

MINUTES

GOVERNMENT AFFAIRS COMMITTEE FRIDAY, JUNE 24, 2022 1:00 PM – 5:00 PM EDT ~Toronto • Hybrid Meeting~

Approved by the GAC on November 7, 2022.

ATTENDANCE * = virtual

Members Present

Chad Smith, Chair
Darryl Boyce, Vice Chair
Ginger Scoggins
Bryan Holcomb
Cindy Callaway
Billy Austin
Sheila Hayter*
Meghan McNulty*
Artorius Reyes
Michael Genin
RJ Hartman*
Tim Ashby
Louis Van Belle*
Beth Tomlinson*
Jessica Gardner*
Andrea Phillips*
Colin Laisure-Pool
Timothy Theriault
George Pantelidis
Gian Modgil
Sonya Pouncy
Ken Fulk
Eduardo Conghos

Members Absent

Mike Wolf
Nanette Lockwood
Damon McClure
Yew Albert Sin

Guests

Mick Schwedler
David Underwood
Robin Bryant
Bill McQuade
Walt Vernon*
Jim Arnold
Ron Gagnon
Doug Fick
Charles Hon
Arturo Thurdekoos
Amr Suliman
Mahoo Efehari
Peter Luttik Emerson
Richie Mittal
Trent Hunt

Staff

Alice Yates
Emily Porcari
Isla Kennedy
Matt Young

INCOMING MEMBERS

Christopher Phelan
Tim Wentz
Weston Hockaday
Peter Koneck-Wilwerding
Ahmed Bolbol
Dennis Knight
Bassel Anbari
Ryan Carlson

CALL TO ORDER, WELCOME AND ROLL CALL

Chad Smith called the meeting to order at 1:00 p.m. EDT and welcomed the attendees. A quorum was present.

GUEST INTRODUCTIONS – Smith welcomed several guests to the meeting, including ASHRAE President Mick Schwedler, several Board members, as well as GAC Alumnae.

ASHRAE CODE OF ETHICS

Smith read the summary of the 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>)

REVIEW OF AGENDA

Smith reviewed the agenda; no changes were requested.

APPROVAL OF MINUTES FROM MAY 5, 2022 MEETING

Smith asked to review the minutes from the last GAC meeting on May 5, 2022. Staff noted that thanks to Meghan McNulty, the minutes had been revised from the first draft that were sent to incorporate a vote on the IAQ PPIB that had mistakenly been omitted.

MOTION: To approve the minutes of May 5, 2022 as revised.

Motion made by Colin Laisure-Pool and seconded by Bryan Holcomb.

MOTION PASSED: APPROVED BY VOICE VOTE (CNV). NO OBJECTIONS.

UPDATE ON ACTION ITEMS

Yates reported on the status of the Action Items (see Attachment). All items have been completed.

REPORT FROM ASHRAE GOVERNMENT AFFAIRS OFFICE

Staff reviewed their roles and responsibilities, and reviewed the policy outlook and opportunities for engagement (see attachment with presentation).

YEAR-END SUBCOMMITTEE REPORTS AND MBO STATUS REPORTS

The subcommittee chairs described the status of the MBOs to which they had been assigned along with other highlights from their committees (see Attachment for MBO Status Table).

Executive Subcommittee Smith reported:

MBO #1: Develop a long-term strategic plan for the GAC that will maximize the impact of member engagement. – *This plan has been completed (see Attachment).*

Smith also reported that the GAC Executive Subcommittee approved a response to ExCom's inquiry on the value of translating ASHRAE Publications (See Attachment).

Policy and Programs Subcommittee - Tim Ashby reported:

MBO #5: Identify ASHRAE resources and develop advocacy materials that can help state, provincial, federal, and global governmental entities reach their 2030/2050 goals – *Several resources have been developed including an outreach presentation on ASHRAE decarbonization activities and resources.*

MBO #7: Assess how EHC and Residential Committee Emerging Issue Briefs can be used to inform ASHRAE advocacy – *The subcommittee is recommending an annual review of EHC emerging issues briefs to determine whether or how they could be used for outreach.*

MBO #8: Establish a GAC Advisory Board made up of senior staff from various government bodies; this group would advise ASHRAE on what technical resources they need – *A kick-off meeting was held to pilot the idea. The subcommittee is recommending that invitations be sent to those attending this initial meeting to establish a regular cadence of meetings. Additional members are being sought to broaden representation.*

Member Mobilization Subcommittee - Colin Laisure-Pool reported that the GAC has surpassed its goals for Government Outreach Events with 102 events being held in comparison with a target of 83 events (see Attachment).

MBO #2: 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. – *Several promotional meetings have been held, including "GAC Office Hours," which have been successful.*

MBO #3: Increase effectiveness of volunteer members through formalizing the GAC member mentorship program and the multi-module training system. – *The mentorship program has been expanded and developed into smaller groups rather than being one-on-one. Formalization of this program still needs to take place and will continue into the next year.*

Global Affairs Subcommittee - Gian Modgil reported that international outreach has been strong, including with successful events in Canada, India, Pakistan, European Union, and others. Nineteen (19) International outreach events have been held, well surpassing their goal of 13 events. Modgil also noted that ASHRAE has joined the UNEP Global Alliance for Buildings and Construction.

MBO #4: 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. – *Several opportunities for global government outreach have been identified, including events and identification of key government officials.*

MBO #6: Work with International Standards Task Force to increase ASHRAE advocacy efforts, including through the tracking and adoption of ASHRAE standards around the world. -- *Engagement with the ISTF has been established by identifying a GAC liaison to the ISTF and by including an ISTF presentation at a GAC meeting; this engagement should continue with an emphasis on sharing information to avoid duplication of effort and best use members' time.*

Rules Subcommittee - Darryl Boyce reported the subcommittee approved recommending to GAC to recommend to Members Council to revise the Manual for Chapter Operations to clarify the duties of the Government Affairs Committee at the Chapter level (see Attachment).

MOTION: To approve the recommendation to Members Council to make the revisions to the Manual for Chapter Operations, as shown in the Attachment.

Motion made by Boyce.

MOTION PASSED: APPROVED BY VOICE VOTE (CNV). NO OBJECTIONS.

Nominating Subcommittee – Hayter reported that a presentation has been prepared to educate members on the roles and responsibilities of this subcommittee. The presentation has been posted to Basecamp.

Action Item: Rules Subcommittee should review whether the presentation on roles and responsibilities for the nominating subcommittee should be added to the GAC Reference Manual. Due Date: Next meeting of the Rules Subcommittee

REPORTS

ExO Report -- Ken Fulk provided the leadership presentation (see Attachment).

Communications Coordinator Sonya Pouncy reported on the results from the Region and Chapter Survey of the GAC Website (see Attachment). The next step will involve identifying priorities for implementation.

MBO #9: Improve the effectiveness of the Government Affairs Website (in cooperation with the PPSC and the MMSC)

Technology Council Representative -- Billy Austin provided a report from the Technology Council (see Attachment). Smith noted that it would be good to train Tech Council on the PPIB process. Staff noted this training is being implemented.

Members Council Representative -- Bryan Holcomb reported that Members Council has updated and streamlined the process by which it handles motions from CRCs. The updated PAOE for SY22-23 has been completed and distributed to members; there were no major GAC changes but for the addition of the Presidential Initiatives, which place an emphasis on DEI.

Pub-Ed Council Representative

Cindy Callaway reported on several new publications, including the 2022 Handbook – Refrigeration Volume; new Training and Ed courses, including an “Intro to Building Decarb” and “Smart HVAC for Climate Design.” The Global Training Center is holding both in-person and virtual trainings. Several Standards have Addenda out for public review.

Chad Smith had asked earlier about the process by which government officials can request complimentary copies of standards and other ASHRAE publications for policy, legislation and regulatory development purposes. Requests should be sent to Alice Yates (ayates@ashrae.org or GovAffairs@ashrae.org), who will then submit to the Pub-Ed Department for their review. The GAC Executive Subcommittee is assessing whether a request button for these purposes could be added to the Government Affairs website.

REPORTS FROM REGIONAL VICE CHAIRS

(see Attachments for RVC Reports and Presentations)

- Region I – Artorius Reyes reported for Region I.
- Region II – Mike Genin reported for Region II.
- Region III – RJ Hartman reported for Region III.
- Region IV – Tim Ashby reported for Region IV.
- Region V – Louis Van Belle reported for Region V.
- Region VI – Beth Tomlinson reported for Region VI.
- Region VII – Jessica Gardner reported for Region VII.
- Region VIII – Chad Smith reported on behalf of Damon McClure (who is recovering from surgery) for Region VIII.
- Region IX – Andrea Phillips reported for Region IX.
- Region X – Colin Laisure-Pool reported for Region X.
- Region XI – Darryl Collerman reported for Region XI.
- Region XII – Tim Theriault reported for Region XII.
- Region XIII – Albert Sin was not present for the meeting.
- Region XIV – George Pantelidis reported for Region XIV.
- Region at Large – Gian Modgil reported for the Region at Large.

PRESENTATION OF DAVE PALTY OUTSTANDING GAC SERVICE AWARD

Chad Smith and Darryl Boyce presented the Dave Palty Outstanding GAC Service Award to **Tim Ashby**. The award is made “in recognition of outstanding overall efforts on ASHRAE’s Government Affairs Committee to advocate on behalf of ASHRAE with enthusiasm, drive, determination, and proactive leadership. A plaque and a framed certificate were presented to Tim Ashby for his service.

REPORTS FROM COMMITTEE LIAISONS

Building EQ Committee -- Daryl Collerman reported that the Building EQ tool is being used to assess the energy performance of the new ASHRAE HQ, as well as a building in Shanghai, China.

Environmental Health Committee -- Meghan McNulty shared her report to the EHC, and noted that the EHC will be meeting at the Annual Conference *after* the GAC meeting, and she will provide a report afterwards. (See Attachments)

International Standards Task Force -- George Pantelidis reported that the ISTF is restructuring how they are organized so that they have a structured approach of outreach to Technical Committees and Standards Project Committees. The goal is to finalize the mission of the ISTF and set it up as a Standing Committee by January 2023.

Refrigeration Technology Committee for Comfort, Process, and Cold-Chain (REF-CPCC) -- Nanette Lockwood was not present at the meeting.

PROPOSED PUBLIC POLICY PRIORITIES FOR SY2022-2023

Darryl Boyce presented the proposed Public Policy Priorities for SY22-23, which were developed at the GAC Planning Meeting and subsequently refined.

MOTION: To approve the proposed Public Policy Priorities for SY22-23, as shown in the Attachment.

Motion made by Sonya Pouncy and seconded by Daryl Collerman.

MOTION PASSED: APPROVED BY VOICE VOTE (CNV). NO OBJECTIONS.

MBOs for SY2022-2023 – Boyce reviewed the MBOs for next year (see Attachment).

OTHER BUSINESS – There was no other business to come before the committee.

RECOGNITION OF OUTGOING GAC MEMBERS

Chad Smith recognized the outgoing GAC members with certificates for each individual.

REMARKS FROM OUTGOING CHAIR – Smith shared some outgoing remarks, noting his sincere appreciation for all of the GAC members.

- Ken Fulk presented Smith with a certificate of appreciation in “recognition of his wise and motivational leadership of the Government Affairs Committee this year, and in elevating ASHRAE’s standing in the HVAC industry as well as policy outcomes on a global basis.”
- Alice Yates presented Smith with a note from Senator Inhofe of Oklahoma (see Attachment).

REMARKS FROM INCOMING CHAIR -- Boyce thanked the committee for their work and noted that more will be done in the upcoming Society Year. Boyce noted that Subcommittee assignments have been made (see Attachment).

NEW RULES FOR RUNNING MEETINGS – Boyce noted that new rules will be used for running meetings and encouraged the incoming GAC Subcommittee Chairs to review those rules, in particular before their first meetings. (See Attachment)

NEXT COMMITTEE CONFERENCE CALL (Boyce stated that a training for new GAC members, for which all GAC members are encouraged to attend, will be held in early September.

ADJOURNMENT

Smith adjourned the meeting at 4:40 p.m.

Respectfully submitted,
Alice M. Yates, Staff Liaison



ACTION ITEMS
GOVERNMENT AFFAIRS COMMITTEE

Last Updated: June 17, 2022

#	Action	Assigned To	Due Date	Status	C/O
1	Provide a list of needs (resources, tools, educational products, etc.) that policy makers and elected officials are looking for from a technical perspective; please provide these lists to Chad and/or GovAffairs@ashrae.org In the list you send, please provide the name of the government group that was looking for this information, and/or the context for the request	All GAC Members	Oct. 22	11/22: Nothing yet received Material has been sent to Chad.	C
2	Send recommendations to Hayter for SY22-23 GAC leadership.	All GAC Members	Nov. 30		C
<i>Added at 12-02-2021 meeting</i>					
	<i>None</i>				
<i>Added at 01-29-2022 meeting (ASHRAE Winter Meeting)</i>					
3	Add a slide to the CRC PPT training that speaks to the topic of chapters within a state working together on advocacy).	Staff	Before Spring CRCs	4/26 Emily Porcari added a slide to the CRC training, posted online.	C
<i>Added at 05-05-2022 meeting</i>					
4	Provide updates on new editions of Standards and other ASHRAE publications that will soon be released, so that the most updated versions can be referenced in government outreach.	Cindy Callaway	ASAP	5/5 – Sent via email.	C

#	Action	Assigned To	Due Date	Status	C/O
5	Discuss when training on the ASHRAE Codes process should take place, and the nature of the training.	Meghan McNulty and Alice Yates	By Annual Meeting (June 24)	Recommendations: • Fall training • GAC member should be assigned as a liaison to the CIS • For Reference: one-pager on CIS provided as Attachment	C

ASHRAE CIS: CODE INTERACTION SUBCOMMITTEE

ABOUT CIS

CIS is a subcommittee of ASHRAE's Standards Committee. It originated as a means to represent the interests of ASHRAE and to promote uniform adoption of ASHRAE Standards, Guidelines, and documents by Model Building Codes, government regulations, and other entities.

CIS meets at least twice per year: at the ASHRAE annual and winter conferences and online as needed. Meetings are conducted using Robert's Rules of Order, including quorum requirements.

CIS most often participates in proposals directly drawn from ASHRAE Standards and Guidelines but may also develop responses if they are found to be related to, or in conflict with, ASHRAE documents.

Why CIS?

- *Facilitates communication link between affected parties, cognizant committees, and ASHRAE staff involved in proposals.*
- *Protects ASHRAE's interests and reputation by ensuring all submissions and statements are an accurate reflection of the society's views and published works.*

COMMITTEES AND CODES*

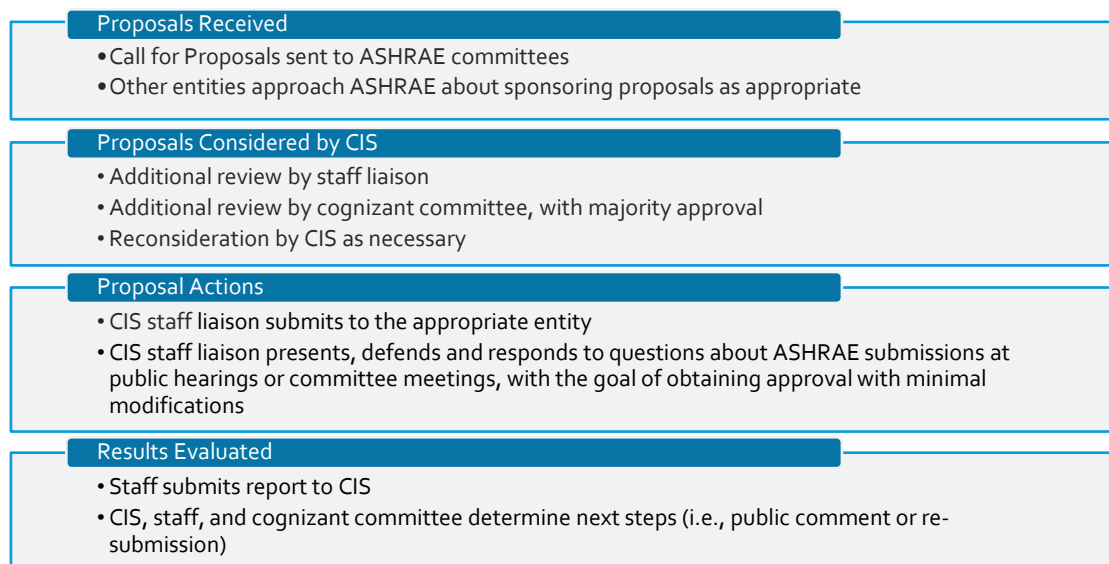
Code	Related Committee(s)
ICC – IFC	SSPC 15
ICC – IPC	SSPC 188
ICC – IMC	SSPCs 15, 34, 62.1, 170, 180, and 188
IAPMO – UMC	SSPCs 15, 34, 62.1, 62.2, 90.1, 111, 129, 170
IAPMO – UPC	SSPCs 90.1, 188
ICC – IECC	SSPCs 90.1, 90.4
NFPA	SSPCs 15, 34, 55, 62.1, 62.2, 90.1, 90.2

*examples only; other committees not listed here are welcome to get involved

GET INVOLVED

- **Visit CIS Website:**
<https://tinyurl.com/3zmnmbt>
- **Join CIS Listserv:**
<https://tinyurl.com/42ex68rc>
- **Keep track of Codes**
 - o ICC: <https://tinyurl.com/42n8bm8y>
 - o IAPMO: <https://tinyurl.com/wy656nxx>
 - o NFPA: <https://tinyurl.com/5kfw6wgu>

CODE CHANGE PROCESS





Staff Report: Government Outlook and Opportunities for Engagement

Annual Meeting – June 2022

Alice Yates, Director of Government Affairs

Emily Porcari, Manager of State and Local Government Affairs

Matt Young, Manager of Federal Government Affairs

Isla Kennedy, Government Affairs Coordinator/Project Manager

Government Affairs Staff: Who Are We?



We have a team that is ready to support you!

Contact any of us at GovAffairs@ashrae.org



Alice Yates
Director

Matt Young
Federal

Isla Kennedy
Coordinator/PM

Emily Porcari
State/Local



Patricia Ryan
Office Manager



Where is the ASHRAE Government Affairs Office?



Our Office: 1255 23rd Street NW, Suite 825, Washington, DC
You are welcome to visit!

What Staff Have Been Assigned To Do



ASHRAE Government Affairs Mission Statement:

- *To establish ASHRAE as a leading source for expertise in the built environment and a resource for policy-makers in the development of legislation and regulations affecting the public, the HVAC&R community, and the engineering profession.*
- To this end the ASHRAE Washington D.C. office will:
 - Build relationships between the Society and all levels of government in the United States and with the appropriate international community representatives.
 - Facilitate the transfer of technical counsel and assistance on matters affecting the public, engineering profession and ASHRAE professional community.
 - Collect, digest and disseminate to members and staff relevant information regarding current or anticipated government actions.
 - Pursue technology transfer and government funding opportunities independently or jointly with other appropriate organizations.

Key Areas of Focus for Government Affairs Staff



- Bi-Weekly Government Affairs Updates: [sign up here!](#)
- Support and planning for Government Outreach Events
- Planning and managing Senior Officer Meetings in DC
- Tracking legislation and regulations, drafting letters and testimony, connecting members with agencies and elected officials, strengthening relationships with aligned organizations
 - Supporting webinars, briefings, and hearings for policy makers
 - Supporting government grant applications and contracts



- **GAC Staff Support**

Executive Subcommittee: Alice

Policy & Programs: Alice (temp)

Member Mobilization: Emily

Global Affairs: Isla

Nominating: Alice

Rules: Emily

Staff Work Accomplished – A Sampling



Government Affairs Update



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**ASHRAE Comments
to the
Appliance Standards and Rulemaking Federal Advisory Committee (ASRAC)**

**Delivered by Mr. Michael CA Schwedler, P.E., Fellow ASHRAE, LEED AP
ASHRAE President**

June 9, 2022

My name is Mick Schwedler and I am the President of ASHRAE for the 2021-2022 Society Year. I want to thank the Appliance Standards and Rulemaking Federal Advisory Committee (ASRAC) for the opportunity to share ASHRAE's comments on the prioritization of

SY2021-22 Statistics

23 Issues
552 Articles
2,370 Readers

Senior Officer Meetings

8 - Spring
5 - Fall
49 Action Items

Letters, Testimony,
and Comments
39 sent to
Government Bodies



Aligned Organizations: Opportunities for Collaboration



- American Institute of Architects
- National Association of State Energy Officials
- International Code Council
- Green Building Initiative
- U.S. Green Building Council
- Air Conditioning and Refrigeration Institute
- International Facility Management Association
- International Institute of Refrigeration
- International Societies through the AASA





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!**



- As a part of COP26, [136 countries](#) included building efficiency/decarbonization in their climate goals, up from 88 countries in 2015
 - 80 countries have national or sub-national building energy codes, 43 of which have mandatory codes.
 - However, [82%](#) of estimated population growth by 2030 (and subsequent building construction) is in countries without mandatory building energy codes and [44%](#) in countries without any building energy codes.
 - More nations and cities endorsed commitments to net-zero emissions than ever before. Over a thousand cities have now signed up to [Cities Race to Zero](#) to achieve net-zero carbon emissions by 2050 at the latest.
- COP27 in Sharm El-Sheikh, Egypt: Focus will be Implementation of Climate Pledges

- Set a new nationally determined contribution for the U.S. to achieve 50-52% reduction in GHGs in 2030 compared to 2005 levels
- By 2030: Establish a new **net-zero emissions standard** for all new commercial buildings
- By 2035: **Cut in half** the carbon footprint of the building stock through *establishing **building performance standards for existing buildings***
- By 2035: **Carbon-free power** sector
- By 2050: U.S. achieves **net-zero emissions**
- Multiple **Executive Orders** Issued to advance these objectives

- Covid Relief: funds still being distributed
- Infrastructure: about \$1T-\$550B new money
 - EECBG-\$550M; SEP-\$500M; WAP-\$3.5B; state energy codes- \$225M; INSULATE Act - \$250M; energy auditor training-\$40M; \$500M schools
 - Codes Implementation: \$225M
- Build Back Better Act: \$3.5T → \$1.75T → Unlikely to move.. Reconciliation possible
 - \$550B for Climate, \$105B for resilience
- Appropriations: funds all Federal Government Agencies – 12 bills
 - FY 2022 – current CR expires February 18
 - FY 2023 – Begins October 1, 2022
- Kigali Treaty: Approved by Committee May 4 – needs two-thirds support

- DOE Energy Efficiency Standards
 - Over 30 efficiency standards are overdue for an update;
 - DOE has released multiple regulator proposals
 - For ASHRAE Equipment to be generally based on Standard 90.1
 - Proposed “Process Rule” to change regulatory development framework
- EPA Phasedown of HFCs (Implementation of the AIM Act)
 - Need to continuing working with states to adopt updated Standards 15 & 34
 - Concerns about cost increases for HFC refrigerants
- Implementation of American Rescue Plan (ARP), Infrastructure Bill

- Major state priorities this year have included: emissions reduction; building electrification and prohibitions; embodied carbon; and improving IAQ, especially in schools.
- States and cities are also focusing on their climate goals, including specific goals for building decarbonization.
 - Look for articles on these goals in the biweekly Government Affairs Update!
- Ongoing opportunities to support the adoption of ASHRAE standards
 - Standard 188 re: Legionella, Standard 100 re: Energy Efficiency in Existing Buildings
- Contact staff for information on planning a Government Outreach Event!



