



Shaping Tomorrow's
Built Environment Today

MINUTES
GOVERNMENT AFFAIRS COMMITTEE
FRIDAY, FEBRUARY 3, 2023
1:00 PM – 5:00 PM
Winter Meeting – Atlanta, GA

Minutes Approved at the April 12, 2023 GAC Meeting

ATTENDANCE

Members Present

Darryl Boyce-Chair
Robert Hoadley-Vice
Chair*
Bassel Anbari
Cindy Callaway
Christopher Phelan
Tim Wentz
Mike Wolf*
Meghan McNulty
Nanette Lockwood
Artorius Reyes
Michael Genin*
RJ Hartman
Weston Hockaday
Louis Van Belle
Beth Tomlinson*
Jessica Gardner
Damon McClure*
Peter Koneck-Wilwerding
Tracey Jumper*
Daryl Collerman
Tim Theriault
Albert Sin
George Pantelidis
Ahmed Bolbol
Sonya Pouncy
Ken Fulk
Dennis Knight

Members Absent

None

Guests

Sarah Dodge, AIA
Doug Tucker, Mitsubishi
Ron Gagnon, DRC Region II
Adrienne Mitani, OVC GAC
Chair
Darryl Deangers, Ebreon
Peter Luttik Emerson
Mariel Meegan, Gala
Engineering
Lionel Davis
Arturo Thur De Koos, Fujitsu
Donald Weekes, EHC
Andy Persily, NIST
Ron Jarnagin
Farooq Mehboob, ASHRAE
President
Jonathan Smith
Doug Cochran, GAC
Liaison to Building EQ
Emily Toto, ASHRAE
Madison Schultz, ASHRAE
Julia Timberman
Larry Kouma, Johnson
Controls
Samantha Slater, AHRI
Don Davis, BOMA
Chad Smith
Kishor Khankari
Steve Comstock, UNEP

Staff

Alice Yates
Emily Porcari
Matt Young
Jacob Karson
Andrew Barberi *

**Indicates Remote Participation*

1. Call to Order, Welcome, and Roll Call - Darryl Boyce called the meeting to order at 1:01 p.m., welcomed the members and asked for a Roll Call to be conducted. Jacob Karson conducted the roll call and a quorum was present.
2. Guest Introductions – Boyce asked the guests to introduce themselves.
3. ASHRAE Code of Ethics – Boyce read a summary of the ASHRAE Code of Ethics Commitment.
4. ASHRAE Commitment to Care Statement – Boyce pointed out the Commitment to Care Statement provided as an attachment to the agenda.
5. ASHRAE Simplified Rules of Order – Boyce reminded members that the meeting would be conducted under ASHRAE’s Simplified Rules of Order, which was provided as an attachment to the agenda.
6. Review of Agenda – Boyce reviewed the agenda. Nanette Lockwood asked if there could be a discussion of how staff can better liaise with all of GAC on resources available, especially with respect to funding availability. Boyce asked that subject be added to the Agenda under “Other Business.”
7. Approval of Minutes from November 7, 2022 Meeting – Boyce reviewed the Minutes from the fall meeting and asked they be approved.

MOTION: To approve the Minutes of the October 24, 2022 Meeting. Motion made by Sonya Pouncy and Seconded by Meghan McNulty.

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

8. Update on Action Items - Alice Yates reviewed the Action Items table and noted that only one item was open. (see Attachment)
9. Report from ASHRAE Government Affairs Office – Staff from the Washington Office (Alice Yates, Emily Porcari, Matt Young, and Jacob Karson) provided a presentation on the “Government Outlook and Opportunities for Engagement” (see Attachment)
10. Subcommittee Reports and MBO Status Reports – The MBO Status table is provided in the Attachment.
 - a. Executive Subcommittee – Boyce reported that he has reached out to all of the members, and the program is “alive and well.”

MBO #2: Increase effectiveness of volunteer members through formalizing the GAC member mentorship program through small groups.

- b. Policy and Programs Subcommittee - Nanette Lockwood reported that Darryl Boyce has contacted Kent Peterson, Chair of the TFBD, to ask that a GAC liaison be included at TFBD meetings. For MBO #6, an advisory board has been established and meetings have been held and are scheduled.

- i. MBO Status

- MBO #4:** Decarbonization: establish clear lines of communication between the GAC and the TFBD.

- MBO #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.

- ii. PPIB Documents for GAC Review (See Attachments)

- i. PPIB Status Table – Lockwood reviewed the status of the 12 PPIBs this subcommittee has been managing; all have been reviewed and edits and recommendations are being made. PPIBs requests for approval should be made at the Spring 2023 GAC meeting.

- ii. PPIB on Building Electrification – Lockwood stated this was a new PPIB and is important for addressing policies and legislation concerning building electrification.

- MOTION:** To approve the PPIB on Building Electrification. Motion made by Meghan McNulty and Seconded by Sonya Pouncy.

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

- iii. Proposed Change to the ROB on PPIB Format – Lockwood reviewed the proposed change to the ROB concerning the format of PPIBs; the vote will be taken up during the Rules Subcommittee report.

- c. Member Mobilization Subcommittee - Tim Theriault reviewed the goals, targets and progress for Government Outreach Events (See Attachment); he also reported on the status of the MBOs assigned to his subcommittee (see status table).

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

- MBO #8:** Review and revise the RVC reporting requirements for the Winter and Annual meetings.

- d. Global Affairs Subcommittee - George Pantelidis reported that the Global Affairs Subcommittee has met 3 times. They conducted again a survey developed last year to identify country- or region-specific events attended by government officials that could be targeted for the purpose of outreach and advocacy. For MBO #5, Pantelidis reported that a Working Group has been established with the goal of interacting with

chapters. He also noted that the Task Force may be transformed into a Standing Committee, and this could happen during the Winter Meeting. Pantelidis also reported that Global Affairs recommends extending the deadline for submitting a plan on financial assistance for International Outreach Events. The vote will be taken during the Rules Subcommittee report.

MBO #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.

MBO #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.

- e. Rules Subcommittee - Rob Hoadley report that this subcommittee has considered two changes to GAC governing documents which the Rules Subcommittee has approved. Hoadley asks the GAC to approve.

- i. ROB Change: PPIB Documents Note on Date

MOTION: That the ROB revision per the Attachment be recommended to Members Council for Approval. Motion seconded by Sonya Pouncy.

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

- ii. Resource Manual – Section T: Changing Deadline for Plan on Financial Assistance for International Outreach Events

MOTION: That the Resource Manual be changed per the Attachment. Motion seconded by Collerman.

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

- f. Nominating Subcommittee - Meghan McNulty reported that the subcommittee met at the Winter Conference and has made recommendations for the Chair and Vice Chair of GAC for SY23-24; the subcommittee will meet again in April.

- 11. Motion Referred from RAL CRC – Boyce referred members to CRC Motion #54 from the Mumbai Chapter. There was considerable discussion, including that a Regional GAC Award can already be provided by Regions, and it was noted that this is already happening in Regions XI and II. Boyce pointed out that Motion 54 is about providing these Regional awards at the Society-level. Pouncy recommended that Regions and Chapters be educated further about the GAC Society award that already exists as well as the option that Regions may create their own Regional GAC awards.

Mumbai Chapter - Motion 54 (10/12/2022): That GAC Committee consider instituting an award at each Region for an individual member for Outstanding Work in Government Affairs in their respective Regions. The award to be instituted from Society Year 23-24, to be presented at the respective CRCs.

MOTION: That GAC recommend against approving Motion 54, and instead promote the GAC Society award and provide information to the Regions that Regional GAC awards may also be created. Motion made by Tim Theriault and Seconded by Bassel Anbari.

MOTION PASSED: Approved By Voice Vote (CNV); 1 oppose; 0 abstentions.

12. Government Affairs Award Nomination - Tim Theriault conducted this portion of the meeting in Executive Session.
13. Reports from Regional Vice Chairs – RVCs provided reports from their regions (See Attachments) – 5 minutes per report
 1. RAL – Ahmed Bolbol
 2. Region XIV – George Pantelidis
 3. Region XIII – Albert Sin
 4. Region XII – Tim Theriault
 5. Region XI – Daryl Collerman
 6. Region X – Tracey Jumper
 7. Region IX – Peter Koneck-Wilwerding
 8. Region VIII – Damon McClure
 9. Region VII – Jess Gardner
 10. Region VI – Beth Tomlinson
 11. Region V – Louis Van Belle
 12. Region IV – Weston Hockaday
 13. Region III – RJ Hartman
 14. Region II – Michael Genin
 15. Region I – Artorius Reyes
14. GAC PHOTO – Photos of the committee was taken; the photos are available on Basecamp.
15. Reports
 - a. ExO Report - Ken Fulk provided the ExO report (see Attachment)
 - b. Communications Coordinator Report - Sonya Pouncy provided the Communications Coordinator report (see Attachment)

MBO #7: Improve the effectiveness of the Government Affairs Website (in cooperation with the PPSC and the MMSC)
 - c. Technology Council Representative Report - Chris Phelan provided the Tech Council Report, and referred to Emily Toto to provide an overview of the Codes Interaction Subcommittee (see Attachment)
 - d. Members Council Representative Report - Bassel Anbari provided a report from Members Council (see Attachment)
 - e. Pub-Ed Council Representative Report - Cindy Callaway provided a report from Pub-Ed (see Attachment)
16. Reports from Committee Liaisons
 - a. Building EQ Committee - Daryl Collerman provided a report (see Attachment)

- b. Environmental Health Committee - Meghan McNulty and Don Weekes reported that the EHC has experts that can speak to chapters and possibly government officials. The EHC also has “emerging issue briefs,” including a new one concerning dogs in the office. Every month in the *Journal*, they offer an article on environmental health that may be of interest to the GAC. The EHC will be meeting on Feb. 6, and McNulty will provide more information after that meeting (see Attachment).
- c. International Standards Task Force – Pantelidis provided an update on the International Standards Task Force, which may become a Standing Committee.
- d. Codes Interaction Subcommittee - Mike Wolf reported on code activity in Wisconsin.
- e. Refrigeration Technology Committee for Comfort, Process, and Cold-Chain (REF-CPCC) – Lockwood reported that the REF-CPCC meeting is tomorrow, so there is nothing to report at this time.
- f. Residential Building Committee – Boyce reported the meeting is on Sunday, so there is nothing new to report.

17. Guest Reports

- a. AHRI - Samantha Slater, Senior Vice President of Government Affairs provided a report (see Attachment). AHRI is doing everything it can to get building codes to use A2Ls, and it’s critical to do this by 2024. AHRI has a 27 state campaign and will be hiring resources in 27 states, either on a legislative or regulatory pathway.
- b. AIA - Sarah Dodge, Senior Vice President of Advocacy & Relationships reported the AIA is focusing on climate and equity in the built environment. AIA also wants to coordinate more with ASHRAE about the 2023 COP in Dubai. At the AIA leadership summit in 2 weeks, they will be advocating for the Resilient America Act. AIA is pleased that ASHRAE also supported the change to the 179D tax credit in the Inflation Reduction Act.
- c. BOMA - Don Davis, Vice President, Advocacy and Codes reported that BOMA supports the Airborne Act, and is concerned about building electrification because of the limits on the grid – BOMA is not opposed to electrification, but is looking to electrification where it makes sense. They also support the Small Business Energy Efficiency Act (\$10.5 million in capital to make upgrades). Davis also announced that BOMA will be holding a “Decarbonization Symposium” in Washington, DC on March 15; ASHRAE will be represented on one of the panels.
- d. UNEP - Steve Comstock, Senior Consultant, OzonAction Partnerships, United Nations Environment Programme provided a report (see Attachment). Other Business (Boyce)
- e. DOE Schools Pilot Partnership - Sonya Pouncy provided a report (see Attachment).
- f. Staff information on funding and other resources – because of time constraints, Nanette Lockwood asked that this matter addressed at the next GAC meeting.
- g. Review of New Action Items added at this meeting – Yates reviewed the new action items from the meeting (See Attachment)

18. Next Committee Conference Call – Boyce stated that the next meeting will be scheduled for the Spring.
19. Adjournment – Boyce adjourned the meeting at 5:35 p.m.

Minutes Respectfully Submitted by Alice Yates, Staff Liaison.

Health & Safety

COMMITMENT TO CARE

ASHRAE is committed to the health and safety of our members and conference attendees. ASHRAE is closely monitoring guidance from the [Centers for Disease Control and Prevention](#), [World Health Organization](#) and [local health agencies](#). ASHRAE's Commitment to Care may evolve as the Winter Conference approaches and guidance and local restrictions change.

In Advance of the Conference

- Attendees must “accept” [ASHRAE's liability waiver](#) when registering for the conference.
- Everyone attending the conference and committee meetings is required to register for the conference for safety purposes. There will be a new “Committee Meeting Only” registration category for those who will not attend the Technical Program.
- **For entry into the conference:** It is *recommended* that attendees are fully vaccinated. Proof will not be required to enter the conference.

At the Conference

- Masks may be worn at the individual's discretion. Masks are not required inside the conference hotels but are strongly encouraged.
- Color-coded lanyards are available for attendees to indicate their level of comfort regarding distancing.
- Hand sanitizing stations will be positioned throughout the meeting space.
- If symptoms develop, attendees should NOT attend sessions and can join the conference virtually.
- If an attendee tests positive while at the conference, he or she may quarantine at the conference hotel at their own expense and should report the positive test to ASHRAE staff.

After the Conference

- If an attendee tests positive for COVID-19 within 14 days of leaving the conference, the attendee should notify ASHRAE staff immediately.
- ASHRAE will communicate to attendees, if needed, up to 14 days after the last day of the conference.

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 2/3rds 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 2/3rds 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 2/3rds 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



ACTION ITEMS
GOVERNMENT AFFAIRS COMMITTEE
SY 2022-2023

Last Updated: Jan. 25, 2023

#	Action	Assigned To	Due Date	Status	C/O
<i>Added at 06-24-2022 meeting</i>					
1	Review whether the presentation on roles and responsibilities for the nominating subcommittee should be added to the GAC Reference Manual.	Rules Subcommittee	Next Rules Subcommittee Meeting	Was discussed at Rules SC meeting on Nov. 4 but was not voted upon since there was no quorum. This item will be on the Rules SC agenda for Feb. 3.	O
<i>Added at 11-07-2022 meeting</i>					
2	Develop Fact Sheet on key programs from IRA and the BIL, along with websites that have more detailed information.	Staff	Winter 2023 Meeting	Matt Young prepared these factsheets and distributed to GAC members via email on December 16 th , 2022. Documents are also posted to Basecamp in the Key Resources folder.	C
3	Work with the Marketing Team to collect statistics on use of the Gov Affairs website (and various pages within it). This information will help inform website changes.	Staff	Before December Meeting with Marketing.	Staff worked with Marketing to obtain statistics; these were used to inform the meeting on website redesign with the Communications Coordinator.	C
4	Set up dinner in Atlanta – to be held Friday night, February 3.	Staff	Mid-December	Venue identified, menu developed, payment system arranged.	C

#	Action	Assigned To	Due Date	Status	C/O
5	Inquire with the Building EQ Committee concerning its timeline for incorporating carbon into the tool.	Staff working with Daryl Collerman	Winter 2023 Meeting	<p>Per a discussion with Building EQ staff, Daryl Collerman, and Gov Affairs staff, the Building EQ carbon metric is currently live for operational carbon emissions. BEQ will consider how to incorporate embodied carbon once more information on that is available from the TFBD.</p> <p>The BEQ Committee is working on an updated version of the BEQ “fact sheet” that will include the carbon information; this updated fact sheet will be used for GOEs once it’s finalized and available.</p>	C



Staff Report: Government Outlook and Opportunities for Engagement

Winter Meeting – February 2023

Alice Yates, Director of Government Affairs

Emily Porcari, Manager of State and Local Government Affairs

Matt Young, Manager of Federal Government Affairs

Jacob Karson, Assoc. Manager of Government Advocacy and Outreach

Government Affairs Staff: Who Are We?



We have a team that is ready to support you!

Contact any of us at GovAffairs@ashrae.org

Matt Young **Jacob Karson** **Emily Porcari**
Federal **Advocacy/Outreach** **State/Local**



Alice Yates
Director



Andrew Barberi
Office Manager

Where is the ASHRAE Government Affairs Office?



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

You are welcome to visit!



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!**



- Construction rebounded back to pre-pandemic levels in most major economies
- Emerging economies increased their use of fossil fuel gases in buildings
- Building energy demand **increased by ~4%** from 2020 – the largest increase in the last 10 years!
- Carbon emissions from buildings **increased by ~5%** from 2020 – an all-time high!
- There is a **growing gap** between the actual climate performance of the buildings sector and the necessary decarbonization pathway

Overall Global Outlook: Reasons for Hope

- Several countries have committed to energy efficiency requirements for and decarbonization of buildings
- Investments in energy efficiency grew to \$237 billion in 2021, an increase of 16% from 2020 levels
- There is an increasing number of countries that include building codes in their NDCs
- Since 2000, there has been a considerable increase globally in minimum energy performance standards (for appliances and equipment) or mandatory comparative labels.

Source: GlobalABC 2022, UNFCCC.

Implementation of the IIJA & IRA

- Major legislation with **\$479 Billion** in new climate and energy spending
- New and expanded programs are being rolled out – nearly weekly!
 - Resilient and Efficient Codes Implementation: \$225 million
 - School Facilities Energy efficiency Improvements: \$500 million
 - Building Energy Code Adoption: \$1 billion
 - EEBGs: \$550 million
 - Buildings Upgrade Prize: \$22 million

You can learn more about these federal programs by attending:

U.S. Federal Programs: New and Expanded Opportunities for High-Performance, Low-Carbon, Resilient Buildings

Sunday, Feb. 5 (3:15 PM – 4:45 PM) - Georgia World Congress Center, A410

Chris Castro - Chief of Staff, Office of State and Community Energy Program (SCEP)
U.S. Department of Energy

Chris Perry - Engineer, Office of Energy Efficiency and Renewable Energy
U.S. Department of Energy

Vito Ilacqua, Ph.D. - Researcher, Office of Air and Radiation
U.S. Environmental Protection Agency

Don Horn - Deputy Director, Office of Federal High-Performance Buildings
U.S. General Services Administration (GSA)

- **Building Performance Standards:** Partnership between 33 state and local governments dedicated to better buildings (Jan. 21, 2022)
- **Federal Buildings:** Reduce energy use in 30% of building space by 2030 (Dec. 7, 2022)
- **HFCs:** EPA rule to reach 40% reduction below historic levels (Oct. 22, 2022)
- **Indoor Air Quality:**
 - White House (WH) National COVID-19 Preparedness Plan (Spring 2022)
 - EPA Clean Air in Buildings Challenge (Mar. 2022)
 - WH Summit on Indoor Air Quality (Oct. 11, 2022)
 - WH Commitment to Long-term Improvement of IAQ (Dec. 8, 2022)

U.S. Congressional Outlook

- Democrats added a seat to their Senate majority (51 D – 49 R)
- Republicans regained the majority in the House (212 D – 222 R)
- Committees and their leadership established
 - Committees on Appropriations; Energy and Natural Resources; Commerce, Science and Transportation; Science, Space and Tech; Energy and Commerce
- Upcoming areas to watch
 - Oversight on implementation of IIJA and IRA
 - Appropriation requests as soon as February
 - Debt ceiling negotiations
- REMEMBER: Email Jacob Karson if you would like to set up a GOE
Jkarson@ASHRAE.org

- Legislatures are currently in session in **45** states and D.C.
 - Contact staff for information on planning a Government Outreach Event!
- Legislation introduced this month already names ASHRAE
- Lots of activity on building electrification – both pro and anti
 - 21 states passed laws preventing localities from enacting gas bans; but Washington state and over 90 cities and counties have committed to all-electric new construction
- 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



GovAffairs@ashrae.org

- 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
- Build Back Better Act: \$3.5T → \$1.75T → ?
 - \$550B for Climate, including \$320B for clean energy tax incentives; \$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: Received Nov. 16 – needs two-thirds support

GAC MBOs: Status Table SY2022- 2023

Last Updated: January 25, 2023

MBO	Subcommittee Assigned	Metric(s)	Status
1. Increase the participation of ASHRAE members in Government Outreach Events and other advocacy opportunities by hosting promotional GAC meetings, webinars, and other events to non-GAC ASHRAE members to increase awareness about the GAC.	Member Mobilization	<p>Host 4 “Office Hour” events (including a specific one for international participants).</p> <p>Create an internal Office Hour Best Practices document to summarize the lessons we’ve learned, for the benefit of future iterations of GAC.</p> <p>Create a DL presentation on the benefits of Government outreach for ASHRAE members.</p>	<p>One “Office Hours” session has been held to date, and the others will be scheduled throughout the rest of the Society Year.</p> <p>DL presentation is being developed; subcommittee members are looking at examples from existing presentations and will report at the Winter Meeting</p> <p>Office Hours “Best Practices” document has been created for review by the Subcommittee members.</p>
2. Increase effectiveness of volunteer members through formalizing the GAC member mentorship program through small groups.	Executive Subcommittee	<p>Mentorship program is included in Resource Manual.</p> <p>Mentor assignments made by July 30.</p> <p>Each mentor reaches out to their mentees 4 times per year.</p>	<p>Email distributed to Mentors inquiring about their interaction with their mentees; Boyce was included on the meetings scheduled by one of the mentors. The other mentors have been asked to provide an update at the Winter Meeting.</p>
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	<p>Each global RVC identifies at least two events per region that are held annually.</p> <p>Each RVC works with the global chapter chairs to facilitate 5 GOEs per Region.</p> <p>Each global RVC works with the global chapter</p>	<p>A survey was sent to GASC members to submit ideas for GOEs that satisfy this MBO.</p> <p>Global GOEs held this SY will be evaluated to assess whether they should be recommended as recurring events.</p>

MBO	Subcommittee Assigned	Metric(s)	Status
		chairs to identify the schedule for revision of Energy Codes/Building Codes of the country/state and key officials involved.	
4. Decarbonization: establish clear lines of communication between the GAC and the TFBD.	Policy & Programs	GAC member is identified as liaison to the TFBD.	<p>Darryl Boyce reached out to the TFBD about serving as the liaison</p> <p>Darryl has NOT yet received a response from the TFBD. Darryl plans to attend the meeting of the Task Force at the Winter Meeting.</p>
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	<p>Long-term coordination structure defined.</p> <p>RVC works with the global chapter chairs to facilitate 4 outreach events per region, which are related to adoption of ASHRAE Standards.</p>	Determining how the relationship and communications with ISTF should involve the full GAC or focus its engagement with GASC.
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.	<p>Advisory Board members identified (11 members).</p> <p>Held a meeting with the Advisory Board on December 5th, 2022; a second meeting is being scheduled.</p>
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.	Communications Coordinator discussed recommendations with Marketing staff in December; priorities have been identified, which will be implemented before the end of the Society Year

MBO	Subcommittee Assigned	Metric(s)	Status
<p>8. Review and revise the RVC reporting requirements for the Winter and Annual meetings.</p>	<p>Member Mobilization</p>	<p>Streamlined RVC reporting form is developed</p>	<p>Subcommittee members are reviewing the reporting form and will have suggestions and proposed edits to the form by the next Subcommittee meeting.</p> <p>Staff are checking if there are any specific requirements in the form that will need Members Council or other approval to be edited or removed.</p> <p>Checking with DRCs and RMCRs to determine whether/how these are used at the Regional level.</p>



PPIB Status Update

Ready for Vote

Reviewed, Pending Staff Edits

Not Reviewed

Last Updated: 02-02-2023

	Existing PPIBs	GAC PPSC Member Responsible	Recommendation / Action Taken	Notes
1	Building Decarbonization	Beth Tomlinson Nanette Lockwood	Some Changes	Reviewed Updates needed to include new standards and resources being developed by the TFBD
2	Building Energy Benchmarking	Meghan McNulty	Some Changes	Reviewed - Changes here are either editorial or an update to the latest data from the referenced sources.
3	Climate Change and the Built Environment	Beth Tomlinson Nanette Lockwood	Minimal Changes	Reviewed – editorial edits; need to address 3 Qs
4	Consensus Standards-Expert Solutions to Meet Global Needs	Nanette Lockwood	Some Changes	Reviewed – editorial edits
5	Environmental Tobacco Smoke And Electronic Nicotine Delivery Systems	Matt Young	No Changes	Reviewed by Staff – no changes -This document was significantly updated last year; confirming that no changes are needed.
6	Indoor Air Quality	Matt Young	Minimal Changes	Reviewed by Staff – updated standard title
7	Refrigerants and Their Responsible Use	Nanette Lockwood Mike Genin	Some Changes	Reviewed – updated standard reference, editorial edits
8	Resiliency in the Built Environment	Chris Phelan	Minimal Change	Reviewed – updated statistics
9	STEM Education & Workforce	Matt Young	Some Changes	Reviewed by Staff – updated statistics
10	Indoor Carbon Dioxide	Meghan McNulty Chris Phelan	Some Changes	Reviewed – significant additions
	Potential New PPIB Topics	GAC PPSC Member Responsible	Recommendation	
11	Wildfires and Indoor Environmental Health	Ryan Carlson		
12	Building Electrification	Nanette Lockwood Beth Tomlinson Meghan McNulty	New	Drafted, approved by TFBD



Shaping Tomorrow's
Built Environment Today

BUILDING ELECTRIFICATION

THE ISSUE

Building electrification is often viewed as an essential strategy for [building decarbonization](#), but electrification, in and of itself, does not necessarily guarantee decarbonization. Building electrification refers to transitioning all or portions of building systems to electricity instead of on-site fossil fuel-based, non-electric energy. Space and water heating, some chilled water generation, snow melt, cooking, laundry, and emergency power backup commonly use on-site fossil fuel-based energy.

