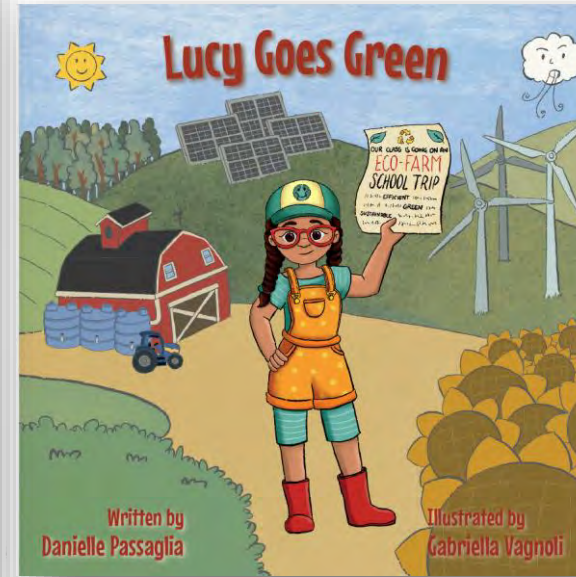
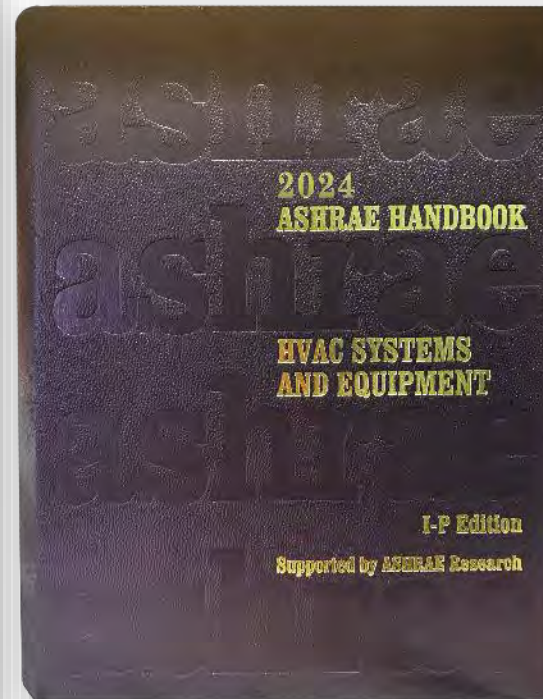
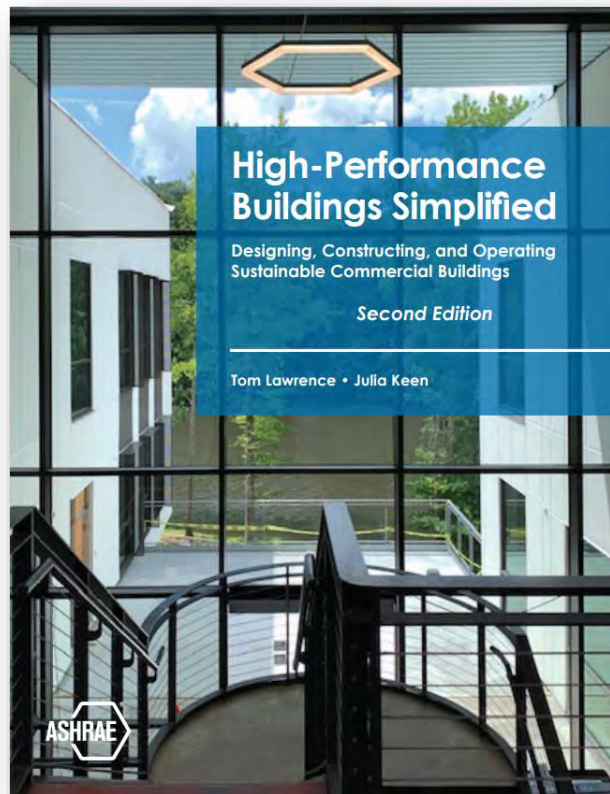
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Illuminating
ENGINEERING SOCIETY