GovAffairs@ashrae.org

GAC MBOs: Status Update SY2021- 2022

Updated: June 21, 2022

MBO	Subcommittee Assigned	Metric	Status
1. Develop a long-term strategic plan for the GAC that will maximize the impact of member engagement.	Executive Subcommittee	☒ Plan is developed by June 30, 2022.	COMPLETED A plan has been developed to improve the work of the GAC through maximizing the impact of member engagement.
2. 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	Hold a “intro to GAC” session at the 2022 Winter Conference that targets ASHRAE members who are not on the GAC. ☒ Host 2 “Office Hour” events. Create a DL presentation on the benefits of Government outreach for ASHRAE members.	COMPLETED – ongoing maintenance for next year. Two “Office Hours” education sessions were held. 2 of the 3 metrics have been met; this MBO will continue into SY22-23.
3. Increase effectiveness of volunteer members through formalizing the GAC member mentorship program and the multi-module training system.	Member Mobilization	Mentorship program and training program are included in Resource Manual.	COMPLETED – ongoing maintenance for next year. Mentorship program has expanded and developed into smaller groups rather than being one-on-one. Formalization of this program still needs to take place and will continue into the next year.
4. 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.	Global Affairs	☒ Each global RVC identifies at least two events per region that are held annually. Each global chapter chair holds a minimum of one government outreach event. Each global chapter chair identifies the schedule for revision of Energy Codes/Building Codes of the country/state and lists	ONGOING Several opportunities for global government outreach have been identified including events and identification of key government officials. Work needs to continue on this MBO in the next Society Year.

MBO	Subcommittee Assigned	Metric	Status
		out the possibility of ASHRAE standards that can be referred in the relevant sections. Each global affairs chapter chair develops list of the officer/s associated with the revision of codes and devise the means to get involved with the committee responsible for revision of codes. The chair identifies the pool of expert speakers on ASHRAE standards and arrange meetings of these experts with the committee responsible for revision of codes so as to apprise them of the wealth of knowledge available in ASHRAE resources.	
5. Identify ASHRAE resources and develop advocacy materials that can help state, provincial, federal, and global governmental entities reach their 2030/2050 goals	Policy & Programs	☒ Create at least one piece of advocacy collateral material to support outreach efforts.	COMPLETED. A 2030/2050 goals spreadsheet for various jurisdictions has been posted to Basecamp and should be helpful for outreach efforts. A basic outreach presentation on ASHRAE decarbonization resources was developed to help Chapter Chairs conduct events. The presentation will be improved after PD is approved.
6. Work with International Standards Task Force to increase ASHRAE advocacy efforts, including through the tracking and adoption of ASHRAE standards around the world.	Global Affairs	☒ Long-term coordination structure defined. Each global affairs chapter chair identifies societies/associations working towards sustainability, climate change, green/efficient/smart buildings.	ONGOING. Engagement with the ISTF has been established by identifying a GAC liaison to the ISTF and by including an ISTF presentation at a GAC meeting; this engagement should continue with an emphasis on sharing information to avoid duplication of efforts and best use members' time.

MBO	Subcommittee Assigned	Metric	Status
		Each global affairs chapter chair identifies sustainability/climate change/energy efficiency/decarbonization programs/schemes by all UN/International agencies working in the region. Each global affairs chapter chair holds at least one outreach event with every organization.	
7. Assess how EHC and Residential Committee Emerging Issue Briefs can be used to inform ASHRAE advocacy	Policy & Programs	☒ Review process for how EHC Emerging Issue Briefs developed and defined.	COMPLETED. The subcommittee is recommending an annual review of EHC emerging issues briefs to determine the benefits of a complementary policy brief.
8. Establish a GAC Advisory Board made up of senior staff from various government bodies; this group would advise ASHRAE on what technical resources they need.	Policy & Programs	☒ A group is formed that provides input to ASHRAE on resources needs for governmental purposes.	COMPLETED. Kick-off meeting held, and invitations sent to establish a regular cadence of meetings. Additional members are being sought to broaden representation.
9. Improve the effectiveness of the Government Affairs Website	Communications Coordinator, in cooperation with PPSC and MMSC	GAC evaluation indicates improvement.	ONGOING. Survey was conducted, and improvements have been recommended. Next step is to prioritize recommendations, working with the Marketing Staff, and then implement.



TO: President Mick Schwedler and Members of the Executive Committee
FROM: Chad Smith, Government Affairs Committee Chair
DATE: June 24, 2022
SUBJECT: Response from the GAC regarding Translation of ASHRAE Publications

Thank you for reaching out to the Government Affairs Committee (GAC) to seek input regarding increasing the translation of ASHRAE publications. The GAC provides the following strategic thoughts as responses to the questions you had posed.

How would this benefit ASHRAE Members and raise ASHRAE's global profile?

Translating ASHRAE publications, in particular Standards and Guidelines, would raise ASHRAE's global profile and increase ASHRAE's global impact. ASHRAE members themselves would also benefit, as they would have a better understanding of these standards and could do a better job of advocating for these standards to be adopted by various levels of government. Translation would increase the adoption of Standards by governments globally (which also translates into additional revenues to ASHRAE, both through the purchase of Standards and other related publications and training. Net revenues would need to incorporate the cost of translation.

By what different methods could publications be translated?

To the maximum extent possible, translation should be performed by people who have the technical background and expertise to understand what they are translating. The fastest way to have publications translated is to pay for professional translation, although that comes at a cost. Some members may also be willing to volunteer to translate, but that can take longer. Others suggested that this model (where members do the translation) has worked well, and the chapters who do the translations are given some type of discount for publications in exchange for their translation work. One member suggested that an ad-hoc comprised of both members and professional translators might be considered. It was also suggested that subsidies (funding assistance) may be offered by certain organizations to help with translation. Both electronic and print publications are suggested.

We recommend against using automated forms of translation, because you would still need reviewers (especially due to the technical content) who would likely greatly alter the automated versions to make it acceptable to them. We also note that different parts of the world use different dialects of the same language and care needs to be taken in not assuming that a single translation will work for all.

GAC also recommends that an evaluation be done in conjunction with the Pub-Ed Council or its subcommittees on the current processes ASHRAE has for translating and improve on existing processes and/or develop new process to make it easier for more translations to be produced.



The potential for Society growth

Society growth would naturally occur with standards written in languages that are understood around the world. As translated standards get adopted in more countries, more people will become aware of ASHRAE and will want to join as members. One GAC member, however, cautioned about overly optimistic projections as the translated standards may mainly be used by existing members.

The impact of ASHRAE standards being available in more languages

ASHRAE Standards would be more universally and more accurately applied, and ASHRAE would be seen as a true global resource and the expert in HVAC industry. ASHRAE standards could be utilized and referenced all over the world and ASHRAE membership would grow (note that the extent of that growth is unknown).

Specific publications your group believe would be beneficial to translate

Widely adopted standards would be most beneficial to translate (ASHRAE Standards 62.1, 62.2, 90.1, 90.4, 100, 147, 188, 189.1, 55, 15 & 34). Standard 202 and Guideline 0 for commissioning was also recommended as more countries are requiring commissioning. New publications on decarbonization will also likely be beneficial to translate. Some basic educational courses should also be considered for translation. It was also noted that it's important to first determine there is a need before translating; ASHRAE shouldn't assume that a translated publication is needed. Market demand needs to be established before translation takes place.

Other issues you consider beneficial to ASHRAE's Mission and Vision.

- Humanity would be served via better understood and more correctly applied ASHRAE Standards, resulting in a healthy and sustainable built environment for all.
- The more global we are, the more that enhances our ability to impact policy around the world in advocacy efforts.
- Continue to drive Diversity and Inclusion across the board, making it very important and essential for ASHRAE to reach out and seek inclusive membership at all levels, not just at Chapter, Regional, and Society levels. There is definitely a need for inclusion and diversity on the TC's, Standards, and Guideline Committees, without a doubt.
- The expense of translation needs to be thoughtfully considered, as it represents an opportunity cost to ASHRAE for doing other beneficial activities.
- Inaccurate translations could be a detriment to ASHRAE's mission and vision.

GAC Strategic Plan to Increase Member Engagement



As the Government Affairs Committee continues to grow and evolve in an effort to effectively achieve the purposes of the committee, it is important that the GAC increase and improve the effectiveness of member engagement at all levels, Society, regional, and chapter level.

Through ongoing surveys and research, the GAC received feedback from members at the grassroots levels about their knowledge and experience in government outreach and advocacy. After review of the responses, the GAC has identified the main areas to help improve member engagement. The GAC will focus on the following areas: training, education, advisory resources, and strategic partnerships

Improved Training at the Regional and Chapter levels

Over the course of recent years, the GAC has been working to improve existing training resources and develop new ones. The focus of this training has been for those members on the GAC. This training has included the following:

- RVC responsibilities at the Society, Regional, and chapter levels
- At large member, Council Representatives, committee liaison, and Communications coordinator responsibilities
- GAC mission, structure, and processes and responsibilities according to governing documents
- Different types of outreach activities and opportunities

The training among the GAC has proven to be valuable and in the coming years, the GAC should continue to develop training resources in addition to the standard CRC workshop training. These trainings should center around the different types of advocacy and different policy organizations to connect with. Education about ASHRAE's Society structure should also be included so that members understand how to collaborate with different committees at all ASHRAE levels to support their outreach efforts. These training resources should encompass both interactive as well as static training resources.

Round table or town hall type discussions including Society GAC committee members and chapter GAC chairs and committee members should be conducted at multiple points throughout the year. This will help members at the grassroots level be consistent and continue to build momentum in their advocacy throughout the year.

Individual training resources such as training documents, instructional videos, and case studies shall be available in the Member Advocacy Toolkit on the ASHRAE website. The GAC may also consider creating their own YouTube channel to upload the training videos for grassroots members to access.

GAC Strategic Plan to Increase Member Engagement



Create educational resources for ASHRAE members at all levels

In reviewing various outreach efforts and advocacy meetings, the GAC realizes that there is a need for better understanding of ASHRAE standards and guidelines, current building codes, existing and proposed legislation at all levels. In many discussions, the ASHRAE member is asked about these various areas. The GAC should continue to develop tools and resources that can be accessed and utilized by ASHRAE members in preparation for their advocacy efforts.

These various educational resources should take should include:

- Continue to develop the methods the GAC uses the Fiscal Note software. ASHRAE made this investment in this tool and while it has been beneficial, there is a need for multiple people on the GAC, specifically RVC's, to be able to access it and use it to support their GAC members at the chapter level. The GAC should also evaluate other software tools if Fiscal Note is deemed to not be able to serve the GAC long term goals.
- In addition to the software that identifies current legislation and public meetings, there also needs to be a resource that is created that serves as a database to document and track ASHRAE's advocacy involvement as well as the result of those efforts. Currently, GAC staff does an excellent job providing this tracking and history through reports submitted from grassroots members. However, as ASHRAE's outreach efforts continue to grow, the time demand on staff continues to grow and this administrative responsibility takes time away from their other responsibilities that are necessary in the GAC office.
- Educational resources that allow ASHRAE members to easily provide public officials with lists of published guidelines, standards and reports that are relevant to the policy issue being discussed. While all of these resources are currently located on ASHRAE website, there is still a need for ASHRAE members to be able to search and identify these resources easily and quickly and provide that information to the public entity.
- Educational resources for ASHRAE members to be able to identify what ASHRAE standards are referenced in various building, mechanical, energy codes at both national and sub-national levels.

Advisory Resources

The GAC has also identified a need for ASHRAE members to have the ability to engage advisory groups to help answer questions and share ideas about advocacy opportunities. These advisory resources



GAC Strategic Plan to Increase Member Engagement

would include advisory councils or groups that ASHRAE members can reach out to when information is needed in preparation for advocacy as well as regular town hall type discussions with these groups.

The advisory groups should include:

- Advisory council of government officials to provide perspective and experience from public policy perspective.
- Advisory group of experienced chapter chairs to share experience, advice and recommendations to current chapter chairs and committee members in their advocacy efforts.
- Advisory group of current and past RVC's (to help reduce workload on current RVC's) to serve as information resource for chapter chairs in their efforts to plan and lead their GAC program at the chapter level.

While regular meetings of these groups will be beneficial, these groups should also be set up to be able to communicate in a timely manner with ASHRAE members in response to their information inquiries. Whether it be direct email, a web page on ASHRAE's Member Advocacy Toolkit, it is important the success of these groups that the ASHRAE member be able to easily engage and receive a response in a prompt time.

Strategic Partnerships

Society has identified many likeminded organizations that they encourage chapters to collaborate with in various areas. One of the most impactful ways for them to collaborate with is in the area of government affairs. Some of the benefits of working with other organizations is it provides different perspectives to ASHRAE members to help them build their message to public officials. Additionally, some of these organizations have various resources that ASHRAE doesn't have and can provide opportunities to engage with policy makers that ASHRAE members normally would not be able to. The challenge chapter members have is not having any connection with these local organizations.

The GAC and Society should work with these like-minded organizations to put together a resource that will allow chapter members to be able to identify and contact the advocacy leaders at the chapter level in their area. This resource would be most beneficial if it was interactive in the Advocacy Toolkit on the ASHRAE website where a chapter member can enter their location and the various organizations, and their contact information can be found by the ASHRAE member.

Some of these areas already have current resources developed and the 2021-2022 GAC recommends that they continue to be used and developed to improve their effectiveness. The other resources



GAC Strategic Plan to Increase Member Engagement

identified are recommended for development by future GAC's through MBO's and goals assigned to the various subcommittees. One recommendation to future GAC's as they create and develop these resources is to focus on the audience for these resources. Specifically, there should be resources that are more focused on U.S. centered ASHRAE members, and there should be other resources that are more focused in International ASHRAE members.

Overall, the continued goal of any of these resources should be momentum and consistency as ASHRAE continues to build their position as the technical experts in the HVACR industry throughout the world.

Rev.0 06/24/2022

TRACKING GOVERNMENT OUTREACH EVENTS SY2021-2022

PROGRESS CHART

*Note: negative indicates that
we are behind the goal.*

	Target	Held	Delta	Forms Submitted
City/Local	32	34	2	34
State	24	43	20	43
Federal	15	9	-6	9
Global	13	16	4	16
In-Person		56		
Virtual		46		
Total	83	102	19	102

*Note: Totals may not add
up due to rounding*

SY21-22 SUMMARY TOTALS (to date):	Number of Attendees (ASHRAE Members)	Number of Meetings
Local	62	41
State	89	84
Federal	16	15
Global	100	30
TOTAL:	267	170

In Comparison

PREVIOUS YEAR (SY20-21)	Number of Attendees (ASHRAE Members)	Number of Meetings
State and Local	171	66
Federal	7	4
Global	126	54
TOTAL:	304	124

[illegible]

STATE	Meeting Description	Date	Chapter	Region	Number of Attendees (ASHRAE Members)	Number of Meetings	Govt Outreach Form Submitted?	Note if Virtual	Comments
Held	Flood Resistant Design TAG Meeting with MN Dept. of Labor and Industry	7/20/2021	Minneapolis	VI	1	1	yes	virtual	Discussion of flood-resistant design and code revisions
	MN Dept. of Labor and Industry and MN Home Builders	8/4/2021	Minneapolis	VI	1	1	yes	virtual	Home builders recommended changing footing depth levels based on changing ASHRAE Climate Zones.
	Meeting with new Commissioner on the Oklahoma State Uniform Building Code Commission	9/20/2021	Northeast Oklahoma	VIII	2	1	yes		Discussed current commission review of energy code and advocated for current version of 90.1, along with ETF resources.
	Meeting with member of the Oklahoma State Uniform Building Code Commission	10/12/2021	Central Oklahoma	VIII	1	1	yes	virtual	Discussed 2018 IBC, 2015 IRC adoption and work on commercial IECC code adoption.
	Puget Sound Chapter panel discussion with City of Seattle and state energy officials	11/16/2021	Puget Sound	XI			yes		included in 12/2 GAU
	Meeting with PA state representative Delozier	11/22/2021	Central Pennsylvania	III	4	1	yes		Met regarding sponsoring PA House Bill 2079 and to hear her insights on setting appointments and best practices for our planned outreach event.
	Utah School Board Meeting	12/10/2021	Utah		2	1	yes		Lincoln Harmer attended, The school board voted to require the district to go net zero. Greg wanted to know what resources ASHRAE had available to help with this.
	Meeting with GA Rep. Schofield	12/13/2021	Atlanta	IV	1	1	yes	virtual	Interested in examples of public policies to improve IAQ. Mandates are not well-received in GA, what other mechanisms have been used? I mentioned voluntary programs, technical support.
	Meeting with GA Sen. Kirkpatrick	1/4/2022	Atlanta	IV	2	1	yes	virtual	Would be interested in an ASHRAE HQ tour (daughter is architect, son is mechanical engineer)
	Utah Chapter Meeting with State Legislators and UFOMA	1/5/2022	Utah Chapter	IX	3	2	yes		Introduction to ASHRAE; ASHRAE resources available for school districts interested in improving IAQ; grid-interactive buildings
	Meeting with City of Minneapolis and New York Chapters	1/11/2022	Minneapolis and New York Chapters	I, VI	2	1	yes	virtual	Sharing info on NY with Minneapolis Mayor's office
	MD testimony re: legionella	2/2/2022	Baltimore	III	2	2	yes	virtual	Baltimore Chapter ASHRAE members provided testimony re: legionella for MD SB 302 and HB 248.
	Nebraska Day on the Hill Meetings with State Legislators	2/23/2022	Omaha	IX	3	6	yes		Offered ASHRAE Resources as references for future legislation.
	TN Day on the Hill	3/1/2022	Nashville	VII	3	10	yes		Met with 3 State Senators and 7 House Representatives. Joined by American Council of Engineering Companies of Tennessee (ACEC) and Tennessee Society of Professional Engineers (TSPE)
	Minnesota CAP Clean Energy and Buildings Workgroup	3/2/2022	Minneapolis	VI	1	1	yes	virtual	Several workshop meeting to prioritize state initiatives for the MN Climate Action Plan revision. ASHRAE specific information shared included an updated on our Taskforce for Building Decarbonization, upcoming Position Document and ASHRAE's draft standard definitions of Net Zero Energy and Net Zero Emissions.
	Meeting with South Dakota State Legislators	3/8/2022	South Dakota	IX	2	3	yes		Met with state senators in the lobby at the ASHRAE table, and a separate meeting with the Public Utilities Commission
	Minnesota CAP Resilient Communities Workgroup	3/8/2022	Minneapolis	VI	1	1	yes	virtual	Not all conversations revolved around Buildings, but some impacted access to buildings, use of projected climatic data, air quality and topics that impact the built environment.
	Oklahoma Day on the Hill	3/9/2022	Central and Northeast Oklahoma	VIII	8	12	yes		Met with 2 representatives and 2 senators at the state capitol, discussed specific Senate and House Bills and explained the relevance of ASHRAE.
	Minnesota CAP Clean Energy and Buildings Workgroup	3/18/2022	Minneapolis	VI	1	1	yes	virtual	Several workshop meeting to prioritize state initiatives for the MN Climate Action Plan revision. ASHRAE specific information shared included an updated on our Taskforce for Building Decarbonization, upcoming Position Document and ASHRAE's draft standard definitions of Net Zero Energy and Net Zero Emissions.
	Minnesota CAP Resilient Communities Workgroup	3/22/2022	Minneapolis	VI	1	1	yes	virtual	Not all conversations revolved around Buildings, but some impacted access to buildings, use of projected climatic data, air quality and topics that impact the built environment.
	FL City Hall Testimony	3/22/2022	Gold Coast	XII	1	1	yes		Gave public testimonial to the City of Melbourne City Council on March 22, 2022, at their regular Council meeting announcing this award. The City of Melbourne has put the event on the city's website and social media.
	Minnesota CAP Clean Energy and Buildings Workgroup	3/23/2022	Minneapolis	VI	1		yes	virtual	Several workshop meeting to prioritize state initiatives for the MN Climate Action Plan revision. ASHRAE specific information shared included an updated on our Taskforce for Building Decarbonization, upcoming Position Document and ASHRAE's draft standard definitions of Net Zero Energy and Net Zero Emissions.
	NY Chapters Meeting with NYSERDA	3/29/2022	New York Chapters	I	10	1	yes	virtual	Part of a series of ongoing meetings. GAC Chairs to coordinate with NYSERDA to set up Codes training for their Chapters.

	Minnesota CAP Clean Energy and Buildings Workgroup	3/30/2022	Minneapolis	VI	1		yes	virtual	Several workshop meeting to prioritize state initiatives for the MN Climate Action Plan revision. ASHRAE specific information shared included an updated on our Taskforce for Building Decarbonization, upcoming Position Document and ASHRAE's draft standard definitions of Net Zero Energy and Net Zero Emissions. Not all conversations revolved around Buildings, but some impacted access to buildings, use of projected climatic data, air quality and topics that impact the built environment.
	Minnesota CAP Resilient Communities Workgroup	4/5/2022	Minneapolis	VI	1	1	yes	virtual	Art Hallstrom met with WV state officials re: Clean and Healthy Schools for K-12 school needs.
	WV state meeting on Clean and Healthy Schools	4/6/2022	West Virginia	VII	1	1	yes	virtual	Several workshop meeting to prioritize state initiatives for the MN Climate Action Plan revision. ASHRAE specific information shared included an updated on our Taskforce for Building Decarbonization, upcoming Position Document and ASHRAE's draft standard definitions of Net Zero Energy and Net Zero Emissions.
	Minnesota CAP Clean Energy and Buildings Workgroup	4/6/2022	Minneapolis	VI	1		yes	virtual	Art Hallstrom met with WV state officials re: Clean and Healthy Schools for K-12 school needs.
	WV state meeting on Clean and Healthy Schools	4/13/2022	West Virginia	VII	1	1	yes	virtual	Several workshop meeting to prioritize state initiatives for the MN Climate Action Plan revision. ASHRAE specific information shared included an updated on our Taskforce for Building Decarbonization, upcoming Position Document and ASHRAE's draft standard definitions of Net Zero Energy and Net Zero Emissions.
	Minnesota CAP Clean Energy and Buildings Workgroup	4/13/2022	Minneapolis	VI	1	1	yes	virtual	Not all conversations revolved around Buildings, but some impacted access to buildings, use of projected climatic data, air quality and topics that impact the built environment.
	Minnesota CAP Resilient Communities Workgroup	4/19/2022	Minneapolis	VI	1	1	yes	virtual	Art Hallstrom participated in a webinar with WV state officials re: Clean and Healthy Schools for K-12 school needs.
	WV webinar on Clean and Healthy Schools	4/20/2022	West Virginia	VII	1	1	yes	virtual	Several workshop meeting to prioritize state initiatives for the MN Climate Action Plan revision. ASHRAE specific information shared included an updated on our Taskforce for Building Decarbonization, upcoming Position Document and ASHRAE's draft standard definitions of Net Zero Energy and Net Zero Emissions.
	Minnesota CAP Clean Energy and Buildings Workgroup	4/20/2022	Minneapolis	VI	1	1	yes	virtual	Art Hallstrom participated in a webinar with WV state officials re: Clean and Healthy Schools for K-12 school needs.
	WV webinar on Clean and Healthy Schools	4/27/2022	West Virginia	VII	1	1	yes	virtual	Several workshop meeting to prioritize state initiatives for the MN Climate Action Plan revision. ASHRAE specific information shared included an updated on our Taskforce for Building Decarbonization, upcoming Position Document and ASHRAE's draft standard definitions of Net Zero Energy and Net Zero Emissions.
	Minnesota CAP Clean Energy and Buildings Workgroup	4/27/2022	Minneapolis	VI	1	1	yes	virtual	Met with 14 Senators and staff, gave an intro to ASHRAE and discussed HB 2079 re: refrigerants.
	Pennsylvania State Day on the Hill	4/27/2022	Central Pennsylvania, Lehigh Valley, Baltimore	III	8	14	yes		Introduction to ASHRAE; ASHRAE resources available for school districts interested in improving IAQ; grid-interactive buildings
	Utah Chapter Meeting with State Legislators and UFOMA	5/2/2022	Utah Chapter	IX	3	2	yes		Not all conversations revolved around Buildings, but some impacted access to buildings, use of projected climatic data, air quality and topics that impact the built environment.
	Minnesota CAP Resilient Communities Workgroup	5/3/2022	Minneapolis	VI	1	1	yes	virtual	Delegates Stein and Barve would like ASHRAE to provide support regarding the technical requirements of the Climate Solutions Now Act. ASHRAE will get involved with the Building Energy Transition Implementation Task Force.
	Meeting with Maryland Delegates	5/5/2022	Baltimore	III	4	2	yes		Shared information on other state's successful efforts related to Legionella prevention - summary of key changes to 188-2021 and G12-2020.
	Meeting with Georgia Department of Public Health & Stakeholder Legionella Prevention Working Group	5/9/2022	Atlanta	IV	1	1	yes	virtual	Introduction to ASHRAE; ASHRAE resources available for school districts interested in improving IAQ; grid-interactive buildings
	Utah Chapter Meeting with State Legislators and UFOMA	5/18/2022	Utah Chapter	IX	3	2	yes		Discussed ARP Funding & State General budget allocations for economic development.
	Meeting with OK State Senator Chuck Hall	5/19/2022	Central Oklahoma	VIII	1	1	yes		Gave a summary of ASHRAE to Senator Ware and also made her aware of pending refrigeration system code changes and increased emphasis on indoor air quality due to the ongoing Covid endemic.
	Meeting with KS Senator Mary Ware	5/20/2022	Kansas City	IX	3	1	yes	virtual	Meeting re: Commercial Building Code. Provided technical expertise to review/eliminate amendments that weaken proposed 2021 IECC.
	Wisconsin Code Officials Meeting	5/26/2022	Wisconsin	VI	1	1	yes		
	Total State Held:	43			89	84	43	27	