Electrification contributes to decarbonization when: (1) the electricity comes from low- or zero-carbon energy sources such as solar, wind, tidal/wave, hydro, and nuclear; or (2) when the efficiency of the new electric equipment results in overall GHG emissions reductions compared to on-site combustion. Therefore, action is needed by both the buildings and the electric grid sectors. Utilities must achieve their grid decarbonization goals by transitioning to low- or zero-carbon generation. Some regional grids have already decarbonized significantly, putting building electrification on a “fast track” toward total building decarbonization.

The growth of building (and transportation) electrification could require a significant increase in electrical grid capacity, emphasizing the need for energy efficiency, energy storage, grid interactive building design, and alignment of consumption with carbon-free generation (i.e., demand flexibility) to minimize the increase in peak demand. Building electrification can present embodied carbon, capital and operating cost, and retrofit challenges; it also provides an opportunity to improve air quality, especially in densely populated areas, by reducing particulate pollution and ground-level ozone from fossil fuel combustion. Many innovative energy efficient buildings with all-electric systems are already being built and occupied. Existing buildings' ability to electrify cost-effectively will accelerate with technological improvements and local and national policy incentives.

ASHRAE's ROLE

ASHRAE stands at the forefront in supplying standards, guidance, and education for the design, manufacturing, installation, and operation of building systems. These resources can also provide governments with a technical foundation for beneficial building electrification policies. ASHRAE's relevant consensus-based standards include new proposed standards and those being updated to specifically reflect decarbonization:

- Standard 90.1, *Energy Standard for Buildings Except Low-Rise Residential Buildings*
- Standard 90.2, *Energy-Efficient Design of Low-Rise Residential Buildings*
- Standard 100, *Energy Efficiency in Existing Buildings* (Note: This Standard is being updated as the *Energy and Emissions Building Performance Standard*)
- Standard 105, *Standard Methods for Determining, Expressing and Comparing Building Energy Performance and Greenhouse Gas Emissions*
- Standard 211, *Standard for Commercial Building Energy Audits*

- Proposed Standard 228P, *Standard Method of Evaluating Zero Net Energy and Zero Net Carbon Building Performance*
- Proposed Standard 240P, *Evaluating Greenhouse Gas (GHG) and Carbon Emissions in Building Design, Construction and Operation*
- Proposed Decarbonization Guide, *Heat Pump Application, Design, and Operation*
- Multiple technical resource guides being developed by ASHRAE's Task Force for Building Decarbonization

ASHRAE's VIEW

ASHRAE supports the global need to reduce emissions from buildings, including through beneficial electrification. ASHRAE encourages policymakers to consider the following:

1. Transitioning from fossil-fueled appliances to high-efficiency all-electric appliances and technologies can significantly reduce greenhouse gas (GHG) emissions from buildings using low-carbon intensity electricity.
2. Hybrid (partial) electrification retrofits can be beneficial where heating load profiles currently make complete electrification uneconomical.
3. Replacement of fossil-fuel heating equipment before end-of-life can have a negative impact on embodied carbon and refrigerant emissions, therefore, electrification retrofits should be analyzed from a whole life cycle carbon perspective and transitions phased over time if necessary.
4. This shift towards high-efficiency all-electric appliances, combined with an increasingly clean grid, has the potential to improve indoor and outdoor air quality.
5. Widespread electrification of building heating and domestic hot-water systems could require a substantially larger electrical grid infrastructure, unless there are commensurate reductions in building energy demand through energy efficiency, energy storage, and smart building-grid integration.
6. Future equipment will utilize much lower global warming potential (GWP) refrigerants. While existing equipment may still use high GWP refrigerants, supporting and implementing phase-out plans and refrigerant management will dramatically reduce the impact of refrigerant leakage on overall building GHG emissions.
7. The ability of buildings to interact with the electric grid can help maximize the use of low- or no-carbon electricity and optimize the use of on-site energy storage. Two-way communication between the electrical grid and the building can reduce costs, decrease emissions and improve system reliability.
8. Heat pumps have become more energy efficient and capable of generating much higher temperatures across wider ranges of outdoor ambient temperatures, improving compatibility with existing heating distribution systems and improving their effectiveness in more climates.
9. Building electrification and decarbonization requires support for workforce training for all who create and operate buildings.

Government Affairs Committee

Winter Conference 2023

Friday, February 3rd, 2023

MOTION FROM POLICY AND PROGRAM SUBCOMMITTEE

Item 1:

MOTION: To amend the Rules of the Board, Section 1.300.004.2 (B) as such:

B. The Government Affairs Committee shall be responsible for archiving, publication and distribution of Public Policy Issue Briefs. GAC shall maintain the current list of approved PPIBs on the ASHRAE website. Each version of a PPIB will contain a statement indicating when it **was created, and when it expires** ~~which and~~ shall not be longer than one year after approval. (22-02-02-15)

B. The Government Affairs Committee shall be responsible for archiving, publication and distribution of Public Policy Issue Briefs. GAC shall maintain the current list of approved PPIBs on the ASHRAE website. Each version of a PPIB will contain a statement indicating when **it was created. it expires and shall not be longer than one year after approval.** (22-02-02-15)

BACKGROUND: According to the Rules of the Board, Section 2.402.03.4 directs the Government Affairs Committee (GAC) to review ASHRAE documents on relevant government affairs issues annually, including public policy issue briefs (PPIBs). Further, as stated in the GAC Manual of Procedures, the Policy & Program Committee is responsible for annually reviewing existing PPIBs and making recommendations to the Executive Subcommittee to retire or update the PPIBs. Section 1.300.004.2 (B) of the Rules of the Board requires that each PPIB contain a statement when it expires and shall not be longer than one year after approval. At a PPSC meeting on October 4th, 2022, there was a discussion on amending the footer of PPIBs to replace “expires on” with “created on”. Subsequent discussions by the GAC Rules Subcommittee suggested that “created on” be added in addition to “expires on”. The addition of the “created on” date will provide a more informative resource and indicate to policy and law makers that PPIBs are all recently created and thus up to date.

FISCAL IMPACT: NONE.

TRACKING GOVERNMENT OUTREACH EVENTS SY 2022-2023

PROGRESS CHART

	Target	Held	Scheduled	Planned	Delta
City/Local	57	2	0	2	-53
State	28	11	0	9	-8
Federal	13	21	0	6	14
Global	28	13	0	2	-13
In-Person		25			
Virtual		22			
Total	125	47	0	19	-59

Note: Totals may not add up due to rounding

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

SY22-23 SUMMARY TOTALS (to date):	Number of Attendees (ASHRAE Members)	Number of Meetings
Local	2	2
State	35	15
Federal	47	21
Global	156	14
TOTAL:	240	52

In Comparison

SY21-22 SUMMARY TOTALS:	Number of Attendees (ASHRAE Members)	Number of Meetings	Total Number of Events
Local	72	44	21
State	103	98	39
Federal	16	15	9
Global	343	60	44
TOTAL:	534	217	113

Government Affairs Committee

Winter Conference 2023

Friday, February 3rd, 2023

MOTION FROM GLOBAL AFFAIRS SUBCOMMITTEE

Item 1:

MOTION: To **amend** the Resource Manual, Section T: FINANCIAL ASSISTANCE FOR INTERNATIONAL OUTREACH EVENTS (4), to read as follows:

“...4. The budget plan must be completed within the first quarter of the Society Year and submitted to ~~that RVC's DRC~~ the GAC Staff Liaison, along with the written approval from the relevant DRC, no later than ~~September~~ November 30 of the Society Year.”

BACKGROUND: Global Affairs Subcommittee (GASC) members expressed the difficulty in accurately forecasting the needed travel reimbursement for international outreach events by the current September 30th deadline because many events are not held or planned until October. Moving the deadline to submit the budget for travel reimbursement for non-U.S. Chapters (\$2,000) to November 30 of the Society Year will allow RVCs to submit more accurate annual budgets for travel reimbursement for international outreach events. The GASC conducted a vote to recommend the motion and the vote passed on January 25th 2022 (5-0-0, CNV).

Commented [YM1]: Subject to change

FISCAL IMPACT: NONE.

ASHRAE Government Affairs Committee

2023 Winter Meeting

Regional Vice Chair Reports

For Presentation at the 2023 February 3rd Government Affairs Committee Meeting

E: STANDARDIZED RVC/ REPORTING FORMAT

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

RVC Report for Region I

ACTIVITY	
CRC	
Total number of chapters in region	15
Number of chapters present	12
Number of GA chapter chairs present	5
Percentage of participation	80%
Percentage of GA chapter chair participation	33%
No. of planning sessions held	0
PAOE	
No. of Chapters Reporting PAOE Points:	14
No. of Chapters Making Society Minimum :	11
No. of Chapters Making Society PAR :	0
Highest PAOE Points by a Chapter:	900
Percentage of chapters reporting	93%
Percentage of chapters making Society Minimum	73%
Percentage of chapters making Society PAR	0
CHAPTER VISITS	
No. of visits made:	1
No. of visits scheduled:	1
Percentage of chapters visited:	13%
GAC AWARDS	
Government. Affairs Award	0
Government Outreach Days	
No. of Chapters Participating	8
No. of government officials visited	18
No. of ASHRAE members participating	10
No. of Chapters reporting	8
No. of days duration	1

GAC RVC Report - Winter Conference Region I

SY 2022-2023

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
 - (In the works w/ Massachusetts)
- 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

- **Climate Action Scoping Plan Finalized**
 - Outlines recommended policies and actions to meet goals set forth by Climate ace (CLCPA)
 - Finalized December 2022

New York City

- **Climate Mobilization Act (Local Law-97) Rules Finalized**
 - Rules Finalized – December 2022
 - Property/Occupancy Classifications: Property types and classifications aligned around EPA's portfolio manager. Some categories are new and were not in the original law.
 - Accounting for grid decarbonizing: Coefficient for electricity for 2030-2024 adjusted
 - Clear Time Blocks:
 - [2024-2029] [2030-2035] [2035-2039] [2040-2049] [2050-Beyond]
 - Time of use included: Building owners will have the option to calculate their utility electricity emissions around time of use.
 - Building Occupancy Type Clarification: Building with multiple occupancy types to be evaluated as a sum total of the emissions for all types together.

New Jersey

- **Adopted IECC 2021 – September 2022**



Regional Legislative Updates

New Jersey

- Adopted IECC 2021 – September 2022

Connecticut

- Adopted IECC 2021 – September 2022

Massachusetts

- Updated Stretch Code to include IECC 2021
- Base Energy Code to be updated in 2023

City of Boston

- **Building Emissions Reduction & Disclosure Ordinance (BERDO 2.0)**
 - Policies & Procedures Formally Adopted December 2022

New Hampshire

- Updated Base Energy Code to IECC 2018



Regional Progress Highlights

ASHRAE Fall Breakfast Event: w/NY State & NYC Leadership (September 29th, 2022)

- ASHRAE Task Force for Building Decarbonization Update (Darryl Boyce)
- NYSERDA Overview of active work
 - Heat Pump Training Webinar series
 - Codes/Standards Training
- Panel Discussion – Industry Assessment
 - Climate Act Impact
 - Climate Mobilization Act (NYC) Impact
 - Industry Needs (Codes/Standards, Utility alignment)
- NYSERDA, DEC, NYC Mayors Office of Climate & Environmental Justice all in attendance.

New York Healthcare Protocol

- Region I Sponsored Project
- Aligning all of Healthcare in NYS and providing playbook & roadmap to decarbonizing their existing facilities (not in conflict w/TFBD Healthcare Design Guide in development)

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



State	Chapter Name	Active Chair	PAOE Points (to date)	Chapter Visits	CRC Attendance
New York	Bi-State	Yes	500	1	No
	Central New York	Yes	550	0	Yes
	Long Island	Yes	600	0	Yes
	New York City	Yes	700	N/A – Home Chapter	Yes
	Niagara Frontier	Yes	500	0	No
	Northeast	No	600	1- Target	No
	Rochester	Yes	600	0	No
	Twin Tiers	Yes	600	0	Yes
New Jersey	New Jersey	No	200	0	No
Connecticut	Connecticut	Yes	800	1- Target	Yes
Massachusetts	Boston	Yes	100	1 - Planned	Yes
New Hampshire	Granite State	Yes	900	0	Yes
Rhode Island	Rhode Island	No	0	0	No
Vermont	Champlain Valley	Yes	500	0	Yes
Maine	Maine	Yes	100	0	No

A large black circle with a white double-line border, containing white text.

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 & NY

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	7
Percentage of participation	100%
Percentage of GA chapter chair participation	78%
No. of planning sessions held	4
PAOE	
No. of Chapters Reporting PAOE Points:	8
No. of Chapters Making Society Minimum :	2
No. of Chapters Making Society PAR :	1
Highest PAOE Points by a Chapter:	Quebec 1350
Percentage of chapters reporting	89%
Percentage of chapters making Society Minimum	22%
Percentage of chapters making Society PAR	11%
CHAPTER VISITS	
No. of visits made:	5
No. of visits scheduled:	0
Percentage of chapters visited:	55%
GAC AWARDS	
Government. Affairs Award	None
Government Outreach Days	
No. of Chapters Participating	None held this SY.
No. of government officials visited	
No. of ASHRAE members participating	
No. of Chapters reporting	
No. of days duration	



Region II GA Update

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

Global Affairs & Member Mobilization Sub-Committees



Chapter Status

Chapter	CRC	Planning	RVC Visit	PAOE (Par = 1000)	Meetings Held
Windsor				0	
London	Y			150	
Hamilton	Y	Y	Y	550	2
Toronto	Y	Y	Y	400	
Ottawa	Y		Y	50	1
Montreal	Y	Y		300	
Quebec	Y	Y		1350	2
Halifax		Y	Y	100	
NB / PEI	Y	Y	Y	250	

- CRC featured top GA Staff, Decarb Task Force update.



Accomplishments

- Many chapters participated in “Energy Efficiency Day”
- Hamilton – 2x Decarb presentations to Provincial gov
- NB/ PEI – 50th anniversary, 2x meetings including Minister of Energy / Resource Development
- Toronto member ***Cara Sloat*** quoted in Walrus regarding IAQ and ASHRAE
- Quebec – GAC themed dinner meeting, featured local electric company and ***decarbonization task force***
- Second letter to Minister of the Environment, signed by all Chairs



Remainder of the year

- Promotion of “Engineers Week” in February
- Halifax – BuildGreen Atlantic event March 30, 2023
- Monthly follow ups with chapter chairs
- Assist chapter chairs with federal gov contacts for more meetings
- Implementation of Regional GA Awards



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

ACTIVITY	
CRC	
Total number of chapters in region	10 (11)
Number of chapters present	3
Number of GA chapter chairs present	2
Percentage of participation	33%
Percentage of GA chapter chair participation	20%
No. of planning sessions held	8
PAOE	
No. of Chapters Reporting PAOE Points:	1
No. of Chapters Making Society Minimum :	0
No. of Chapters Making Society PAR :	0
Highest PAOE Points by a Chapter:	50
Percentage of chapters reporting	10%
Percentage of chapters making Society Minimum	0%
Percentage of chapters making Society PAR	0%
CHAPTER VISITS	
No. of visits made:	0 (am I supposed to make visits??)
No. of visits scheduled:	0
Percentage of chapters visited:	0
GAC AWARDS	
Government. Affairs Award	
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	



ASHRAE Region 3

Winter Meeting Government Affairs Report

GA - Chapter Breakdown

Chapter	PAOE	Min or Par?	Goal Setting Session	Highlight
PHILADELPHIA	0	-	-	
CENTRAL PENNSYLVANIA	0	-	Yes	
JOHNSTOWN	0	-	Yes	
PITTSBURGH	50	-	-	
BALTIMORE	0	-	Yes	
NATIONAL CAPITAL	0	-	Yes	
HAMPTON ROADS	0	-	Yes	
LEHIGH VALLEY	0	-	Yes	
ROANOKE	0	-	-	
ANTHRACITE	0	-	Yes	
RICHMOND	0	-	Yes	

Note: PAOE is as of 1/15/2022.

Weak start to the year, struggling with GACs doing anything more than goal setting calls. No responses to my emails regarding PAOE opportunities.

Need to re-prioritize tasks and follow up more frequently with individual GACs.

Please note, appears I have missed some PAOE inputs and need to review my notes and update the PAOE numbers for some Chapters. Ran out of time to complete this ahead of due dates.

Goals and Objectives

Goals for the Second Half of the Year

- Increased communication with GACs
- Focus on individual calls with Elected Officials rather than a large DOTH style event.
 - Assuming the big event is daunting to folks who are new, maybe starting smaller with the GACs will be more successful to get their feet wet.
- Need to manage my time better to help motivate GACs, life is busy for everyone.

Goals/Objectives from Summer Meeting 2022

- Continue with being frequent with my communication to my GACs. Gentle reminders are always nice to have.
 - Reaching out, need to increase frequency. Not hearing back from GACs.
- 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!)
 - Unlikely to have either DOTH... Lack of interest mixed with a core GAC from last year moving to a new state/region.
- Personally I would like to get back in front of some of the VA state government and my local county/school board.
 - With the help of Matt and Jacob, we met with Senator Tim Kaine's people, and Representative Abigail Spanberger's people. Both meetings were very solid, need to do more of these.

E: STANDARDIZED RVC/ REPORTING FORMAT

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

RVC Report for Region 4

ACTIVITY	Region IV – Mid Year GAC Report 2023
CRC	
Total number of chapters in region	7
Number of chapters present	5
Number of GA chapter chairs present	5
Percentage of participation	71
Percentage of GA chapter chair participation	71
No. of planning sessions held	7
PAOE	
No. of Chapters Reporting PAOE Points:	6
No. of Chapters Making Society Minimum :	3
No. of Chapters Making Society PAR :	1
Highest PAOE Points by a Chapter:	1050
Percentage of chapters reporting	86
Percentage of chapters making Society Minimum	43
Percentage of chapters making Society PAR	14
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	4
No. of government officials visited	5
No. of ASHRAE members participating	6
No. of Chapters reporting	4
No. of days duration	4



ASHRAE
2023 Winter Conference
Atlanta, Georgia
February 03, 2023

Government Affairs Update

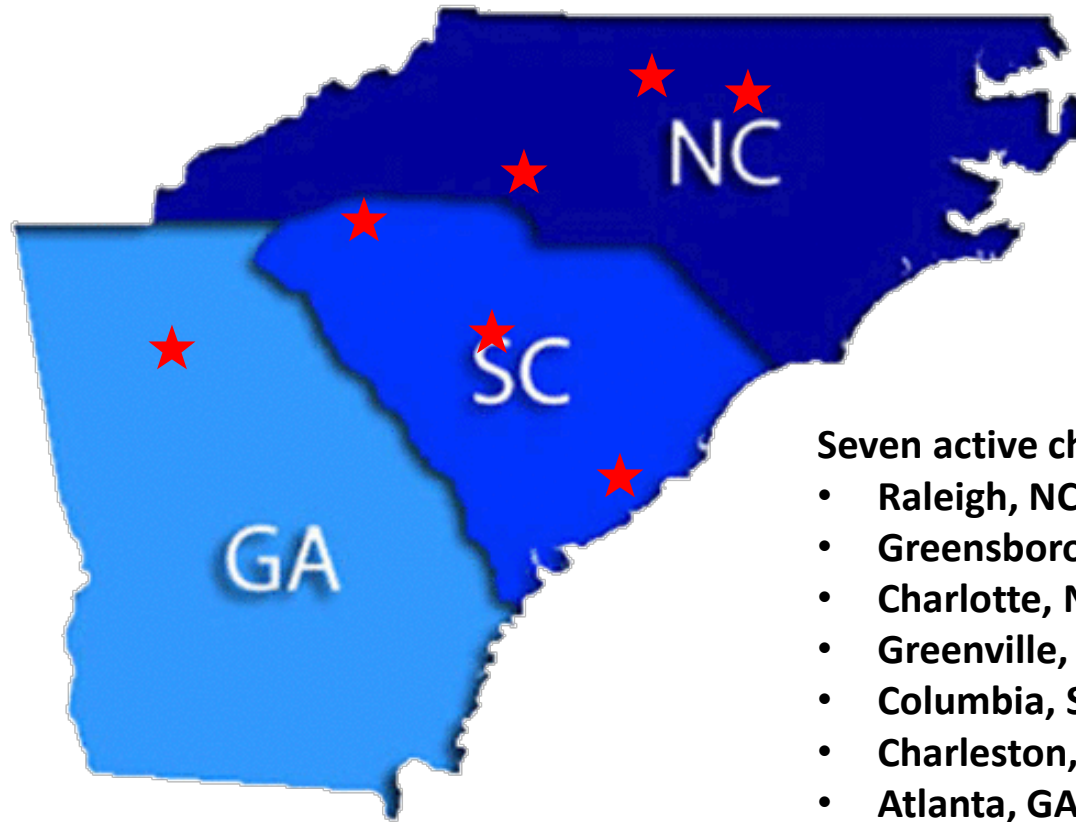


GAC:
Region IV Report

Weston Hockaday, GAC RVC



Region IV Overview

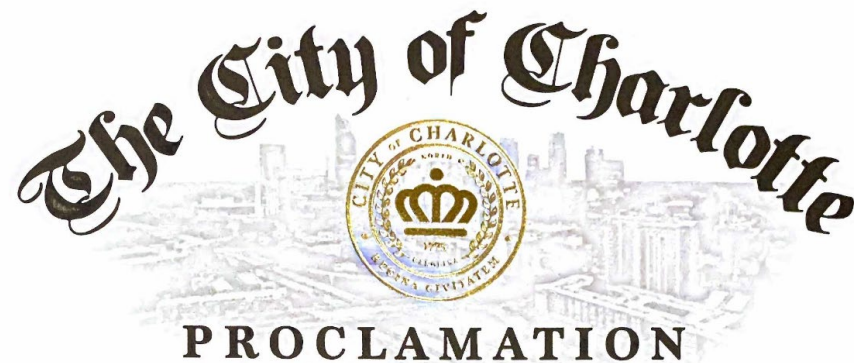


Seven active chapters:

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

Special Mention Activities

- Energy Efficiency Day (Oct 5, 2022) & National Engineers Week Proclamation (Feb 19-25):
Charlotte Mayor Vi Alexander Lyles
- Constituent Meetings with multiple Representatives facilitated by the Associate Manager of Government Advocacy and Outreach



Positive Activities

Highlights

- 6 of 7 Chapters reported PAOE points.
- 3 of 7 Chapters are at or above minimum PAOE
- 71 % Chapter & Chair attendance at CRC GAC Training.
- Variety of events at federal, state, and local level of Cities and Counties: Atlanta, Charlotte, Raleigh.
- Government Outreach Event – Constituent Meeting
- Government Outreach Events Reported - 3



Virtual Constituent Meeting



2023 Outlook

Opportunities

- **Improving Meaningful Government Outreach Events.**
- Continue to Develop Local Level Contacts: State, City, County, and Schools.
- Encourage participation in State Boards & Councils.
- Increase Chapter Level Engagement with Joint & GAC Theme Meetings
- GAC RVC Chapter Visit – Southern Piedmont



End of Report



E: STANDARDIZED RVC/ REPORTING FORMAT

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

RVC Report for Region VI

ACTIVITY	Region VI – GAC Report January 2023
CRC	
Total number of chapters in region	11
Number of chapters present	11
Number of GA chapter chairs present	11
Percentage of participation	100%
Percentage of GA chapter chair participation	90%
No. of planning sessions held	90%
PAOE	
No. of Chapters Reporting PAOE Points:	3
No. of Chapters Making Society Minimum :	1 (so far)
No. of Chapters Making Society PAR :	0 (so far)
Highest PAOE Points by a Chapter:	600
Percentage of chapters reporting	27%
Percentage of chapters making Society Minimum	1 (so far)
Percentage of chapters making Society PAR	10% (so far)
CHAPTER VISITS	
No. of visits made:	11-virtual meetings with chairs
No. of visits scheduled:	11
Percentage of chapters visited:	90% (virtually)
GAC AWARDS	
Government. Affairs Award	0
Government Outreach Days	
No. of Chapters Participating	6
No. of government officials visited	TBD
No. of ASHRAE members participating	TBD
No. of Chapters reporting	TBD
No. of days duration	TBD



Government Affairs Region VI

2022-2023 ASHRAE
Winter Conference Update

Region VI 2022-23 To-Date



RVC - Beth Tomlinson
Chapter, ASHRAE MN

Stantec
Carbon and Climate Discipline Leader



Region VI 2022-23 To-Date

MN – Rick Hermans

WI

Wisconsin Milwaukee – Victor Nino

Madison – Jason Boatman

La Cross Area – Chris Hsieh

Northeast Wisconsin – Mike Wolf

IL

Central Illinois – Jamie Moehling

Illinois – Dale Charlier & Cory Abramowicz

MO

St. Louis – Dan Mareschal

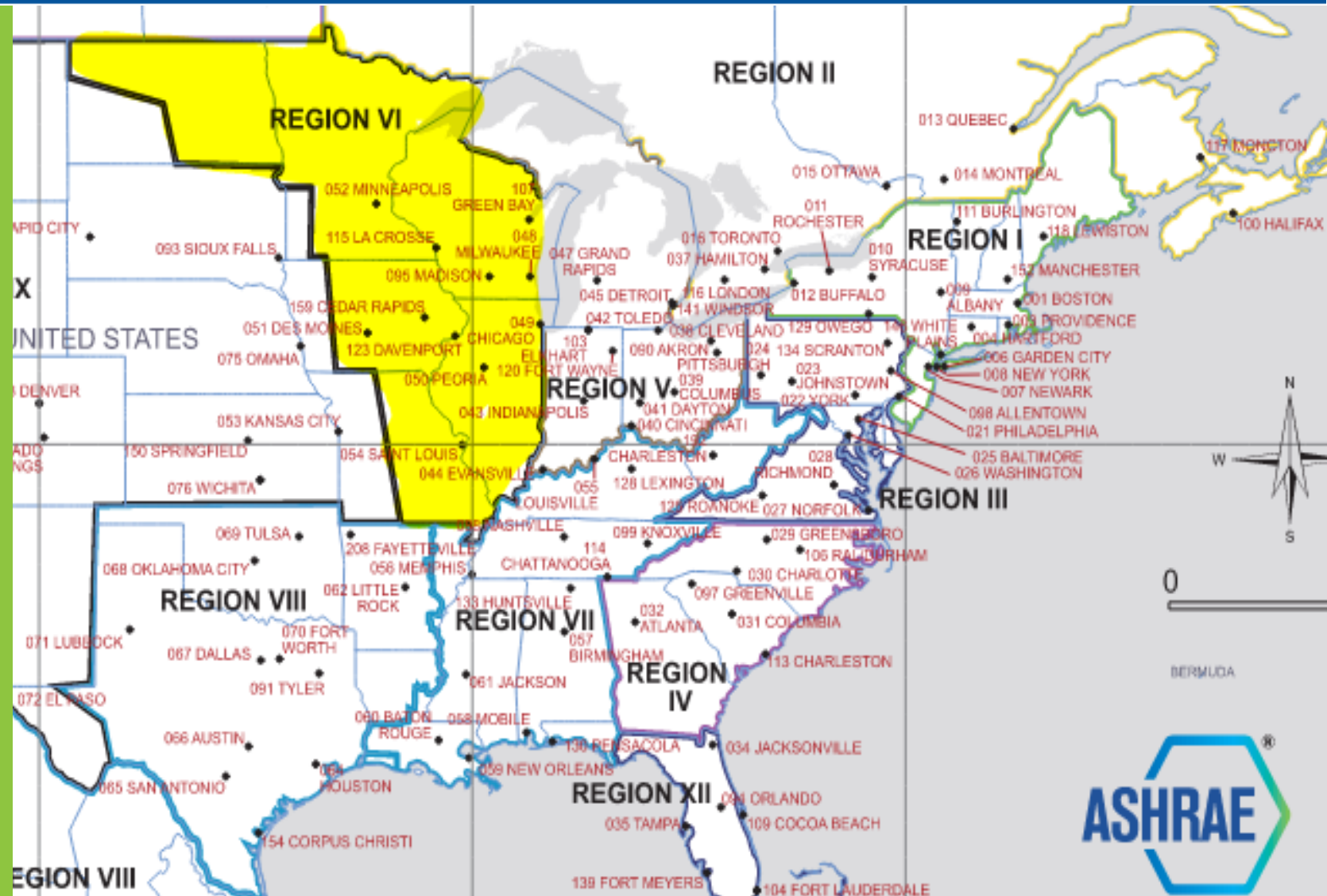
IA

Iowa – Matt Jesson

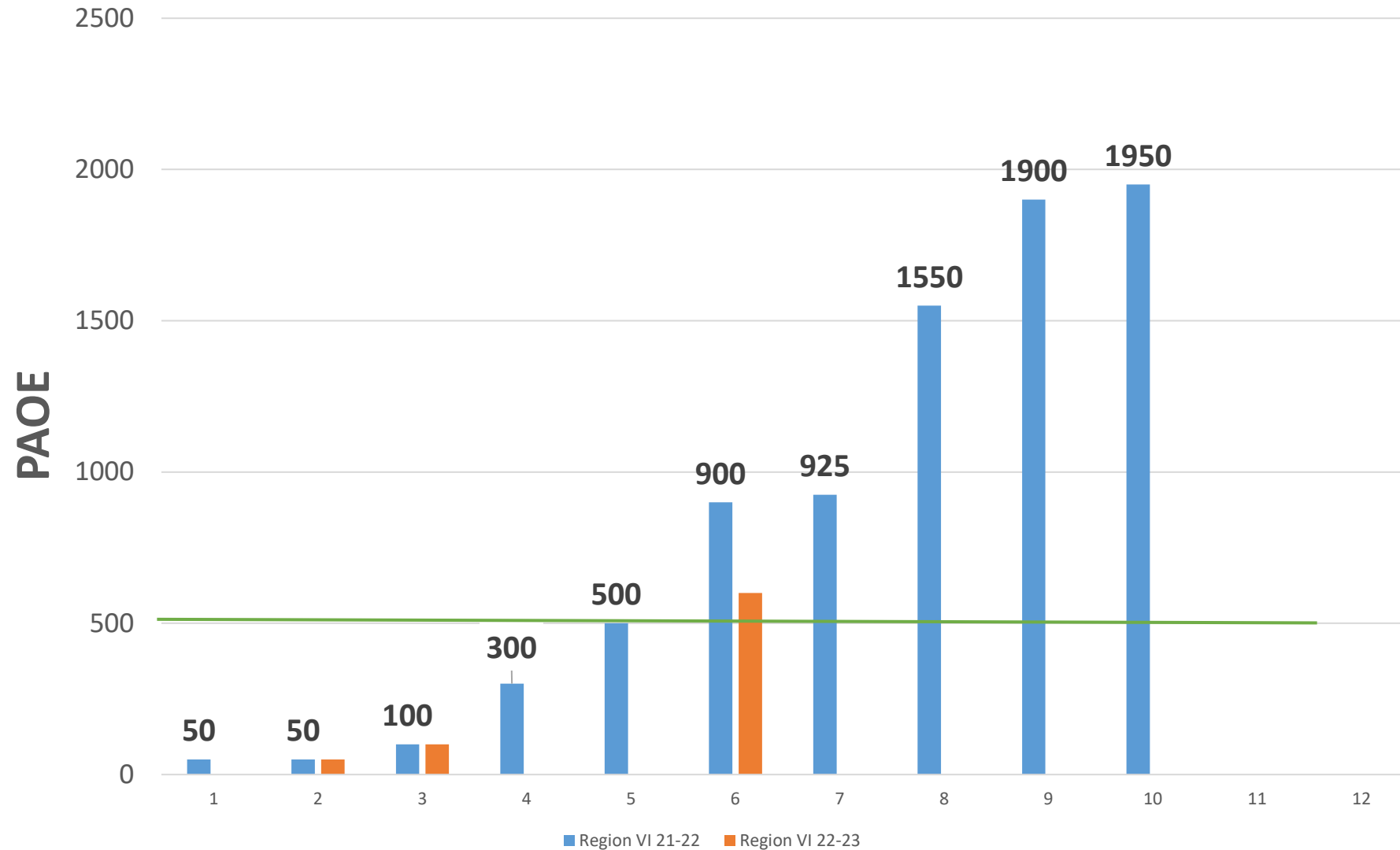
Cedar Valley – Ryan Collins

IA/IL

Mississippi Valley – Allen Poppe



Region VI 2022-23 To-Date



Region VI 2022-23 To-Date

Goals

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



Region VI 2022-23 To-Date

- Regional Accomplishment To-Date

ASHRAE Member Speaks at the Global Clean Energy Action Forum



Sept 2022

ASHRAE Participating in La Crosse, Wisconsin Climate Action Committee



Susanna Hanson, ASHRAE La Crosse Chapter



Chris Hsieh, ASHRAE La Crosse Chapter

Ongoing

ASHRAE Member to Participate in Milwaukee, Wisconsin Climate Task Force



Victor Nino, GAC Chair, Milwaukee Chapter

Ongoing



Kathleen Ellis, Vice President, Milwaukee Chapter



Region VI 2022-23 To-Date

- 1 Chapter activity featured in the ASHRAE GAC bi-weekly newsletter
- 1 Support letter (all WI chapters) to Wisconsin Department of Safety and Professional Services (DSPA) regarding new Wisconsin Commercial Building Code draft.
- 4 Chapters in Wisconsin collaborating and coordinating activities!
- 4 Chapters assisting with local climate action committees, code reviews, decarbonization or energy efficiency.
 - MN, Minneapolis Clean Energy Partnership/Energy Vision Advisory Committee Co-Chair
 - WI-Milwaukee, WI- Advisory Council on Bldg Sustainability, Clean Wisconsin & Benchmarking Ordinance
 - WI-La Cross, Healthy Schools Campaign & La Cross City Climate Action Plan
 - IA-Des Moines, Climate Action and Adaptation Plan



Region VI 2022-23 Planned

- 1** AIA/ASHRAE DOH in Iowa
- 1** ASHRAE 90.1 training to Wisconsin DSPS staff



E: STANDARDIZED RVC REPORTING FORMAT

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

RVC Report for Region:	VII
Total number of chapters in region	14

CRC (if not reported on since last Society Meeting)

Number of chapters present	14
Number of GA chapter chairs present	4
Percentage of participation	100%
Percentage of GA chapter chair participation	29%
No. of planning sessions held	7

PAOE

No. of Chapters Reporting PAOE Points:	9
No. of Chapters Making Society Minimum :	2
No. of Chapters Making Society PAR :	1
Highest PAOE Points by a Chapter:	1100
Percentage of chapters reporting:	64%
Percentage of chapters making Society Minimum	14%
Percentage of chapters making Society PAR:	7%

CHAPTER VISITS

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

GAC AWARDS

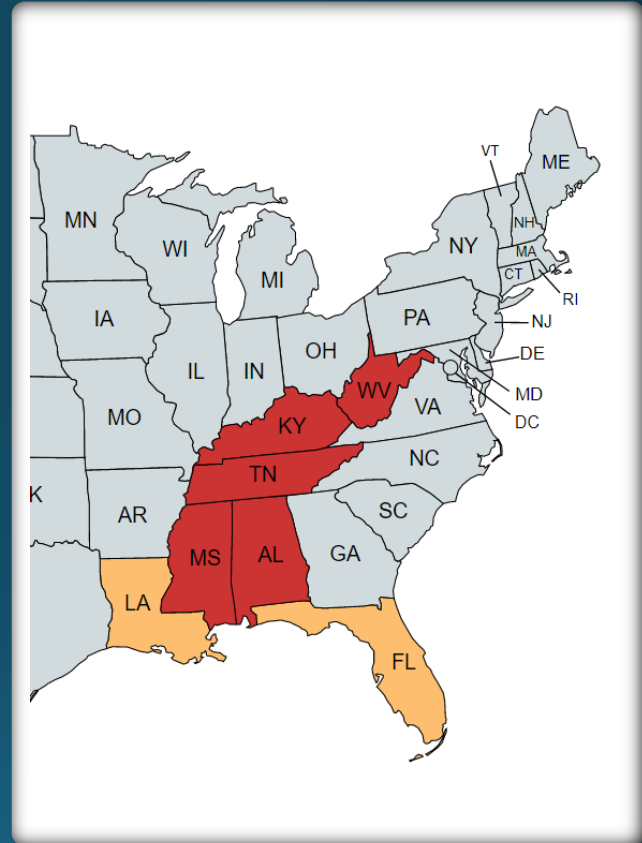
Government. Affairs Award Applications	0
--	---

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

ASHRAE Region VII

Government Affairs 2022-2023





Region VII
GAC RVC
Bio

Jess Gardner, PE, LEED AP

- Consulting Engineer for past 4 years
- Mechanical Contractor for the previous 12 years
- Located in Nashville, TN
- Chapter President 2016-2017
- Chapter leadership since 2009
- Second term as Government Affairs RVC

Chapter Engagement

Of Note:

12 of 14 Chapters Have Assigned GAC Chairs, compared to 9 last year!

4 chairs attended CRC GA training this year, compared to 0 last year

7 of 14 Chairs attended a planning meeting and submitted MBOs

Chapter	GAC Chair	Terms	Chapter Members	PAOE Points
Baton Rouge	No Chair	N/A	86	0
Birmingham	Zach Smith	1	219	100
Bluegrass	Doug Cage	1	113	950
East Tennessee	Andy Myers	1	234	200
Louisville	Jeff Murphy	1	190	300
Memphis	Mike Bilderbeck	5	164	300
Mississippi	Ryan Williams	2	79	0
Mobile	Douglas Walker	1	39	0
Nashville	Jim Murphy	2	331	150
New Orleans	Jacob Alter	1	124	1100
North Alabama	Steve Dunlap	1	52	200
Northwest Florida	No Chair	N/A	66	0
Tennessee Valley	Scott McKenzie	2	84	0
West Virginia	David Cotton	3	77	700

Looking Back

- West Virginia's K-12 benchmarking program
- West Virginia Governor's Energy Summit Award Winner
- WV Department of Energy Stakeholders Committee for Resilient Microgrids in West Virginia
- Energy and Environmental Committee at Greater Louisville Chamber of Commerce and the Board of Builders Exchange re: codes updates
- Alabama outreach to Congress, U of A Industrial Assessment Center and Alabama Department of Energy

Looking Ahead

- Continued work to support updates of 10+ year old Commercial Building Codes in Kentucky, including statewide coordination
- Nashville 2023 Engineer's Day on the Hill, with ACEC Tennessee on Tuesday, February 28, 2023

Opportunities

Best practices shared at CRC are super motivating to new GAC Chairs

Still working to motivate a lead person for each state with multiple chapters

Working with leaders in other professional societies is a great way to get the ball rolling

Piggyback on government outreach activities that are already in the works



Region VIII

2023 Winter Conference

**Government Affairs
Committee Report**

February 3, 2023

Region VIII Status

- **Region VIII GAC will continue a strong effort at state, federal, and international levels**
- **Multiple types of Government Outreach Events planned by chapters in our region ranging from virtual to physical state capitol events**
- **Texas chapters coordinating for multiple chapter GOE at state capitol**
- **Chapters involved in legislative and public forums in our region.**
- **About 1/3rd chapters have active GAC programs, want to continue growing our region**

PAOE Report

Chapter Number	Chapter Name	Area Assigned Members	2021-2022 PAOE Points	2022-2023 PAOE Points
62	Arkansas	233	600	300
64	Houston, TX	692	250	700
65	Alamo – San Antonio	224	0	0
66	Austin, TX	344	0	100
67	Dallas, TX	690	200	0
68	Central Oklahoma	275	750	700
69	Northeastern OK	187	300	550
70	Ft. Worth, TX	297	550	100
71	West Texas	77	100	0
91	East Texas	111	0	0
154	South Texas	57	100	0
165	Mexico City	118	900	100
166	Monterrey, MX	113	250	1050
173	Guadalajara, MX	26	0	0
208	Northwest Arkansas	110	150	0

Region Overview

- **Monterrey continued work with local and state government officials in advocacy for ASHRAE adoption in their local area. Promoting ASHRAE Standards, Guidelines, Epidemic Task Force (ETF) and Task Force for Building Decarbonization (TFBD) literature resources.**
- **Monterrey procured agreement with local/state government with a main goal of the event to sign an agreement between ASHRAE Monterrey Chapter and the Energy State Department**
- **Monterrey organized a very successful Chapter's Annual Conference "4th Congress in Energy Efficiency in HVAC Systems" in conjunction with a project by the city to encourage energy efficiency in buildings (Efficient Building Challenge) hand in hand with the World Resources Institute. Various important government officials attend the event**
- **Monterrey project to create a roadmap of public policies to be implemented in city, with goal to permeate the information of standards 62 and 90.1, as well as the use of ASHRAE Level I audits**
- **Houston continued work with City of Houston Code Council on codes amendment and adoption**
- **Houston GAC chair met with the Mayor of Houston to discuss the Decarbonization policy and Resiliency. Also spoke with the State Energy Conservation Office (SECO) to discuss codes.**
- **Central OK & NE OK work directly with Oklahoma Uniform Board of Code Commission (OUBCC) in adoption of IECC**
- **Central OK & NE OK continued joint Government Outreach Event efforts. Virtual Federal meetings with staffers from Representative Kevin Hern and Senator James Lankford**
- **In process of coordinating all Texas chapters Government Outreach at state capitol.**

Region Collaboration

- **Central Oklahoma & Northeastern Oklahoma Chapters – 8th consecutive Outreach Day. Longest running in Society. Involved in sponsored legislation HB1818 & SB148**
- **Central Oklahoma & Northeastern Oklahoma obtained National Engineer successfully worked with our legislature and leaders for our first statewide proclamation for Engineer’s Week from Oklahoma Governor Kevin Stitt**



Region Successes

- **Monterrey procured agreement with local/state government with a main goal of the event to sign an agreement between ASHRAE Monterrey Chapter and the Energy State Department. due the impact of energy demand for space cooling on the energy landscape in Mexico, as well as to identify emerging opportunities for collaborations. This event is part of the efforts made by the local government aimed at creating awareness, supporting effective objectives, developing energy policies and promoting technologies for cooling and conditioning responsible spaces with future energy and environmental impact**



Areas to work on in 2023

- **Implement mentorship program between strong GAC chapters with small GAC chapters.**
- **Each chapter should have 1 outreach activity at each level: city, state, or federal level.**
- **Be creative in your outreach opportunities. Does not have to be meetings at capitol only.**
- **Need more connection with other public entities; school boards, county commissions, maintenance staffs & code officials**
- **Training sessions are always welcome by public officials**
- **Need better reporting & tracking for all outreach events. See formal society report. Several GOE opportunities missed based on informal reporting via email.**

Thank you

Questions?