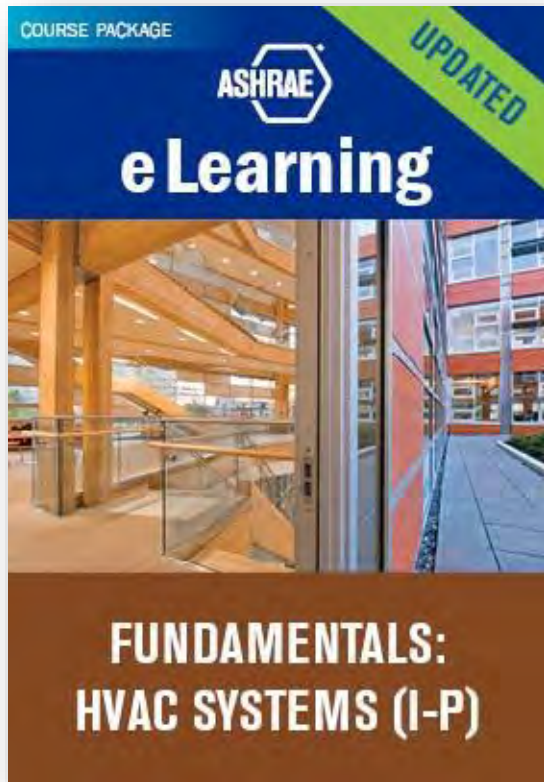


Get the Latest and Greatest Publications from 2024



eLearning

Recently Updated



ASHRAE Learning Institute

New Trainings in Indianapolis Standard 241 Control of Infectious Aerosols



Understanding Standard 241
June 25 | 9 AM

Applying Standard 241
June 25 | 1 PM

Certification

New Certification



2024-25 Topical Conferences



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Chicago, September 26-27, 2024
Women in ASHRAE Leadership Symposium



Beirut, Oct 3-4, 2024
The Sixth International Conference on
Efficient Building Design



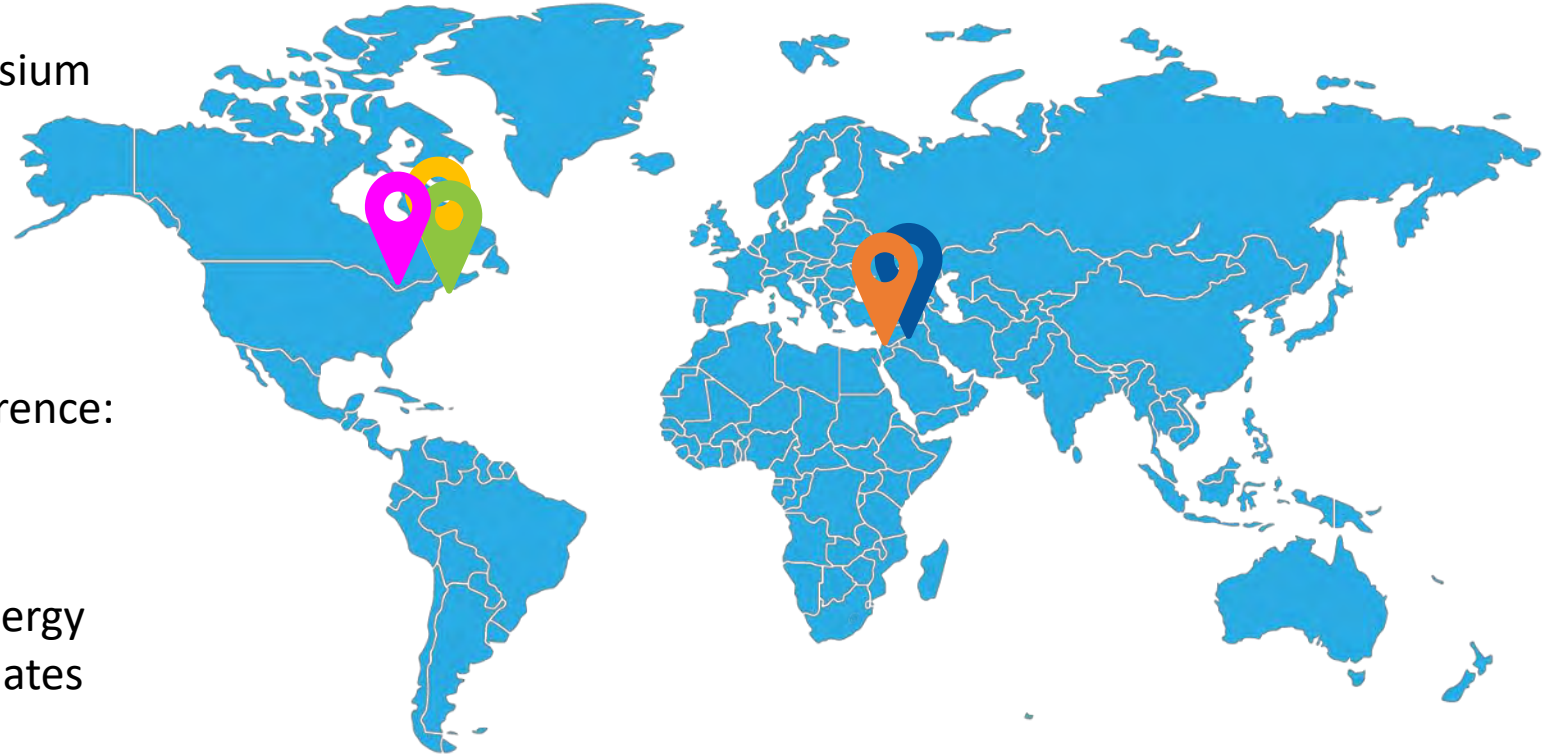
New York City, October 21-23, 2024
2024 ASHRAE Decarbonization Conference:
Decarbonizing Existing Tall Buildings



Qatar, April 23-24, 2025
Third International Conference on Energy
and Indoor Environment for Hot Climates



Montreal, September 24-26, 2025
IEQ 2025 Conference



Check the App for the CIDCO sessions happening this week!