FEDERAL	Meeting Description	Date	Chapter	Region	Number of Attendees (ASHRAE Members)	Number of Meetings	Govt Outreach Form Submitted?	Note if Virtual	Comments
Held	Meeting with Sen. Warnock's office	8/24/2021	Atlanta Chapter	IV	1	1	yes	yes	staff requested Building Decarbonization background; we sent PPIB
	Meeting with Jessica Northridge (DOE EERE)	9/1/2021	Gold Coast Chapter	XII	1	1	yes	yes	EISA 432 compliance (Discussed usage of ASHRAE Standard 211 to complete Level 1 Energy Audits, and Building EQ to assist in completing the audits)
	Meeting with Sen. Ossoff's office	9/14/2021	Atlanta Chapter	IV	1	1	yes	yes	Meeting was held to introduce the Senator's staff to ASHRAE.
	ASHRAE HQ Grand Opening	11/18/2021	Atlanta Chapter	IV	2	1	yes		Part of ASHRAE HQ grand opening. State directors for Senators Ossoff and Warnock spoke, as did Peachtree Corners Mayor Mike Mason and Gwinnett County gov't officials. Afterwards, Don Brandt led a tour of the features of the new HQ, with ASHRAE Gov't Affairs team and Meghan.
	NOAA listening session	1/8/2022	Minneapolis	VI	4	1	yes	virtual	Discussion about federal projected climatic data
	Clean Air in Buildings Challenge - White House Covid 19 Response Team	3/17/2022	Central Pennsylvania	III	2	1	yes	virtual	High level overview of what building owners could do to improve the performance of their buildings in future pandemics.
	ASHRAE Leadership Meetings with Sen. Smith, Sen. Baldwin, and Efficient and Healthy Schools interagency effort (DOE, EPA, Dept. of Education)	3/22/2022	N/A	N/A	3	7	yes	2 in-person, others virtual	The ASHRAE leadership meetings for Spring 2022 were held on March 21-22.
	Meeting with Sen. Graham's Office and Sen. Scott	5/24/2022	N/A	N/A	1	1	yes		Dennis Knight met with Sen. Graham and introduced him to ASHRAE. Discussed America COMPETES Act, Infrastructure bill and use of ASHRAE Standards. Dennis Knight also met with Sen. Scott and introduced him to ASHRAE. Discussed America COMPETES Act, Workforce Development, Infrastructure bill and use of ASHRAE Standards.
	Discussion on Heat Pumps	5/25/2022	Central Pennsylvania	III	1	1	yes	virtual	The meeting was held with multiple federal agencies including DOE, EPA, International Trade Administration, Dept. of Commerce and Dept. of State, along with multinational manufacturers of heat pumps. ASHRAE could be the voice of building designers in this ongoing discussion.
	Total Federal Held:	9			16	15	9	7	

GLOBAL	Meeting Description	Date	Chapter	Region	Number of Attendees (ASHRAE Members)	Number of Meetings	Govt Outreach Form Submitted?	Note if Virtual	Comments
Held	Meeting with the Office of Efficiency Canada and Natural Resources	8/19/2021	multiple	II, XI	6	1	yes	yes	possible consensus on HVAC&R Standards and Guideline on Single Family Dwellings
	Meeting with Barbados Government	9/9/2021	CARICOM Chapter	XII	2	1	yes	yes	discussion on training in Standard 62.1 to mitigate COVID-19 transmission, and promoting additional training and ASHRAE standards
	Argentina Chapter participating in Technical Advisory Committee	11/30/2021	Argentina	XII	8	1	yes		The Argentine Chapter of ASHRAE has been invited to be part of the technical advisory committee for the drafting of a standard on Air Treatment Systems in Public and Private Buildings entrusted to the Argentine Institute for Standardization and Certification IRAM requested at the initiative of the University of Buenos Aires.
	Meeting with Governor of Rio de Janeiro	12/1/2021	Brazil	XII	1	1	yes		Christiane Lacerda met with Rio de Janeiro Governor Claudio Castro and leaders from other sectors to discuss topics related to the sustainable growth of the State of Rio de Janeiro and how ASHRAE standards and studies can collaborate to build an emission free environment. of carbon.
	Buenos Aires meeting with Researcher at CONICET - National Council for Scientific and Technical Research	6/2/2022	Argentina Chapter - Buenos Aires	XII	8	1	yes		Ashrae Presentation and discussed Energy Audits.
	Meeting with U.S. Embassy Mexico	2/22/2022	Central PA		1	1	yes	yes	Bill McQuade met with Mary Vargas, Trade and Investment Counselor, U.S. Embassy Mexico. Discussed a new anti-corruption law in Mexico requiring a waybill document to be presented for products shipped domestically within Mexico or across borders.
	Webinar with APEGA and ASET featuring ETF presentation	3/1/2022	Northern and Southern Alberta	XI	4	1	yes	yes	The NA & SA ASHRAE Chapters arranged a joint meeting webinar on the afternoon of March 1st with APEGA and ASET of Alberta featuring an ETF presentation by Dr. William Bhanfleth and moderated by Bill Dean. There were 370 participants including school district officials, university officials and government officials.
	Buenos Aires meeting with Researcher at CONICET - National Council for Scientific and Technical Research	6/3/2022	Argentina Chapter - Buenos Aires	XII	16	1	yes		Ashrae Presentation by Rodrigo Viale, Energy Audits by Ross Montgomery, Air conditioning and sustainability, a shared path By. P.Eng. Carlos Grinberg, Solar energy integration in sustainable buildings by Mg. José Luis Pulti.
	Costa Rica Ministry of Environment and Energy	3/11/2022	Florida West Coast		3	1	yes		Meeting with Costa Rican Ministry of Environment and Energy on how to implement 90.1.
	Meeting with Government of Monterrey	3/16/2022	Monterrey	XII	15	1	yes		Meeting with government of Monterrey to discuss decarbonization in buildings, as well as ASHRAE standards and guidelines.
	Monterrey, Mexico Energy State Department Workshop	3/16/2022	Monterrey	VIII	15	1	yes		Workshop with Monterrey's Energy State Department. 15 public servants, secretaries of economy, environment and urban development of the state were in attendance to discuss HVACR in response to climate/resilience.
	Vancouver and British Columbia webinar on Making Schools Safer for Occupancy	4/12/2022	Vancouver and British Columbia	XI	8	1	Yes	yes	Vancouver Island and Region XI RVC organized a joint Vancouver and BC chapter webinar on Making BC Schools Safer for Occupancy, featuring ETF Chair Bill Bhanfleth. 52 government officials attended, including school and health care officials.
	Meeting with Halifax Regional Center for Education (public schools in Halifax)	5/3/2022	Halifax	II	2	1	yes		ASHRAE members met with officials from the Halifax Regional Centre for Education to discuss IAQ in schools and building decarbonization.
	Bolivia Section met with University Director P.Eng. Ing Ruben Dadboud of UTEPSA - (Universidad Tecnológica de Santa Cruz)	6/6/2022	Argentina Chapter - Bolivia Section	XII	6	2	yes		Discussed Energy Efficiency/Auditing Principles Producing Higher Performing Buildings" by Ross Montgomery; also labeling in refrigerants
	Chile Chapter Meetings with Government Officials	5/25/2022	Chile	XII	4	14	yes	virtual	Includes meetings with the Chilean Chamber of Refrigeration to participate in our next Expo Frio Calor Fair (June 29-30 and July 1, 2022), where we will have a Stand and give a talk on IAQ and ASHRAE's position on infectious aerosols. Also meetings with the Ministry of Housing of Chile (MINVU) for the new Chilean ventilation standard Nch3309 based on standard 62.2.
	Meeting with MP Anita Vandenbeld	5/26/2022	Ottawa	II	1	1	yes		Discussed Energy efficiency, Building codes and Standard 90.1, Decarbonization. Discussed ways that the MP can help put the chapter in touch with the correct officials at the Federal level.
	Total Global Held:	16			100	30	16	6	

Motion (Revision to the Manual for Chapter Operations re: Government Affairs Committee duties): GAC Rules Subcommittee recommends that GAC recommends that Members Council approve the attached revisions to the Manual of Chapter Operations to clarify the duties of the Government Affairs Committee at the Chapter level.

BACKGROUND: The GAC Rules Subcommittee, in its meeting on June 6, 2022, discussed a proposed update to the Manual of Chapter Operations (MCO), Section 2.5, Part D. Section 2.5 of the MCO includes a list of the multiple duties of the Chapter Government Affairs Committee. Part D of this list regards the Chapter GAC's responsibility for tools and training that enable Chapter members to interact with government officials. However, the existing text of Part D implies that the Chapter GAC is responsible for maintaining these tools and training materials, but the materials are created and maintained by Society GAC. The proposed revision would clarify that the Chapter GAC's responsibility is to know how to access the tools that are available on the Society GAC website, rather than to maintain those tools themselves. A motion to advance these proposed changes to the MCO for consideration by the full GAC was approved unanimously by the GAC Rules Subcommittee in its meeting on June 6, 2022.

FISCAL IMPACT: NONE.

MANUAL FOR CHAPTER OPERATIONS

chapter to the CRC is accomplished in the CIQ by the due dates listed in Section 7.1.B. of the MCO. If a change in the delegate or alternate is required during the Society year, the chapter's BOG will make the selection and certify the change to the Society and to the DRC through the secretary of the chapter.

Although last minute changes are to be discouraged they are sometime necessary. In this event, the DRC must be advised of the change and the reason for it in writing, with as much advance notice as possible.

The chapter delegate or alternate to the Chapters Regional Conference represents the chapter at the CRC and reports to the chapter and BOG at the first chapter meeting after the CRC, and at any other time when requested. They shall also maintain liaison between the chapter and the DRC, as well as other chapters.

Officers, delegates and alternates will be reimbursed for CRC attendance in accordance with Society's Transportation Policy, which is excerpted in **Appendix 2B**.

2.5 Government Affairs Committee

The Government Affairs Committee (GAC) is appointed by the Chapter President-Elect. The committee's Chair is expected to attend the Government Affairs Workshop at the CRC.

The duties of this committee typically include:

- A. Providing current, relevant information to chapter members regarding government activities in their communities, including any limitations placed on these activities by local, state or provincial governmental bodies.
- B. Keeping the chapter, region and Society Government Activities staff informed on relevant governmental activities.
- C. Coordinating dissemination of governmental activities-related information to members and obtaining feedback from chapter and individual member government activities.

- D. ~~Maintaining tools~~ Knowing how to access and use tools on the Society GAC website to train and enable chapter members to effect positive interactions with government entities in their communities, especially in the use of Society documents and the advancement of the Society's public policy agenda.
- E. Serving as a clearinghouse of government adoptions of ASHRAE-developed and endorsed standards, guidelines and positions.
- F. Keeping local, provincial and state governments updated on technical issues.
- G. Promoting the appointment of chapter members to local, provincial and state governmental bodies.
- H. Reporting PAOE points earned in accomplishing the committee's goals.
- I. If approved by the BOG, assisting a governmental body in writing or developing a regulation, a code, an ordinance or law, or issuing a letter or providing written or verbal testimony concerning such matter, or participating in an advisory group to such a body, provided such activity:
 - i. Does not conflict with Society or chapter bylaws, or Society-approved documents or publications;
 - ii. Involves technical or method-of-enforcement aspects only, and not support of a political party or candidate;
 - iii. Does not jeopardize the chapter's tax status (e.g., 501(c)(3) tax status in the United States) or cause the chapter or a chapter member to exceed local, provincial or state limits regarding registration as a "lobbyist" or "lobbying organization;"
 - iv. Chapter shall review the state legislation prior to engage in any lobbying effort, time expander or in-kind gifts. National Conference of State Legislatures web site reference links to state's legislative ethics and lobbying laws:



ASHRAE 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."

Harassment and Discrimination Policy

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.
[ashrae.org/commercialism](https://www.ashrae.org/commercialism)

View ASHRAE Governing Documents at [ashrae.org/about/governance](https://www.ashrae.org/about/governance)



Nominations Needed!



Committee Nominations

- Due mid-February. Council, RAC, TAC, Standards and Handbook nominations are due mid-September.
- Speak with your committee ExO if your current appointment ends in June and you wish to be nominated for another committee.

Learn More about Technical and Society Level Committees

 ashrae.org/committee-nominations

Honors & Awards Nominations

ASHRAE's awards fall into one of six categories:

- Personal Honors
- Personal Awards for General & Specific Society Activities
- Paper Awards
- Society Awards to Groups or Chapters
- Chapter and Regional Awards

Learn More and Nominate Someone Today

ashrae.org/honorsandawards 

ASHRAE Technical Committees (TCs) and Volunteer Opportunities at ashrae.org/communities

ASHRAE Commitment to Care Statement



The health and safety of all ASHRAE conference attendees is a top priority.

Out of respect for our fellow attendees, we strongly recommend wearing masks indoors, to monitor our health, seek medical attention if symptoms develop and adhere to all ASHRAE Commitment to Care protocols.

We are committed to the well-being of one another.

View the full Commitment to Care at ashrae.org/2022Annual



ASHRAE Simplified Rules of Order & Quick Reference



NEW!

ASHRAE Simplified Rules of Order – Quick Reference

Guiding Principles:

- Quorum is required before business can be conducted.
- Everyone has the right to participate in discussion if they wish before anyone may speak a second time.
- Everyone has the right to know what is going on at all times. Only urgent matters may interrupt a speaker.
- Only one thing (motion) can be discussed at a time.

A motion is the topic under discussion (e.g., "I move that we add a coffee break to this meeting"). After being recognized by the president of the board, any member can introduce a motion when no other motion is on the table. A motion requires a second to be considered. If there is no second, the matter is not considered. Each motion must be disposed of (passed, defeated, tabled, referred to committee, or postponed indefinitely).

How to do things:

You want to bring up a new idea before the group.
After recognition by the president of the board, present your motion. A second is required for the motion to go to the floor for discussion, or consideration.

You want to change some of the wording in a motion under discussion.
After recognition by the president of the board, move to amend by

- adding words,
- striking words or
- striking and inserting words.

You like the idea of a motion being discussed, but you need to reward it beyond simple word changes.
Move to substitute your motion for the original motion. If it is seconded, discussion will continue on both motions and eventually the body will vote on which motion they prefer.

You want more study and/or investigation given to the idea being discussed.
Move to refer to a committee. Try to be specific as to the charge to the committee.

You want more time personally to study the proposal being discussed.
Move to postpone to a definite time or date.

You are tired of the current discussion.
Move to limit debate to a set period of time or to a set number of speakers. Requires a 2/3rd vote.

You have heard enough discussion.
Move to close the debate. Also referred to as calling the question. This cuts off discussion and

ASHRAE SIMPLIFIED RULES OF ORDER & MEETING FUNDAMENTALS

Updated by the Society Rules Committee: February 1, 2022
Approved by the ASHRAE BOD: February 2, 2022

Download the rules and quick reference
[ashrae.org/communities/committees/
society-rules-committee](https://ashrae.org/communities/committees/society-rules-committee)

- Presented by the Society Rules Committee and BOD approved at the 2022 Winter Conference.
- Intent is to streamline meetings by providing simpler meeting guidance. Rules generally follow Roberts Rules of Order but are intentionally modified for the purpose of use in ASHRAE meetings.
- Councils and Committees are **expected** to be fully operational in the new meeting guidance beginning **July 1, 2022**.

These are big changes for our Society, and **[we need your assistance to implement the approved changes at the Society and Chapter level.](#)**

Questions or comments regarding the new rules of order and quick reference?
Contact **boardservices@ashrae.org**



Monday, June 27
12:15 – 2:00 pm

Securing Our Future

2022-23 ASHRAE President
Farooq Mehboob, Fellow Life Member ASHRAE



The Coolest Day of the Year June 26, 2022

The day raises awareness of refrigeration, air conditioning and heat pumps and their role in modern society to a wider audience

#coolingmatters

Learn More at worldrefrigerationday.org



2022-23 Board of Directors

Executive Committee



Through an elaborate committee structure, including committees and councils, ASHRAE policies are established by a **Board of Directors** comprised of Society members elected by the membership. Board members serve terms of one to three years, including the President who serves a one-year term.

President



Farooq Mehboob, P.E.
Fellow ASHRAE, Life Member
Karachi, Pakistan

President-Elect



Ginger Scoggins, P.E.
Raleigh, North Carolina

Treasurer



Dennis Knight, P.E.
Fellow ASHRAE
Mt. Pleasant, South Carolina

Vice Presidents



Dunstan Macauley, P.E.,
HBDP
Arlington, Virginia



Sarah E. Maston, P.E., BCxP
Hudson, Massachusetts



Billy Austin, P.E., BCxP, BEAP,
BEAP, HBDP, HFDP, OPMP
Charlotte, North Carolina

Ashish Rakheja
Noida, Uttar Pradesh, India

2022-23 Board of Directors

Director and Regional Chairs



Region I



Steven C. Sill
Sterling, New York

Region II

Ronald Gagnon
Quebec, Canada

Region III



Mark Tome, P.E., HFDP
Harrisburg, Pennsylvania

Region IV



Bryan Holcomb
Oak Ridge, North Carolina

Region V



James Arnold, P.E.
Dublin, Ohio

Region VI



Susanna Hanson
La Crosse, Wisconsin

Region VII

Chris M. Gray, Ph.D., P.E.
Atlanta, Georgia

Region VIII

Randy C. Schrecengost, P.E., BEAP
Austin, Texas

Region IX



Tyler J. Glesne, BCxP, BEAP
Omaha, Nebraska

Region X



Devin A. Abellon, P.E.
Los Angeles, California

Region XI



Eileen Jensen, P.E.
Vancouver, Washington

Region XII



John Constantinide, P.E.,
Merritt Island, Florida

Region XIII



Cheng Wee Leong, P.E.,
Singapore

Region XIV



Andres J Sepulveda
Madrid, Spain

Region-at-Large

Richie Mittal
New Delhi, India

2022-23 Board of Directors

Directors-at-large



Wade Conlan, BCxP
Maitland, Florida



Blake Ellis, P.E.
Overland, Kansas



Dru Crawley, Ph.D., BEMP
Washington, D.C.



Kenneth Fulk
Allen, Texas

Art Giesler
Colleyville, Texas



Wei Sun, P.E.
Ann Arbor, Michigan



Kishor Khankari, Ph.D.
Ann Arbor, Michigan



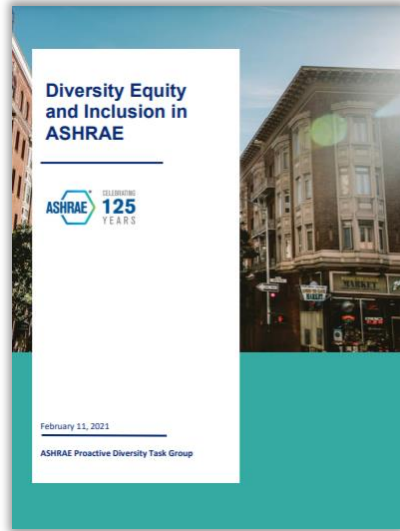
Luke Leung, P.E
Clarendon Hills, Illinois



Adrienne Thomle
Reno, Nevada

Diversity, Equity, & Inclusion (DEI) in ASHRAE

BOD Subcommittee created by the Board in January 2021



The purpose of the BOD DEI Subcommittee is to advise and engage the Board of Directors on:

- All matters relating to diversity, equity and inclusion - with a view to improving organizational awareness and performance in these areas amongst both staff and the Society membership
- The establishment of annual budgets for DEI program and ongoing initiatives
- The prioritization of inclusivity issues which have relevance to ASHRAE, together with plans for addressing these issues
- Potential DEI training modules for Chapters and Committees

Download the Report

ashrae.org/DiversityEquityInclusion

Members of the BOD DEI Subcommittee

Adrienne Thomle (Chair); Kishor Khankari (Vice Chair); Devin Abellon; Susanna Hanson; Wei Sun; Ashish Rakheja; Tanisha Meyers-Lisle (Staff Liaison)
Dunstan Macauley; Billy Austin; Dennis Knight; Farooq Mehboob (Consultant); Steven Sill



Task Force for Building Decarbonization



Initiative of ASHRAE President and President-Elect, with the realization that our successful initiatives in building energy efficiency should be expanded to building decarbonization

- **15** members, Co-Chaired by Presidential Members Don Colliver and Tom Phoenix
- **9** working groups with over **100** international volunteers
- Positioned ASHRAE to tackle building decarbonization with the same level of importance and urgency as ASHRAE tackled energy efficiency during the energy crisis

SY2022-23 Evolution:

- TFBD ExCom to develop and implement strategic direction
- Operational Subcommittee to develop content for six guides
- Products and Services Subcommittee to oversee Web Site & Knowledge Hub, and Training & Education

Email questions or input to decarb@ashrae.org and learn more at ashrae.org/decarb



**Distinguished
Lecturer**

Do you want to be the next ASHRAE Expert in Building Decarbonization?

ASHRAE Distinguished Lecturer (DL) will share knowledge virtually and in-person with ASHRAE Chapters about topics related to building carbon footprint reduction.

Topics associated with building decarbonization include:

- Operational carbon
- Embodied carbon
- Building system electrification
- Building performance standards
- Grid-building intersection
- Appliance and equipment standards
- Site sequestration

Submit Nominations by December 1

To learn more, visit www.ashrae.org/dl

Society Updates



Approved Bylaws Change: Full Member

ASHRAE Membership voted to approve changing the title of 'Member' grade to 'Full Member' grade to differentiate between those who have provided necessary education and professional background information to the Society in order to qualify as a Full Member grade.

Request to Advance to Full Member Grade

Associate and Affiliate members may request to advance to Full Member grade by updating their membership bio in their ashrae.org profile and notifying membership@ashrae.org.



View the latest Society Snapshot at ashrae.org/society-snapshot

Membership & Communities



→ Your Benefits [ashrae.org/membership](https://www.ashrae.org/membership)

New Member Benefit Selection

Full dues paying Full and Associate Members may select from the following complimentary annual member benefits:

- ✓ ASHRAE eLearning Course
- ✓ ASHRAE Standard (PDF)
- ✓ ASHRAE Handbook (PDF)

Visit [ashrae.org/chapters](https://www.ashrae.org/chapters) to quickly find the chapters nearest you!

New Benefits for Employers and Members

10% Discount - Starting July 1

Employers who sign up 5 or more Employees in a single transaction receive a 10% discount.



Free Winter or Annual Conference

New full dues paying members who join after July 1 receive one complimentary registration to a Winter or Annual Conference to be used within the first two years of their membership.



Connect-A-Colleague

Invite peers to join ASHRAE and participate in committees using a pre-written email invitation at [ashrae.org/connect](https://www.ashrae.org/connect)

Your Community [ashrae.org/communities](https://www.ashrae.org/communities) ←

Supporting ASHRAE's Mission



Research Promotion (RP)

The Research Promotion campaign supports ASHRAE Research, Education, YEA programs, Scholarships, Endowed Funds, the RP General Fund and Special Initiatives.