E: STANDARDIZED RVC/ REPORTING FORMAT

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

RVC Report for Region IX

ACTIVITY	Region IX – GAC Report February 2023
CRC	
Total number of chapters in the region	13
Number of chapters present	8
Number of GA chapter chairs present	4
Percentage of participation	61.5%
Percentage of GA chapter chair participation	30.8%
No. of planning sessions held	5
PAOE	
No. of Chapters Reporting PAOE Points:	8
No. of Chapters Making Society Minimum :	1
No. of Chapters Making Society PAR :	0
Highest PAOE Points by a Chapter:	500
Percentage of chapters reporting	61.5%
Percentage of chapters making Society Minimum	7.7%
Percentage of chapters making Society PAR	0%
CHAPTER VISITS	
No. of visits made:	0
No. of visits scheduled:	0
Percentage of chapters visited:	0%
GAC AWARDS	
Government Affairs Award	J. McCaslin, NE (2021-22 Year), K. Abbott, SD (Sustained Excellence)
Government Outreach Days	
No. of Chapters Participating	6 (in progress)
No. of government officials visited	TBD
No. of ASHRAE members participating	TBD
No. of Chapters reporting	6
No. of days duration	7



Region IX Winter Report

Big Sky



Chapter# 131

Black Hills



Chapter# 127

El Paso



Chapter# 072

New Mexico



Chapter# 077

Ozarks



Chapter# 150

Pikes Peak



Chapter# 148

Idaho



Chapter# 135

Kansas City



Chapter# 053

Nebraska



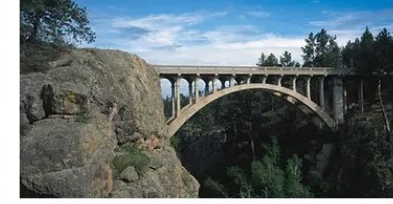
Chapter# 075

Rocky Mountain



Chapter# 073

South Dakota



Chapter# 093

Utah



Chapter# 074

Wichita

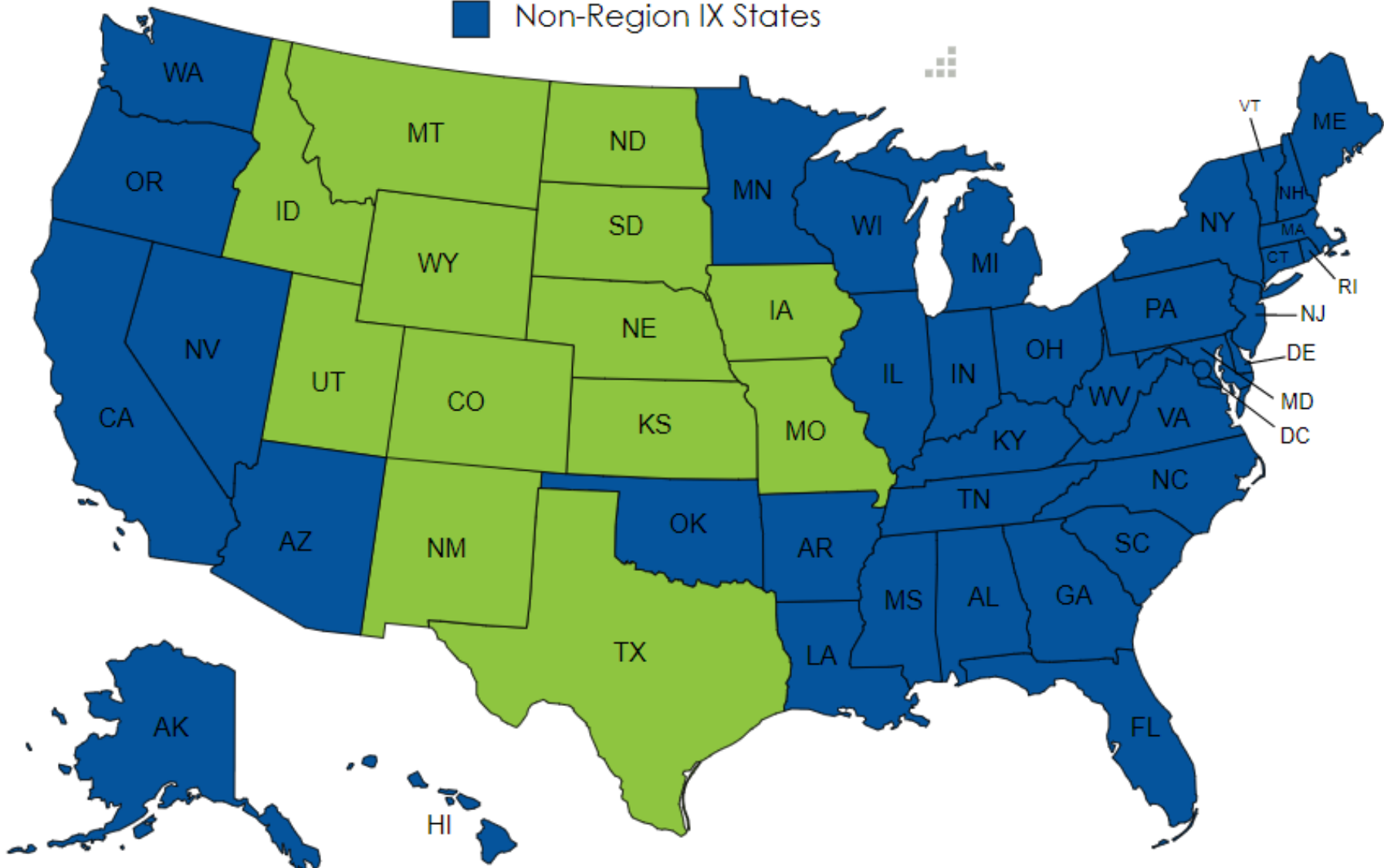


Chapter# 076

Region IX Chapter Locations

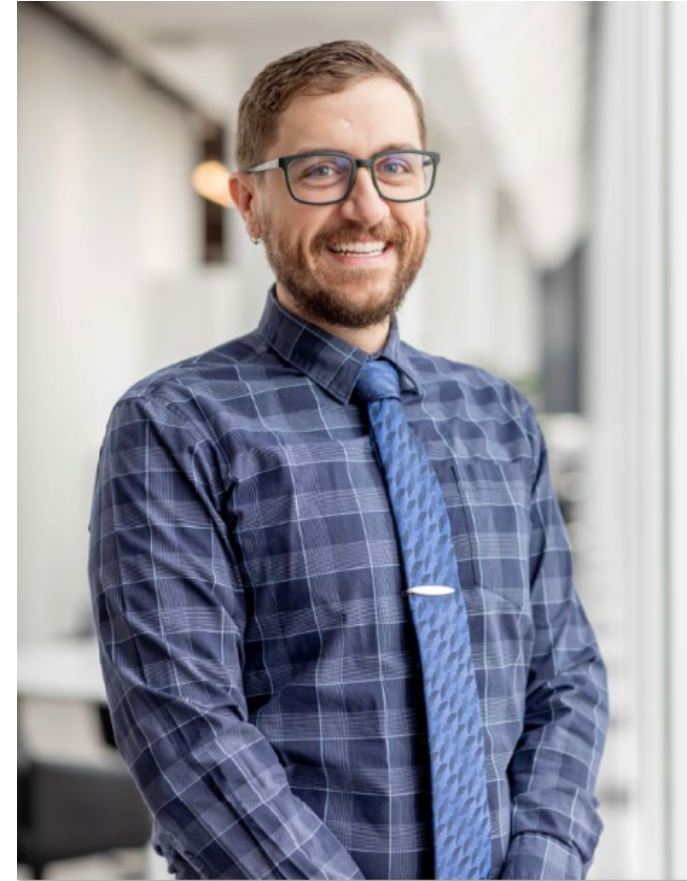
- Region IX States
- Non-Region IX States

Region IX



Region IX RVC Bio.

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



Region IX Chapter Status

Chapter code	Chapter Name	Government Affairs: Minimum 500; PAR 1000	Chapter PAOE point Totals
53	KANSAS CITY	200	4850
72	EL PASO	0	540
73	ROCKY MOUNTAIN	50	4915
74	UTAH	400	8760
75	NEBRASKA	250	6570
76	WICHITA	0	1281
77	NEW MEXICO	50	1030
93	SOUTH DAKOTA	100	1403
127	BLACK HILLS	0	310
131	BIG SKY	0	1410
135	IDAHO	150	2140
148	PIKES PEAK	500	3220
150	OZARKS	0	400



Region IX Attention Needed

- Chapters struggling to staff committees/chairs
 - Focus on President-Elect training
- Chapter visits
- Home rule state education



Region IX Positives

- Strong GA Chairs in participative chapters
- Outreach events are annual events in participative chapter
- Energy code adoption pushes continue



Region IX Legislative Trends

- Attempt to weaken energy code requirements for new builds
 - Push to lower the cost of housing, passing cost on to residents
- Energy source manipulation
- Reluctance to discuss climate change
 - Terminology minefields



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 ###

ACTIVITY
CRC
Total number of chapters in region 11
Number of chapters present 11
Number of GA chapter chairs present 6
Percentage of participation 100%
Percentage of GA chapter chair participation 45 %
No. of planning sessions held 6
PAOE
No. of Chapters Reporting PAOE Points: 6
No. of Chapters Making Society Minimum : 4
No. of Chapters Making Society PAR : 2
Highest PAOE Points by a Chapter: 1800
Percentage of chapters reporting 45%
Percentage of chapters making Society Minimum 36%
Percentage of chapters making Society PAR 18%
CHAPTER VISITS
No. of visits made: 2
No. of visits scheduled: 4
Percentage of chapters visited: 18%
GAC AWARDS
Government. Affairs Award 1
Government Outreach Days
No. of Chapters Participating 6
No. of government officials visited 15
No. of ASHRAE members participating 12
No. of Chapters reporting 6
No. of days duration 14



ASHRAE Region XI

GOVERNMENT AFFAIRS REPORT - WINTER MEETING
2022/2023 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*

First Year of 2nd 3 Year GA RVC Term *2022/2025*

Chapter PAOE Synopsis 2022/2023:

Chapter	Points to date	Chair	Chair Activity	Chapter Visit
Manitoba	150	Yes	Minimal	No
Regina	1700	Yes & Committee	Strong	Virtual
Saskatoon	650	Yes	Good	No
Southern Alberta	650	Yes	Good	No
Northern Alberta	250	Yes	Minimal	No
British Columbia	850	Yes	Good	Yes
Vancouver Island	400	Yes	Moderate	Yes
Oregon	0	No	None	No
Puget Sound	1000	Yes & Committee	Good	No
Inland Empire	0	No	None	No
Alaska	0	Yes	Has not reported	No

2022/2023 Major Chapter Accomplishments

- ✓ **Regina Chapter Hosts a Building Decarbonization Panel Presentation with Local & Provincial Government Officials, and Stakeholders.**
- ✓ **BC Chapter unveils their Resiliency and Sustainability Guide while hosting a Building Decarbonization Panel Presentation with the City of Vancouver, and key engineering firm representatives.**
- ✓ **Vancouver Island Chapter Hosts Smoke Control Presentation with the Chief Building Inspector from the City of Victoria.**
- ✓ **Southern Alberta Chapter Hosts a Building Decarbonization Presentation with Senior Facility Officials from the University of Calgary.**

Goals and Objectives for 2022/2023 SY

- ✓ Staying focused on virtual or in-person meetings with Government, and Elected, Officials
- ✓ Promote Legislature event days with promotion booths
- ✓ Incorporate a Regional "Office Hours"
- ✓ Day on the Hill event in Ottawa in conjunction with Region II

Goals and Objectives for 2022/2023 SY cont.

- ✓ Proclamations combined with Government Outreach
- ✓ In commemoration of International Women in Engineering Day June 23rd and the recognition of World Refrigeration Day, June 26th I'm encouraging all my Chapters to host a year end social and celebration as close as possible to Friday June 23rd 2022 To recognize women in engineering and women in the refrigeration industry, as women play a significant role in the refrigeration Industry. This can also be combined with the newly formed DEI Chair Committee of each Chapter.

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 meetings.
- ✓ GA Chapter Chairs, and Committees, are the Frontline representatives for getting the ASHRAE message out to policy and decision makers.



Government Affairs Committee Region XIII Report

Feb 2023: ASHRAE Winter Meeting

Er. Albert Sin Yew Tek

Regional Vice Chair –

GAC (2021 – 2024)

sinyewtek@gmail.com





S/N	GAC Appointment (2022-2023)	Name
1	RVC	Er. Albert Sin
2	ISI Task Force	Mr. Henry Yeo
3	Singapore - Chair	Mr. Syed Mubarak
4	Singapore - Co-Chair	Mr. Jeffrey Eng Ee Seong
5	Hong Kong - Chair	<u>Mr. Jacky NG</u>
6	Hong Kong - Co-Chair	Mr Chan Yu Ho, Mike
7	Malaysia - Chair	Mr. Chea Swei Keong
8	Malaysia - Co-Chair	Mr. Leong Siew Meng
9	Taiwan - Chair	Mr. Sun, Ting-Jui
10	Taiwan - Co-Chair	Dr. Huang, Chia-Ming
11	Philippines - Chair	Francis Guevara
12	Philippines - Co-Chair	Ms. Jaime Jajay E. Cruz
13	Thailand - Chair	Mr. Pachern Sangbutsarakum
14	Thailand - Co-Chair	Tavatchai Alex
15	Indonesia - Chair	Dr. Ardiyansyah Yatim
16	Indonesia - Co-Chair	Ms. Cahyarini Dwiatmo
17	Japan - Chair	Mr. Nobuhiro.hirasuga
18	Japan - Co-Chair	Mr. Takashi Akimoto
19	South Korea - Chair	Jongrim Jeong
20	Macao - Chair	Mr. Cheong Chan Wa
21	Macao - Co-Chair	Ms Georgina Lam



Region XIII GAC PAOE

Note:
For 2022-2023;
Par 1000, Min. 500

Chapter Name	2022 - 2023 (As on 15Jan23)	2021 - 2022	2020 - 2021	2019 - 2020	2018 - 2019
Singapore	1400	1350	1050	2300	200
Hong Kong	750	2100	2300	5600	2250
Malaysia	1850	4650	2100	1800	3450
Taiwan	700	1750	1700	1050	1100
Philippines	1600	2400	3600	3800	8250
Thailand	150	1620	1050	700	1000
Indonesia	450	1350	1650	700	2750
Japan	250	400	250	200	100
South Korea	0	250	250	200	350
Macao	150	1200	9950	1100	200



Past GAC meetings: 2021 – 2022, 2022 – 2023

Virtual Meetings	(2022 – 2023)	
	Dates	Attendances
GAC Workshop	20 Aug. 2022	28
GAC Meeting no. 1	29 Oct. 2022	11
GAC Meeting no. 2	TBA	
GAC Meeting no. 3	TBA	

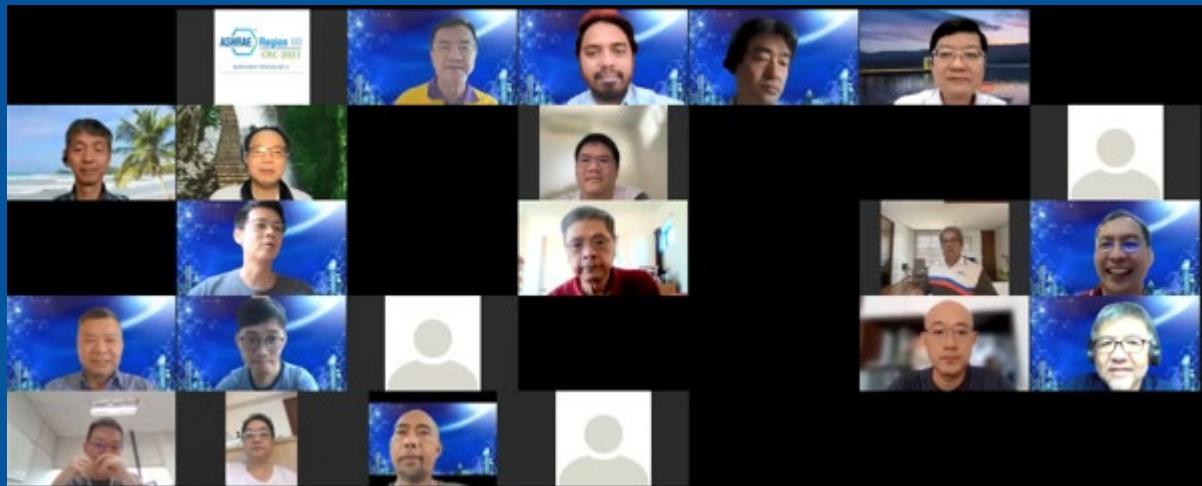
(2021 – 2022)	
Dates	Attendances
4 Sep. 2021	55
2 Oct. 2021	19
12 Mar. 2022	20
4 Jun. 2022	18



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



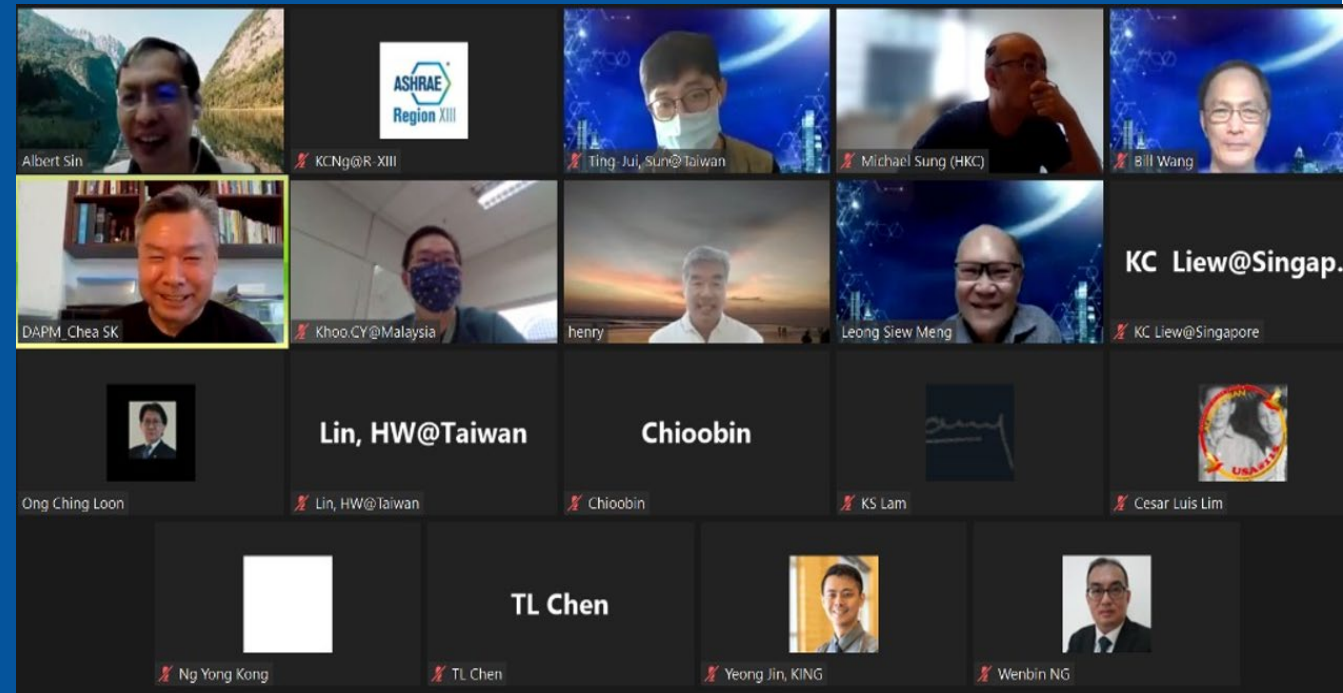
55 participants





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

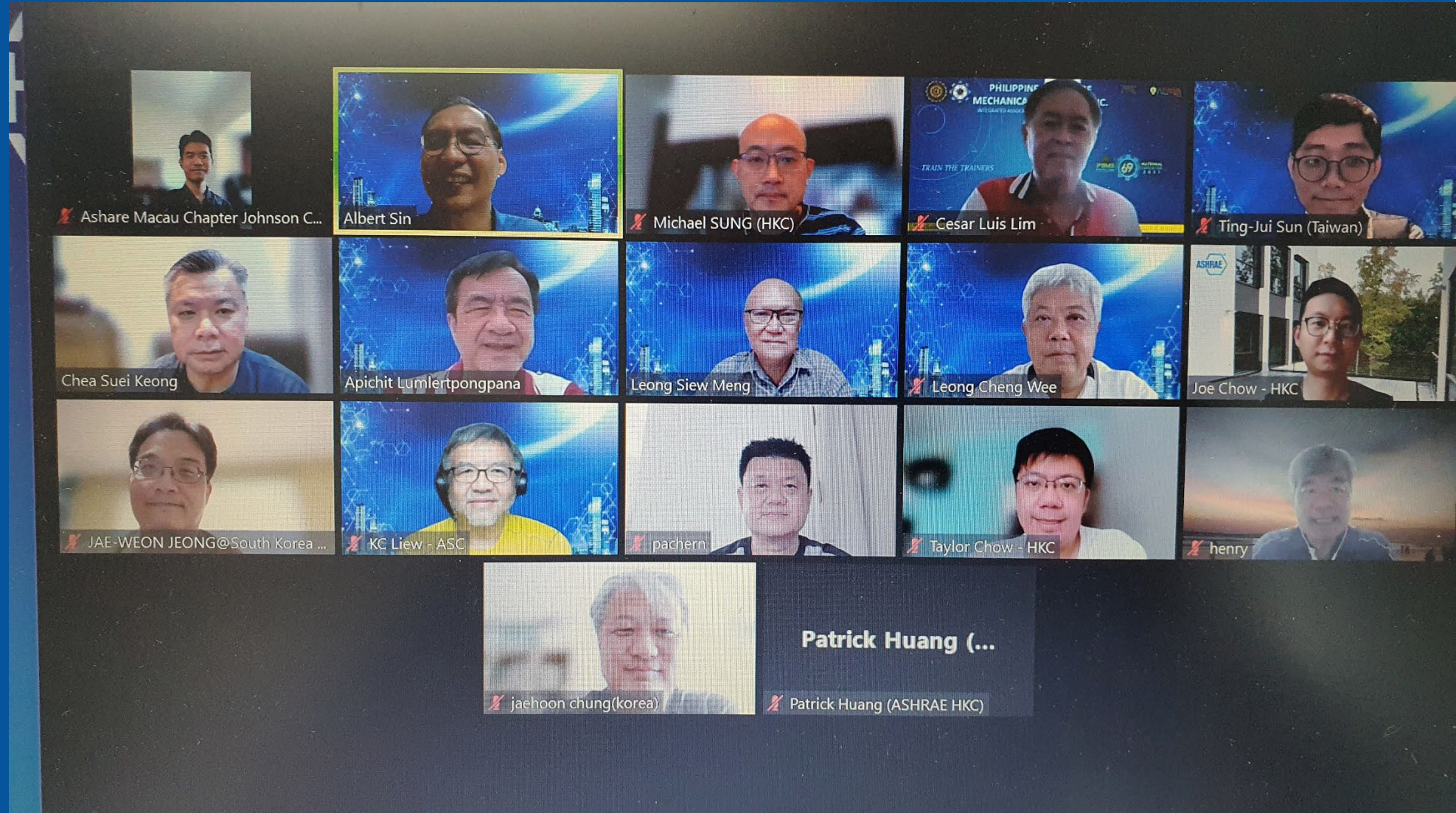
19 participants





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





ASHRAE Region XIII Virtual CRC GAC Training Workshop, 20 August 2022













28
participants

 Syed Mubarak (Singapore)	 Albert, Singapore	 Ching Loon ONG	 Cesar Luis Lim	 Leong Siew Meng (Malaysia)
 Ting-Jui Sun, Taiwan	 Francis Guevara, GA - Philippines	 Jacky Ng (Hong Kong)	 David Lau Singapore	 Nobuhiro Hirasuga(Japan)
 ASC-Jeffrey Eng Ee Seong	 Indonesia - Herlin Herlianika	 Kitaro Mizuide _Japan	 Pachern Sangbutsarakum TH	 Jojo Castro
	 CM Huang@ Taiwan	 Georgia Lam (Macao)	 Mike CHAN, HOS&P BSI(KWH)	