2025 ASHRAE Winter Conference



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2025 ASHRAE WINTER CONFERENCE

ORLANDO, FEB 8-12 | AHR EXPO, FEB 10-12

Registration opens in fall 2024. See you in Orlando!

New ASHRAE Region XV



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Director and Regional Chair: **Bassel Anbari**



Director and Regional Chair: **Richie Mittal**

Get Involved with Committees & Chapters



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Find Committees and Nominate Yourself or Others

**FEB
2024**

February: Nominations for appointed committees are due.

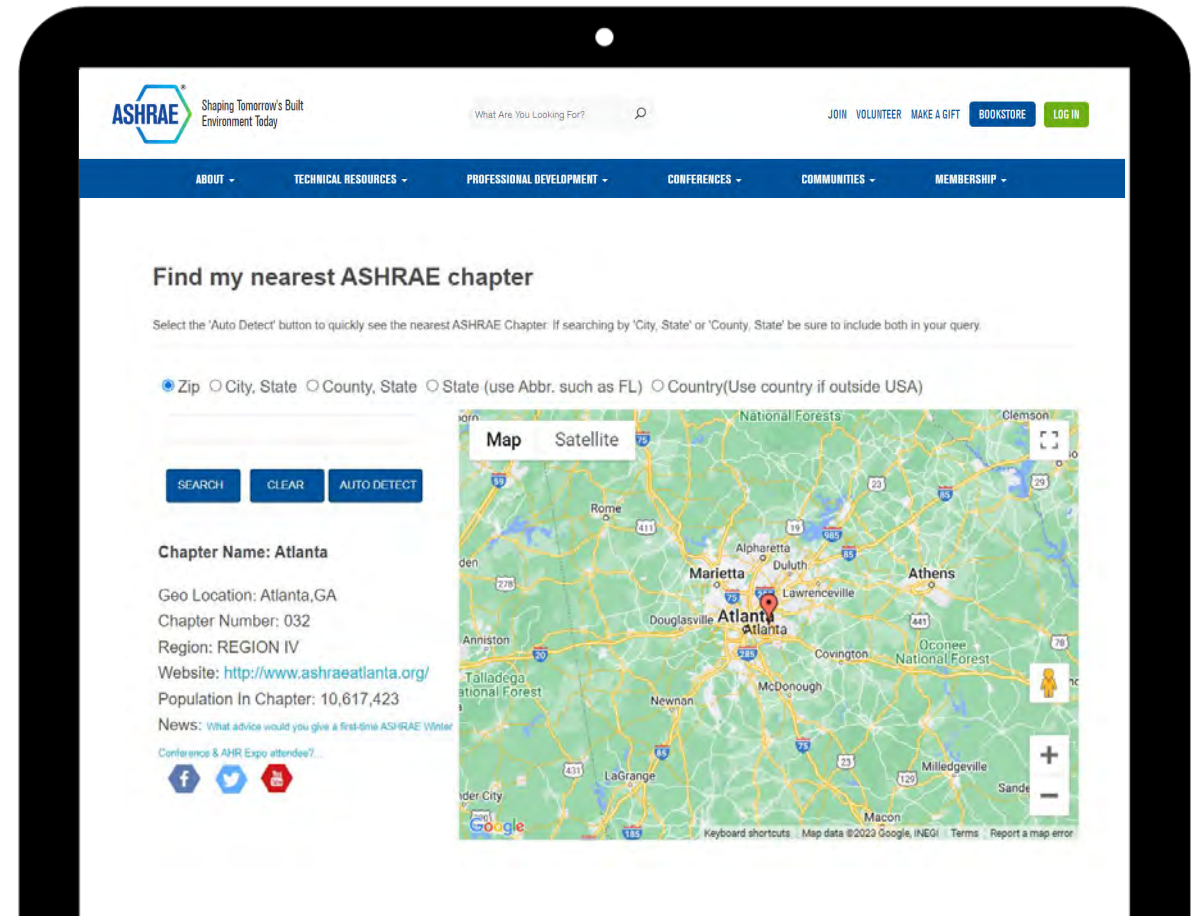
**JUN
2024**

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

**SEP
2024**

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

Find Chapter Information Using the Chapters Map



Membership



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NEW Benefit!