Thank You to all the **donors and volunteers** for your support during this challenging year.

Society Year 2020-2021 total raised: **\$2,300,519**

- **\$1,769,785** in contributions for Research
- **\$332,698** for ASHRAE Foundation
- **\$134,666** for Scholarships
- **\$63,370** for General Fund, YEA, and Education

ASHRAE Foundation Grants & Scholarships

The ASHRAE Foundation is an endowed trust that provides funding for professional development and research programs, supplies qualified engineering students with much needed scholarship assistance, and provides grants to help support the Society's vital work.

SY 2021-22

46

Society Scholarships totaling \$200,000

33

Chapter-Awarded Scholarships totaling \$54,000

ASHRAE Chapters provide an additional \$196,000 in scholarship support locally

Donate, Volunteer, Apply, and Learn More at
ashrae.org/support

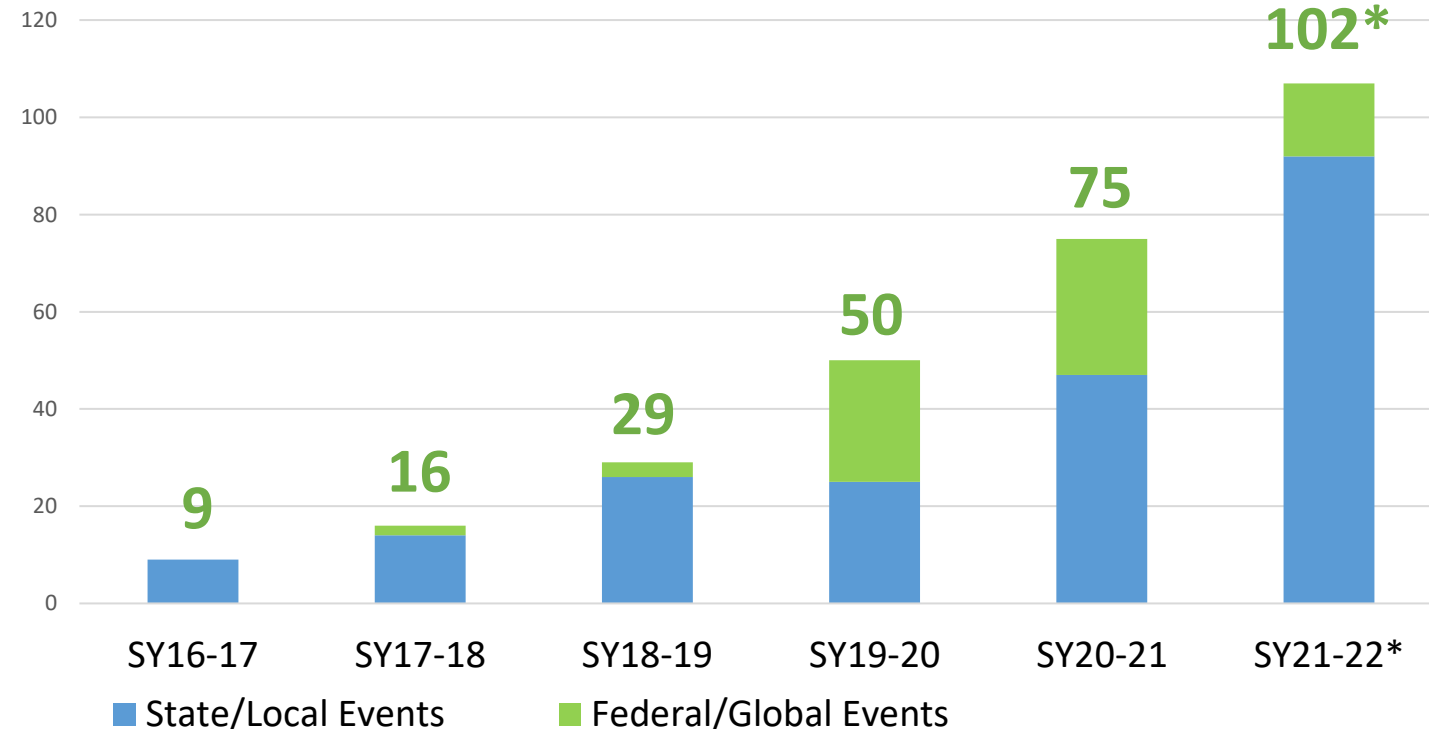


ASHRAE Government Affairs program works to establish ASHRAE as a leading source of trusted expertise for policy-makers in the development of legislation and regulations affecting the public and HVAC&R industry.

- The **Government Affairs Update** bi-weekly newsletter provides updates on government activities. Subscribe online or by emailing GovAffairs@ashrae.org.
- **Government Outreach Events** connect ASHRAE volunteers with policy-makers.
- Letters, briefings, testimony, and comments are sent in support of ASHRAE's Public Policy Priorities: **39 sent this year**.

➔ **Get Involved + Get Resources**
[ashrae.org/government-affairs](https://www.ashrae.org/government-affairs)

Government Outreach Events



*SY21-22 shows total events through June 21, 2022.

Professional Development



eLearning

Convenient, on-demand courses for individuals or groups.

90+ online courses starting at **\$42** for members.

Group Rates Available

Updated Course Catalog:
elearningcatalog.ashrae.org



ASHRAE Learning Institute (ALI)

Instructor-led courses in a variety of formats.

See the Updated Schedule of In-Person and Virtual HVAC Design Courses!

- Level I – Essentials
- Level II – Applications

NEW Courses Added to the Instructor-led Online Series
ashrae.org/onlinecourses

Courses Available for ASHRAE Chapter, and In-Company Presentations.

Certification

Validate and promote your expertise via online examination and digital badging.

Building Design

- Energy Modeling (BEMP)
- Healthcare Facility Design (HFDP)
- High-Performance Building Design (HBDP)
- HVAC Design (CHD)

Building Performance

- Commissioning (BCxP)
- Energy Assessment (BEAP)

Building Operations

- Operations & Performance Maintenance (OPMP)

ashrae.org/professional-development



Publications

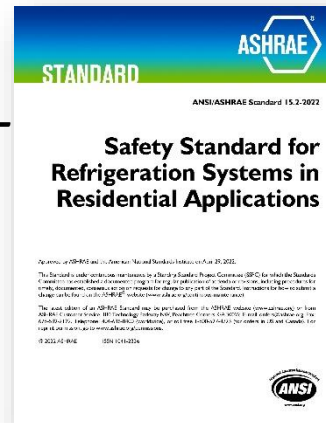
Be on the lookout for updated Standards 90.1 and 62.1 later this year.



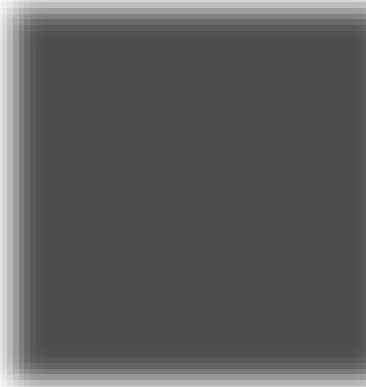
Recently published items available at ashrae.org/bookstore



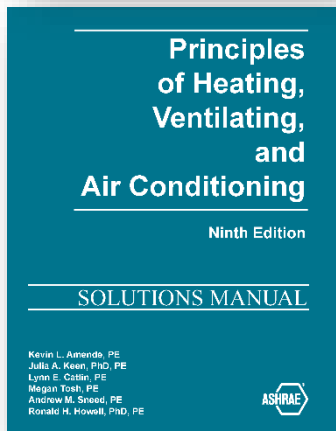
***Designing for
Operational Excellence—
Intentional Design for
Effective
Operation and
Maintenance***



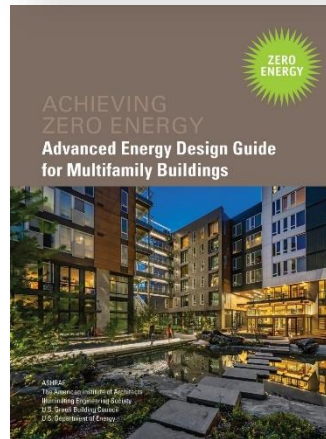
**ASHRAE Standard 15.2:
Safety Standard for
Refrigeration Systems in
Residential Applications
(ANSI Approved)**



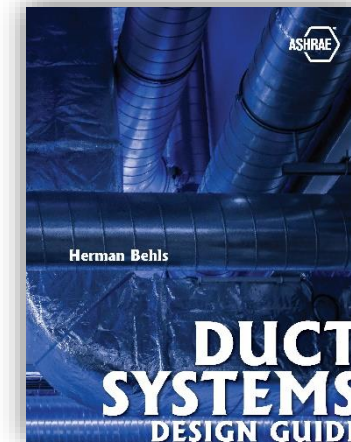
***Lucy's
Engineering
Adventure***



***Principles of Heating,
Ventilating, and Air
Conditioning, Ninth
Edition***



**Advanced Energy
Design Guide for
Multifamily Buildings
— Achieving Zero
Energy (AEDG)**



***Duct Systems
Design Guide***

Resources



ASHRAE Technology Portal

Provides a one-stop location for ASHRAE papers, articles, reports, Handbook PDFs, and seminar recordings.

Online Standards Database

Allows access to public review drafts for standards, guidelines, and addenda to submit comments, to do online balloting, and to submit proposals to standards and guidelines.

Zero Energy Advanced Energy Design Guides (AEDG)

Available for free download: NEW! NZE Guide for Multifamily Buildings, and AEDG for offices and K-12 schools.

Science and Technology for the Built Environment

Provides free online access to archival research publication offering comprehensive reporting of original research.

ASHRAE Technical Apps

Deliver mobile design, calculation, and analysis tools to the palm of your hand.

Free Technical Resources

Offer downloads of a variety of well-known resources to everyone.

ASHRAE 365

Updates on all things ASHRAE, for free and year-round.

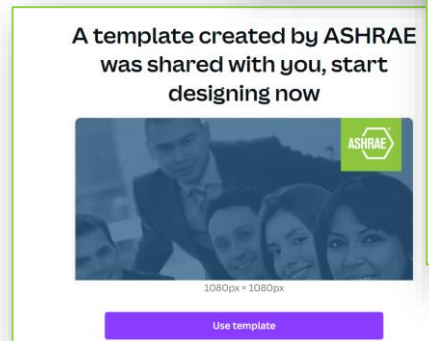
Find these resources and many more at [ashrae.org](https://www.ashrae.org)



Created for the busy volunteer, **Marketing Central** is a single page resource for Society-related marketing materials.

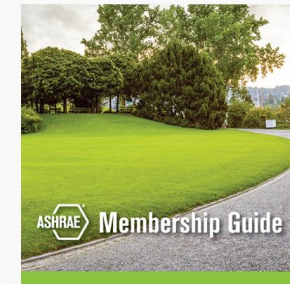
Resources organized by file type:

- Canva Templates
- Forms
- Logos
- PDFs
- PowerPoint Presentations
- Templates
- Toolkits
- Tradeshow
- Videos
- Virtual Backgrounds



- Request promotional freebies
- Shop the logo store
- Order Chapter supplies

Logo Items



Promotional Freebies

SUBMIT ORDER



ASHRAE Logo Merchandise

SHOP NOW



Chapter Supplies Order

BROWSE SUPPLIES



September 20-22, 2022
Guadalajara, Jalisco

ahrexpomexico.com/en/



ASHRAE Topical Conferences



SEP
2022

2022 ASHRAE Building Performance Analysis Conference

Sep 14 – 16, 2022 | Chicago, IL

OCT
2022

International Building Decarbonization 2022 Conference

Oct 6-7, 2022 | Athens, Greece

OCT
2022

The Fifth International Conference on Efficient Building Design

Oct 20–21, 2022 | Beirut, Lebanon

DEC
2022

Buildings XV Conference

Dec 5–8, 2022 | Clearwater Beach, FL

MAR
2023

ASHRAE SCANVAC HVACC Cold Climate Conference 2023

Mar 6-8, 2023 | Anchorage, AK

Mar 9-10, 2023 | Fairbanks, AK

[ashrae.org/conferences](https://www.ashrae.org/conferences)



2023 ASHRAE Winter Conference



2023 ASHRAE Winter Conference & AHR Expo February 4-8, 2023 Atlanta, GA

Registration opens in Fall 2022
ashrae.org/2023Winter



Thank you!
Questions or Comments?



Results of the 2021-2022 Regional & Chapter Survey on the GAC Website

Sonya M. Pouncy, Communications Coordinator
Government Affairs Committee

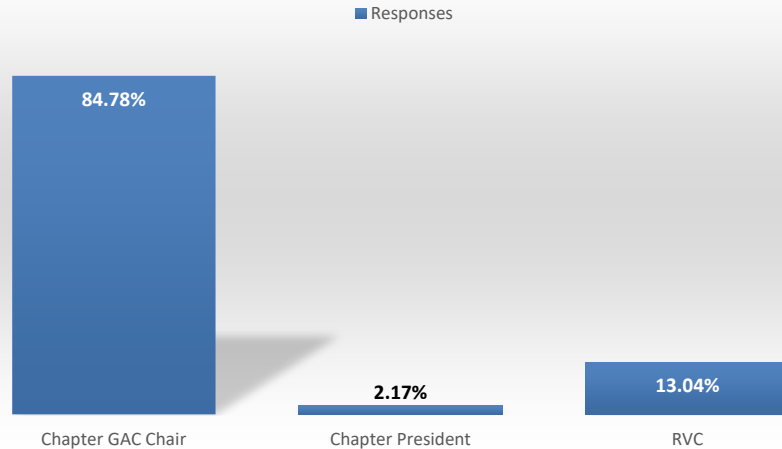
February 22, 2022

About the Survey

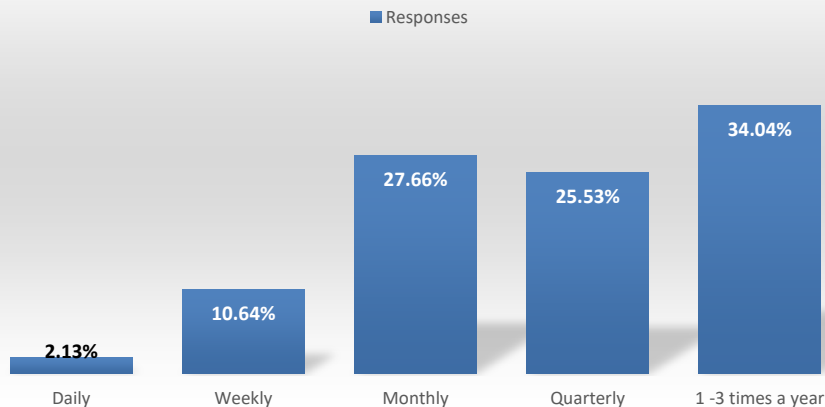
- An 8-question survey was administered to community of ASHRAE GAC leadership members (RVCs and chapter representatives) to evaluate the usefulness of the GAC website and identify opportunities for improvement.
- Survey was conducted on-line Dec 19, 2021 – Feb 4, 2022.
- Chapter respondents were incented with 25 bonus PAOE points.
- Responses are anonymized. Thus, in order to obtain the bonus PAOE points, chapter representatives are responsible for advising their RVC of their participation.
- There are currently 231 ASHRAE chapters and sections. There were 49 responses to the survey. The response rate was 21%.

Respondents' Use of the GAC Website

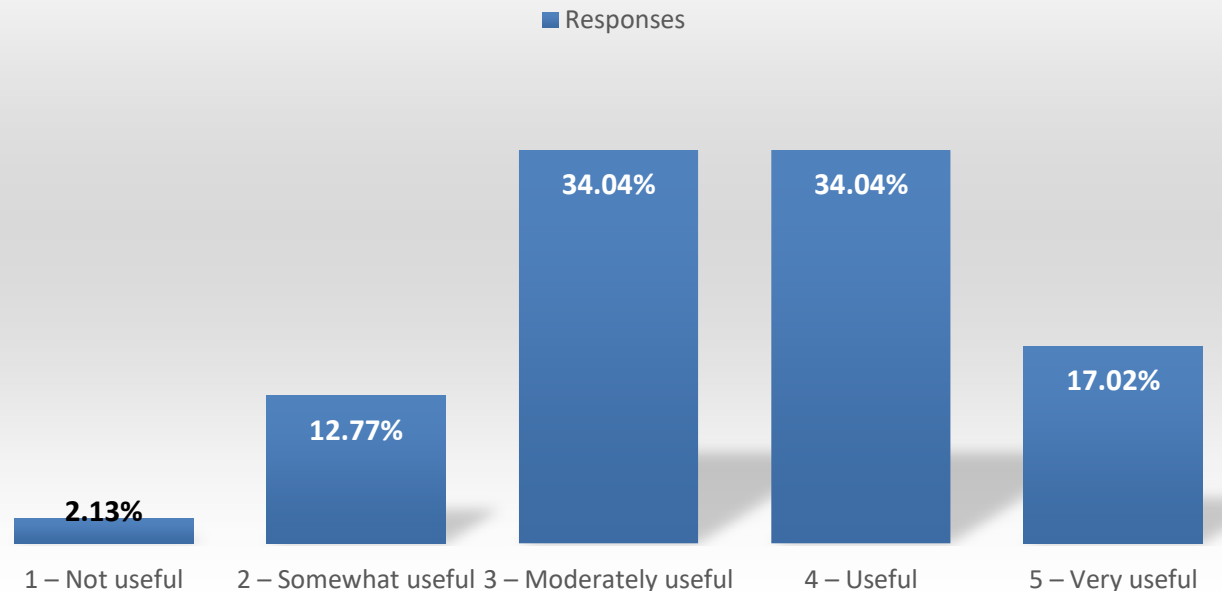
What is your role within the GAC?



How frequently do you use the ASHRAE GAC website?



How useful is the information on the GAC website?



Reasons for Visiting the GAC Website

ASHRAE Relationships

- check documents in order to find ASHRAE international agreements
- relevant info from ASHRAE related to COP 26
- review updated actions around Canada and the USA
- Looking for some adopted ASHRAE Standards to specific national or local law and regulation.

Instructions/Rules/Administrative

- refresher on giving out info to legislators
- resource manual
- survey something related to PAOE
- Looked at the most recent CRC training slide deck and also any other presentations that are on the website for GAC training
- roles and responsibilities of the person in the Chapter who would eventually be in charge of the relationship with official bodies.
- Review Manual of Procedures and Resource Material
- Using the Outreach Event Reporting Form

Legislative Contacts & Info

- Find contact info for the TN state representative
- LIST OF ACTIVE LEGISLATORS BY STATE FOR DOH PLANNING
- Legislator meeting info.
- Look up contact information

Updates/ Current Events

- Government affairs updates
- Washington Updates for 90.1 for Municipality reference
- I read the monthly minutes
- checking the Government Affairs Update
- Looking for info to add to the GAC section of our newsletter
- Resource kit - materials for chapter newsletter
- When I open the Government Affairs Update.
- Newsletter Access
- View archived GAC newsletters.
- signing up for the GAC newsletter
- Articles / Newsletter
- Stay Updated

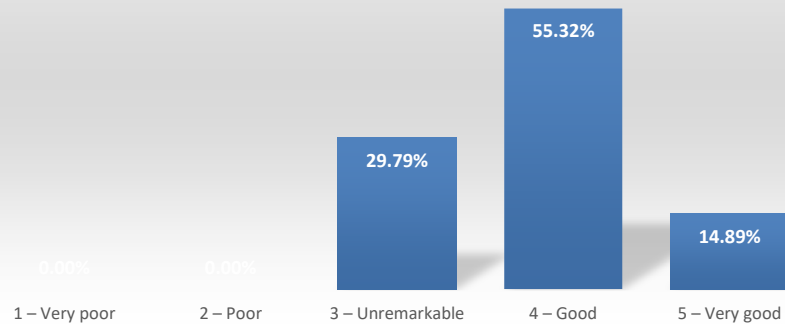
Documents for Outreach

- Looking for Decarbonization info for outreach
- Looking up ASHRAE position documents
- GAC Materials for handouts
- Position Documents, PPIBs, and recent statements/letters from ASHRAE
- Research policy positions and issues plus review advocacy toolkit
- Government outreach event planning
- find the information for the COVID-19 Response
- Downloading presentation materials.
- Advocacy Toolkits
- Position Statement, Day on the hill
- Net Zero Carbon information
- looked for position papers
- Advocacy Toolkit
- Government Advocacy

Reasons for Good and Very Good Ratings

How would you rate your experience the last time you visited the GAC website?

■ Responses



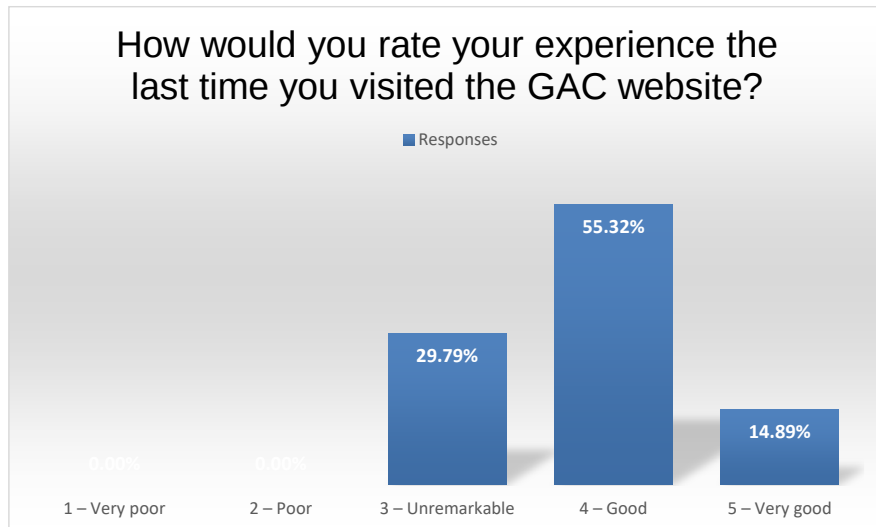
- Was able to find the info I needed
- The site provides necessary information needed.
- Very good links for ease of finding information
- Its above average and fairly easy to find what I'm looking for.
- I found the information I was looking for and was able to define the scope or functions of the position.
- found what I needed
- The information can help in certain topics with government officers
- the feeling of the whole page is professional
- Informative and helpful
- I thought it was a fair rating

- I found what I was looking for quickly.
- easy to find info
- I was easily able to find the information I needed.
- The site is clean and easy to maneuver through
- The website is good because I can find meaningful the information
- The information is easy to find and useful.
- The website is fairly easy to use.
- The simplicity of the site. Seems to be fairly easy to navigate and find what you're looking for.
- it provides updated news that are of interest and inspiring
- Information was easy to find
- A good amount of information, and able to find it appropriately.
- Very well organized and easy to find information.
- The information and experience is relatively intuitive to find and use. And applicable to what I was looking for and needed.
- I know where to find the outreach documents. I use it only to read the updates.
- Pretty standard ASHRAE organization
- I'm pretty familiar with the website, so I know what is there and typically know where to look.