ASHRAE Region XIII GA Virtual Meeting No. 1, 29 October 2022

11
participants

 <p>Ting-Jui Sun @Taiwan chapter</p>	 <p>Albert Sin, SIN</p>	 <p>CM Huang-GMC</p>	 <p>Nobuhiro Hirasuga _ Japan Chapter</p>
 <p>Jacky Ng</p>	 <p>Syed Mubarak Abdul Razaak</p>	 <p>Henry Yeo's iPhone</p>	 <p>KC Ng@Malaysia Chapter</p>
 <p>Lin, HW@Taiwan</p>	 <p>Sun Ting-Jui</p>	 <p>Mike CHAN (ASHRAE HK Chapter)</p>	 <p>Ardi Yatim @Indonesia</p>



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		
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 (TBA)

Zoom meeting, June 2023 (TBA)





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	Region XIV – GAC Report February 2023
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:	1
No. of Chapters Making Society Minimum :	-
No. of Chapters Making Society PAR :	-
Highest PAOE Points by a Chapter:	200
Percentage of chapters reporting	11%
Percentage of chapters making Society Minimum	0%
Percentage of chapters making Society PAR	0%
CHAPTER VISITS	
No. of visits made:	0
No. of visits scheduled:	0
Percentage of chapters visited:	0%
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	-



**2023 ASHRAE
WINTER CONFERENCE**

ATLANTA, Feb 4-8 | AHR Expo, Feb 6-8

Region XIV - GAC Report

George Pantelidis

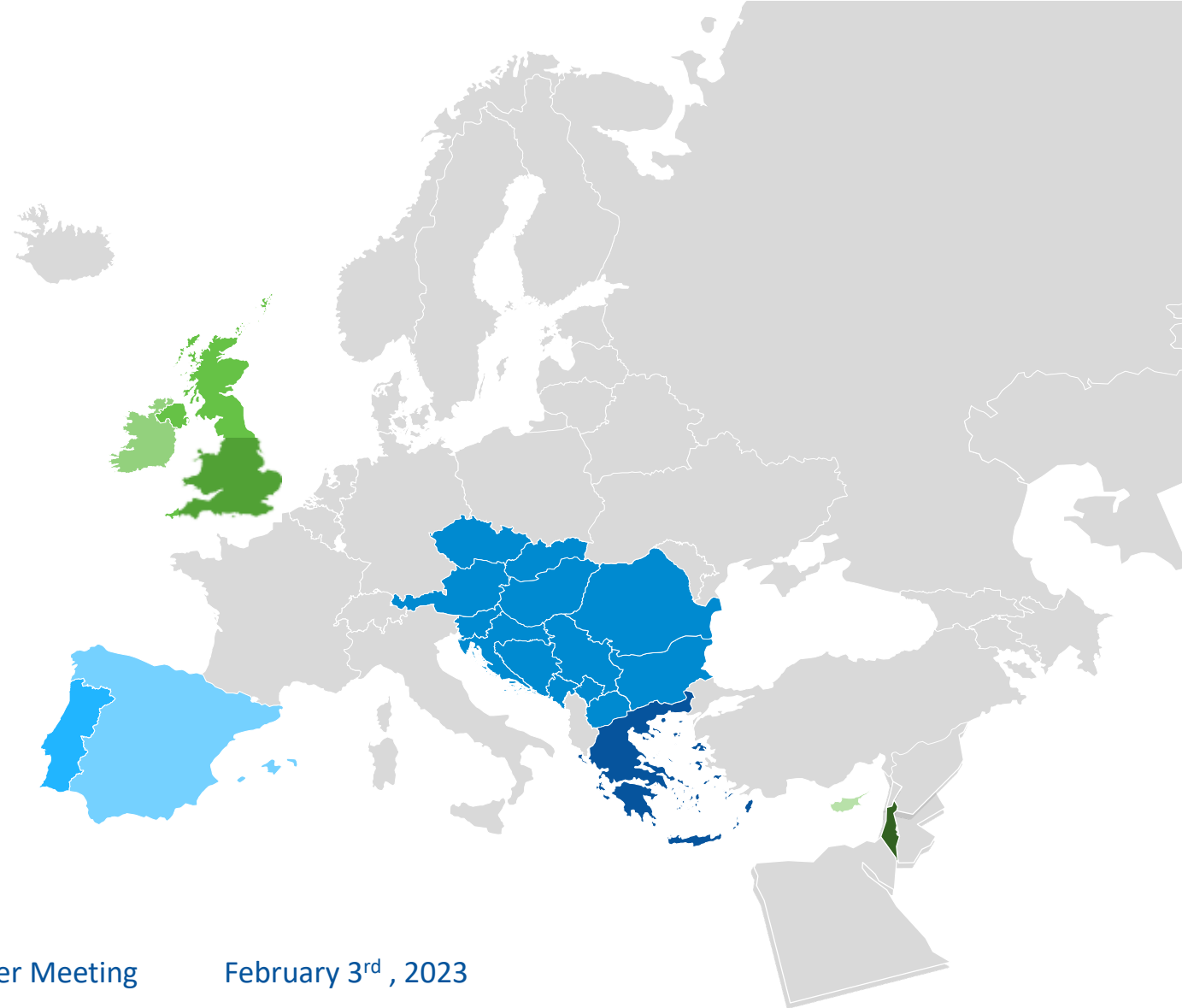
RVC-GA Region XIV

Hellenic Chapter



The Region

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



Accomplishments – Current situation

GA Workshop – Virtual (25.7.2022 – around 22 Participants)

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

#	Chapter	GA Chair
168	Hellenic	Nikos Giannitsanos
176	Danube	Liviu Drughean
177	Portugal	Luis Neto
182	Spain	Jesus De Lara
203	Cyprus	TBC
204	Ireland	Ken Goodman – Edith Blennerhasset
205	UK Midlands	Clive Briggs
206	UK London	Ashwaq Mohammed
214	Israel	TBC



Goals for 2021

- ✓ **Establish communication with EU commission**
- ✓ **Engage more GA chairs to participate and achieve PAOE points**
- ✓ **All chapters to have GA chairs (2 chapters with no chair)**
- ✓ **Smooth transition to the new GA RVC**

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 RAL

ACTIVITY	
CRC	
Total number of chapters in region	32
Number of chapters present	28
Number of GA chapter chairs present	15
Percentage of participation	88%
Percentage of GA chapter chair participation	55%
No. of planning sessions held	3
PAOE	
No. of Chapters Reporting PAOE Points:	12
No. of Chapters Making Society Minimum :	5
No. of Chapters Making Society PAR :	2
Highest PAOE Points by a Chapter:	Pyramids
Percentage of chapters reporting	38%
Percentage of chapters making Society Minimum	16%
Percentage of chapters making Society PAR	6%
CHAPTER VISITS	
No. of visits made:	3
No. of visits scheduled:	5
Percentage of chapters visited:	60%
GAC AWARDS	
Government. Affairs Award	0
Government Outreach Days	
No. of Chapters Participating	12
No. of government officials visited	42
No. of ASHRAE members participating	78
No. of Chapters reporting	3
No. of days duration	16



Region-at-Large
"Where Things Happen"

ASHRAE Region at Large

GOVERNMENT AFFAIRS 2022/2023

RVC Bio:

Ahmed M. Bolbol

Consulting Engineer

Cairo, Egypt

Chapter 211 Pyramids

GA Chapter Chair *2014/2017*

Chapter President Elect *2022/2023*

First Year of 3 Year GA RVC Term *2022/2025*



RVC Report for Region

ACTIVITY

CRC	PAOE	CHAPTER VISITS	GAC AWARDS	GAC AWARDS
Total number of chapters in region 32	No. of Chapters Reporting PAOE Points: 12	No. of visits made: 3	Government. Affairs Award 0	No. of Chapters Participating 12
Number of chapters present 28	No. of Chapters Making Society Minimum : 5	No. of visits scheduled: 5		No. of government officials visited 42
Number of GA chapter chairs present 15	No. of Chapters Making Society PAR : 2	Percentage of chapters visited: 60%		No. of ASHRAE members participating 78
Percentage of participation 88 %	Highest PAOE Points by a Chapter: Pyramids			No. of Chapters reporting 3
Percentage of GA chapter chair participation 55 %	Percentage of chapters reporting 38%			No. of days duration 16
No. of planning sessions held 3	Percentage of chapters making Society Minimum 16 %			
	Percentage of chapters making Society PAR 6 %			



SUB REGION 01



Region-at-Large
"Where Things Happen"

SUB REGION 02

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



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



(CRC Istanbul)



ASHRAE[®] **Region-at-Large**
"Where Things Happen"
RAL-CRC

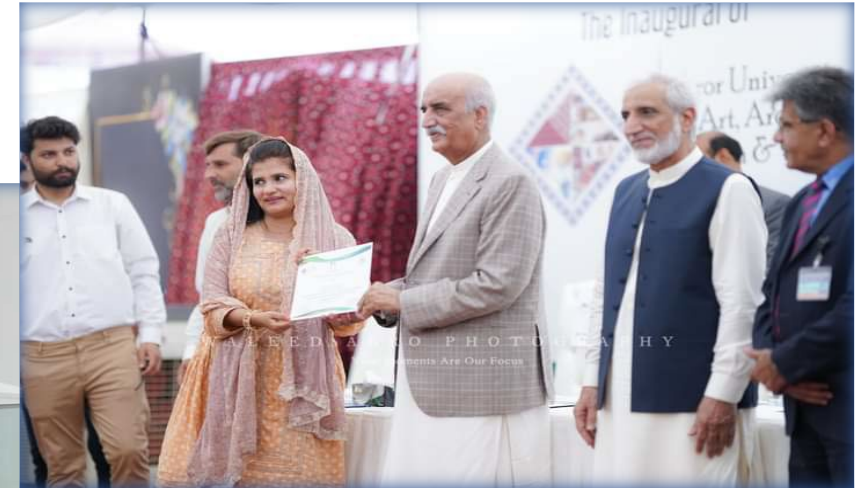


(North Pakistan Chapter)

NAYA Pakistan

Pakistan Standards of Quality Control Association

ASHRAE meeting and update of the policy for temporary shelter for the flood effected zone system



(Pyramids Chapter)



ASHRAE-UNEP
Co-operation
For Environmental
Issues



(Pakistan Chapters)



(Sri Lanka Chapter)



Jan, 2023 – Co-operation with Ministry of Environment



(Specification and quality authority - Egypt)



Regional Accomplishments:

- ✓ North Pakistan Chapter had several events during the natural disasters with the government authors.
- ✓ Sri Lanka Chapter held an event to support women in [ASHRAE](#) with government officials
- ✓ Pyramids Chapter had many numbers of government outreach to support the global warming & increase woman in [ASHRAE](#)



Ongoing Efforts

- 1) Trying to have better reports from the GAC
- 2) Two on-time meetings for each sub-region (In each next quarter)
- 3) More Chapter visits specially in Sub-region II
- 4) To have a GA chair in each chapter.



Lessons Learned

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





ASHRAE Leadership Presentation 2023 Winter Conference

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

- Nominations for elected positions (Councils, RAC, TAC, Standards, and Handbook) are due **mid-September**.
- Nominations for appointed committees are due **February 17**.
- Speak with your committee ExO/CO if your current appointment ends in June and you wish to be nominated for another committee.

 **Technical and Society Level Committees**
[ashrae.org/committee-nominations](https://www.ashrae.org/committee-nominations)

Honors & Awards Nominations

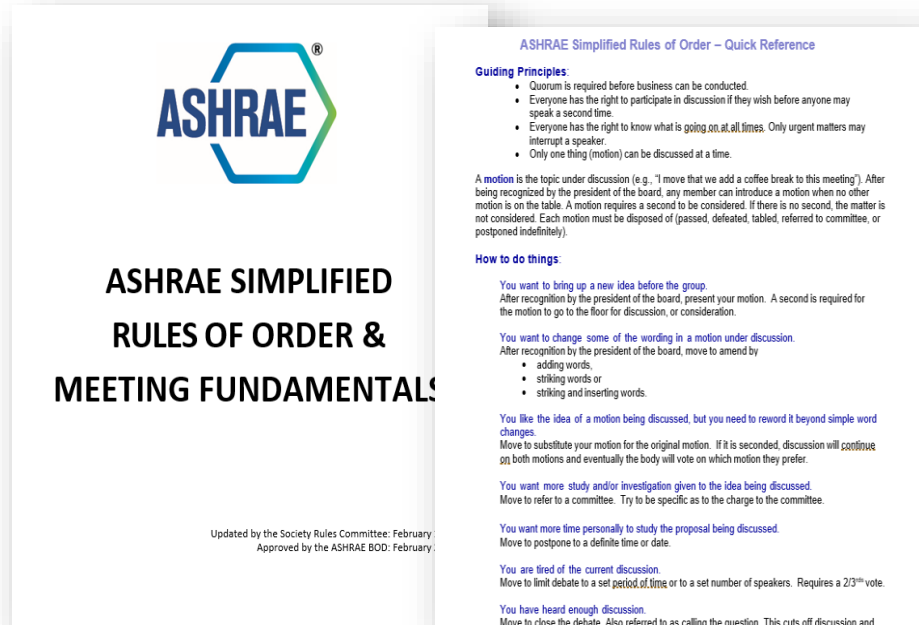
ASHRAE's awards fall into one of six categories:

- 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](https://www.ashrae.org/honorsandawards) 

ASHRAE Technical Committees (TCs) and Volunteer Opportunities at [ashrae.org/communities](https://www.ashrae.org/communities)

ASHRAE Simplified Rules of Order & Quick Reference



REMINDER! Councils and Committees should now be fully operational in the new ASHRAE Simplified Rules of Order meeting guidance.

Questions or comments regarding the new rules of order and quick reference?

Contact boardservices@ashrae.org

Download the rules and quick reference on the
ASHRAE website

ashrae.org/communities/committees/society-rules-committee

2022-23 Board of Directors

Executive Committee



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

Secretary



Jeff Littleton
Peachtree
Corners, Georgia

Vice Presidents



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



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



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



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 Park, 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

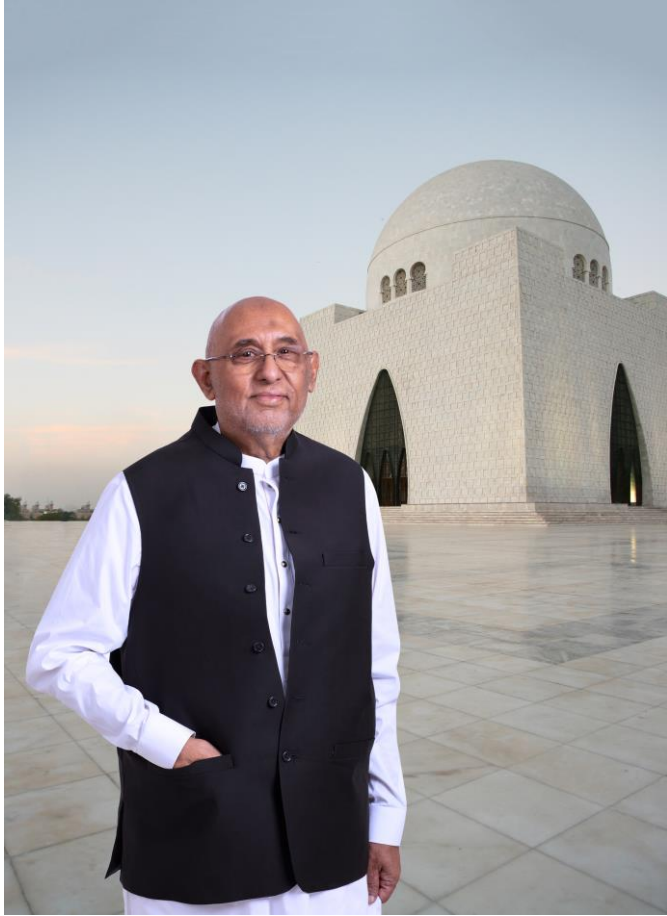


Luke Leung, P.E.
Clarendon Hills, Illinois



Adrienne Thomle
Reno, Nevada

President's Luncheon + Board Meetings



President's Luncheon

(Ticket Required)

Monday, 12:15 pm – 2:00 pm

Omni CNN Center, Grand Ballroom

Connect with attendees and hear updates from Farooq Mehboob, Fellow Life Member ASHRAE, 2022-23 ASHRAE President

Board of Directors Meetings

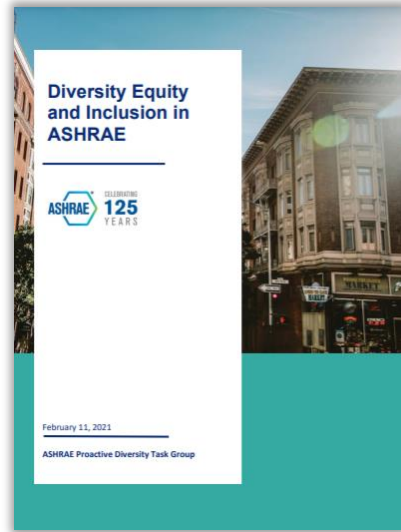
Attend in person in the Omni CNN Center, Grand Ballroom or stream live (link in ASHRAE 365).

Sunday, 1:30 pm – 5:30 pm

Wednesday, 2:00 pm – 6:00 pm

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

New Resources available at

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); Billy Austin; Dennis Knight; Farooq Mehboob (Consultant)





Through its Working Groups with over 100 volunteers from around the world the **Task Force For Building Decarbonization** (TFBD) is working to implement strategy, direction, and successful products and services for the industry relating to building decarbonization.

Products and Services Include:

- Seven Guides
- Creating content for a Knowledge Hub on [ashrae.org](https://www.ashrae.org)
- Establishing relevant training & education

Email questions or input to decarb@ashrae.org

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



Society Snapshot



TECHNOLOGY

- 21** STANDARDS & GUIDELINES PUBLISHED
- 41** ACTIVE PROJECTS
- 4** COMPLETED PROJECTS
- 3,600+** TOTAL TECHNICAL INQUIRIES

MEMBER SERVICES

2 SOCIETY **3** TOPICAL **15** CRCs

ASHRAE CONFERENCES

- 51,841** TOTAL SOCIETY MEMBERS
- 199** TOTAL CHAPTERS
- 304** DISTINGUISHED LECTURE PRESENTATIONS (Virtual and In-Person)
- 400** STUDENT BRANCHES

PUBLISHING AND EDUCATION

- 21** NEW PUBLICATIONS
- 11,558** COURSE ATTENDEES
- 221** COURSE INVENTORY
- 157** TOTAL EDUCATION COURSES PRESENTED
- 242** HOURS OF TRAINING IN eLEARNING PORTAL

ASHRAE SOCIETY SNAPSHOT

For the Period July, 1 2021 - June 30, 2022
ashrae.org/society-snapshot

DEVELOPMENT

- \$1,062,232** DOLLARS GIVEN BY ASHRAE REGIONS, CHAPTERS AND SECTIONS
- \$134,242** SUPPORT PROVIDED FOR EDUCATIONAL/ALI PROGRAMS
- \$14,118** GIVEN IN SUPPORT OF YEA PROGRAMS
- \$3.1M** TOTAL CASH RAISED*
- \$2.5M** RP CAMPAIGN TOTAL (Research, YEA, ALL Scholarships, Grants)
- \$1.9M** RAISED FOR RESEARCH ONLY WITHIN THE RP CAMPAIGN
- \$922,500** RAISED IN NEW ENDOWMENTS
- \$229,500** AWARDED THROUGH **64** SCHOLARSHIPS

*More than 5,000 contributions from Members, Organizations and other Associations

GOVERNMENT AFFAIRS

- 113** GOVERNMENT OUTREACH EVENTS
- 534** MEMBERS IN ATTENDANCE
- 511** ARTICLES & **2,370** READERS

MARKETING

- 2,683,357** VISITS TO ASHRAE.ORG
- 69,577** FOLLOWERS (Facebook)
- 117,058** FOLLOWERS (LinkedIn)
- 21,067** FOLLOWERS (Twitter)
- 6,461** FOLLOWERS (YouTube)
- 2,277** FOLLOWERS (Instagram)

FINANCIAL

ASHRAE SOURCE OF FUNDS

12 Months ended June 30, 2022

- Membership Dues: 30%
- Exposition Income: 20%
- Advertising Income: 13%
- Publications: 13%
- Contributions: 9%
- Meetings & Seminars: 9%
- Education: 5%
- Other: 2%

ASHRAE APPLICATION OF FUNDS

12 Months ended June 30, 2022

- Personnel: 43%
- Marketing, Training, Concessions and Hospitality: 19%
- Publications, Communications & Promotion: 10%
- Research: 7%
- Occupancy & Office Expense: 7%
- Utilities Services: 9%
- Other: 9%

\$26.530M REVENUE **\$25.869M** EXPENSE

Membership & Communities

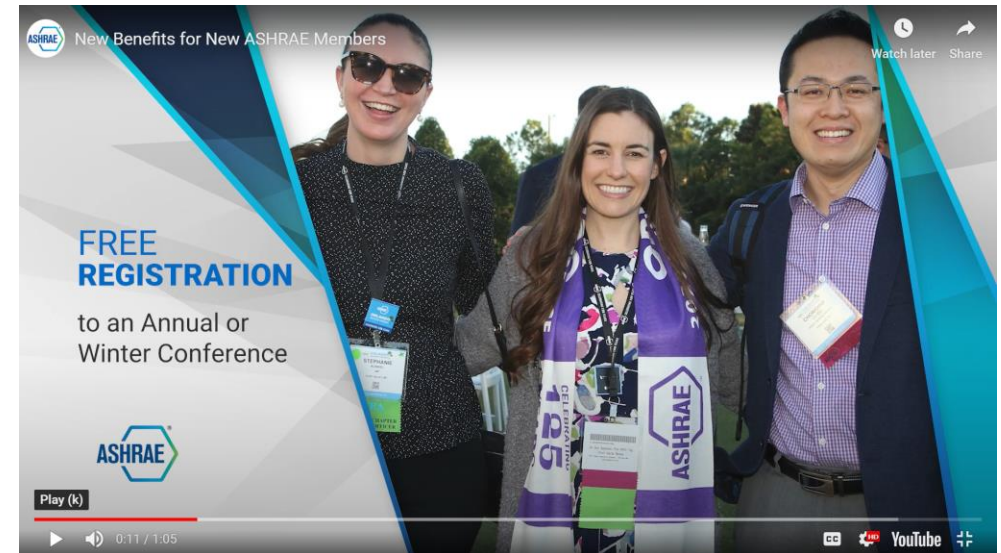


10% Discount for Five New Employees

Employers who submit 5 or more new membership applications in a single transaction receive a 10% discount on Society dues owed.

Free Winter or Annual Conference Registration

New full dues paying members receive one complimentary registration to a Winter or Annual Conference.