ASHRAE Guidelines added to annual membership benefit selection for new & renewing full dues paying members.

eLearning Course  95+ to choose from	ASHRAE Standard or Guideline  100+ to choose from	ASHRAE Handbook  PDF version of the most recent	Handbook Online  4 most recent	ASHRAE Certification Exam Study Guide  3 to choose from
--	---	---	--	---

Honors & Awards

The following award nominations have a **DEC 1** deadline:

Fellow | Honorary Member | ASHRAE Hall of Fame | F. Paul Anderson Award
ASHRAE Pioneers of the Industry | ASHRAE Award for Distinguished Public Service

Join Us at the President's Luncheon



Empowering Our Workforce: Building a Sustainable Future

Monday, June 24

12:15 – 2:00 PM

Tickets available at Registration

**2024-25 ASHRAE President
Dennis Knight, P.E., BEMP, Fellow ASHRAE**

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.

Thank you!
Questions or Comments?



Status Update on MBO No. 7: Improve the Effectiveness of the Government Affairs Website

Sonya M. Pouncy, Communications Coordinator
Government Affairs Committee

June 21, 2024

2024 SUMMER MEETING

UPDATE FROM THE GAC COMMUNICATIONS COORDINATOR



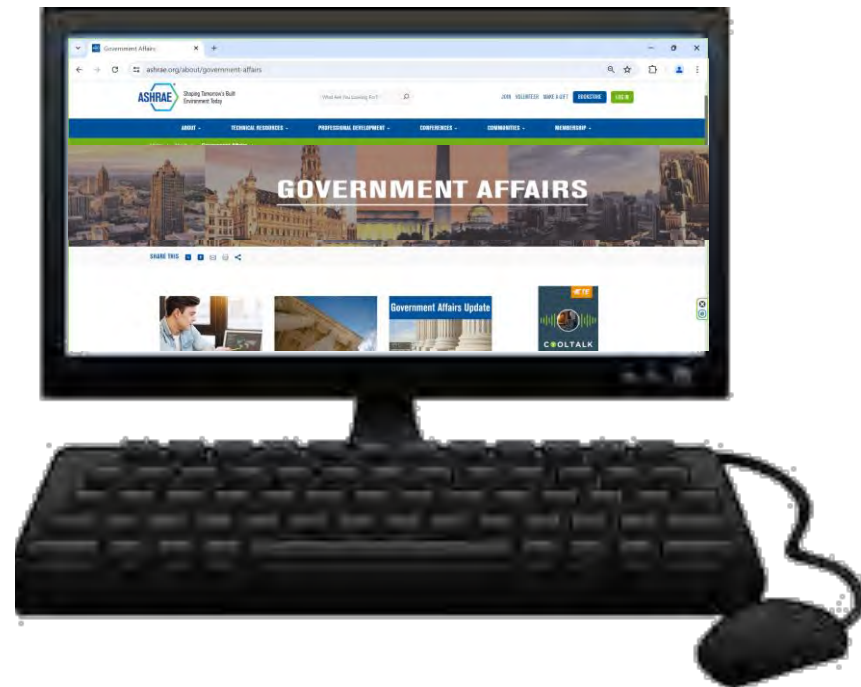
MBO No. 9: Work with other relevant ASHRAE bodies to share needs from gov't officials and how ASHRAE can better communicate via the web and social media

Improve access to local and regional GAC leadership.

- We have reached out to the PAOE lead from GAC to explore the use of PAOE points to incentivize the regular update and use of ASHRAE email aliases for SY **24-25**.
- Planned updates to the GAC Chapter Chair training presentations will be done after the conference but before the summer/fall CRCs.
- In early discussions with staff about establishing a Basecamp working space for GAC RVCs and Chapter Chairs.

Increase the information pertaining to activities and opportunities internationally.

- Currently in conversation with Denton Global Advisers, who provide monthly content for ASHRAE's European page, to also provide content for an African Policies Update page.
- Initially, African updates would be quarterly and focus on countries where we have chapters and sections and later expand from there.
- Because there is no requirement for a residency office, scope of services will differ from that provide for the EU. Draft scope and budget pricing forthcoming.



Members Council Report to the GAC committee

- 1- 10 student chapters have been approved: three in Region XIV, One in Region VII, One in Region IX, One in Region XIII, and Four in the RAL
- 2- The standing committee chair is a voting member of the Members Council; Members Council MOP changes
- 3- 2023-2024 Members Council MBOs are mostly completed, and updates are posted on the MBO tracker
- 4- Changes to the CRC manual by adding a checklist of items to check while preparing for the CRC
- 5- Appendix 11G of the MCO chapter health assessment is revised to provide a better picture of the chapter operation and health of the chapter
- 6- Updated Section 2C of the Region Operations Manual to reference Section 6 in the Members Council Manual of Procedures that details the role of the RMCR
- 7- Updated the chapter operation workshop presentation/ training
- 8- The Member Council and the subcommittees have been addressing many motions. Refer to <https://crcmotion.ashrae.org/> for updated