Most Liked Features of the GAC Website

- Information I need for outreach is there, just a challenge to find
- Thorough and comprehensive resource.
- Easy to navigate
- Info Availability
- Communicating with the ASHRAE industry
- Fonts, colors, links and easy to navigate
- The detailed and comprehensive information it provides
- ease of use
- gives few tips
- the layout
- The layout design
- There is so much great information! A repository of all the great work GAC does, if you have some free time to explore the page.
- Informative and helpful
- Very straightforward way to
- It is easy to navigate and there is useful information.
- information available
- one stop shop
- The amount of information available.
- Well designed. Easy to find what I was looking for
- It's well-organized
- It's pretty simple and straight forward
- ORGANIZED SECTIONS WITH LINK BUTTONS
- GAC Governing Documents
- Easy access to newsletter- where the good stuff is at
- The website have a lot toolkits and presentations to help me
- how to info
- "Did You Know" section that gives a quick peek if there are any relevant info to our region
- It states the purpose of GAC and provides valuable information.
- It's very easily accessible from the main ASHRAE homepage.
- The organization of the content.
- access to newsletter
- Information was easy to find
- Resource files
- Access to Society policy positions.
- A LOT of good info.
- Keep me updated on global, state, federal affairs related to our industry.
- Everything is there, even if it's impossible to actually find
- I like the attempt at the structure to have material that is strictly for internal use and hope to expand it to usable material for external use

General GAC Website Improvement Opportunities



Unremarkable/Neutral

- Neutral experience
- No issues finding what I needed
- I seldom use this

Unremarkable / with Improvement Opportunities

- Took a while to find what I was looking for.
- Repetitious selections to get to the information
- Helpful but not as specific as needed
- looking for more visual info
- It can be hard to find all the relevant documents for a topic - like all the letters about ETF guidance and schools, or all the statements about Legionella - if you're new to a topic. And the official Position Documents live in one place, and the great stories from past GAUs live in another place, and resources for Outreach organizing live somewhere else.
- DID NOT FIND WHAT I WAS LOOKING FOR
- couldn't find the information I need but still found other information for GAC's activities
- couldn't find what I was looking for but the RVC sent me a link to the info.
- Can't figure out how to get to the GAC website from the main ASHRAE website.

Specific GAC Website Improvement Opportunities

- Maybe a site map, or some means to find resources easier.
- I wasn't aware of the website
- Maybe a link to latest code alerts, or link to latest federal activity that is relevant to ASHRAE and its members.
- In Europe, issue is limited ability to use ASHRAE standards in EN and ISO dominated region
- No need there is no routine that is suitable to every country regarding the GAC
- Organize materials by topic, rather than by type of document, if possible?
- All good. Can you make it so there are more hours in the day?
- not sure, I frankly need to use it more as a resource but not enough time
- More templates and samples from other chapters of what worked well.
- A short section that details recent committee accomplishments
- ADD ACTIVE LISTS OF LEGISLATORS BY STATE TO SIMPLIFY AND IMPROVE OUTREACH DOH PLANNING
- recognized ASHRAE Standards and guideline in different state, city and regional governments.
- sort the updates per region or state
- It should be not US Centric
- Newsfeed of latest updates
- I don't know why the ASHRAE website loves stock photos so much. It clutters things up and makes it so you have to dig through thousands of pages to find what you need. Just put a list of the resources on the page without all the click-thru "learn more" buttons.
- Need to update the information and make it more user friendly for someone to find info if they are visiting the site for the first time.
- Links to the current state senators/ legislators lists would be helpful.
- Add a page for the public or non-member or media resources.
- Link from the main page

Conclusions

- Members visit the website primarily for instructions, rules and GAC administrative reasons, as well as for updates on current events and documents used for outreach to governmental bodies.
- Most website visitors are able to find what they are looking for because the website is organized similarly to the way ASHRAE organizes other information repositories.
- Visitors most value the fact that everything they need is within the website.
- Because of the wealth of information housed within the website, some visitors have difficulty finding exactly what they need.
- Because the organization methodology is not intuitive, some new visitors also have difficulty finding what they need.
- At times, visitors are frustrated by the time it takes locate specific information.

Major Recommendations

Below is a summary of the most frequent or impactful suggested improvements. For a complete list of all recommendations, please see Page 8 of this report.

- An expanded site map with fewer pictures and more detailed descriptions so that more topical or categorical information is on one's screen, making it easier for visitors to locate desired information.
- Have a dedicated area highlighting what chapters are currently working on, and a list of chapter developed best practices with sample/template documents.
- More prominent links to relevant US state legislative bodies and representatives.
- Links to non-US legislative bodies or governing boards that have adopted certain ASHRAE Standards such as the Series 90, series 62 or Series 189 standards).
- A link to the GAC website from the main ASHRAE landing page.
- A ticker-tape news feed of current affairs, announcements, upcoming votes, etc.

Report to GAC from Tech Council Representative
George W. (Billy) Austin, Jr., P.E.
June 24, 2022

1. The Position Document on Building Decarbonization was approved by Technology Council and will go to the Board for consideration on Sunday.
2. Tech Council is considering approval of a revised Position Document on *Infectious Aerosols*, and if approved, will go to the Board for consideration on Wednesday
3. Residential Building Committee (RBC) approved a residential issue brief titled "Ventilation, IEQ and Sleep Quality in Bedrooms". This is now posted on the RBC webpage. Work is continuing the RIB on working from home.

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 I

ACTIVITY	
CRC	
Total number of chapters in region	15
Number of chapters present	8
Number of GA chapter chairs present	8
Percentage of participation	53%
Percentage of GA chapter chair participation	53%
No. of planning sessions held	13
PAOE	
No. of Chapters Reporting PAOE Points:	13
No. of Chapters Making Society Minimum :	13
No. of Chapters Making Society PAR :	9
Highest PAOE Points by a Chapter:	2400
Percentage of chapters reporting	86%
Percentage of chapters making Society Minimum	73%
Percentage of chapters making Society PAR	60%
CHAPTER VISITS	
No. of visits made:	1
No. of visits scheduled:	1
Percentage of chapters visited:	6%
GAC AWARDS	
Government. Affairs Award	1
Government Outreach Days	
No. of Chapters Participating	8
No. of government officials visited	6
No. of ASHRAE members participating	60-80
No. of Chapters reporting	8
No. of days duration	1

GAC RVC Report – Year End Region I

SY 2021-2022

Artorius M Reyes

Regional Goals

Primary Goals

- Continue to bring awareness of ASHRAE to City/State officials across the region through outreach events and networking.
- Maintain and grow relationships with City/State entities and officials across the region.
- Give awareness to ASHRAE members of important legislation, code and standards changes
- Grow the ASHAE brand among City/state entities and members as much as possible across the region

Member States of Region I

New York

New Jersey

Connecticut

Massachusetts

New Hampshire

Rhode Island

Vermont

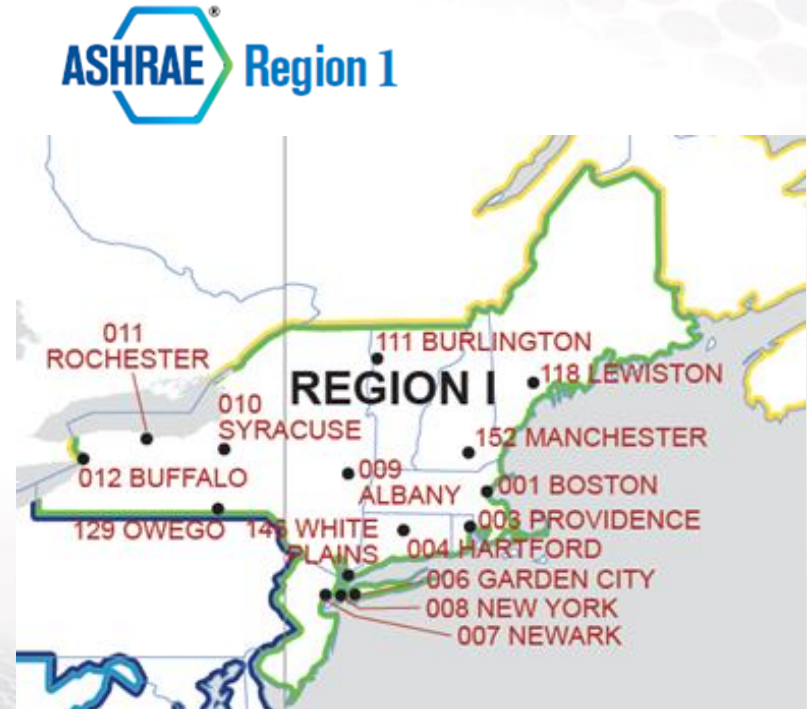
Maine



RVC Goals

Primary Goals

- Continue to support and maintain Chapter Engagement Quarterly meetings w/ NYSERDA & NY State
- Establish New Engagement Plan w/ 2nd State in Region I
- Establish more Streamlined RVC Management Structure
- Begin succession planning for next Region 1 RVC
- Spend more time as GAC Mentor to support new GAC RVC's





Regional Legislative Updates

New York State

- **Advanced Building codes, Appliance and Equipment Efficiency Standards Act of 2022**
 - Updated State Energy Code to reflect “Latest published version of Standard 90.1”
 - Removes barriers for Stretch 2023 to be adopted Statewide
- **Utility Thermal Energy Network and Jobs Act**
 - Directs Public State Commission to develop district thermal heating/cooling systems through the states (7) largest utilities.
 - Each utility to develop and submit Plans for Pilot Programs for 1-5 projects within 3 Months.

Connecticut

- **HB – 5479 AN ACT CONCERNING INDOOR AIR QUALITY IN SCHOOLS.**
 - Bill would require school HVAC systems to operate in accordance with Standard 62. Was proposed but did not pass. CT still working through upgrading standards for schools around ventilation and IAQ.

Massachusetts

- **Building Energy Reporting & Disclosure (BERDO) 2.0**
 - Sets emissions targets and reporting requirements for buildings greater than or equal to 20,000 square feet. (Similar to LL-97 in NYC)



Regional Legislative Updates

New Hampshire

- **HB 1258 - AN ACT relative to the implementation of the department of energy**
 - Authorizes the implementation of State Department of Energy.
- **HB 1681 -AN ACT relative to the State Building Code and the State Fire Code**
 - Adoption of International Building Code - 2018
 - Adoption of International Existing Building Code – 2018
 - Adoption of International Plumbing Code – 2018
 - Adoption of International Mechanical Code – 2018
 - Adoption of International Energy Conservation Code – 2018
 - Adoption of International Swimming Pool and Spa Code – 2018
 - Adoption of International Residential Code – 2018
 - Adoption of Uniform Fire Code NFPA 1 – 2018
 - Adoption of National Electric Code – 2020
 - Creates new legislative commission to review state code adoption and amendment proposals.



Regional Progress Highlights

Vermont

- **VT Climate Action Plan/VT Comprehensive Energy Plan Presentation**
 - Champlain Valley Chapter hosted Virtual Presentation on VT Comprehensive Energy Plan.
 - Presentation done by two individuals at Vermont Department of Public Service

Massachusetts

- **Building Energy Reporting & Disclosure (BERDO) 2.0**
 - Boston Chapter hosted event providing details of the updated building ordinance to members at Chapter Dinner Meeting.

Connecticut

- **Continuing to host monthly code & legislative updates.**
 - GAC Chair is a member of CT Code Council

New York

- **NY State vs NYC Energy Code Discussion**
 - NY Chapter hosted joint City/State event with representatives from NY State and NYC discussing the differences in the energy codes, things to look out for, and the future of code in NY

Regional GAC Group #1

- **Bi-State / Boston / Connecticut**
 - Planning Joint Event on IAQ in K-12 Schools

Regional Challenges

- Hybrid In-Person/Virtual Events (COVID Impact)
- Travel challenges (Presenters/Members)
- Fast Changing Political Landscape
 - Decarbonization
 - IAQ focus for schools
- Active But Disconnected Members
 - Chapters in NY moving at different paces
 - Varying government relationships across the region
- Definition of Government Outreach Changing
 - What do we do when relationships exist and work to be done?
 - How to stay aligned as to not duplicate efforts?



RVC Lessons Learned

- Need better focus on pace and sustainability of relationships/programs.
- Lean more on ASHRAE Staff for support & guidance
 - Policy/Legislation Commenting
 - Bill Tracking & Testimonies
- Better prioritization of mentorship



Shaping Tomorrow's
Built Environment Today

Region Summary

ashrae.org

State	Chapter Name	Active Chair	PAOE Points (to date)	Chapter Visits	CRC Attendance
New York	Bi-State	Yes	1500	1	No
	Central New York	Yes	1100	0	Yes
	Long Island	Yes	2400	0	Yes
	New York	Yes	1050	N/A – Home Chapter	
	Niagara Frontier	Yes	400	0	No
	Northeast	Yes	900	0	No
	Rochester	Yes	850	0	No
	Twin Tiers	Yes	1500	0	Yes
New Jersey	New Jersey	No	450	0	No
Connecticut	Connecticut	Yes	2100	0	Yes
Massachusetts	Boston	Yes	1050	0	Yes
New Hampshire	Granite State	Yes	1950	0	Yes
Rhode Island	Rhode Island	No	0	0	No
Vermont	Champlain Valley	Yes	1300	0	Yes
Maine	Maine	Yes	0	0	No



Shaping Tomorrow's
Built Environment Today

ashrae.org

2022 -2023
Outlook
"Things In
The Works"



Continued work on NY Advisory Panels
(CLCPA & LL-97)



Continued Chapter Engagement
w/NYSERDA



Continued work on Connecticut Code
Council



Focus on technical training around new
code adoption in New Hampshire

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

ACTIVITY	
CRC	
Total number of chapters in region	9
Number of chapters present	9
Number of GA chapter chairs present	8
Percentage of participation	100%
Percentage of GA chapter chair participation	89%
No. of planning sessions held	5
PAOE	
No. of Chapters Reporting PAOE Points:	8
No. of Chapters Making Society Minimum :	5
No. of Chapters Making Society PAR :	2
Highest PAOE Points by a Chapter:	1100
Percentage of chapters reporting	89%
Percentage of chapters making Society Minimum	56%
Percentage of chapters making Society PAR	22%
CHAPTER VISITS	
No. of visits made:	2
No. of visits scheduled:	0
Percentage of chapters visited:	22%
GAC AWARDS	
Government. Affairs Award	One candidate submitted from Region II
Government Outreach Days	
No. of Chapters Participating	4
No. of government officials visited	?
No. of ASHRAE members participating	9 - Mick Schwedler, Corey Metzger, John Cusato, Alekhya K. Niss Feiner, John Molnar, Tom Kendell, Adrienne Mitani
No. of Chapters reporting	4
No. of days duration	Most are Virtual



Region II GAC Update

Mike Genin

June 24, 2022

Summer Conference



Overview of Chapters

						Meetings			
		PAOE	Attended Workshop	Year Plan	Mid-year plan	Local	State	Federal	Complete
Windsor	Paul Greff	800	Y	Y	Y	3	4	0	
London	Andrew Crowley	350	Y						
Hamilton	Mustafa Morsy	300	Y						1
Toronto	Marli Moise	950	Y	Y		1	1	1	7*
Ottawa	Ryan Dickinson	1100	Y	Y	Y	1		1	2
Montreal	Jean-Sebastien Trudel	50	Y						
Quebec	Jean Bundock	1100	Y	Y	Y	2	2	1	
Halifax	Tom Kendell	700	Y	Y	Y	2	2	1	2
NB / PEI	Rob Hoadley	0	N						

*6x March Provincial meetings yet to be formally submitted.



Highlights from Region II

- EE Canada - Toronto Chapter member Badri Patel featured as “human of Energy Efficiency”
- Toronto Chapter meeting with OMC + Corey Metzger, City of Toronto “green standard” at dinner meeting, 6x virtual outreach meetings with MPP’s joint HRAI
- Hamilton Chapter meeting with MPP (provincial) regarding COVID 19
- Quebec Chapter hosted ASHRAE booth at local Buildings trade show
- Ottawa Chapter, meeting with MP (federal), meeting with Mick Schwedler and NRCan



In Progress / Goals

- Hamilton Chapter working on draft letter to Ontario Gov regarding COVID 19
- Encourage chapters to hit their number of Meetings
- Encourage chapter chairs to follow up with their local school boards and other local governments
- Make more chapter visits, focus on smaller chapters
- Spring 2022 Day on the Hill event, postponed until Fall 2022

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 2022

ACTIVITY
CRC
Total number of chapters in region: 11
Number of chapters present: 5
Number of GA chapter chairs present: 4
Percentage of participation: 45%
Percentage of GA chapter chair participation: 36%
No. of planning sessions held: 9
PAOE
No. of Chapters Reporting PAOE Points: 7
No. of Chapters Making Society Minimum : 1
No. of Chapters Making Society PAR : 3
Highest PAOE Points by a Chapter: 2750 (Central PA)
Percentage of chapters reporting: 64%
Percentage of chapters making Society Minimum: 36%
Percentage of chapters making Society PAR: %
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 Central PA.
Government Outreach Days – 1
No. of Chapters Participating: 2
No. of government officials visited: 10
No. of ASHRAE members participating: I believe 4 or 5
No. of Chapters reporting: 1
No. of days duration: 1



ASHRAE Region 3

Winter Meeting Government Affairs Report

GA - Chapter Breakdown

Chapter	PAOE	Min or Par?	End of Year Follow Up	Highlight
PHILADELPHIA	0	-	-	
CENTRAL PENNSYLVANIA	2750	PAR	Yes	Hugely successful DOTH event
JOHNSTOWN	250	-	-	
PITTSBURGH	50	-	-	
BALTIMORE	1750	PAR	Yes	Multiple testimonies to MD government
NATIONAL CAPITAL	0	-	-	
HAMPTON ROADS	1600	PAR	Yes	Regional Schools and COVID presentation to ASHRAE chapter and local government members.
LEHIGH VALLEY	0	-	-	
ROANOKE	0	-	-	
ANTHRACITE	500	MIN	-	
RICHMOND	200	-	-	
Note: PAOE is as of 6/16/2022				

Strong finish to the year by the few very active chapters in my region

2/3 high performing GACs staying on for next year, with the third moving onto a board position, but rolling in a committee member.

Regional Accomplishments

- Baltimore Chapter members spoke at multiple government testimonies.
- Central PA had a massively successful Day on the Hill event and met with 10 state representatives. Legislation the Central PA chapter assisted with earlier in the year pass the house as well.
- Hampton Roads GAC researched all school districts within their chapter area to understand their COVID action plans. Developed a presentation and panel that was held during the May chapter meeting to great success.

Regional Struggles

- Similar struggles with hearing back from chapter chairs.
 - Numerous smaller chapters struggle with fielding a GA Chair as it is, which is common in this region.
- Continued personal struggles of managing work, a baby, dogs, life, and ASHRAE. Seemed to finally be getting things together in May/June.

Goals and Objectives

- Follow up on Chapter's GA outreach events to get the events to actually happen.
 - *Proud that one chapter held a Day on the Hill event that was very successful, though I don't think I was as helpful as I should have been.*
- Survive the first year as RVC.
 - *I am still in fact alive*
- Continue the push to get in front of local elected officials to chapter chairs. Simple things like County Board of Supervisors, School Boards, etc. are relatively easy to attend and speak for 2 minutes.
 - *I will continue this approach, and continue to try and find paths for all chapters, not just those at state capitals, to get their face out there and talk. Still strongly believe that continued and somewhat frequent meetings are the best way for elected officials to remember us and reach out for help.*

Goals/Objectives for 2022-2023

- Continue with being frequent with my communication to my GACs. Gentle reminders are always nice to have.
- Hold another Day On The Hill event in my region, potentially 2 if the Central PA folks do theirs again. (No excuse for us Virginian's to get schooled by PA!)
- Personally I would like to get back in front of some of the VA state government and my local county/school board.

Bonus Baby Photos



RVC REPORT: FY22 - 23

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 IV

ACTIVITY	
CRC	
Total number of chapters in region	7
Number of chapters present	7
Number of GA chapter chairs present	4
Percentage of participation	100%
Percentage of GA chapter chair participation	57%
No. of planning sessions held	1
PAOE	
No. of Chapters Reporting PAOE Points:	7
No. of Chapters Making Society Minimum:	5
No. of Chapters Making Society PAR :	5
Highest PAOE Points by a Chapter:	1950
Percentage of chapters reporting	71%
Percentage of chapters making Society Minimum	71%
Percentage of chapters making Society PAR	71%
CHAPTER VISITS	
No. of visits made:	1
No. of visits scheduled:	2
Percentage of chapters visited:	14%
GAC AWARDS	
Government. Affairs Award	0
Government Outreach Days	
No. of Chapters Participating	3
No. of government officials visited	11
No. of ASHRAE members participating	5
No. of Chapters reporting	3
No. of days duration	9

ASHRAE

2022 Annual Conference

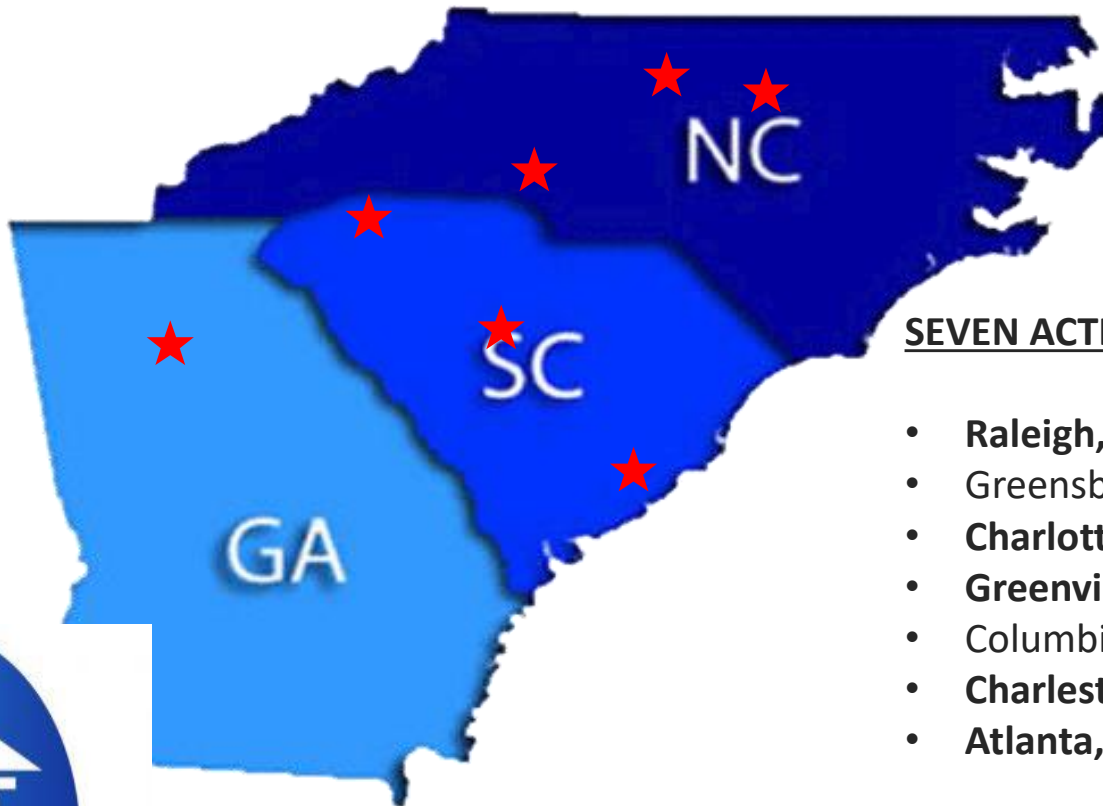
Toronto, Ontario Canada

June 24, 2022



R Timothy Ashby, GAC RVC





SEVEN ACTIVE CHAPTERS:

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



Special Mention Activities



- **Georgia:** Virtual Government Outreach Day (Dec 21)
- **Augusta Georgia:** Smoke Free Ordinance Discussions
- **Energy Efficiency Day Proclamation:** NC Governor Cooper.
- **City of Charlotte:** NC Engineers Week Proclamation.
- **City of Atlanta Council Townhall:** IAQ & COVID Mitigation Engagement.
- **Georgia Department of Health:** Legionella Prevention Workshop engagement.
- **SC Senators Lindsey Graham and Tim Scott:** Introduced to ASHRAE & Available Sources.
- **NC Representative Kelly Haskins:** Discussed Decarbonization and Building Performance Goals – Executive Order 80



ASHRAE HEADQUARTERS GRAND OPENING

- State Director (Chandra Harris) for Senator Ossoff, and Meredith Lilly) for Senator Warnock Attended and Presented.
- Peachtree Corners Mayor Mike Mason Attended and Presented



Appointments



- **Natalie McDonald** - Triangle Chapter President: NC Building Code Council



- **Kirby Lee** - Former Triangle Chapter President: NC Energy Ad Hoc Committee



- **Ginger Scoggins** - ASHRAE Treasurer: NC Wake County Energy Commission



Positive Activities



Highlights

- Five of seven chapters exceeded PAOE PAR.
- Highest PAOE to Date: 1950
- Broader Participation by More Chapters: Local Level Focus – Average of 1650 POAE of the Chapters Exceeding PAR.
- Six of seven Chapter Chairs are past presidents and/or past chairs.
- 100 % Chapter attendance & 57% Chair attendance at CRC GAC Training.