New! Quick video highlighting benefits on ASHRAEvideo YouTube channel and ashrae.org/benefits.

ashrae.org/membership

Supporting ASHRAE's Mission

Thank You to all the donors and volunteers for your support



\$3.1M Total Cash Raised*

Research Promotion Campaign Total \$2.5M
(Research, YEA, ALI, Scholarships, General)



\$1M Raised for Endowments



Within the RP Campaign
\$1.9M Raised for Research



\$235,500 Awarded via 65
Scholarships



\$1.1M Given by ASHRAE
Regions, Chapters and Sections

More than 5,000 contributions from Members, Corporations and other Organizations

Donate, Volunteer and Learn More at [ashrae.org/support](https://www.ashrae.org/support)

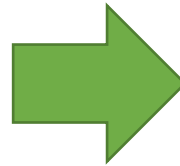


Government Affairs Update:

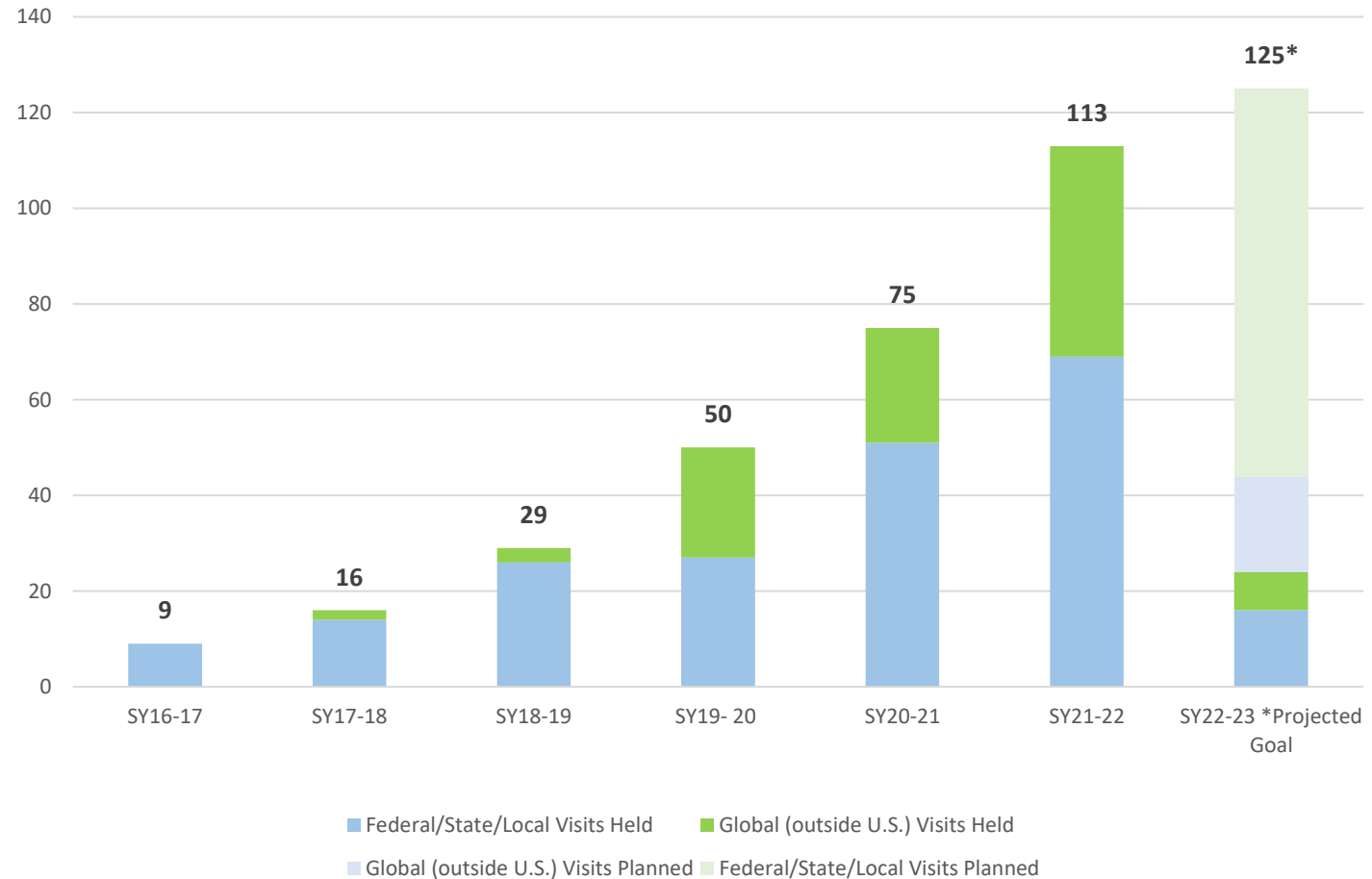
Subscribe online or by emailing GovAffairs@ashrae.org. 511 GAU articles were published in SY21-22; 249 published to date.

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 in SY21-22; 10 sent in SY22-23.



Government Outreach Events



Professional Development



eLearning

90+ online courses starting at **\$42** for members, and group rates are available.

elearningcatalog.ashrae.org



ASHRAE Learning Institute (ALI)

New schedule for 2023

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

ASHRAE Certifications

Building Design

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

Building Performance

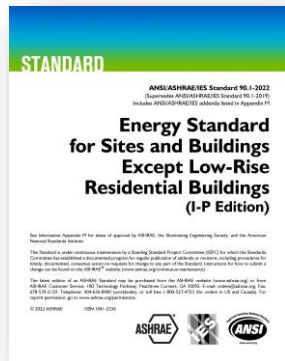
- Commissioning (BCxP)
- Energy Assessment (BEAP)

Building Operations

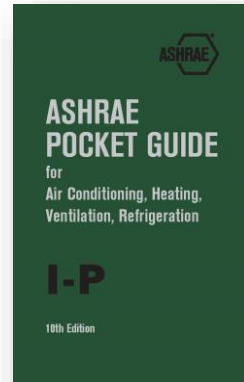
- Operations & Performance Maintenance (OPMP)

Sign Up for a Monthly Update at ashrae.org/professionaldevelopment

Recently published items available at [ashrae.org/bookstore](https://www.ashrae.org/bookstore)



ANSI/ASHRAE Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings



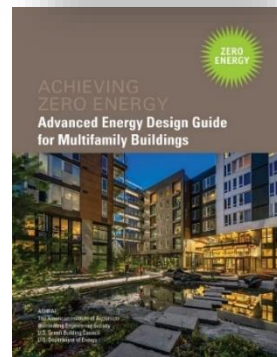
ASHRAE Pocket Guide for Air Conditioning, Heating, Ventilation, Refrigeration, 10th Ed.



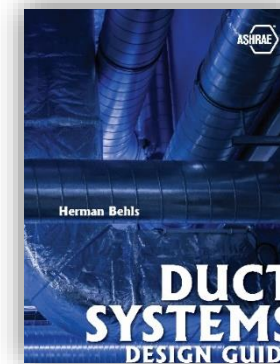
Lucy's Engineering Adventure



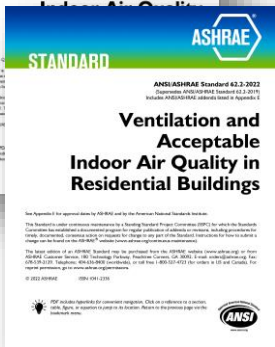
ANSI/ASHRAE Standard 62.1-2022, Ventilation and Acceptable Indoor Air Quality



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



Duct Systems Design Guide



ANSI/ASHRAE Standard 62.2-2022, Ventilation and Acceptable Indoor Air Quality in Residential Buildings

Standard 241P: White House Ventilation Standard for Pathogen Mitigation (Non-ANSI Standard) Target to Publish Fall 2023



Shaping Tomorrow's Built Environment Today

What Are You Looking For?



[JOIN](#) [VOLUNTEER](#) [MAKE A GIFT](#)

[BOOKSTORE](#)

[LOG IN](#)

TECHNICAL RESOURCES

PROFESSIONAL DEVELOPMENT

CONFERENCES

COMMUNITIES

MEMBERSHIP

[BOOKSTORE](#)

[ASHRAE LIBRARY](#)

[TECHNOLOGY PORTAL](#)

[TECHNICAL APPS](#)

[FREE RESOURCES](#)

[ASHRAE 365 APP](#)

[BUILDING EQ](#)

[AEDGS](#)

STANDARDS & GUIDELINES

Continuous Maintenance

Project Committees (PCs)

Toolkit

Public Review Drafts

Purchase Standards &

Guidelines

Standards Actions

Standards Addenda

Standards Errata

Standards Interpretations

Apply to a Project

Committee

90.1 PORTAL

[ASHRAE HANDBOOK](#)

[ASHRAE JOURNAL](#)

Featured Articles

ASHRAE Journal Podcast

HIGH PERFORMING BUILDINGS



SUPPLIER-PROVIDED LEARNING

[ASHRAE TRANSACTIONS](#)

[ASHRAE CONFERENCE PAPERS](#)

RESEARCH

ASHRAE RP

Purchase Research

Reports

Research Strategic Plan

TECHNICAL COMMITTEES

SCIENCE AND TECHNOLOGY FOR

THE BUILT ENVIRONMENT

TRANSLATED PUBLICATIONS

AUTHORING TOOLS

Citation and Abstract

Indexes

Terminology

PUBLICATION ERRATA &

UPDATES

TECHNICAL FAQs

RESILIENCE ACTIVITIES

REFRIGERATION

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

Marketing Central

Created for the busy volunteer



Templates for all your Communication Needs

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



1080px x 1080px

Use template

Download PowerPoint Presentations



Find logos, Brand Guide, Acronym Guide and more!



Flyers & Brochures | Videos | Toolkits | Tradeshow | Graphics

ashrae.org/marketingcentral

Upcoming Tradeshows



WHAT?	WHEN?	WHERE?
AHR Expo	February 6-8, 2023	Atlanta, GA
ACREX	March 14-16, 2023	Bombay
AHR Mexico	September 19-21, 2023	Mexico City
Greenbuild	September 26-29, 2023	Washington DC



- Educational Resources
- Discounts on Publications
- Free ASHRAE Giveaways

Come to the AHR Expo!

Your (paid) ASHRAE Winter Conference badge gets you into the show. Visit the **ASHRAE Booth B1638 & Bookstore C6043.**



Learn More and Find Resources for Tradeshows [ashrae.org/marketingcentral](https://www.ashrae.org/marketingcentral)

ASHRAE Conferences



MAR
2023

ASHRAE SCANVAC HVACC Cold Climate Conference

Mar 6-8, 2023 | Anchorage, AK

Mar 9-10, 2023 | Fairbanks, AK

MAY
2023

Developing Economies Conference 2023

May 11-12, 2023 | Mumbai, India

OCT
2023

2023 Decarbonization Conference for the Built Environment

October 25-27, 2023 | Washington, DC



2023 ASHRAE
Annual Conference



2023 ASHRAE Annual Conference

June 24-28, 2023 | Tampa, FL

Registration opens in March!

ashrae.org/conferences

Thank you!
Questions or Comments?



Status Update on MBO No. 9: Improve the Effectiveness of the Government Affairs Website

Sonya M. Pouncy, Communications Coordinator
Government Affairs Committee

February 03, 2023

2023 WINTER MEETING

UPDATE FROM THE COMMUNICATIONS COORDINATOR

MBO No. 7: Improve the Effectiveness of the Government Affairs Website (in cooperation with the PPSC and the MMSC)

Between Dec 2021 and Feb 2023, an 8-question survey was administered to ASHRAE GAC RVCs and representatives of the 231 ASHRAE chapters and sections to evaluate the usefulness of the GAC website and identify opportunities for improvement. There were 49 responses to the survey.

Survey responses were analyzed, summarized, and presented at previous meetings of the GAC.

In Dec 2022, a meeting was held with key staff-persons from ASHRAE's GAC and Marketing departments to review the top member recommendations from the survey. These were to:

1. Provide a link to the GAC website from the main ASHRAE landing page.
2. Have a static, generic email that points to the current RVC's personal email.
3. Better distinguish between inward and outward facing pages.
4. Provide more prominent links to relevant US state legislative bodies and representatives.
5. Provide links to non-US legislative governing bodies using ASHRAE Standards.
6. Provide an expanded site map with fewer pictures and more detailed descriptions.
7. Provide a dedicated area highlighting what chapter activities and best practices.
8. Provide a ticker-tape news feed of current affairs, upcoming votes, etc.



2023 WINTER MEETING

UPDATE FROM THE COMMUNICATIONS COORDINATOR



MBO No. 7: Improve the Effectiveness of the Government Affairs Website (in cooperation with the PPSC and the MMSC)

Based on the conversation with ASHRAE staff, our initial efforts will include pursuing the items below in green. Detailed implementation plans and schedules will be established in the coming months.

Improve general access, navigability and Chapter Chair familiarity with the GAC website.
(Recommendations 1, 3 & 6)

- Members to enhance the chapter chair training for SY 23-24 to include detailed content on:
 1. How to access inward- and outward-facing GAC webpages
 2. What information is housed on the various GAC webpages

Improve access to local and regional GAC leadership. **(Recommendation 2)**

- Members to explore the use of PAOE points to incentivize the regular update and use of ASHRAE email aliases for SY 23-24

Increase the information pertaining to activities and opportunities inside and outside the U.S.
(Recommendations 4 & 5)

- Staff to develop information for the SY 23-24 Advocacy Toolkit page on
 1. U.S. state legislatures
 2. Government bodies and legislatures outside the U.S.

Provide more information on Chapter initiatives and successes **(Recommendation 7)**

- Add a section with examples of chapter materials to the SY 23-24 Advocacy Toolkit page

Provide a ticker-tape news feed of current affairs, announcements, upcoming votes, etc. **(Recommendation 8)**

- This will not be pursued because it would require a staff person to monitor the feed to make sure none of the updates or information on it conflicts with ASHRAE policies.

From: [Chris Phelan](#)
To: [Yates, Alice](#)
Subject: RE: Your Tech Council Report to the GAC?
Date: Sunday, February 5, 2023 9:51:26 AM
Attachments: [image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)

Good afternoon.

The Technology Council has been extremely busy the last six months. One of the most talked about topics continues to be the Task Force Building Decarbonization (TFBD). There are a lot of updates here and there will be a big update at the Board meeting on Sunday. Highlights include:

- Website has been updated – a press release was issued Friday morning (2/3).
- The Building Performance Standards Technical Resource Guide will be available in Atlanta. Visit the booth to scan the QR code to download and get your wild about decarb plantable button (only there)
- The Retrofit Guide has completed the bid process, the Heat Pump Guide and the Decarbonizing Hospital Guides (partner with ASHE) is out for bid. The Grid Interactive Guide is under contract with the 60 percent draft due to the WG in Atlanta.
- We have Decarb 101 presentation that is complete that the TFBD will be training others to give after the conference.
- 240P has met several times. This group is chaired by staff as a non-voting member. We've revised the TPS along with established working groups. There is a seed document that WGs will pull from. We plan to meet face to face again March 15-16.
- The Certification Committee has started the initial market analysis for the development of a decarb certification program.

With regards to the Codes Interaction Subcommittee, the question asked on how GAC and CIS can help each other. In order to help understand CIS and help with some coordination between the two groups, Emily Toto, Manager of Codes, has attached several slides to our agenda. Since Emily has joined us, I will give the floor to her.

Thank you.

Regards,

Chris Phelan
Co-President & Principal

THERMCO
228 Scoles Avenue
Clifton, NJ 07012

Main: 973-777-6700
Direct: 973-272-1870
Cell: 973-454-2177
Fax: 973-777-1540
E-Mail: chrisphelan@thermcoreps.com
Web: www.thermcoreps.com

CIS – Code Interaction Subcommittee

- Subcommittee of Standards Committee that currently has 8 voting members
- Main goal is to promote uniform adoption of ASHRAE standards within the U.S. model codes
- CIS also unites interested parties from the code development community
- Can also consult with ASHRAE staff to recommend appointments to ICC standards or codes committees, and IAPMO technical committees



CIS Collaboration with GAC

Emily Toto, ASHRAE Staff, Manager of Codes


- Recent/current code changes relevant to ASHRAE
- Forecast of state-level code changes



ASHRAE STANDARDS / CODE INTERACTION training

AGENDA

- What is a Model Code?
- Example Adoption – ASHRAE 90.1 / IECC
- Typical Code Interaction Paths
- Code Interaction Example – IAPMO/ ASHRAE 188
- Extending ASHRAE's Reach



QUIZ
www.menti.com

Emily Toto – ASHRAE Manager of Codes
Rick Heiden – Standards Committee Chair

MODEL CODES & ASHRAE STANDARDS

Code - Standard practices, typically issued by national organizations. A code becomes a legal document, which can be enforced by a regulatory authority, when it is adopted by an authority such as a state legislature. [ASHRAE]

Model Code - A model building code is a building code that is developed and maintained by a standards organization independent of the jurisdiction responsible for enacting the building code. A local government can choose to adopt a model building code as its own. This saves local governments the expense and trouble of developing their own codes. Many smaller governments lack the expertise to do so. [Wikipedia]

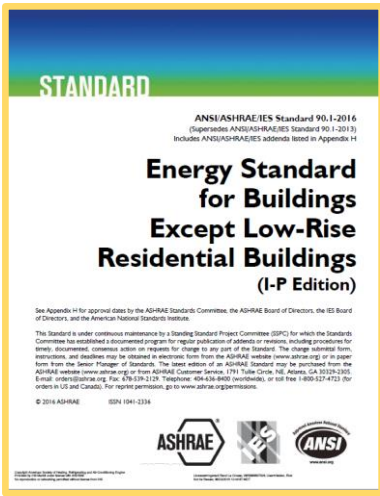
Code-Code Body	Building and Subject Area	Related ASHRAE Standards
IFC—ICC	Fire suppression, mechanical	15
IPC—ICC	Plumbing	188
IMC—ICC	Mechanical	15, 34, 62.1, 170, 180, 188
UMC—IAPMO	Mechanical	15, 34, 62.1, 62.2, 90.1, 111, 128, 170
UPC—IAPMO	Plumbing	90.1, 188
IECC—ICC	Energy	90.1, 90.4
NFPA	Fire suppression, mechanical	15, 34, 55, 62.1, 62.2, 90.1, 90.2

Reference Types

Direct Reference to Complete Standard

Direct Reference To A Portion Of A Standard

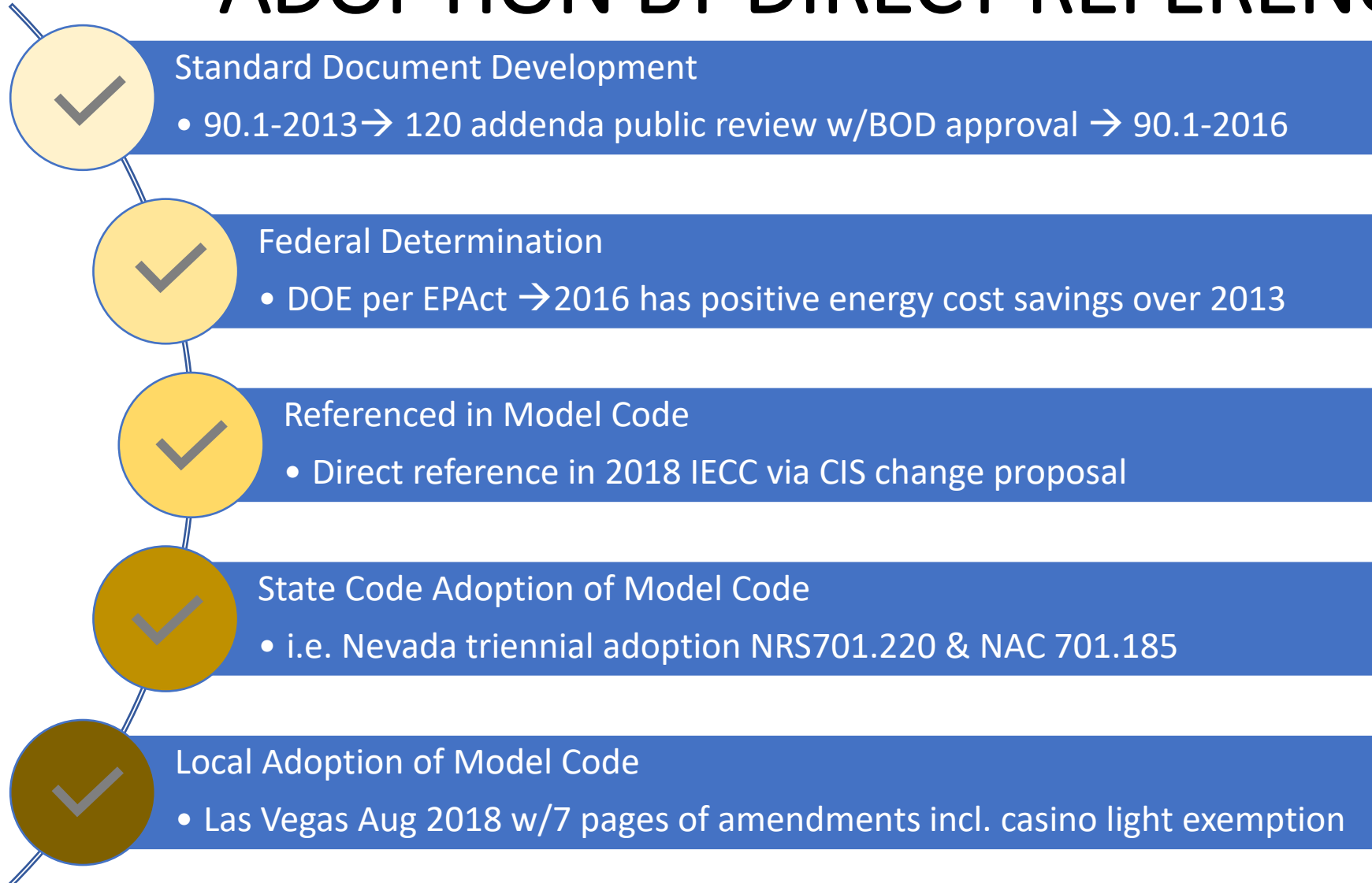
Reproduction Of A Portion Of A Standard



EXAMPLE ADOPTION
ASHRAE 90.1-2016



ADOPTION BY DIRECT REFERENCE



CODE INTERACTION PATHS

- Regular code cycle: Submissions approved by project committees and CIS, represented by ASHRAE staff
- Formal agreements: e.g., 189.1 committee develops requirements published as the IgCC
- Participation in code bodies
 - **Formal** – 90.1 representative to the IECC (Erbe); 188/CIS representative to IAPMO Potable Water TC (Graef)
 - **Individual** – ASHRAE members may provide testimony or serve on a code committee
- ASHRAE custom codes: Standard 100 was customized for adoption by Washington State in July 2021

CIS PROCESS - EXAMPLE

BACKGROUND



IAPMO formed a Legionella Task Group in 2018.

IAPMO began the 2024 UMC and UPC revision cycle in January 2021.

The TG submitted proposals to the 2024 UMC and UPC with legionella requirements adapted from Standard 188 and Guideline 12.

The proposals were approved by the UMC and UPC technical committees in May 2021.

CIS PROCESS – EXAMPLE cont'd

APPROACH

The Legionella TG proposals prompted action for two reasons:

1. Use of ASHRAE's published material without formal involvement;
2. Adaptation of Std 188's requirements without SSPC consensus.