Report of Publishing and Education Council (PEC) representative to
*Government Affairs Committee (GAC) – GAC Executive Subcommittee and
Full Meeting, ASHRAE Annual Conference, Indianapolis, IN – June 21, 2024
(DRAFT)*

ASHRAE Global Training (AGT)

ASHRAE has a fervent desire to continue our presence in the Middle East/North Africa (MENA) and serve our global audience. PEC is looking at the current operations and a sustainable long-term strategic plan. AGT is now formally under Training and Education Committee (TEC) who is a subcommittee to PEC. There was a request of \$40,000/year for three years to ASHRAE Foundation to support this endeavor. *GAC Focus* - *The strategic plan involves greater involvement with MENA governments to provide training and education.*

CEBD Transition Plan

New ASHRAE acronym – CEBD – Center of Excellence in Building Decarbonization (CEBD)

A new CEBD was formed and approved by the BOD for implementation on July 1, 2024. PEC and the other two councils through representatives will liaise with CEBD. *GAC Focus – Informative Only*

Industry Roundtables

PEC continues to conduct multiple industry roundtables (RTs). These RTs are hosted by the Jr. Vice President, local DRC, and a local Industry Champion, and involve up to ten members from the local industry. At each Winter and Annual meeting, PEC Products and PEC Professional Development Subcommittees will include RT Roundtable/Potential New Products discussion on their agendas. *GAC Focus* – *The RTs are very well attended by local government officials.*

Historical

There is an ongoing effort to preserve and promote, through digitization, our now 130-year history. ASHRAE is now part of the Engineering and Technology History Wiki (ETHW) along with other partner societies. *GAC Focus – Informative Only.*

Publications

There is an effort to identify international markets for ASHRAE publications (not just for translations). This included identifying international experts who can modify and adapt current publications to local codes and market requirements. *GAC Focus – Technical Information Sharing to Governments Across the Globe, ASHRAE's Influence*

The committee review current market trends and create an action plan for transitioning from print to digital publication in alignment with the market. The scope includes all publications, except Standards and Handbook. *GAC Focus - Member Benefit*

Certification

The **Certified Decarbonization Professional (CDP)** certification is under development by the Certification Committee and on track to administer the first CDP certification exams in June, 2024. *GAC Focus - Member Benefit*

Report of Publishing and Education Council (PEC) representative to
*Government Affairs Committee (GAC) – GAC Executive Subcommittee and
Full Meeting, ASHRAE Annual Conference, Indianapolis, IN – June 21, 2024*
(DRAFT)

Handbook

ASHRAE's current position is not to use generative Artificial Intelligence (AI) when editing, revising, creating, or modifying the ASHRAE Handbook volume chapters. This is in line with our society policy on AI. *GAC Focus – Informative Only.*

The Handbook Online has generated \$20K for the first half of the year, with over 7600 users currently. These numbers will increase as members' make this their benefit of choice for the future. *GAC Focus – Member Benefit for Government Employees and Partner Associations*

Current Public Review Draft Standards *GAC Focus* - Informative Only

The link to the latest public review drafts - <https://osr.ashrae.org/default.aspx>

Highlights of my GAC Report to PubED

1. Government Outreach Events
2. Public Policy Issue Briefs (PPIBs)
3. Translation of ASHRAE Standards, Publications and PPIBs for government advocacy.
4. Subject Matter Experts for government outreach and events.
5. Request for key updates on new publications and training/education offerings.

Follow Up on Requests from GAC to PubED – Will provide update to PubED at this Annual meeting.

To PubED: Coordinate with ASHRAE staff on GAC MBO#9 which is centered around the ability for government officials to make technical requests, submit comments and ideas to ASHRAE.

Respectfully submitted,

Jason Alphonso, PE

PEC Member

GTIC SCOPE AND PURPOSE

The Global Technical Interactions Committee (GTIC) shall be responsible for harnessing the technical resources of ASHRAE to influence international standards and maximize the global impacts of ASHRAE standards, guidelines, and other technical work products on the practice of HVAC&R and the built environment. This includes developing, implementing, and managing processes that enable information flow and coordination between chapters, technical committees, standard project committees, and international technical advisory groups. This committee shall inform the ASHRAE leadership and membership of the potential impacts of the activities and making recommendations on new activities and policies in response.

Region and Chapters Interactions Subcommittee

Survey for chapters and members was sent out May 13
<https://www.surveymonkey.com/r/GPQNWNP>

Technical Committees Interactions Subcommittee

Presentation on TC chair breakfast

Project Committees Interactions Subcommittee

Presentation on PC chair breakfast.

Group standards to identify common steps

ASHRAE SY24-25 Public Policy Priorities

Recommendation for Board and ExCom Approval

Motion: That the Government Affairs Committee approves the attached ASHRAE Public Policy Priorities for SY24-25.