2022 OUTLOOK



Opportunities



- Improving Meaningful Government Outreach Events by more Chapters.
- Continue to Develop Local Level Contacts: State, City, County, and School Boards.
- Assist Chapter recovering from pandemic affects.
- Continue to Encourage participation in State Boards & Councils.
- [New and improved incoming RVC: Weston Hockaday.](#)



Government Affairs Report
2022 Region IX
Summer Meeting

Andrea Phillips

GAC RVC Report

- 2021 – 2022 Data (as of June 16, 2022)
 - 8 chapters reporting PAOE
 - 6 chapters achieving Society PAR
 - 6 Chapters above Society Min.
 - Highest point total is Utah @ 1900
 - 11 of 13 chapters have a GAC Chair.
 - 5 Chapters present at CRC training (4 chairs, 1 member)
 - 8 chapter chairs sent written goals for the year
 - Chapter visits suspended for 2021 - 2022 by DRC

Chapter Number	Chapter Name	GAC PAOE Points	Attended CRC	PAR 1000	MIN 500	GAC Chair
53	Kansas City	1775	Y	X	X	Y
72	El Paso	0				N
73	Rocky Mountain	150	Y			Y
74	Utah	1900	Y	X	X	Y
75	Nebraska	1300	Y	X	X	Y
76	Wichita	100				Y
77	New Mexico	0				Y
93	South Dakota	1775	Y	X	X	Y
127	Black Hills	0				N
131	Big Sky	0				Y
135	Idaho	1250	Y	X	X	Y
148	Pikes Peak	1150	Y	X	X	Y
150	Ozarks	0				Y

GAC RVC Report

- 2021-2022 Government Outreach Days
 - Kansas City (JOCOBO) monthly meetings regarding building code adoptions and ongoing discussions about code application.
 - Utah: 4 outreach events during Fall 2021
 - Idaho Planning Outreach (Spring)
 - Idaho City of Boise Outreach (spring)
 - South Dakota Outreach (Spring)
 - Nebraska State Outreach (Spring)
 - Kansas City State Outreach (Spring)

GAC RVC Report

- Current Hot Topics:
 - Utah HBA proposing to undercut residential energy code adoptions going straight to legislature requesting modification of current law.
 - Idaho HBA proposing to undercut residential energy code adoptions.
- Success Stories
 - Kansas City has maintained presence on JOCOBO during pandemic, participating in every session they have met.
- Challenges
 - Smaller chapters in the region are having trouble filling board positions and cannot fill Committee Chair Positions.

GAC RVC Report

- Lessons Learned:
 - Lawmakers appreciate when we are prepared for meetings with reference to proposed legislation. This is available thru Fiscal Note.

GAC RVC Report

- Society Year 2021-2022 RVC Goals:
 - Visit one chapter in the region other than home chapter as RVC duty. (Not complete – by DRC direction)
 - Maintain presence on KC chapter GAC committee. (Complete)
 - Attend 2-3 regional government outreach events personally with the participating chapters. (Not complete. Attended Kansas City Outreach Event.)
 - Have DRC Tyler Glesne attend a planned Nebraska outreach day. (Not Complete).
 - Encourage every chapter:
 - To have a GAC chair or a past president completing GAC activities. (attempted but not complete).
 - To maintain PAR or better in PAOE. (Attempted but not complete)
 - To host a Government Outreach Day OR a virtual visit with at least one government official. (Attempted but not complete).

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:	VII
Total number of chapters in region	14

CRC (if not reported on since last Society Meeting)

Number of chapters present	
Number of GA chapter chairs present	
Percentage of participation	0%
Percentage of GA chapter chair participation	0%
No. of planning sessions held	

PAOE

No. of Chapters Reporting PAOE Points:	11
No. of Chapters Making Society Minimum :	7
No. of Chapters Making Society PAR :	2
Highest PAOE Points by a Chapter:	1850
Percentage of chapters reporting:	79%
Percentage of chapters making Society Minimum	50%
Percentage of chapters making Society PAR:	14%

CHAPTER VISITS

No. of visits made:	1
No. of visits scheduled:	0
Percentage of chapters visited:	7%

GAC AWARDS

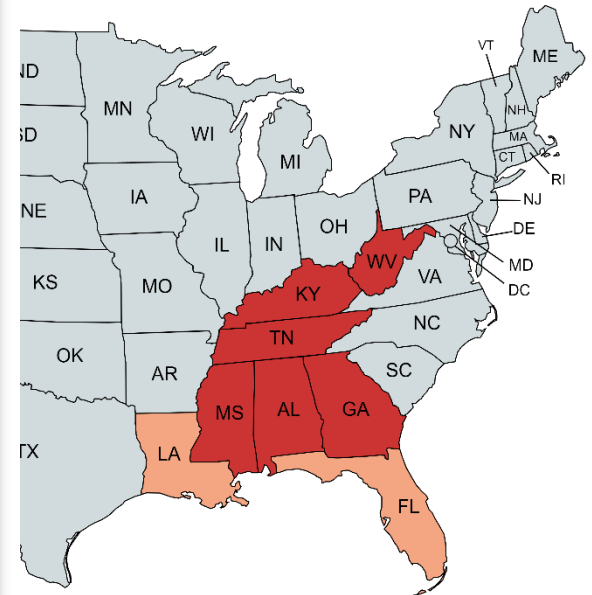
Government. Affairs Award Applications	0
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GOVERNMENT OUTREACH DAYS

No. of Chapters Participating	1
No. of government officials visited	10
No. of ASHRAE members participating	3
No. of Chapters reporting	1
No. of days duration	1

ASHRAE Region VII

Government Affairs
Summer Meeting 2022



Chapter Engagement

Chapter	GAC Chair	Terms	Chapter Members	PAOE Points
Baton Rouge	No Chair	N/A	91	100
Birmingham	Zach Smith	1	224	300
Bluegrass	Christian Tipton	1	102	650
East Tennessee	Andy Myers	1	221	500
Louisville	Will Spiller	1	183	600
Memphis	Mike Bilderbeck	4	159	1275
Mississippi	Ryan Williams	1	73	0
Mobile	No Chair	N/A	45	200
Nashville	Jim Murphy	1	309	550
New Orleans	No Chair	N/A	122	0
North Alabama	No Chair	0	55	100
Northwest Florida	No Chair	N/A	57	0
Tennessee Valley	Scott McKenzie	N/A	79	900
West Virginia	David Cotton	2	76	1850

Region VII Highlights

NORTH ALABAMA

- New statewide GAC Chair will coordinate all Alabama chapters (North Alabama, Birmingham, Mobile)

MEMPHIS

- Hosted joint meeting with codes officials
- Attended government board meetings
- Adopted 2021 IBC for Shelby County

NASHVILLE

- Attended Engineer's Day on the Hill, co-sponsored by ACEC and TSPE
- Governor Bill Lee issued Proclamation for E-week

LOUISVILLE

- Working with the Department of Housing to incorporate ASHRAE standards into their residential projects

WEST VIRGINIA

- Art Hallstrom, PE, FASHRAE, BEMP (WV) selected for State Energy Office "Efficient & Health Schools Campaign" Advisory Committee
- Hosted 6th Annual High Performance Building Day, planning for 2022

Opportunities

CRC: Retain last year's chairs, and assign chairs to chapters without them

Assign experienced lead person for each state with multiple chapters

More stretch goals for 2nd year chairs. Make it harder!

Piggyback on government outreach activities that are already in the works

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 X

ACTIVITY	
CRC	
Total number of chapters in region	14
Number of chapters present	8
Number of GA chapter chairs present	7
Percentage of participation	57%
Percentage of GA chapter chair participation	50%
No. of planning sessions held	8
PAOE	
No. of Chapters Reporting PAOE Points:	7
No. of Chapters Making Society Minimum :	1
No. of Chapters Making Society PAR :	0
Highest PAOE Points by a Chapter:	900 (Tucson)
Percentage of chapters reporting	50%
Percentage of chapters making Society Minimum	7%
Percentage of chapters making Society PAR	0%
CHAPTER VISITS	
No. of visits made:	0
No. of visits scheduled:	2
Percentage of chapters visited:	50% (cumulative through term)
GAC AWARDS	
Government. Affairs Award	-
Government Outreach Days	
No. of Chapters Participating	0
No. of government officials visited	0
No. of ASHRAE members participating	0
No. of Chapters reporting	0
No. of days duration	0



GAC Report – Region X

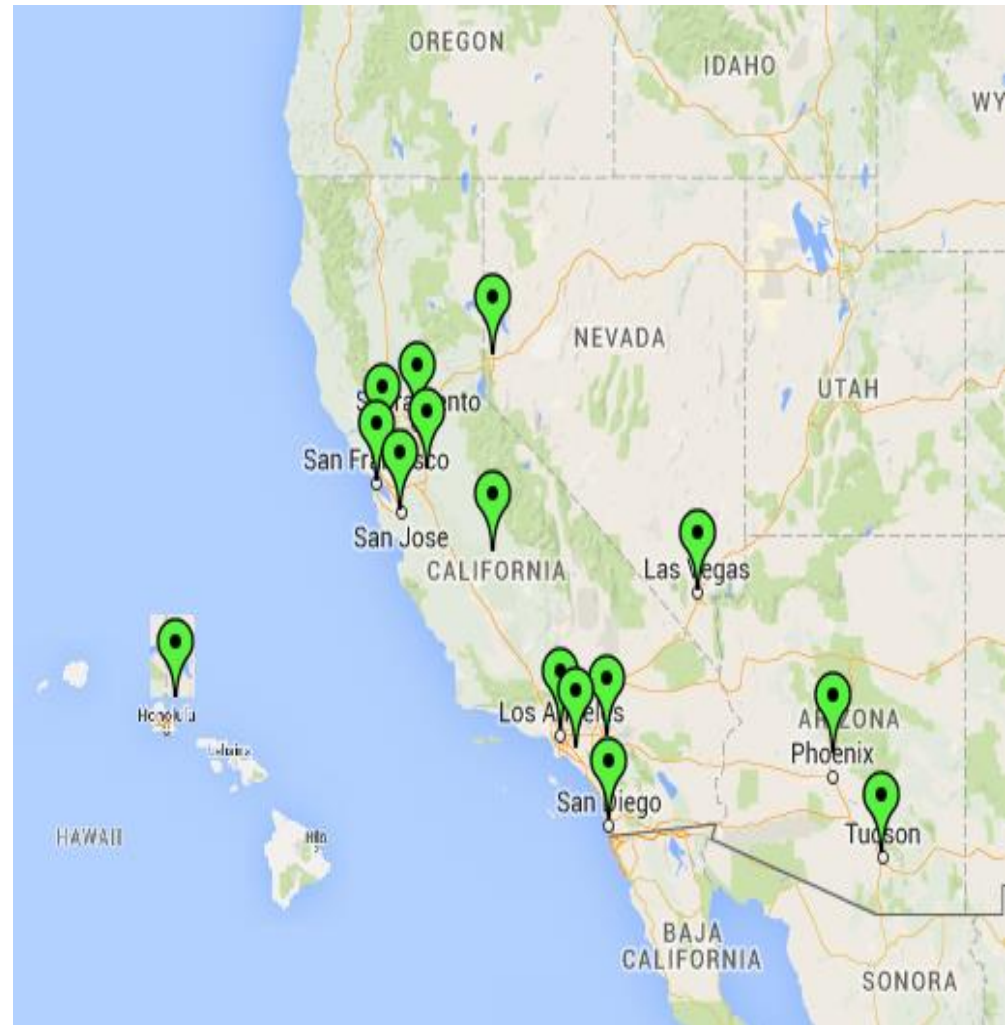
ASHRAE Annual Conference
Toronto, ON
June 24th, 2022

Colin E. Laisure-Pool, GAC RVC 2020-2022, Region X

“Where the Desert Meets the Ocean”

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



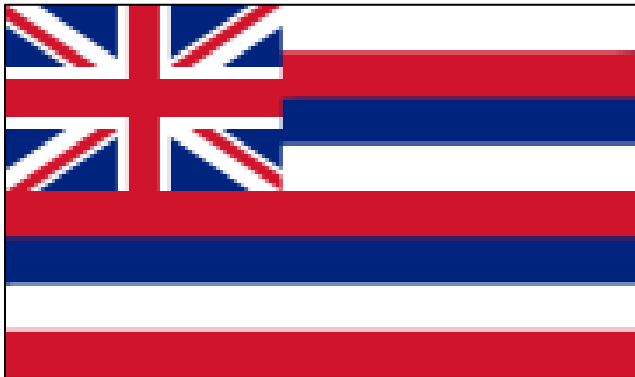
“Where the Desert Meets the Ocean”



Arizona



California



Hawaii



Nevada

Overall Review (2021-2022)

Highlights:

- Planning Meetings with Key (and new!) Chairs:
 - Carson Hubred (Southern California)
 - Kevin Luoma (Hawaii)
- Activity in Nevada (ETF guidelines w/r/t cannabis legislation)
- California (Mechanical) Code Comments – (3) Submissions to IAPMO
- Letter to AZ School Superintendents Reinforcing COVID Guidelines
- Presentation to Central AZ Chapter on GAC Basics
- Robust Discussion Continues on Decarbonization and T24 in California

Overall Review (2021-2022)

Challenges:

- Spring Government Outreach Days Never Materialized
 - Hawaii and Nevada weren't able to have GOEs (Nevada is on furlough)
- All 3 Comments to IAPMO for 2024 California Mechanical Code Amendments – Rejected
- 2nd Consecutive Virtual CRC (in Orange Empire) Suffers Reduced Attendance and Participation
 - Despite interactive presentation, 'Zoom Fatigue' dominates
 - 'Online Ennui'
- Several Chapters' GAC Activity Evaporates
 - Central Arizona
 - Sac Valley

Chapter Engagement – Virtual CRC in Orange Empire

10 out of 14 Chapters Have Assigned GAC Chairs:

CHAPTER	GAC CHAIR	CRC (8/14)	Planning
CENTRAL ARIZONA	NO	NONE	YES
GOLDEN GATE	YES	CHAIR	YES
HAWAII	YES	CHAIR	YES
NORTHERN NEVADA	NO	NONE	NO
ORANGE EMPIRE	YES	CHAIR	NO
SACRAMENTO VALLEY	NO	NONE	NO
SAN DIEGO	YES	CHAIR	YES
SAN JOAQUIN	YES	CHAIR	YES
SAN JOSE	YES	CHAIR	YES
SIERRA DELTA	YES	NONE	NO
SOUTHERN CALIFORNIA	YES	NONE	YES
SOUTHERN NEVADA	YES	CHAPTER	NO
TRI COUNTY	NO (Chapter President)	NONE	NO
TUCSON	YES	CHAIR	YES
Region X Participation	10/14	8/14	8/14

Chapter Engagement 2021-2022

7 out of 14 Chapters Reporting PAOE Points:

Chapter#	ChapterName	Chapter Members	GAC: Min 500; PAR 650	Chapter PAOE Totals	% of Total
81	SACRAMENTO VALLEY	282	0	2730	0%
82	GOLDEN GATE	806	350	4965	3%
83	SAN JOAQUIN	107	150	2940	4%
84	SOUTHERN CALIFORNIA	628	0	4575	0%
85	SAN DIEGO	340	450	5740	6%
86	CENTRAL ARIZONA	433	350	2730	9%
87	TUCSON	92	900	3290	14%
92	SOUTHERN NEVADA	146	0	785	0%
101	SAN JOSE	300	0	3015	0%
105	ORANGE EMPIRE	390	100	1890	3%
108	HAWAII	242	50	3235	1%
126	NORTHERN NEVADA	85	0	1725	0%
144	SIERRA DELTA	48	0	1560	0%
155	TRI COUNTY	72	0	570	0%

Chapter Visits (3 Year Term – 14 Chapters)



2019-2020

- Central Arizona
- San Joaquin
- Golden Gate
- San Jose
- Sacramento
- Tucson

2020-2021

- Northern Nevada
- Sierra Delta
- Hawaii
- Tri-County

2021-2022

- Southern Nevada
- Orange Empire
- San Diego
- Southern California



ASHRAE Government Outreach Days

Arizona – March 24th, 2022 - Cancelled

Colin Laisure-Pool – Central AZ Outreach Day Steering Committee Chair

California – Cancelled

Team NorCal:

Vanessa O'Connor (San Jose)

Mitch Pinsker (Golden Gate)

Justin Westmoreland (San Joaquin)

Team SoCal:

Arianna Nevins (San Diego)

Carson Hubred (SoCal)

Rafi Karim (SoCal)

Hawaii – Scheduled, but missed

Nevada – Never scheduled



Incoming Region X RVC – Ryan Carlson

Ryan Carlson, PE accepts RVC position for 2022-2025 term!



GAC Rocks!



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 7
Percentage of participation 100%
Percentage of GA chapter chair participation 78%
No. of planning sessions held 6
PAOE
No. of Chapters Reporting PAOE Points: 9
No. of Chapters Making Society Minimum: 5
No. of Chapters Making Society PAR: 4
Highest PAOE Points by a Chapter: 2300
Percentage of chapters reporting 99%
Percentage of chapters making Society Minimum 45%
Percentage of chapters making Society PAR 36%
CHAPTER VISITS
No. of visits made: 1
No. of visits scheduled: 0
Percentage of chapters visited: 11%
GAC AWARDS
Government. Affairs Award 1
Government Outreach Days
No. of Chapters Participating 7
No. of government officials visited 0
No. of ASHRAE members participating 15
No. of Chapters reporting 6
No. of days duration 4



ASHRAE Region XI

GOVERNMENT AFFAIRS REPORT - SUMMER MEETING
2021/2022 SY

RVC Bio:

Daryl Collerman

Self-Employed Consulting Engineer and Building Commissioning Professional

Nanaimo, BC Canada

Chapter 145 Vancouver Island

GA Chapter Chair *2016/2017, 2017/2018, 2018/2019*

Chapter President *2019/2020*

Third Year of 3 Year GA RVC Term *2019/2022*

Chapter PAOE Synopsis 2020/2021:

Chapter	Points to date	Chair	Chair Activity	Chapter Visit
Manitoba	500	Yes	Minimal	No
Regina	550	Yes	Moderate	No
Saskatoon	0	No	None	No
Southern Alberta	850	Yes	None	No
Northern Alberta	1200	Yes	None	No
British Columbia	500	No	None	No
Vancouver Island	1850	Yes	Strong	Yes
Oregon	800	Yes	Moderate	No
Puget Sound	1000	Yes & Committee	Strong	No
Inland Empire	0	No	None	No
Alaska	2300	Yes	Strong	No

2021/2022 Chapter Accomplishments

- ✓ **Energy Efficiency Day Proclamation 10/07/21 Province of British Columbia (V.I. ASHRAE Chapter President Calvin Tripp)**
- ✓ **Joint TFBD Webinar November 16th Washington State PE's and Puget Sound ASHRAE, organized by Puget Sound GA Committee**
- ✓ **Northern Alberta and Southern Alberta ASHRAE Chapter Presidents Justin Phil & Saron Zerai drafted letter and had ASHRAE ETF Chair Bill Bahnfleth review & endorse with a letter. The letters were sent to School Board Officials and as a result the School District of Edmonton voted in favor of spending 6 million dollars to equip every occupied space within the school district with Stand-alone HEPA Filtration units.**
- ✓ **Norther Alberta and Southern Alberta Chapters Presidents Justin Phil & Saron Zerai arranged a joint webinar with the Association for Professional Engineers & Geologists of Alberta, and the Association of Science and Engineering Technology Professionals of Alberta, on March 1st featuring a presentation from ASHRAE ETF Chair Dr. William Bahnfleth and moderation by Robert Bean.**
- ✓ **Proclamation: National Engineers Week - Feb 20-26, 2022 (Oregon ASHRAE GA Chair Cindy Strecker)**
- ✓ **GA RVC Daryl Collerman and V.I. GA Chair Eric Loper organized a joint (BC & V.I ASHRAE Chapter) webinar presentation on April 12th featuring a presentation from ASHRAE ETF Chair Dr. William Bahnfleth and moderation by Robert Bean.**

Still in the works for 2022

Proclamations combined with Government Outreach

On June 23rd the Vancouver Island ASHRAE Chapter will be hosting a year end social and celebration of International Women in Engineering Day and the recognition of World Refrigeration Day, since women play a significant role in the Refrigeration Industry.

The V.I. GA Chapter Chair has reached to the City of Victoria and the 12 surrounding Cities, including all MLA's and MP's within the Greater Victoria area, with an invite to attend the event on June 23rd

This event will be reoccurring and will put into the V.I. CTTC schedule for 2022/2023

Link to to the event: <https://www.eventbrite.ca/e/vi-ashrae-celebrations-vi-ashrae-chapter-2021-2022-season-wrap-up-tickets-330260055717>

Lessons Learned from 2021/2022, SY

- ✓ The importance of in-person CRC's and the benefits of GA Chapter Chairs attending the CRC!!!
- ✓ The importance of stressing and impressing upon each Chapter BoG, the need for the Chapter to conduct government outreach activities and to have at least one active GA Chair and if possible, a GA Committee on the BoG. To conduct actual Government Outreach activities both virtual and or in-person, as GA Chapter Chairs, and Committees, are the Frontline representatives for getting the ASHRAE message out there to policy and decision makers.