SSPC 188 formed a working group to develop public comments against the TG proposals, requesting to substitute with references to Std 188/Gdl 12.

Staff submitted public comments in January 2022 for consideration at IAPMO's May 2022 Technical Committee meetings. CIS and SSPC will review and follow up as necessary.

NATIONAL VS. LOCAL CODE INTERACTION

National:

U.S. DOE recognizes 90.1 and the IECC as minimum federal requirements:

“Upon publication of this affirmative determination, each State is required to review the provisions of their commercial building code regarding energy efficiency, and, as necessary, update their codes to meet or exceed Standard 90.1-2019.”

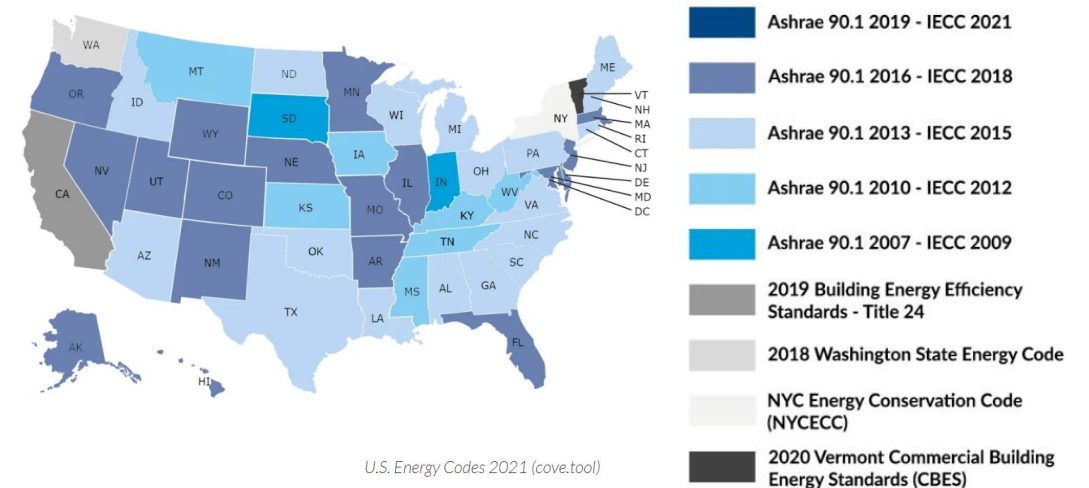
State

2018 Washington Energy Code

C403.1.3 Data centers. *Data center systems shall comply with Sections 6 and 8 of ASHRAE Standard 90.4, with the following changes:*

Local

Seattle Energy Code request to reproduce **90.1-2019 Table 6.8.1-16, Heat Pump and Heat Recovery Chiller Packages – Minimum Efficiency Requirements.**



How can we use our current resources, staff, and volunteers to do this more methodically?

RESOURCES

Preview ASHRAE Standards Referenced in Code

<https://www.ashrae.org/technical-resources/standards-and-guidelines/read-only-versions-of-ashrae-standards>

CIS web page

<https://www.ashrae.org/communities/committees/standards-committees/ashrae-code-interaction-subcommittee>

Emily Toto | Manager of Codes

Etoto@ashrae.org | 6785391194

Members council report to GAC

- One of Farooq's initiatives this year is obtaining "the voice of the customer."
 - A structured International Industry Summit took place in Istanbul in conjunction with the BOD meeting and RAL CRC.
 - HVAC&R Industry Roundtables, which are informal sessions in which professionals from across industry segments are asked for insight on industry trends and challenges – and on how ASHRAE can help address those trends and challenges – were held in conjunction with CRCs in Region XIII, XIV, and RAL. Another one will take place during the Winter Conference.

Responses from these events are being compiled so the BOD can discuss next best steps.

- As GAC is aware, the U.S. government is making funding available for "healthy schools." DRCs and RMCRs for Regions that have U.S. Chapters have identified some Chapters that are willing and able to work with their local school systems. A BOD-level task group, Chaired by Region XII DRC John Constantinide, is leading these efforts, with support from Government Affairs Staff. Members Council supports these efforts and will continue to help as requested.
- The BOD continues to move toward empowering Councils and Committees to make decisions and take responsibility for activities for which higher level approval should not be required. All three Councils (Members, Publishing & Education, and Technology) are tasked with identifying activities that should not require higher level approval for themselves and with encouraging the Councils' reporting Committees to do the same. Members Council encourages GAC to bring forward motions to streamline the Committee's operations.

Report of Publishing and Education Council representative to Government Affairs Committee at ASHRAE 2023 Winter Conference in Atlanta

Certification

Study guides now available for Building Energy Modeling Professional (BEMP), Certified HVAC Designer (CHD) and Building Commissioning Professional (BCxP) certifications.

Handbook

2023 HVAC Applications volume will be published this summer.

Training and Education

ASHRAE Learning Institute (ALI) is offering 20 courses during this conference. Nine of which have applicability to various ASHRAE certifications.

New courses (7):

- Introduction to Building Decarbonization short course. (First offered at Toronto meeting.)
- V in HVAC – What, Why, Where, How and How Much (Includes Basic Requirements of Standard 62.1-2019) short course.
- Fundamentals of Decarbonization Design Systems and Equipment Applications short course.
- Best Practices or Installing DDC Systems (new) short course.
- V in HVAC – Efficiently Improving IAQ using the Ventilation Rate Procedures (Using Advanced Options for Standard 62.1-2019)
- Smart HVAC Solutions for Climate Design short course. (First offered at Toronto meeting.)

Updated courses (1):

- Energy Management Best Practices (updated) short course.

Publications

Task Force on Building Decarbonization (TFBD) has released their first technical guide: Building Performance Standards – A Technical Resource Guide. This is a free download, see TFBD page on ashrae.org. Six more are planned with the next two expected in August and October this year. TFBD also has a two minute overview of Building Decarbonization by ASHRAE Presidential Member Kent Peterson (see TFBD page on ashrae.org)

New Standards and Books

- Standard 15-2022 Safety Standard for Refrigerant Systems
- Standard 34-2022 Designation and Safety Classification of Refrigerants
- Standard 62.1-2022 Ventilation and Acceptable Indoor Air Quality
- Standard 62.2-2022 Ventilation and Acceptable Indoor Air Quality in Residential Buildings
- Standard 90.1-2022 Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings
- Standard 154-2022 Ventilation for Commercial Cooking Operations
- HVAC Design Guide for Department of Energy Nuclear Facilities (second edition).
- ASHRAE GreenGuide – Design, Construction and Operation of Sustainable Buildings (sixth edition).
- Designing for Operational Excellence: Intentional Design for Effective Operation and Maintenance.
- Cold-Climate Buildings Design Guide (second edition).
- ASHRAE Design Guide for Combustion Turbine Inlet Cooling (second edition).

Free items (pdf download)

- ASHRAE Energy Design Guides.
- The Indoor Air Quality Guide: Best Practices for Design, Construction and Commissioning.

Report of Publishing and Education Council representative to Government Affairs Committee at ASHRAE 2023 Winter Conference in Atlanta

Global Training Center

Conducting in person and virtual training. Two day in person Updated HVAC Design Level 1 course is scheduled for the end of February. There are two virtual sessions planned but not scheduled at this time. Offerings are on the Center's web page.

Continuous Maintenance Documents

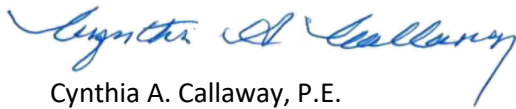
The following documents on continuous maintenance have addenda currently out for public review ([public review draft stds](#)). Note that while PubEd Council does not develop the technical content, we anticipate that these items will be published in the near future.

- Standard 100 – Energy Efficiency in Existing Buildings (addendum closing 6 March 2023)
- Standard 189.1 – Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda closing 19 February and 6 March 2023)
- Standard 90.2 – High-Performance Energy Design of Residential Buildings (closing 19 February 2023)
- Standard 62.2 – Ventilation and Acceptable Indoor Air Quality in Residential Buildings (addendum closing 13 March 2023)

Requests from GAC

None at this time.

Respectfully submitted,



Cynthia A. Callaway, P.E.

PEC Member



ASHRAE Building EQ update:

By Daryl Collerman, Liaison from the GAC to the Building EQ Business Development Committee

Building EQ Business Development Committee update to the GAC for the 2022/2023 ASHRAE SY

The Operational Carbon Metric Equation is now included and displayed on the BEQ portal, based on using the Lawrence Livermore theory to estimate the grid emissions and site sources however, the accuracy will be skewed until the actual grid emissions and site sources are known.

Currently the only Countries to have actual site source and grid emission numbers, are the US and Canada.

The Building EQ Business Development Committee now has a Budget to explore the site sources and grid emissions of 15 more Countries.

The Building EQ Business Development Committee would like assistance from the GAC and GA RVC's regarding site sources and grid emissions in their respective Countries, especially China and India. Also, the committee needs to identify if China and Hong Kong are separate Countries? They are currently listed as separate countries on the BEQ Portal.

As far as Embodied Carbon, that is still in the hands of the TFBD, once they determine how these numbers will be calculated, the next step will be to include and display, Embodied Carbon in the Building EQ portal.

That concludes my report from the Building EQ Business Development Committee.

Building EQ Government Outreach

I'd also like to take this opportunity to impress upon everyone how important it is to promote Building EQ to your GA Chapter Chairs. Building EQ is part of the agenda for Government Outreach and there is a Fact Sheet in our Advocacy Tool-Box.

FYI; the Building EQ Business Development targets are, Municipalities and Universities.

I am the liaison from the GAC to the Building EQ Business Development Committee, so please don't hesitate to reach out to me if you have any questions, or need any assistance, kick starting a BEQ campaign in your region, with your GA Chairs.

GAC outreach Advocacy Tool-Box Fact Sheet



Be an Energy Genius ↶

ASHRAE's Building Energy Quotient program takes your building to the next step beyond benchmarking. The program provides a quick energy analysis, assists in preparation of an ASHRAE Level 1 Energy Audit, and provides actionable recommendations for improving a building's energy performance including low-cost, no-cost energy efficiency measures and an Indoor Environmental Quality survey with recorded measurements.

Two different evaluations can be used independently to compare a candidate building to other similar buildings in the same climate zone or together for an assessment of a building's design potential compared to actual operation:

In Operation compares actual building energy use

- Based on actual metered energy use of a building
- Assists in preparation of on-site ASHRAE Level 1 Energy Audit
- Measurements confirm that indoor environmental quality is not compromised for energy savings

As Designed compares energy use based on the building's physical characteristics and systems

- Simulated standardized energy use model
- Independent of operational and occupancy variables

Benefits:

- ✓ Includes metered energy data exchange from ENERGY STAR® Portfolio Manager
- ✓ Median EUI calculation aligned with ENERGY STAR Portfolio Manager
- ✓ Details actionable recommendations to improve a building's performance
- ✓ Streamlines and improves the audit process
- ✓ Utilizes standard and consistent process for tracking improvement over time
- ✓ Creates an opportunity to reassess building performance following implementation of energy efficiency improvements to assess effectiveness (improved performance/rating)
- ✓ Provides a Building EQ performance score (efficiency) to benchmark building
- ✓ Offers a building label to recognize high performance buildings

For additional information, please visit [ashrae.org/BuildingEQ](https://www.ashrae.org/BuildingEQ)



Report to GAC from Environmental Health Committee

EHC met on July, August, September 2022 and January 2023.

Winter Conference (not yet met as of Feb 3)

Meets on Monday, February 6, 2023, 8:00 AM – 12:00 AM EST in Sycamore (M2-North)

Link: <https://ashrae.webex.com/ashrae/j.php?MTID=m56913e5b791eb5b7053b13d5fc0d47ed>

EHC actions since the 2022 Annual Meeting

- IEQ Column in the Journal
- ETF Transition Subcommittee established to finalize and distribute ETF resources.
- Position Documents in progress:
 - Transferring Position Documents to the new policy-friendly format
 - Indoor Air Quality – considering GAC’s request to providing further reference to natural ventilation systems in emerging economies
 - Environment Tobacco Smoke – considering GAC’s request to address ENDS and cannabis.
- New Emerging Issue Briefs:
 - Dynamic Thermal Environment, released June 2022
 - Indoor Reactive Oxygen and Nitrogen Species, in progress

Report from GAC to EHC

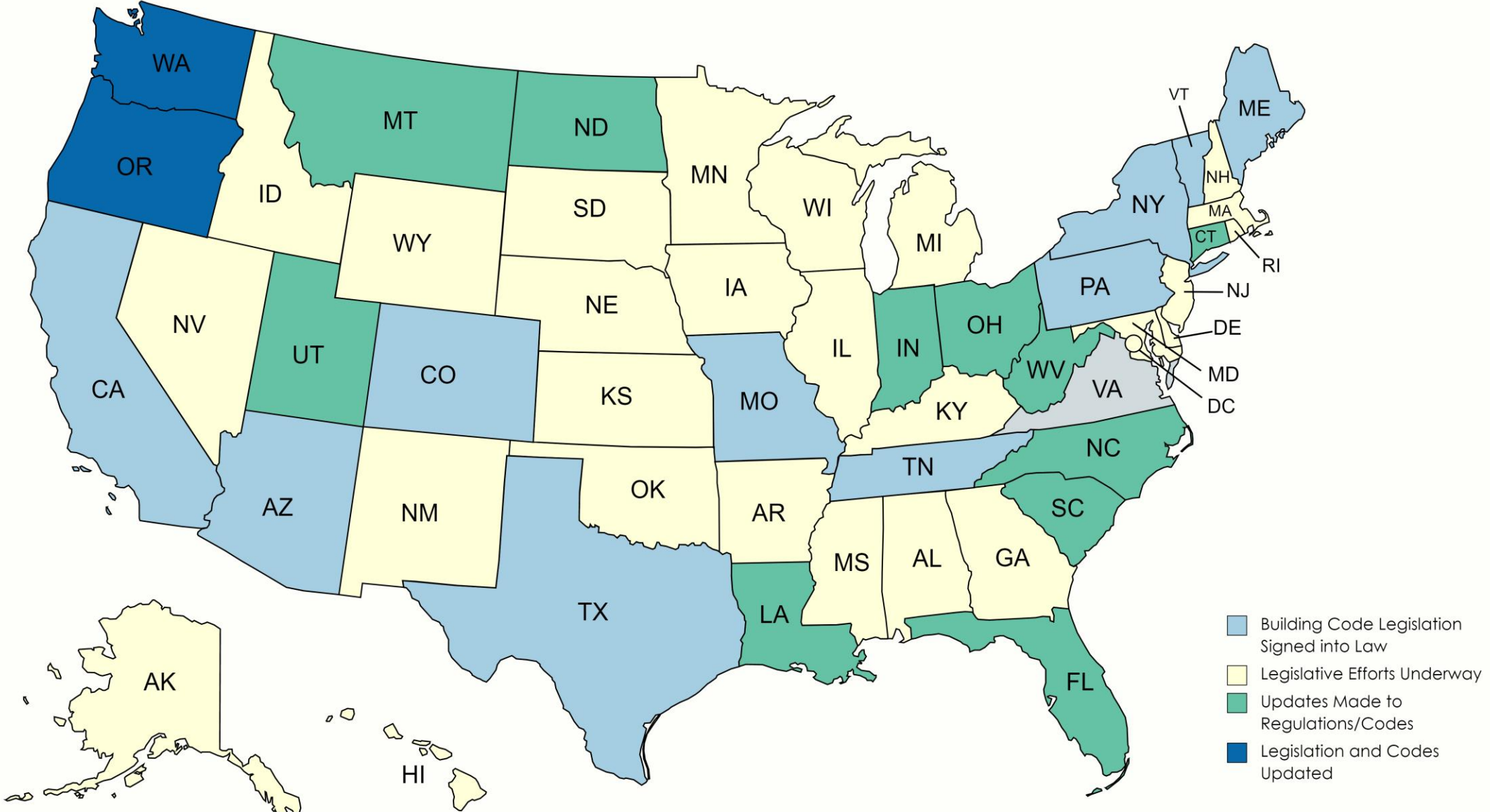
Request for any information or questions to be conveyed to EHC?

- Meghan McNulty, liaison to EHC from GAC

State Targets for Legislation in 2023

- Alabama
- Alaska
- Arkansas
- Delaware
- Georgia
- Hawaii
- Idaho
- Illinois
- Iowa
- Kansas
- Kentucky
- Maryland
- Massachusetts
- Michigan
- Minnesota
- Mississippi
- Nebraska
- Nevada
- New Hampshire
- New Jersey
- New Mexico
- Oklahoma
- Rhode Island
- South Dakota
- Virginia
- Wisconsin
- Wyoming

Low GWP Building Code Map



State Low GWP Building Code Legislation Update

- States have draft requests submitted
 - AL, AR, KY, MN, MT, NV, RI
- Legislation formally introduced
 - AK: HB 51 Representative Stanley Wright (R)
 - HI: HB 345 Representative Nicole Lowen (D)
 - KS: HB 2173 Representative Sean Tarwater (R)
 - MA: HD 1482 Representative James Murphy (D)
 - MS: SB 2045 Senator John Polk (R)
 - NE: LB 329 Senator Jane Raybould (R)
 - NH: SB 53 Senator Tim Lang (R)
 - OK: SB 168 Senator Bill Coleman (R)
 - WY: SF 140 Senator Stephen Pappas (R)
- States with February filing deadlines
 - AR, IL, KY, MD, MT, NM, SD

UN ENVIRONMENT - ASHRAE

GLOBAL PARTNERSHIP



MOUs date to 2007

Development of tools and products to support refrigerant transition and energy efficient cooling

Cooperation focused through the OzonAction Division within UNEP



Mission

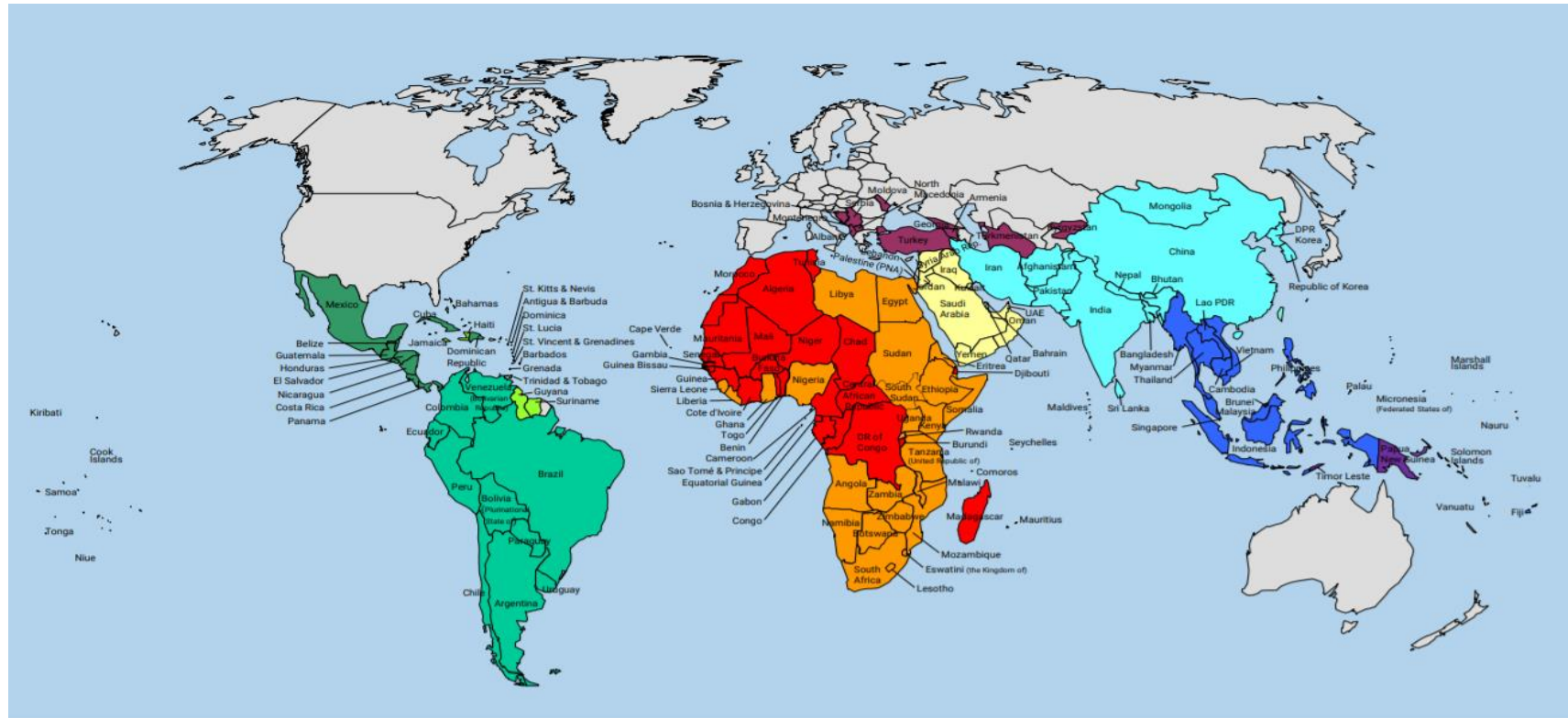
Implementing agency for the Montreal Protocol.

Enable developing countries to meet compliance obligations.

Strengthen the capacity of governments – thru National Ozone Units – and industry to make informed decisions about alternative technologies.