Background:

The Rules of the Board states in Section 2.402.003.3 that the GAC “annually will develop a list of proposed public policy priorities addressing significant current issues and will submit to ExCom and the Board of Directors for approval and as an information item to Members Council.”

The GAC discussed revisions and updates to the Public Policy Priorities (PPPs) during its May 20 planning meeting. Several opportunities were provided for input prior to this meeting. A smaller task team led by Sheila Hayter edited the attached draft final document.

In comparison to the SY23-24 PPPs, the key changes (in addition to updates to references and some language changes) are:

- Priorities are re-ordered such that Workforce appears first on the second page to highlight this policy priority;
- The Workforce bullet point was updated to reflect the new Presidential theme;
- Electric-ready building requirements are mentioned in the first section as follows:

For existing buildings, ASHRAE supports the deployment of decarbonization technology such as next generation heat pumps, the adoption of stretch codes, building performance standards ([Standard 100](#)), electric-ready building requirements, and building benchmarking and labeling requirements.

- Ultra-low GWP refrigerants are included in the third bullet point as follows:

Where ultra-low GWP refrigerants are being applied, ASHRAE’s priority is to ensure the transition to these refrigerants be managed so that they are used safely, efficiently, and cost-effectively.

Fiscal Impact: None.

Staff Impact: None. (Work has already been completed.)



Draft ASHRAE's Public Policy Priorities: SY 2024-2025

- Support Sustainable Building Practices including Building Decarbonization to Mitigate Climate Change
Buildings and their heating, ventilation, air conditioning and refrigeration (HVAC&R) systems directly and indirectly contribute to GHG emissions. Buildings are responsible for more than 35% of global primary energy use, 60% of global electrical energy use, and nearly 40% of energy-related greenhouse gas emissions worldwide. Eliminating greenhouse gas emissions from the built environment is essential to address climate change. Doing so will require recognizing buildings in the broader context of energy resources and additional demands on the electric grid. ASHRAE is advancing additional tools to support decarbonization across a building's entire life cycle, including building design, construction, operation, occupancy, and end of life. ASHRAE addresses emissions from building operation as well as those embodied in building materials and the construction process.

To advance building decarbonization, ASHRAE supports government adoption of robust building standards for new construction such as [ASHRAE Standard 90.1 \(commercial\)](#), [90.2 \(residential\)](#), [90.4 \(data centers\)](#), [189.1/IgCC \(high-performance green buildings\)](#), and [189.3 \(high-performance health care facilities\)](#). For existing buildings, ASHRAE supports the deployment of decarbonization technology such as next generation heat pumps, the adoption of stretch codes, building performance standards ([Standard 100](#)), electric-ready building requirements, and building benchmarking and labeling requirements.

To evaluate whether a building or group of buildings meet a definition of "zero net energy" or "zero net carbon," ASHRAE recommends governments use and refer to [ASHRAE Standard 228](#), *Standard Method of Evaluating Zero Net Energy and Zero Net Carbon Building Performance*.

- Promote Healthy Buildings and Reduce Indoor Environmental Risks
Supporting the health and well-being of building occupants is the most important feature of the indoor environment. Providing healthy, safe and comfortable indoor environments are essential building services that must be achieved alongside energy efficiency, sustainability, and resiliency. ASHRAE recommends that policymakers cite ASHRAE standards and guidance in legislation and policies to provide healthy levels of IAQ, reduce the risk of airborne pathogen transmission, and decrease hazards in building water systems. At a national or subnational level, model building codes should be developed referencing ASHRAE Standards such as [62.1 \(commercial ventilation and IAQ\)](#), [62.2 \(residential ventilation and IAQ\)](#), [170 \(ventilation of health care facilities\)](#), [241 \(control of infectious aerosols\)](#), [188 \(water system safety\)](#), and [55 \(thermal comfort\)](#) to support healthy, safe, and comfortable indoor environments.
- Ensure the Orderly and Safe Phasedown of High-GWP HFC Refrigerants
ASHRAE supports the global phasedown of the production and consumption of Hydrofluorocarbon (HFCs) refrigerants that have high-Global Warming Potential (GWP), including through legislation, regulations, and policy. Governments are mandating the near-term use of lower GWP refrigerants, which can have some flammability. [ASHRAE Standard 15-2022](#), *Safety Standard for Refrigeration Systems*, and [Standard 34-2022](#), *Designation and Classification of Refrigerants* should be adopted quickly to help ensure the safe use of these refrigerants. Where ultra-low GWP refrigerants are being applied, ASHRAE's priority is to ensure the transition to these refrigerants be managed so that they are used safely, efficiently, and cost-effectively.