Goals and Objectives for 2022/2023 SY

- ✓ Planning sessions with Chapter Chairs in August
- ✓ Strong focus on virtual or in-person meetings with Government, and Elected, Officials
- ✓ Promote Legislature event days and promotion booths
- ✓ Incorporate a Regional “Office Hours” on a regular basis
- ✓ Day on the Hill event in Ottawa in conjunction with Region II

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	
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	8
PAOE	
No. of Chapters Reporting PAOE Points:	13
No. of Chapters Making Society Minimum :	13
No. of Chapters Making Society PAR :	10
Highest PAOE Points by a Chapter:	3050
Percentage of chapters reporting	81.25%
Percentage of chapters making Society Minimum	81.25%
Percentage of chapters making Society PAR	62.5%
CHAPTER VISITS	
No. of visits made:	3
No. of visits scheduled:	2
Percentage of chapters visited:	18.75%
GAC AWARDS	
Government. Affairs Award	None submitted
Government Outreach Days	
No. of Chapters Participating	10
No. of government officials visited	~90
No. of ASHRAE members participating	~52
No. of Chapters reporting	9
No. of days duration	~43



Government Affairs Committee Region XIII Report

June 2022: ASHRAE Virtual Meeting

Er. Albert Sin Yew Tek

Regional Vice Chair –

GAC (2021 – 2024)

sinyewtek@gmail.com





S/N	GAC Appointment (2021-2022)	Name	E-mail	Mobile
1	RVC	Er. Albert Sin	sinyt@singnet.com.sg	65-96576486
2	ISI Task Force	Mr. Henry Yeo	seckkanyeo@gmail.com	65-96356101
3	Singapore - Chair	Mr. Liew Kwong Chin	liew_kwong_chin@trane.com	65-82182600
4	Singapore - Co-Chair	Mr. Rajesh Balachander	pbraajesh@gmail.com	65-83329885
5	Hong Kong - Chair	Mr. Sung Ka Leung, Michael	michael.sung@wsp.com	852-93749876
6	Hong Kong - Co-Chair	Mr Wong Shu Hung	shwongg2001@yahoo.com	
7	Malaysia - Chair	Mr. Chea Suei Keong	chea.sueikeong@daikin.com.my	6012-3333500
8	Malaysia - Co-Chair	Mr. Leong Siew Meng	leong.siewmeng@gmail.com	6012-2042732
9	Taiwan - Chair	Mr. Sun Ting Jui	mizarluka@hotmail.com	886-953977800
10	Taiwan - Co-Chair	Dr. Yuh-ao Kang	derekkang@itri.org.tw	886-922420883
11	Philippines - Chair	Engr. Cesar Lui DL. Lim	cesarluis.lim@gmail.com	63-9178547618
12	Philippines - Co-Chair	Ms. Jaime Jajay E. Cruz	jajay@jjecruz.com	63-9175040608
13	Thailand - Chair	Mr. Pachern Sangbutsarakum	pachernsang@gmail.com	66-28852995
14	Thailand - Co-Chair			
15	Indonesia - Chair	Mr. Kafi Uddin	kafi4mail@gmail.com	62-81285205606
16	Indonesia - Co-Chair	Ms. Cahyarini Dwiatmo	ririn_cahya@yahoo.com	62-811961092
17	Japan - Chair	Mr. Kitaro Mizuide	mizuide@nikken.jp	
18	Japan - Co-Chair	Mr. Takashi Akimoto		
19	South Korea - Chair	Mr. Jaehoon Chung	jhchung@cnieng.co.kr	82-1045177922
20	South Korea - Co-Chair			
21	Macao - Chair	Mr. Cheong Chan Wa	johnsoncwc@gmail.com	85-366510652
22	Macao - Co-Chair	Mr. Lin Bin	ambitionbin@gmail.com	



Region XIII GAC PAOE Update (1 June 2022)

Chapter Name	2022 1 June	2020 - 2021	2019 - 2020	2018 - 2019
Singapore	1200	1050	2300	200
Hong Kong	1925	2300	5600	2250
Malaysia	4450	2100	1800	3450
Taiwan	1500	1700	1050	1100
Philippines	1425	3600	3800	8250
Thailand	1545	1050	700	1000
Indonesia	850	1650	700	2750
Japan	250	250	200	100
South Korea	150	250	200	350
Macao	675	9950	1100	200

Note:
For 2021-2022;
Par 1000, Min. 500

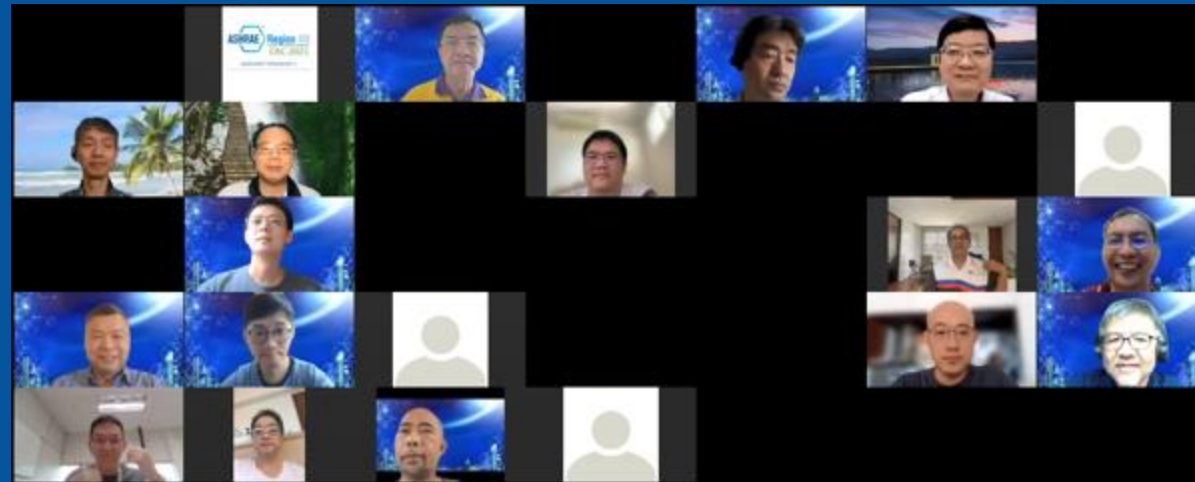


Past GAC meetings (2021 – 2022)

Virtual Meetings	Dates	Attendances
GAC Workshop	4 Sep. 2021	55
GAC Meeting no. 1	2 Oct. 2021	19
GAC Meeting no. 2	12 Mar. 2022	20
GAC Meeting no. 3	4 Jun. 2022	18



ASHRAE Region XIII Virtual CRC GAC Training Workshop, 4 September 2021



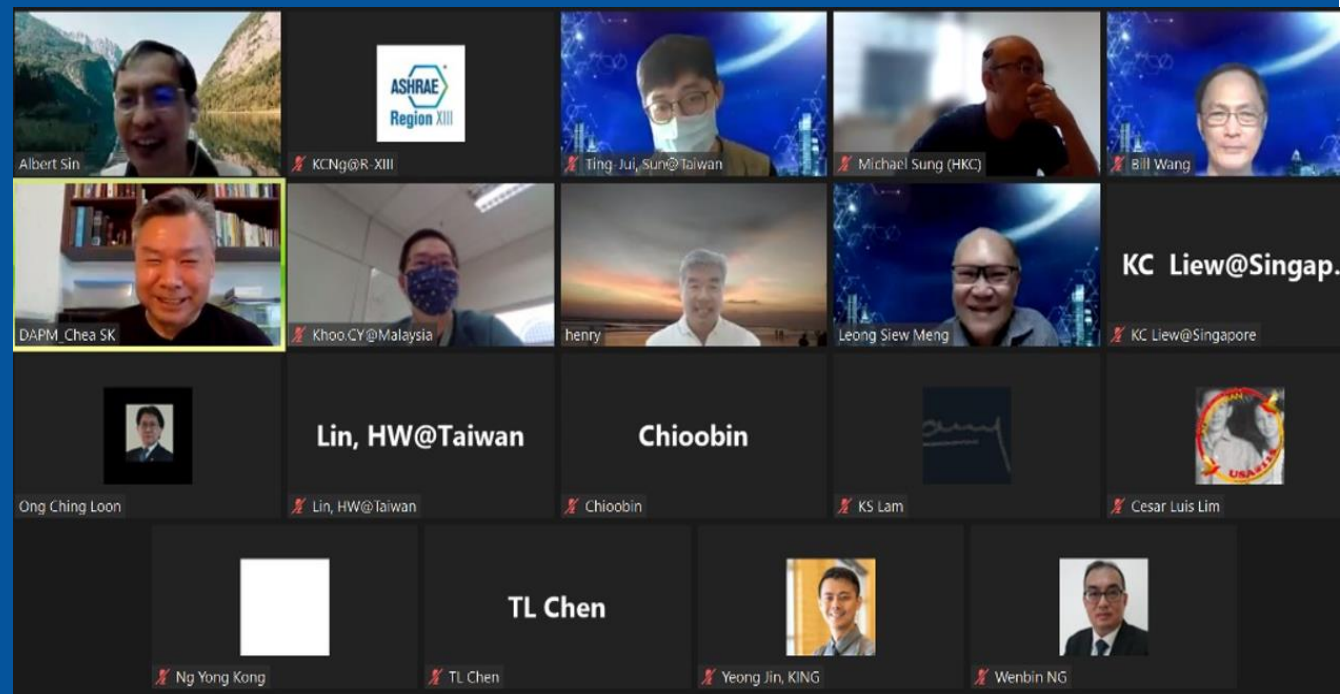
55 participants





ASHRAE Region XIII GA Virtual Meeting No. 1, 2 October 2021

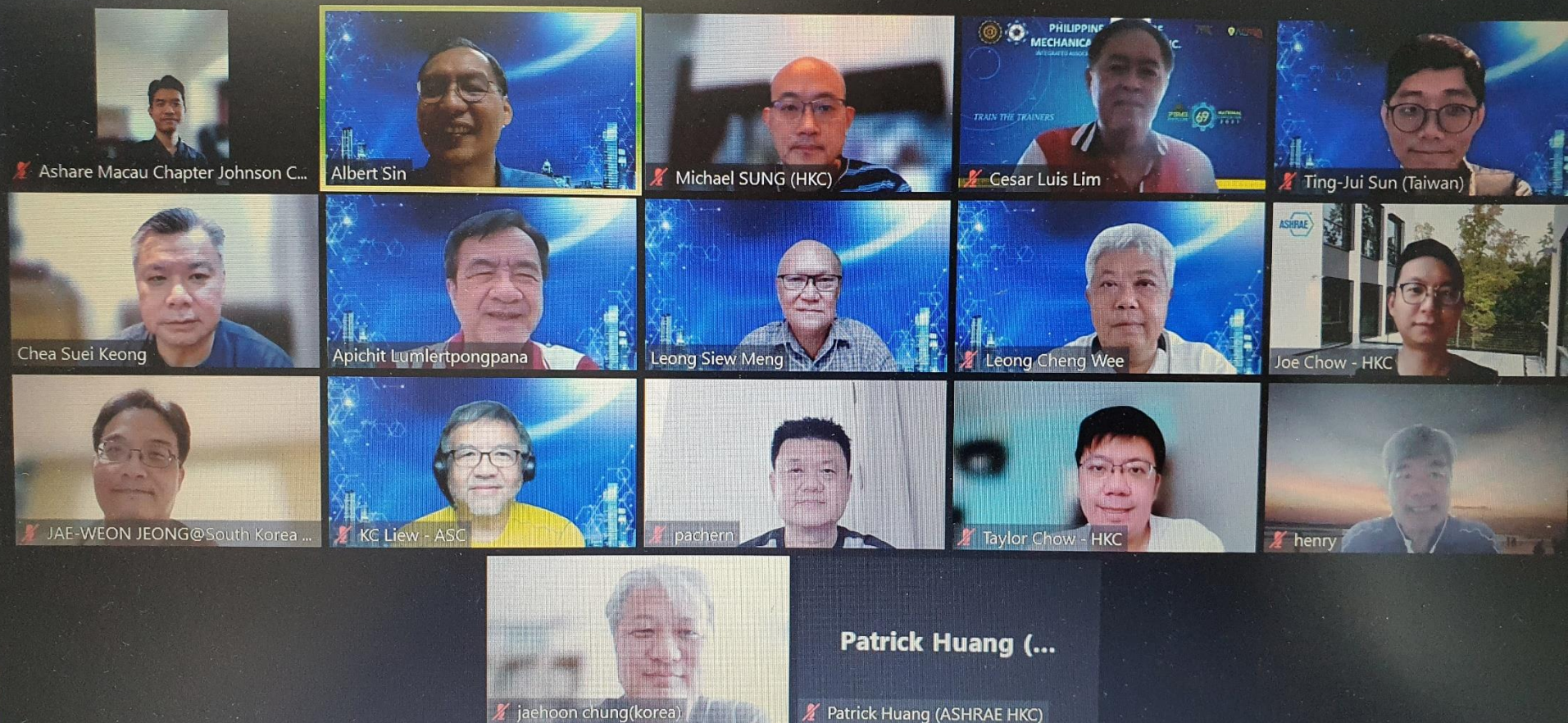
19 participants





ASHRAE Region XIII GA Virtual Meeting No. 2, 12 March 2022 (Sat)

20 participants





ASHRAE Region XIII GA Virtual Meeting No. 3, 4 June 2022 (Sat)

18 participants





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		

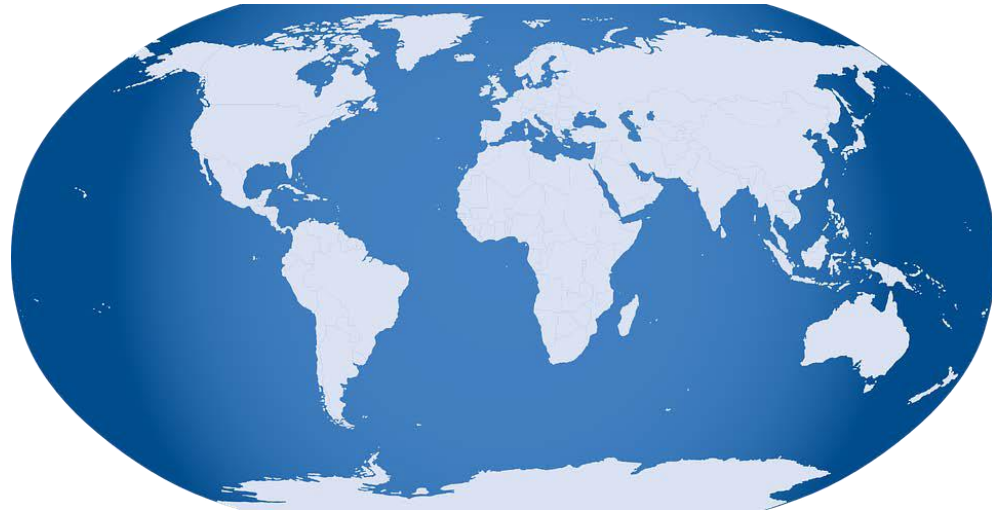
Local building codes or Standards on Air-conditioning, Mechanical Ventilation (ACMV)							
S/N	Local building codes or Standards	Title	Year version	Any ASHRAE member representation (Y/N)	Normative references to ASHRAE Standards/ Guidelines	Remarks	Attachments
1	SS 530:2014+A1:2018	SINGAPORE STANDARD: 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		
					ASHRAE Handbook of Fundamentals		
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		

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		

ASHRAE's Role in the Globalization of Standards

The International Standards Interaction Task Force



Henry Yeo
RXIII
12th March 2022



Task Force Groups' Scopes

- Harness ASHRAE technical resources to influence international standards impacting built environment.
- Informing leadership of international activities
- Provide recommendation on activities
- Provide recommendations on policies
- Implementing the international aspects of the Society Strategic plan
- Coordinating interactions internally and externally
- Serving as a resource to maximize international impacts of ASHRAE standards and technical work
- Coordinating with the Government Affairs Committee
- Provide guidance for policy makers on relevance of ASHRAE standards and international standards



Planned Virtual Meetings (2022 – 2023)

Planned zoom online meetings

CRC Tokyo, hybrid meeting August 2022

Zoom meeting, October 2022

Zoom meeting, March 2023

Zoom meeting, June 2023





The End

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	
CRC	
Total number of chapters in region	9
Number of chapters present	9
Number of GA chapter chairs present	6
Percentage of participation	100%
Percentage of GA chapter chair participation	67%
No. of planning sessions held	-
PAOE	
No. of Chapters Reporting PAOE Points:	3
No. of Chapters Making Society Minimum :	1
No. of Chapters Making Society PAR :	1
Highest PAOE Points by a Chapter:	1125
Percentage of chapters reporting	33%
Percentage of chapters making Society Minimum	11%
Percentage of chapters making Society PAR	11%
CHAPTER VISITS	
No. of visits made:	1
No. of visits scheduled:	-
Percentage of chapters visited:	11%
GAC AWARDS	
Government. Affairs Award	N/A
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	-



2022 ASHRAE
Annual Conference 

Region XIV - GAC Report

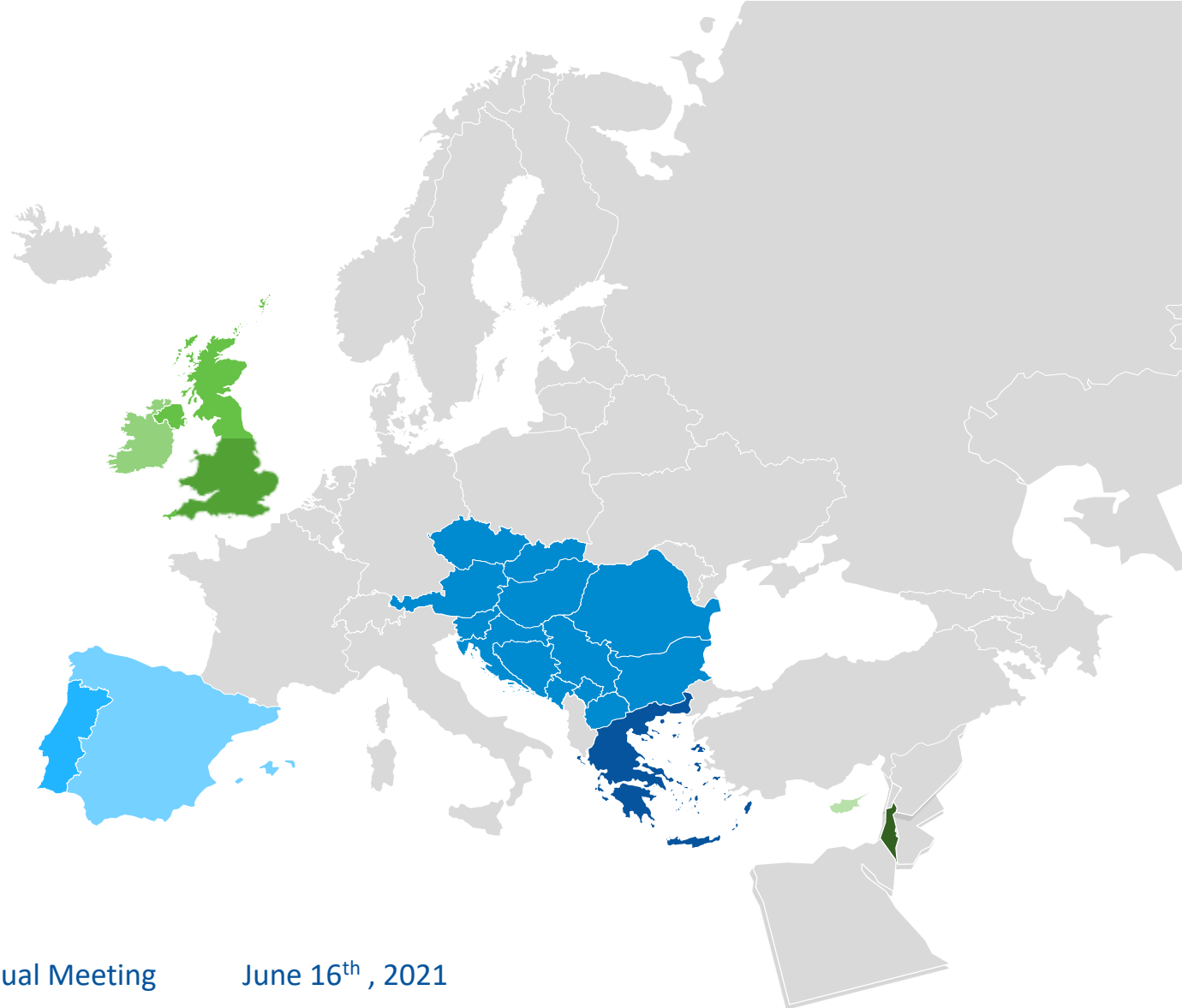
George Pantelidis

RVC-GA Region XIV

Hellenic Chapter

The Region

#	Chapter
168	Hellenic
176	Danube
177	Portugal
182	Spain
203	Cyprus
204	Ireland
205	UK Midlands
206	UK London
214	Israel



GA Workshop – Virtual CRC (26.8.2021 – 23 Participants)

Discussion on PAOE points

Spanish chapter

“Towards the decarbonization of buildings” event (27/5/2022). Head of the Technical Unit of the Energy Foundation of the Community of Madrid (FENERCOM) presented FENERCOM’s current plans for the decarbonization of buildings.

Translation Hof ASHRAE Building Decarbonization Position Document in Spanish.

Portuguese chapter

Participation in national legislation on smoking policy

Israeli chapter

Electricity and Energy annual conference (8-10/11/2021). Organized by the chapter. Minister of energy and 3 representatives for the Ministry of Economy and Industry. Topics discussed: Decarbonization Policy and how the chapter can support Israeli government 2050 net zero energy goal

ASHRAE Std 62.1 adoption by the Israeli Institute of Standards.

Hellenic chapter

Decarbonization Roadmap Guide for School Buildings (28/6/2022). Presentation will be given by a chapter BoD member in Energy Efficiency in Buildings Conference in Athens

International Building Decarbonization Conference 2022 organized by the TFBD in collaboration with the Hellenic chapter.



UK-London chapter First regional visit.



3 out of 9 chapters reporting GA PAOE Points:

Chapter	GA PAOE Points
Portugal	1125
Israeli	900
Ireland	25

7 out of 9 chapters has a GA chair



ASHRAE Region At Large

GOVERNMENT AFFAIRS 2021/2022

RVC Bio:

Gian Modgil

Consulting Engineer

Delhi, India

Chapter 158 India

GA Chapter Chair *2001/2002, 2006/2008, 2009/2010*

Chapter President *2004/2005*

GA ARVC SR-II *2017/2019*

GA RVC Term *2019/2022*

Chapter code	Chapter Name	Chapter AAM	Government Affairs: Minimum 500; PAR 1000
158	INDIA	199	2000
175	ASHRAE FALCON	357	1600
179	NORTHERN PAKISTAN	51	1700
181	BAHRAIN	60	600
188	ASHRAE MUMBAI	107	1750
189	CENTRAL PAKISTAN	46	500
207	SOUTH AFRICA	152	1750
211	PYRAMIDS	40	1850
215	EAST INDIA	59	500
217	CHANDIGARH	78	3200

Regional Accomplishments:

- ✓ 9 Government Outreach Days surrounding Standard 90.2, Standard 62.1, Standard 55, and Standard 154
- ✓ Ongoing relationship established with the Director General, Bureau of Energy Efficiency, Govt. of India for Residential Building Energy Code and Chiller Labelling Program
- ✓ Established contacts with Minister for Housing & Urban Affairs, Govt. of India for the 2021/2022 Day on the Hill Event (Postponed because of Covid upsurge in India)
- ✓ RAL ASHRAE members joined UNEP-Global ABC- Building Task Force and attended first meeting
- ✓ Participated as Jury Member for selection of Innovators for Facility for Low Carbon Technology Deployment program by UNIDO and BEE
- ✓ Participated as Advisor to World Bank TECH EMERGE SCI program under Climate Change Initiative for bringing Energy Efficiency in Hospitality Sector in Asia.

RAL Government Outreach Events

<i>National or Subnational</i>	<i>Date</i>	<i>Region</i>	<i>Chapter</i>	<i># of Meetings</i>	<i>Elected/Appointed Officials</i>	<i>Attendees (Volunteer Members)</i>	<i>Notes</i>
Subnational	4/22/2022	Region-At-Large	Chandigarh Chapter	1	Richie Mittral DRC, Ashok Patel, Gian Modgil, Balkar Singh, Money Khanna	35 ASHRAE Members	Mr. Devendra Dalal, Director Environment Chandigarh, has attended Earth Day Celebration combined with Government Outreach event by Chandigarh ASHRAE Chapter
Subnational	5/28/2022	Region-At-Large	India Chapter	1	Mr. Saurabh Didi, Director Bureau of Energy Efficiency, Richie Mittal, Gian Modgil	45	AIC organised conference on Sustainable Residential Buildings-Journey towards Excellence
Subnational	2/25/2022	Region-At-Large	Rajasthan Chapter	1	Webinar by DL Chandra Shekhar	15 ASHRAE Members	Oversized Air-Conditioning Systems & Overloaded Buildings in Hot & Humid Climates
National	4/9/2022	Region-At-Large	Western India	1	Ashok Patel, Pankaj Dharkar	25 ASHRAE Members	Life Safety Ventilation Systems – the need of the hour
International	2-Jun-22	ASHRAE	RAL	1	Ade Awujoola, Gian Modgil	2 ASHRAE members	ASHRAE Members attended the UNEP-Global ABC, Building Task Force First Call
National	10/28/2021	RAL	NPC	1	Khurram Raja, Javeria Manzoor	16	ASHRAE Northern Pakistan Chapter organised an event with local Government Officials to apprise them of ASHRAE Standard 90.1 and its application in Energy efficiency in Built Environment
National	11/28/2021	RAL	NPC	1	Khurram Raja, Javeria Manzoor	22	ASHRAE NPC organised a meeting with Pakistan Council of Architects & Town Planners and Pakistan Standard and Quality Control Association and apprised them of the benefits of ASHRAE standards
National	1/6/2022	RAL	NPC	1	Khurram Raja, Javeria Manzoor	35	ASHRAE NPC organised Conference and Expo and the same was attended by Housing Deptt. Of NAYA Pakistan and Rawalpindi Chamber of Commerce
National	4/11/2022	RAL	NPC	1	Khurram Raja, Javeria Manzoor	12	ASHRAE NPC organised meeting with Planning and Works Department of Pakistan regarding use of ASHRAE resources for upgradation of Standards in Pakistan
				9		207	

In-the-works/On-the-go

- ✓ Continued participation as Jury Member for Solar Decathlon India Challenge 2021-22 selection of Teams working towards Energy & Water efficiency along with Innovation and Resilience in Built Environment.
- ✓ Continued participation as Panel Member for revision of National Building Code Government Of India through Bureau of Indian Standards.
- ✓ Continued participation as Advisor to World Bank TECH EMERGE SCI program under Climate Change Initiative for bringing Energy Efficiency in Temperature Controlled Logistics in Nigeria and Retail Cold Chain Sector in India and Bangladesh.
- ✓ Continued participation as Jury Member for selection of Innovators for Facility for Low Carbon Technology Deployment program by UNIDO and BEE

Lessons Learned & Outcomes of 2021/2022

- ✓ The geographic spread of RAL requires physical meetings for both sub regions to train and develop relationship with GA Chapter Chairs and educate them on the subject of “How to get involved with Government Affairs”. But ongoing Pandemic has hampered that.
- ✓ The Pandemic since beginning of 2020 has shown the usefulness and benefits of the virtual platform and has provide good opportunities for affordable training. This tool has been best utilized by GA Chairs for webinars.