- **Strengthen and Increase Diversity in the HVACR Workforce**

Strong education in science, technology, engineering, and mathematics (STEM) to develop the pipeline of engineers, scientists, and technicians is critical to our future well-being and standard of living. ASHRAE supports policies that strengthen STEM at all educational levels, including through use of ASHRAE's extensive educational offerings. Requiring the use of ASHRAE certification programs helps ensure professionals have the skills and knowledge to improve building performance. ASHRAE supports expanding the HVACR workforce pipeline by broadening the population from which engineers, scientists, and technicians are recruited, including from disadvantaged and under-resourced communities. For the existing workforce, ASHRAE supports equipping these experts with the technical skills to address the challenges and opportunities for sustainable and healthy built environments that serve humanity.

- **Advance Design and Construction of Resilient Buildings and Communities**

Resiliency is an important societal, economic, and technical issue that will have a major impact on how buildings are designed, renovated, and operated. For example, the increasing threat of wildfires has led ASHRAE to produce technical materials such as the [Planning Framework for Protecting Commercial Building Occupants from Smoke During Wildfire Events](#).

As investments are made to improve infrastructure, buildings should be included, as they are vital for protecting the public when natural and human-induced events occur. A building's ability to recover and be available to occupants following such an event can have widespread economic and health implications. In particular, up-to-date standards (e.g. ventilation, pathogen mitigation, energy efficiency) are essential elements of providing resilient buildings. Unfortunately, most states have not adopted the most recent standards and codes that are based on the latest research and technological innovation, which could make building occupants more vulnerable to disasters and disease transmission. ASHRAE's priority is that policies affecting building design and building codes are developed and implemented by qualified engineers and HVACR professionals as unbiased technical experts, to advance a built environment that is as safe, efficient and resilient as possible.

- **Support Adoption of the Latest Edition of ASHRAE's Standards into Building Codes**

Energy efficiency can be improved significantly through the adoption and effective implementation of the most recent version of [Standard 90.1](#), *Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings*, which has provided the minimum requirements for energy-efficient design in the United States for over 40 years. Residential buildings and data centers can also achieve improved performance, save energy costs, and reduce climate impacts when jurisdictions adopt [ASHRAE Standard 90.2](#) (residential) and [Standard 90.4](#) (data centers). The inclusion of ASHRAE's most current standards in building codes, rules, regulations, and laws enhances health, efficiency, and safety in the built environment, and should be pursued. Authorities having jurisdiction should be adequately resourced and empowered to adopt and enforce the newest edition of ASHRAE standards.



**ACTION ITEMS
GOVERNMENT AFFAIRS COMMITTEE
SY 2023-2024**

Last Updated: June 21, 2024

#	Action	Assigned To	Due Date	Status	C/O
<i>Remaining from SY 2022-2023</i>					
1	Consider recommending PAOE bonus points for getting in the GOE forms in a timely fashion.	Incoming GAC Chair	Summer		CLOSED /OBE
<i>Added at 10-30-2023 meeting</i>					
2	Communicate to GAC Chapter Chairs that they will be added to the GAU distribution list.	Staff to draft email RVCs to send email to their Chapter Chairs	Nov 30	Karson sent out on 11-03-2023.	C
3	Communicate to GTIC through staff liaisons that GAC is requesting George Pantelidis to serve as a liaison to the GAC.	Staff	ASAP	11-15-2023 GTIC Chair responded affirmatively to invitation for Pantelidis to serve as the liaison.	C
4	Send Oregon Clean Energy Fund contact to staff who will send to development staff	Jenks	Nov 30		Closed/ NA
5	Provide input to the strategic plan: https://www.ashrae.org/about/strategic-plan	Hoadley – and anyone else – all input is welcome	Nov 15		C
6	Share information about the Sri Lanka CRC Government Officials re meeting with the Member Mobilization Subcommittee (with cc's to Rob Hoadley and Alice Yates), which can then be shared with other regions for their consideration as they plan their next CRCs.	Ahmed Bolbol	Nov 30		C
7	Submit nominations for GAC leadership roles to Hayter and Yates.	GAC Subcommittee Chairs and all GAC members	Nov. 15		C



#	Action	Assigned To	Due Date	Status	C/O
<i>Added at 01-19-2024 meeting</i>					
8	Estimate the number of hours spent on ASHRAE work (GAC and anything else ASHRAE-related).	All GAC Members	Spring GAC meeting	Received several responses (Average time spent on ASHRAE is 7.8 hours/week and about 50% is spent on the GAC)	C
9	Consider recommending members to the Advisory Board managed by PPSC.	All GAC Members	Ongoing	No input received.	O
10	Review the SME-GOE pilot program and provide comments.	All GAC Members	Feb. 9	Comments received from Andy Persily. Additional comments being compiled by the PPSC Chair.	C
11	Investigate the costs and process for translation of publications.	Staff	Spring GAC meeting	Estimate is \$2,000 per document. While this is a high-end estimate, it is recommended to be used by Pub-Ed.	C
12	Provide a report on priorities for translation (language(s) and publications), working with the Planning Committee to ensure the priorities align with Society's strategic direction and consulting with the Global Technical Interaction Committee through its GAC liaison.	GASC	Spring GAC meeting	GASC will provide recommendations in their year-end report; they also recommend this work continue through the next Society Year.	C
13	Follow-up with the UNEP staff liaison regarding how to get an invitation from UNEP that could be provided to the chapter chairs and presidents. (They plan to discuss how partnerships between chapters and ozone units can be advanced at the UNEP liaison committee meeting.)	ASHRAE-UNEP Liaison committee, chaired by Tim Wentz	Spring GAC meeting	At the UNEP Spring meeting, President-Elect Dennis Knight recommended that the (GTIC) serve as the communications hub and clearinghouse between ASHRAE and UNEP for this initiative.	C