Goals and Objectives for 2022/2023

- ✓ Incorporate seasonal follow-up Training Workshops with GA Chapter Chairs
- ✓ Organize sub regional meetings
- ✓ Organize Meetings with each of the ARVC of Sub Region I & II bi-monthly basis
- ✓ Conduct in-person Chapter Visits
- ✓ Conduct 15 Global Day on The Hill Events in SY 22-23

Government Affairs Committee Report to EHC

GAC Liaison to EHC: [Meghan McNulty](#)

Annual Conference, 6/28/22

The **Government Affairs Committee** is responsible for organizing ASHRAE members to educate local, state, provincial, and national government bodies and officials in areas of interest to ASHRAE members, and to promote effective cooperation between ASHRAE members and government. The committee works to coordinate government affairs efforts and is responsible for developing the extent and the manner in which ASHRAE implements and pursues actions to influence government affairs and public policy.

Questions for EHC

- Has there been consideration of elevating EIBs after creation? If EIBs are board-approved, they are easier to use for government outreach. Perhaps as a second step after EIB creation, so as to not slow down EIB process.
- Requesting updates on GAC 2021 Winter Meeting Motions:
 - “That the GAC recommend to Technology Council that the ASHRAE Position Document on Environmental Tobacco Smoke shall be amended and expanded with regards to cannabis smoke and electronic nicotine delivery.”
 - “That the GAC recommend to Technology Council that the ASHRAE Position Document on Indoor Air Quality shall be amended to make further reference to natural ventilation systems in emerging economies, and ASHRAE shall provide further guidance and design guides specific to natural and traditional ventilation systems.”

Updates on GAC Progress SY21-22

- Government Outreach Events:
 - 127 Government Outreach Events held this Society year, involving 231 ASHRAE members. 75 events previous year (SY20-21).
 - EHC-relevant Government Outreach Events and Letters & Testimony below.
- [Public Policy Issue Briefs \(PPIBs\)](#), 1 to 2-page documents created by GAC for policy makers with limited technical expertise; based on PDs, Standards & Guidelines, Public Policy Priorities, EIBs, other published materials. New/updated versions to be posted to ashrae.org on July 1.
 - New:
 - Indoor Carbon Dioxide – thanks to Andy Persily, Chair of PD Committee, for draft and review of final version.
 - Revised:
 - Environmental Tobacco Smoke → Environmental Tobacco Smoke and Electronic Nicotine Delivery Systems – modified using language from EHC’s EIB
 - Indoor Air Quality – modified using language from IAQ PD, greater focus on policy-relevant ASHRAE positions
- Public Policy Priorities for SY22-23 includes “Promote Healthy Buildings and Reduce Indoor Environmental Risks” – excerpt of draft text below.

EHC-Relevant SY21-22 Government Outreach Events

ASHRAE members who met with government officials to discuss environmental health topics, reported to GAC as of 6/1/22.

Thank you to the subject matter experts who have assisted with some of these events!

- Local
 - Reno, NV – city ordinance, cannabis industry questions about mitigating indoor smoking
 - Gwinnett County (GA) Public Schools facilities team – ETF resources on schools & IAQ
- State (US)
 - Georgia state legislator - IAQ inspections
 - Utah state legislators - school IAQ improvements
 - West Virginia state officials - school IAQ improvements
 - Georgia Dept of Public Health – Legionella prevention
 - Kansas legislator – IAQ and ETF resources
- Federal (US)
 - Clean Air in Buildings Challenge – White House Covid 19 Response Team
 - Georgia Senators State Directors visit ASHRAE HQ grand opening, tour - IAQ
- Global
 - Barbados – training on Standard 62.1, ETF resources
 - Argentina – chapter to participate in technical advisory committee for a standard on Air Treatment Systems in Public and Private Buildings
 - Canada
 - Ontario Ministry of Education – school IAQ/ETF presentation by Corey Metzger
 - North Alberta and South Alberta Chapters – school IAQ/ETF webinar with Bill Bahnfleth; 370 participants including gov't officials
 - Vancouver and British Columbia Chapters – school IAQ/ETF webinar with Bill Bahnfleth; 52 gov't officials
 - Halifax Regional Centre for Education – school IAQ/ETF resources

EHC-Relevant SY21-22 Letters and Testimony

Referencing EHC materials, posted to <https://www.ashrae.org/about/government-affairs/policy-positions-and-issues#letters> as of 6/16/22.

Environmental Tobacco Smoke

- 6-23-2021 - [Letter from President Gullledge to New Jersey Senate re: SB 1878, "Elimination of the smoking ban exemption for casinos and simulcasting facilities"](#)
- 6-23-2021 - [Letter from President Gullledge to the New Jersey Casino Association re: Indoor Air Policies at Casinos and Similar Establishments](#)
- 8-2-2021 - [Atlanta Chapter Letter to Augusta, GA Mayor Re: Cigar Bars and Lounges](#)

Legionella

- 11-12-2021 - [ASHRAE Comments on EPA Strategic Plan](#)
- 01-28-2022 - [Letter from President Schwedler to Maryland Senate re: SB 302, "Legionnaires' Disease Prevention Act"](#)
- 01-28-2022 - [Letter from President Schwedler to Maryland House of Delegates re: HB 248, "Legionnaires' Disease Prevention Act"](#)
- 03-07-2022 - [Letter from President Schwedler to New Jersey Senate re: S. 1006, "An Act Concerning Legionnaires' Disease"](#)
- 05-17-2022 - [Letter from President Schwedler to the California Senate re: SB 1144, "Water Efficiency and Quality Assessment Reports: State Buildings and Public School Buildings."](#)

- 06-10-2022 - [ASHRAE Letter to the California Senate re: SB 1144, "Water Efficiency and Quality Assessment Reports: State Buildings and Public School Buildings."](#)

IAQ/COVID/schools

- 11-22-2021 - [ASHRAE Letter to Department of Education Regarding Infrastructure Bill - Section 40541](#)
- 11-12-2021 - [ASHRAE Comments on EPA Strategic Plan](#)
- 12-1-2021 - [Alberta Chapters Letter Re: COVID Mitigation Strategies for Schools](#)
- 04-20-2022 - [Letter from President Schwedler to Connecticut General Assembly re: HB 5479, "An Act Concerning Indoor Air Quality in Schools"](#)

Excerpt from ASHRAE's Public Policy Priorities: SY 2022-2023

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 acceptable indoor air quality is an essential building service that should be achieved while also improving building energy efficiency, sustainability, and resiliency. The latest versions of ASHRAE Standards for Ventilation and Indoor Air Quality (62.1 for commercial buildings, 62.2 for residential, and 170 for health care facilities) should be adopted in building codes and regulations.

Importantly, ASHRAE supports policies that minimize pathogen transmission through building systems, including HVAC and water systems. With the world still challenged by COVID-19, ASHRAE will continue to disseminate the extensive resources developed by its Epidemic Task Force, including guidance documents, webinars, and training sessions, which can guide preparation for this and future pandemics. Recently updated ASHRAE Standard 188-2021 and Guideline 12-2020 present a framework and guidance for Legionella risk mitigation. ASHRAE can provide technical expertise and serve as a resource for policymakers and elected officials to address these indoor environmental health risks. ASHRAE recommends that policymakers cite ASHRAE standards and guidance in legislation and policies to reduce the risk of pathogen transmission in buildings, including in schools and congregate housing.

Report to GAC from Environmental Health Committee (v2)

EHC met on 4/28/22; update report provided at GAC's Spring meeting on 5/5/22. Also met on 5/26/22.

Annual Conference (June 2022)

Met after GAC on Monday, June 27, 2022. Attached update report was provided from GAC.

- GAC Questions for EHC:
 - On the use of Emerging Issue Briefs (EIBs) in GAC outreach: Not board-approved or intended for external audience. GAC can 1) recommend transition of EIB to PD if beyond "emerging"; 2) identify market-driven needs for an EHC "SWAT" Team to rapidly assess technical issues that arise from our government outreach work.
 - On follow-up for GAC 2021 Winter Meeting Motions: not discussed due to time constraints.
- EHC proposing an MTG to develop an IEQ Building Assessment, analogous to an Energy Audit. Would include SSPC 55, 62.1, 170, 189.1, multiple TCs, etc.
- **Position Documents:** <https://www.ashrae.org/about/position-documents>
 - Draft under review: Infectious Aerosols (issued April 2020) – aiming to complete asap.
 - In progress: Filtration & Air Cleaning (last updated 2015)
 - Published: Indoor Carbon Dioxide (new, March 2022)
 - Recent *ASHRAE Journal* article doesn't reference or align with this PD; EHC was concerned.
 - Proposed: Human Health and Wellness in the Built Environment
- **EHC Emerging Issue Briefs:** <https://www.ashrae.org/communities/committees/standing-committees/environmental-health-committee-ehc>
 - Current:
 - Increased Awareness of Health Impacts of Indoor PM2.5 and Need for Particulate Matter Control in Occupied Spaces" (April 2022)
 - Increasing Dogs in Office (September 2021)
 - Pandemic COVID-19 and Airborne Transmission
 - Electronic Nicotine Delivery Systems (ENDS) in Indoor Environments (July 2018)
 - Potential Microbial Contaminants in Biowall Water and Soil Systems (April 2018)
 - Indoor Passive Panel Technologies for Air Cleaning in Buildings (July 2016)
 - Nano Environmental Health and Safety (nanoEHS) (January 2016)
 - Ozone and Indoor Chemistry (January 2011)
 - Biological agents and airborne transmission (January 2010)
 - In progress:
 - Dynamic Thermal Comfort
 - Reactive Oxygen Species (ROS)

Copy of Report from GAC to EHC

Attached.

- Meghan McNulty, liaison to EHC from GAC



DRAFT ASHRAE's Public Policy Priorities: SY 2022-2023

- 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 final 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. 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 is targeting emissions from the operation of buildings as well as those embodied in building materials and the construction process.

In addition to government adoption of robust energy standards such as ASHRAE Standard 90.1 (commercial), 90.2 (residential), 90.4 (data centers), 189.1/IgCC (green buildings) and 189.3 (high-performance health care facilities) for new construction, ASHRAE supports policies and programs to improve the energy and carbon performance of existing buildings such as adoption of Standard 100 and through policies such as building performance standards, building benchmarking and labeling requirements.

- 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 acceptable indoor air quality is an essential building service that should be achieved while also improving building energy efficiency, sustainability, and resiliency. The latest versions of ASHRAE Standards for Ventilation and Indoor Air Quality (62.1 for commercial buildings, 62.2 for residential, and 170 for health care facilities) should be adopted in building codes and regulations.

Importantly, ASHRAE supports policies that minimize pathogen transmission through building systems, including HVAC and water systems. With the world still challenged by COVID-19, ASHRAE will continue to disseminate the extensive resources developed by its Epidemic Task Force, including guidance documents, webinars, and training sessions, which can guide preparation for this and future pandemics. Recently updated ASHRAE Standard 188-2021 and Guideline 12-2020 present a framework and guidance for *Legionella* risk mitigation. ASHRAE can provide technical expertise and serve as a resource for policymakers and elected officials to address these indoor environmental health risks. ASHRAE recommends that policymakers cite ASHRAE standards and guidance in legislation and policies to reduce the risk of pathogen transmission in buildings, including in schools and congregate housing.

- 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 15-2019, *Safety Standard for Refrigeration Systems*, and Standard 34-2019, *Designation and Classification of Refrigerants* should be adopted quickly to help ensure the safe use of these refrigerants. Additional ASHRAE resources include the [Update on New Refrigerants Designations and Safety Classifications factsheet](#), which was developed through a cooperative agreement with UNEP. ASHRAE is also working with UNEP to assist developing countries with the adoption of state-of-art technologies and deployment of lower-GWP refrigerants to protect supply of food and medicine (including vaccines), as well as provide increased comfort and productivity while meeting sustainability goals.



ASHRAE's Public Policy Priorities: SY 2022-2023 (page 2)

- Advance Design and Construction of Resilient Buildings and Communities

Resiliency is an increasingly 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 building energy and indoor air quality (e.g., ventilation, filtration) standards 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. In addition, policies and regulations that require qualified HVACR engineering and technical professionals to be an integral part of building design, construction, and operation are encouraged as these can result in a more resilient and safer built environment.

- Support Adoption of the Latest Edition of ASHRAE's Energy 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 Buildings Except Low-Rise Residential Buildings, which has provided the minimum requirements for the energy-efficient design in the United States for over 40 years. Although its adoption in the U.S. by States is required by the Energy Conservation and Production Act (ECPA), most States are using dated versions of the standard, resulting in buildings with higher energy needs and costs. 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).

- Strengthen and Increase Diversity in the HVACR Workforce

Strong education in science, technology, engineering and mathematics (STEM) to develop the pipeline of technicians, engineers and scientists 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. Policy makers should consider requiring ASHRAE certification programs to ensure professionals have the knowledge to improve building performance.

ASHRAE's Board of Directors is committed to proactively pursuing and celebrating diverse and inclusive communities, as it fuels better, more creative and more thoughtful ideas, solutions and strategies for the Society and for the communities we serve. We respect and welcome all people regardless of age, gender, ethnicity, physical appearance, thought style, religion, nationality, socio-economic status, belief system, sexual orientation or education.

GAC MBOs
SY2022- 2023

MBO	Subcommittee Assigned	Metric(s)	Initiative #	Goal #
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	Host 4 “Office Hour” events (including a specific one for international participants). Create an internal Office Hour Best Practices document to summarize the lessons we’ve learned, for the benefit of future iterations of GAC. Create a DL presentation on the benefits of Government outreach for ASHRAE members.	4	2a; 2b; 2c
2. Increase effectiveness of volunteer members through formalizing the GAC member mentorship program through small groups.	Executive Subcommittee	Mentorship program is included in Resource Manual. Mentor assignments made by July 30. Each mentor reaches out to their mentees 4 times per year.	3, 4	2a; 2c; 3a; 3b
3. 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.	Global Affairs	Each global RVC identifies at least two events per region that are held annually. Each RVC works with the global chapter chairs to facilitate 5 GOEs per Region. Each global RVC works with the global chapter chairs to identify the schedule for revision of Energy Codes/Building Codes of the country/state and key officials involved.	1, 2	1a; 1b; 2b

MBO	Subcommittee Assigned	Metric(s)	Initiative #	Goal #
4. Decarbonization: establish clear lines of communication between the GAC and the TFBD.	Policy & Programs	GAC member is identified as liaison to the TFBD.	1, 3	1a; 1b; 3b
5. Work with International Standards Task Force to facilitate sharing of information to avoid duplication of efforts, including through the tracking and adoption of ASHRAE standards and guidelines around the world.	Global Affairs	Long-term coordination structure defined. RVC works with the global chapter chairs to facilitate 4 outreach events per region, which are related to adoption of ASHRAE Standards.	3	1b
6. Establish a GAC Advisory Board made up of senior staff from various government bodies; this group would advise ASHRAE on what technical resources they need.	Policy & Programs	Advisory Board meets 4 times in the Society Year.	3	1b, 2b
7. Improve the effectiveness of the Government Affairs Website	Communications Coordinator, in cooperation with PPSC and MMSC	Implement recommendations made from the GAC website survey in SY21-22.	3, 4	2c
8. Review and revise the RVC reporting requirements for the Winter and Annual meetings.	Member Mobilization	Streamlined RVC reporting form is developed	3, 4	2c, 3b

JAMES M. INHOFE
OKLAHOMA



United States Senate
WASHINGTON, D.C. 20510

May 20, 2022

Mr. Chad Smith
1255 23rd Street NW
Suite #825
Washington, DC 20037

Dear Chad,

I commend you for your years of volunteer service with the American Society of Heating Refrigerating and Air-Conditioning Engineers (ASHRAE). As a resident of Tulsa, you have represented Oklahoma well, both by volunteering with ASHRAE and serving on the ASHRAE Government Affairs Committee for the last five years – and serving as committee chair this past year.

I appreciate the countless hours you've spent sharing technical information with policymakers, such as myself, and equipping other volunteer members with the skills they need to do the same. These efforts have helped create healthier indoor environments, reduce the risks of viral transmission within buildings, conserve energy and water, and create jobs in the building industry.

Your dedication over the years to volunteering your time and sharing your knowledge with us is admirable, and I have no doubt you will find ways to continue to do so while making Oklahoma proud in the process. Congratulations again on a successful and outstanding volunteer service career.

Sincerely,

A handwritten signature in blue ink, reading "James M. Inhofe", is written over a horizontal line.

James M. Inhofe
United States Senator

SY2022-2023 GAC Subcommittee Assignments					
Executive	Policy & Programs	Member Mobilization	Global Affairs	Rules	Nominating
Darryl Boyce (Chair)	Nanette Lockwood (Chair)	Tim Theriault (Chair)	George Pantelidis (Chair)	Rob Hoadley (Chair)	Meghan McNulty (Chair)
Robert Hoadley (Vice Chair)	Mike Genin	Arthur Reyes	Mike Genin	Sonya Pouncy	Darryl Boyce
Nanette Lockwood (Policy and Programs Chair)	Jessica Gardner	RJ Hartman	Damon McClure	Bassel Anbari	Rob Hoadley
Tim Theriault (Member Mobilization Chair)	Albert Sin	Louis Van Belle	Darryl Collerman	Ken Fulk	Sonya Pouncy
George Pantelidis (Global Affairs Chair)	Beth Tomlinson	Damon McClure	Tim Theriault	Darryl Boyce	Ken Fulk
Meghan McNulty (Nominating Chair)	Mike Wolf	Darryl Collerman	Albert Sin	Tim Wentz	
Sonya Pouncy (Communications Coordinator)	Ahmed Bolbol	Weston Hockaday	Ahmed Bolbol		
Bassel Anbari (Members Council Representative)	Meghan McNulty	Peter Koneck-Wilwerding			
Cindy Callaway (PubEd Council Representative)	Ryan Carlson	Tim Wentz			
Chris Phelan (Tech Council Representative)	Chris Phelan				
Dennis Knight (Coordinating Officer/Treasurer)					
Ken Fulk (BOD ExO)					
Alice Yates (Staff Liaison)	Matt Young (Staff Liaison)	Emily Porcari (Staff Liaison)	Isla Kennedy (Staff Liaison)	Emily Porcari (Staff Liaison)	Alice Yates (Staff Liaison)
Note: Staff Liaisons listed above will serve as the primary point of contact for each of the subcommittees above. However, please know that you can contact any of the Government Affairs Staff, including by emailing GovAffairs@ashrae.org					

ASHRAE Simplified Rules of Order – Quick Reference

Guiding Principles:

- Quorum is required before business can be conducted.
- Everyone has the right to participate in discussion if they wish before anyone may speak a second time.
- Everyone has the right to know what is going on at all times. Only urgent matters may interrupt a speaker.
- Only one thing (motion) can be discussed at a time.

A **motion** is the topic under discussion (e.g., “I move that we add a coffee break to this meeting”). After being recognized by the president of the board, any member can introduce a motion when no other motion is on the table. A motion requires a second to be considered. If there is no second, the matter is not considered. Each motion must be disposed of (passed, defeated, tabled, referred to committee, or postponed indefinitely).

How to do things:

You want to bring up a new idea before the group.

After recognition by the president of the board, present your motion. A second is required for the motion to go to the floor for discussion, or consideration.

You want to change some of the wording in a motion under discussion.

After recognition by the president of the board, move to amend by

- adding words,
- striking words or
- striking and inserting words.

You like the idea of a motion being discussed, but you need to reword it beyond simple word changes.

Move to substitute your motion for the original motion. If it is seconded, discussion will continue on both motions and eventually the body will vote on which motion they prefer.

You want more study and/or investigation given to the idea being discussed.

Move to refer to a committee. Try to be specific as to the charge to the committee.

You want more time personally to study the proposal being discussed.

Move to postpone to a definite time or date.

You are tired of the current discussion.

Move to limit debate to a set period of time or to a set number of speakers. Requires a 2/3^{rds} vote.

You have heard enough discussion.

Move to close the debate. Also referred to as calling the question. This cuts off discussion and brings the assembly to a vote on the pending question only. Requires a 2/3^{rds} vote.

You want to postpone a motion until some later time.

Move to table the motion. The motion may be taken from the table after 1 item of business has been conducted. If the motion is not taken from the table by the end of the next meeting, it is dead. To kill a motion at the time it is tabled requires a 2/3^{rds} vote. A majority is required to table a motion without killing it.

You believe the discussion has drifted away from the agenda and want to bring it back.

“Call for orders of the day.”

You want to take a short break.

Move to recess for a set period of time.

You want to end the meeting.

Move to adjourn.

ASHRAE Simplified Rules of Order – Quick Reference

You are unsure the president of the board announced the results of a vote correctly.
Without being recognized, call for a "division of the house." A roll call vote will then be taken.

You are confused about a procedure being used and want clarification.
Without recognition, call for "Point of Information" or "Point of Parliamentary Inquiry." The president of the board will ask you to state your question and will attempt to clarify the situation.

You have changed your mind about something that was voted on earlier in the meeting for which you were on the winning side.

Move to reconsider. If the majority agrees, the motion comes back on the floor as though the vote had not occurred.

You want to change an action voted on at an earlier meeting.

Move to rescind. If previous written notice is given, a simple majority is required. If no notice is given, a 2/3^{rds} vote is required.

Executive Session.

Discussion of an issue of sensitive, proprietary or personal in nature.

Unanimous Consent:

If a matter is considered relatively minor or opposition is not expected, a call for unanimous consent may be requested. If the request is made by others, the president of the board will repeat the request and then pause for objections. If none are heard, the motion passes.

- **You may INTERRUPT a speaker for these reasons only:**
 - to get information about business –point of information to get information about rules– parliamentary inquiry
 - if you can't hear, safety reasons, comfort, etc. –question of privilege
 - if you see a breach of the rules –point of order
 - if you disagree with the president of the board's ruling –appeal
 - if you disagree with a call for Unanimous Consent –object

Order of Precedence of Motions

The rules are in descending order of importance. A rule higher in the table takes precedence over one lower in the table. Implication is that everything takes precedence over the main motion on the floor.

Rule	Must Be Seconded	Open for Discussion	Can be Amended	Vote Count Required to Pass	May Be Reconsidered or Rescinded
Adjourn (End meeting)	X			Majority	
Recess	X		X	Majority	
Table	X			Majority	
Close Discussion	X			2/3 rds	X
Limit Debate	X		X	2/3 rds	X
Postpone to a later time (##)	X	X	X	Majority	X
Refer to Committee	X	X (+)	X	Majority	X
Kill a Motion	X			Majority	X
Amend Motion (* #)	X	X		Majority	X
Postpone Indefinitely (**)	X	X	X	Majority	X
Main Motion	X	X	X	Majority	X

(#, ##, *, **,+) See full Rules of Order for explanation of symbols