#	Action	Assigned To	Due Date	Status	C/O
<i>Added at 04-25-2024 Spring meeting</i>					
14	Review the GAC Job Description that is sent to nominees; determine whether a time commitment should be added to that description. Possibly also add information on the mentoring program.	Hoadley & Yates	Annual Meeting	5/31 – AY emailed job description to Hoadley	O
15	Write memo from GAC Chair to Members Council, Development and Planning, with information on volunteer member contributions of time, which can be used for fund-raising and other purposes.	Yates	May	5/31 – Yates provided draft memo to Hoadley. 6/14 – Memo sent.	C
16	Review Section T, “Financial Assistance for International Outreach Events,” in the GAC Resource Manual. Make recommendations on whether that section should be revised.	GASC (Therault)	Annual Meeting	On the GAC Annual Meeting Agenda.	C
17	Connect the RAL RVC (Ahmed Bolbol) with Sonya Pouncy to further the conversation on government outreach to African countries.	Yates	ASAP	Sent email on 04/26 to connect these individuals.	C
18	More actively communicate at GASC meetings regarding the Financial Assistance for International Government Outreach Events fund. Also communicate one-on-one with the RVCs.	Karson	Summer and Fall 2024	Communication about the Financial Assistance for International GOEs will be a standing agenda item at all future GASC meetings, one-on-one discussions with RVCs will be conducted early in SY24-25, and a motion to improve the workflow to access the money will be voted on by the GASC at the conference.	O
<i>Added at 06-21-2024 Annual meeting</i>					
19	Organize informal gathering at the 2025 Winter meeting to discuss advocacy and ASHRAE positions. Target date would be Saturday.	Karson	December 2024		



Shaping Tomorrow's
Built Environment Today

Certificate of Appreciation

Presented to

Robert P. Hoadley

In grateful recognition of his contribution to the Society through active service on
ASHRAE's Government Affairs Committee

On this the 21st of June 2024

A handwritten signature in black ink, appearing to read "Sheila Hayter".

Sheila Hayter
GAC Vice-Chair, 2023-2024

A handwritten signature in black ink, appearing to read "Bryan Holcomb".

Bryan Holcomb
Board Ex-Officio, 2023-2025

SY2024-2025 GAC Subcommittee Assignments				
Executive	Policy & Programs	Member Mobilization	Global Affairs	Nominating
Sheila Hayter (Chair)	Andy Persily (Chair)	Ahmed Bolbol (Chair)	Eleazar Rivera-Mata (Chair)	Meghan McNulty
Meghan McNulty (Vice Chair)	Peter Koneck-Wilwerding	Sonya Pouncy	Adrienne Mitani	Sheila Hayter
Andy Persily (Policy and Programs Chair)	Patrick Villaume	Will Fisher	Geoff Jenks	Sonya Pouncy
Ahmed Bolbol (Member Mobilization Chair)	Artorius Reyes	Philip Marvin Johnston	Luis Miguel Alvarado	Bryan Holcomb
Eleazar Rivera-Mata (Global Affairs Chair)	Tim Wentz	Geoff Jenks	Abdul Razaak Syed Mubarak	Tim Wentz
(Nominating Chair)	Adrienne Mitani	Weston Hockaday	Ioan Dobosi	
Sonya Pouncy (Communications Coordinator)	Louis Van Belle	Victor Nino	Varun Jain	
Bassel Anbari (Members Council Representative)	Tracey Jumper	Eleazar Rivera-Mata	Ahmed Bolbol	
Jason Alphonso (PubEd Council Representative)	Abdul Razaak Syed Mubarak	Doug Cage	Bassel Anbari	
Chris Phelan (Tech Council Representative)	Ioan Dobosi	Luis Miguel Alvarado		
Sarah Maston (Coordinating Officer/Treasurer)		Varun Jain		
Bryan Holcomb (BOD ExO)				
Alice Yates (Staff Liaison)	Jason Davidson (Staff Liaison)	Emily Porcari (Staff Liaison)	Jacob Karson (Staff Liaison)	Alice Yates (Staff Liaison)