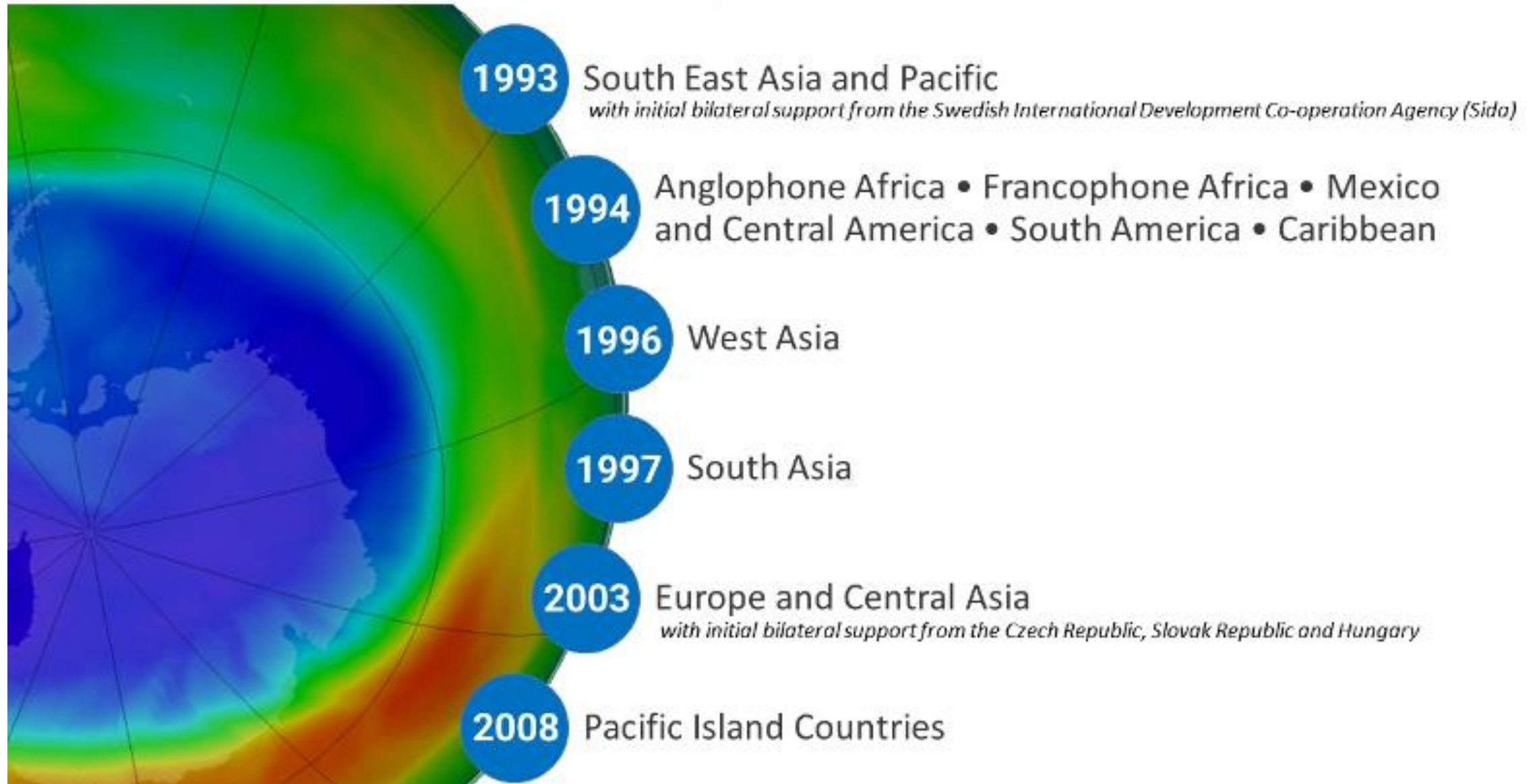
Members of the Regional Networks of Ozone Officers



- | | | | | |
|-----------------|-----------------------|--------------------|------------|--------------------------|
| South America | Caribbean | Anglophone Africa | West Asia | South East Asia |
| Central America | Europe & Central Asia | Francophone Africa | South Asia | Pacific Island Countries |

Note: This map is for illustrative purposes only and is not an official United Nations cartographic document. The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

Establishment of the Regional Networks of Ozone Officers



Montreal Protocol: Human-centered treaty



“to take appropriate measures to protect **human health** and the **environment** against adverse effects resulting or likely to result from human activities which modify or are likely to modify the ozone layer...”

MONTREAL PROTOCOL

CONTRIBUTION TO THE



HUMAN HEALTH IS PROTECTED		ECOSYSTEMS ARE PROTECTED		CLIMATE IS PROTECTED
3 GOOD HEALTH AND WELL-BEING	14 LIFE BELOW WATER	15 LIFE ON LAND	13 CLIMATE ACTION	

ECONOMIC COMPETITIVENESS IS MAINTAINED OR ENHANCED				SUSTAINABLE TECHNOLOGIES AND PRACTICES ARE ADOPTED	FOOD SECURITY IS IMPROVED AND FOOD LOSS REDUCED	MORE WOMEN ENTER WORKFORCE	MONTREAL PROTOCOL OBJECTIVES ARE ACHIEVED THROUGH PARTNERSHIPS
1 NO POVERTY	8 DECENT WORK AND ECONOMIC GROWTH	9 INDUSTRY, INNOVATION AND INFRASTRUCTURE	11 SUSTAINABLE CITIES AND COMMUNITIES	12 RESPONSIBLE CONSUMPTION AND PRODUCTION	2 ZERO HUNGER	5 GENDER EQUALITY	17 PARTNERSHIPS FOR THE GOALS



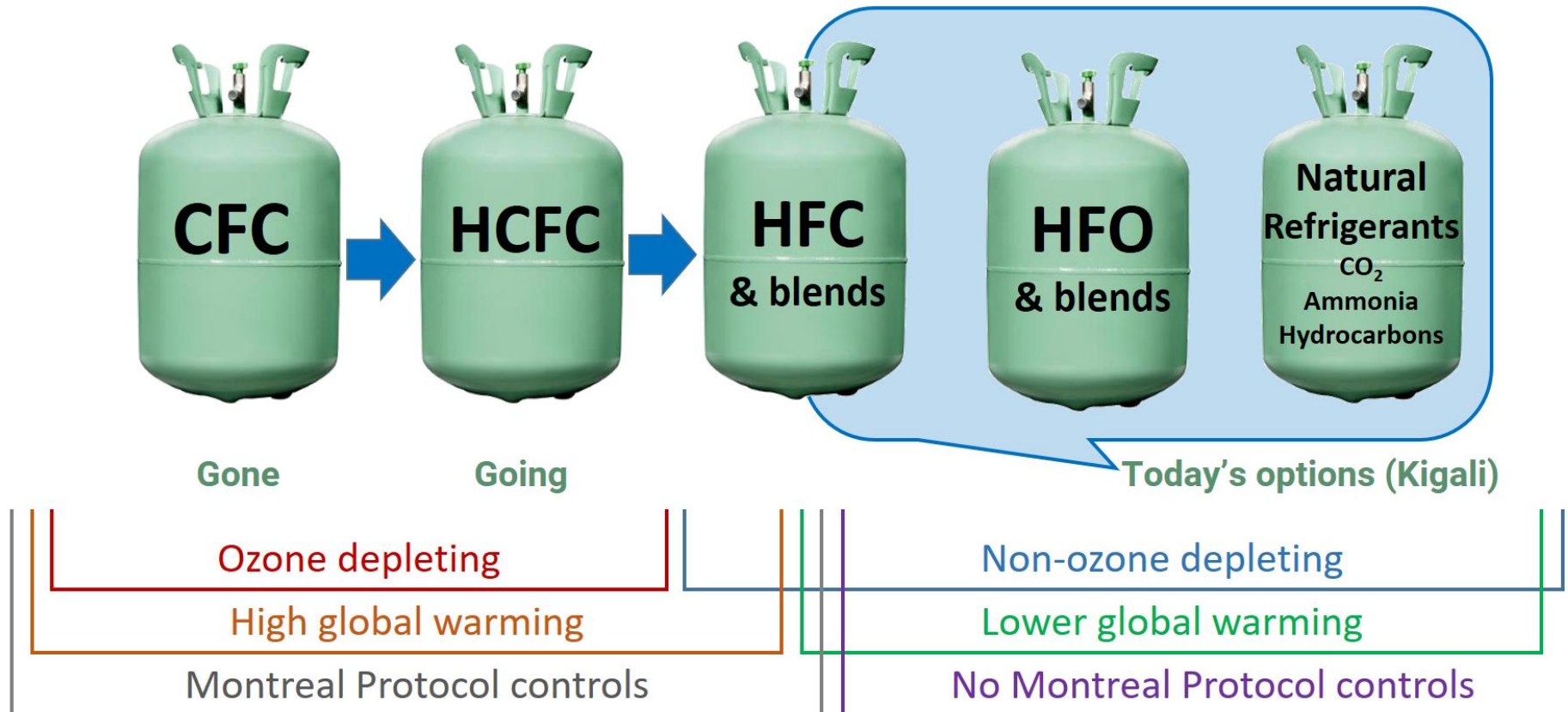
The Kigali Amendment to the Montreal Protocol: HFC Phase-down





Refrigeration and
Air-Conditioning
Sector is the main
contributor to
Montreal Protocol
targets

Refrigerant (r)evolution



Why ASHRAE Partnership Is Important

- Technical leadership
 - Research into new refrigerant use
 - Guidance
- Training resources
- Government interaction
- Chapters in 30+ countries

2021-23 Work Plan

Deploy developed tools to stakeholders in developing countries.



ASHRAE-UNEP Portal

www.ashrae.org/ashrae-UN Environment-portal

Launched September 2019

Users can access free content such as:

- eLearning courses
- University course
- Lower GWP Awards
- The current ASHRAE and UN Environment OzonAction Workplan
- News and Events
- Other ASHRAE and UN Environment resources

The screenshot shows the ASHRAE-UNEP Portal website. The header includes the ASHRAE logo, "CELEBRATING 125 YEARS", a search bar, and navigation links for "JOIN", "VOLUNTEER", "MAKE A GIFT", "BOOKSTORE", and "LOG IN". The main navigation menu includes "ABOUT", "TECHNICAL RESOURCES", "PROFESSIONAL DEVELOPMENT", "CONFERENCES", "COMMUNITIES", and "MEMBERSHIP". The breadcrumb trail shows "Home > Professional Development > ASHRAE UNEP Portal". The main content area features a large image of a city skyline with the text "ASHRAE UNEP PORTAL" overlaid. Below the image are social media sharing icons and a navigation bar with links for "eLearning", "Workplan", "Resources", "University Course", "News & Events", and "Lower GWP Award". The "News & Events" link is highlighted. The main article title is "ASHRAE, UN Environment Programme Announce Lower GWP Award Selections". The "Media Contact" information is: Sherri Simmons, 404-446-1660, ssimmons@duffey.com. The article text begins with "ATLANTA (Nov. 6, 2019) – ASHRAE and UN Environment Programme (UNEP) have announced the project selections for the 2019 ASHRAE-UNEP OzonAction Lower-GWP Refrigeration and Air-Conditioning Innovation Awards. The annual international award program promotes innovative design, research and practice by recognizing people who have developed or implemented innovative technological concepts applied in developing countries to promote lower global warming potential (GWP) refrigerants through refrigeration and air-conditioning applications."



FACTSHEET 1

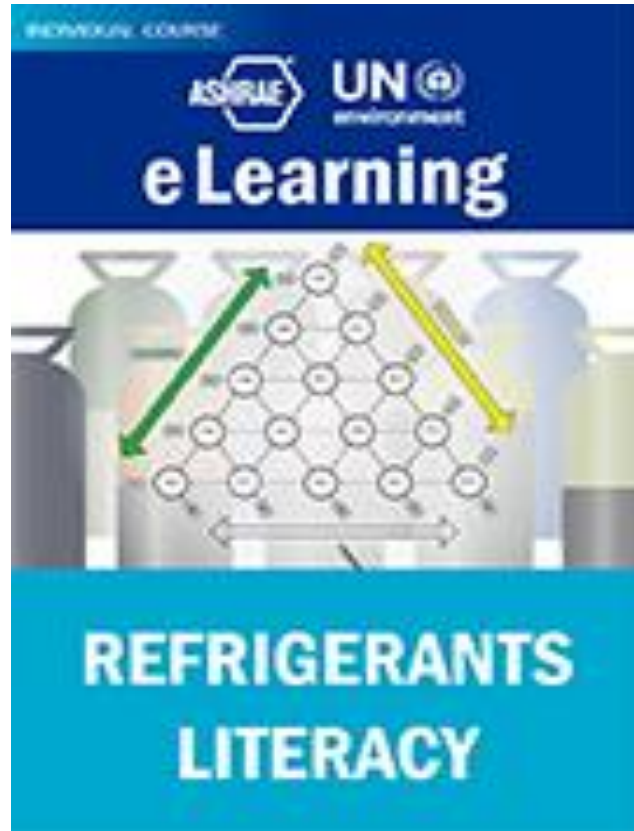
Update on New Refrigerants Designations and Safety Classifications



November 2022

Introduces new refrigerants that have been awarded an R designation and have been introduced into the international market

Refrigerants Literacy

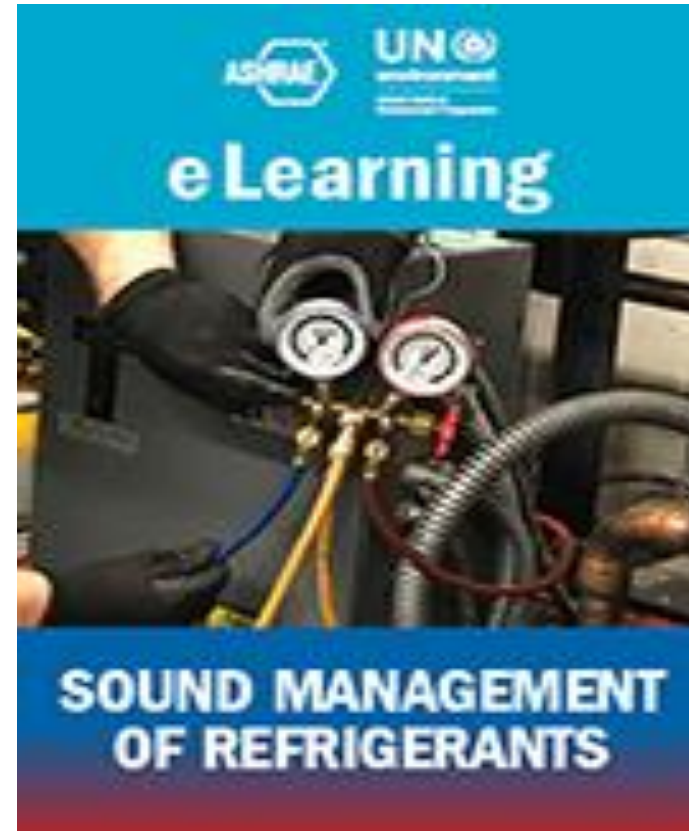


The course is offered in:

- ✓ English (released April 2017)
- ✓ Spanish (released February 2019)
- ✓ French (released November 2019)

Other languages under consideration

Sound Management of Refrigerants



The course is offered in:

- ✓ English (released April 2017)

Psychrometric Charts

Module 1:
Demand for Air Conditioning and Refrigeration



WITH FUNDING SUPPORT FROM



IN COOPERATION WITH



Human Metabolism

Module 1:
Demand for Air Conditioning and Refrigeration

Heat Gains and Losses

Module 1:
Demand for Air Conditioning and Refrigeration

Temperature and Workplace Productivity

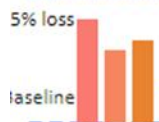
Module 1:
Demand for Air Conditioning and Refrigeration



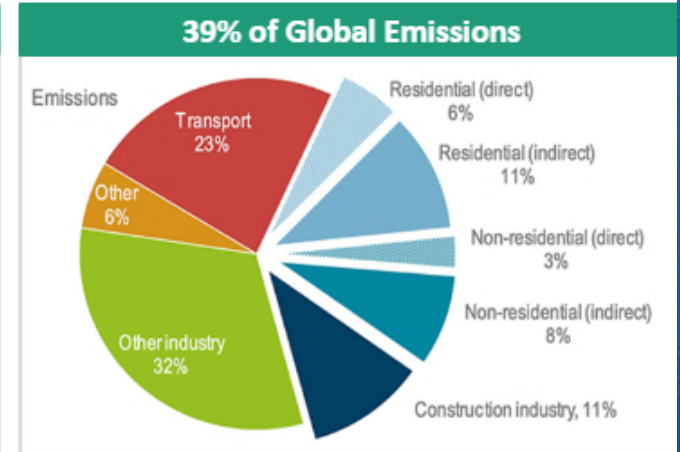
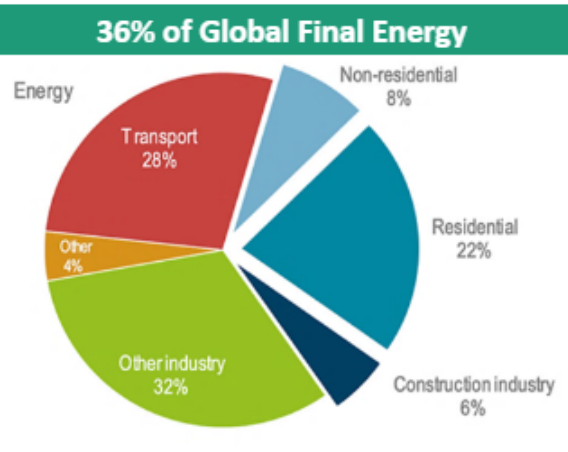
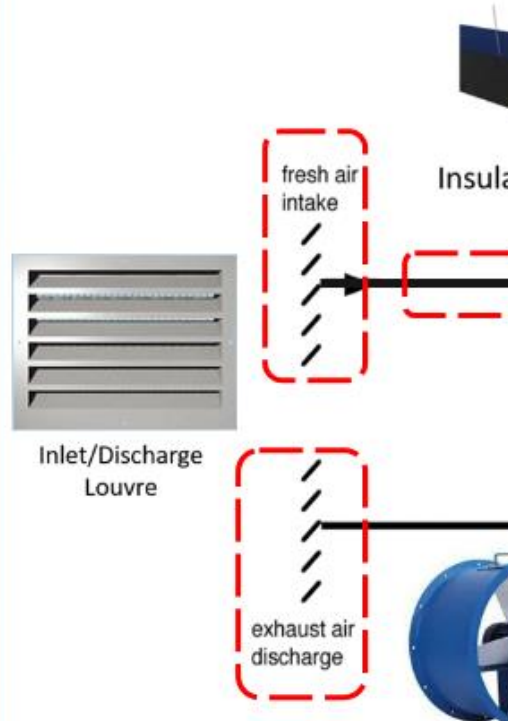
Basic System

Building Energy Use and Emissions

Module 3:
Drivers and Indicators for Efficient Systems

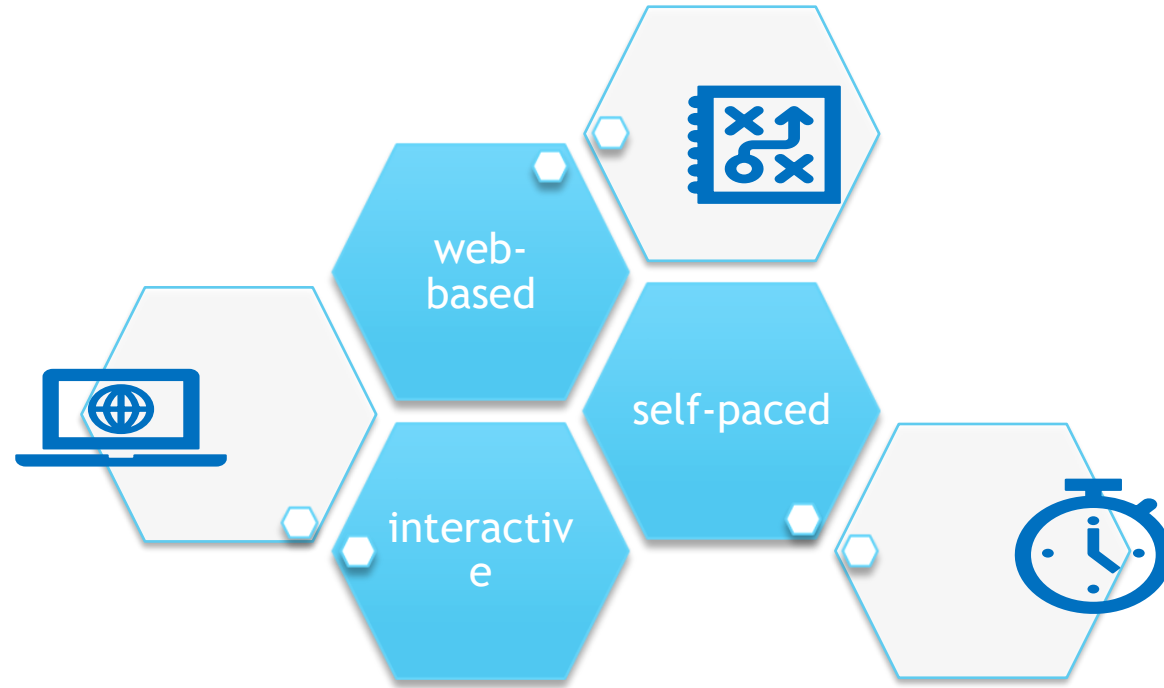


Advertising
Post
Process
Apparel



The buildings and construction sectors combined are responsible for 36% of global final energy consumption and nearly 40% of total direct and indirect CO₂ emissions.

ASHRAE - UN Environment eLearning Courses



Moving to
Face-to-Face

Experience from Uganda



Refrigerant Management for Future Engineers Course

Teaches future engineers how to manage refrigerants soundly as well as the technical and policy aspects associated with the refrigeration and air-conditioning industry.

Course Outline



MODULE 1 - 4 WEEKS

REFRIGERATION & AIR CONDITIONING INDUSTRY, EVOLUTION OF REFRIGERANTS & ENVIRONMENTAL IMPACTS



MODULE 2 - 3.5 WEEKS

ALTERNATIVE REFRIGERANTS FOR DIFFERENT SECTORS & LUBRICANTS



MODULE 3 - 3 WEEKS

CONTAINMENT OF REFRIGERANTS, SERVICE & MAINTENANCE OF AIR CONDITIONING & REFRIGERATION SYSTEMS



MODULE 4 - 2 WEEKS

SAFE USE & HANDLING OF REFRIGERANTS



MODULE 5 - 2 WEEKS

RELATED STANDARDS AND CODES OF SYSTEMS AND SUBSTANCES

ASHRAE - UN ENVIRONMENT

LOWER GWP REFRIGERATION AND AIR-CONDITIONING INNOVATION AWARD



The annual awards are a joint venture between ASHRAE and UN Environment



The awards promote innovative design, research and practice by recognizing people who have developed or implemented innovative technological concepts



Entries can be made in two categories, residential applications, and commercial/ industrial applications

2023 Lower GWP Innovation Award Judging Panel



James S. Curlin
UNEP - Co-Chair



James Wolf, USA



Nesreen Ghaddar,
Lebanon



Roberto de Aguiar Peixoto
Brazil



Ginger Scoggins
ASHRAE - Co-Chair



Cesar Luis dL Lim,
Philippines



Stephen Gill, UK

2022 WRD Campaign

COOLING KEEPS FOOD FRESH



Association Campaign Supporters



Engaged Chefs Link Cooling to Nutritional Diets for our Health and the Planet



Intergovernmental Agency Campaign Support



Next

Sustainable Operations and Maintenance of RAC Plants

Best practices related to operation and management of RAC systems/plants with checklists and assessments:

1. Safe storage and proper handling of refrigerants
2. Periodic leak checking and proper documentation
3. Checklist for maintaining equipment to extend life and maintain energy efficiency
4. Fault detection and preventative maintenance
5. Proper commissioning and recommissioning practices to optimize system performance
6. Minimum required servicing equipment and tools
7. Proper disposal of equipment and reclamation of refrigerant at end of product life.
8. Competencies of personnel/companies responsible of operating and/or maintaining the refrigeration and air-conditioning plants

Moving Forward

UNEP and ASHRAE Government Affairs

- 1. Utilize the tools in the portal to further understanding of international regulations and policies.
- 2. In developing countries, serve as technical resource to national governments and promote use of ASHRAE standards.
- 3. Translate ASHRAE research in the field of refrigerant and energy efficiency technology into the language of policy makers, producing tools that can be used by UNEP and its National Ozone Units.

THANK YOU

CONTACT INFORMATION

infoashraeunep@ashrae.org



ASHRAE

www.ashrae.org

mowen@ashrae.org



UN Environment OzonAction

www.unenvironment.org/ozonaction

steve.comstock@un.org





REPORT TO THE BOARD OF DIRECTORS from the Efficient and Healthy Schools Program Partnership with DOE

January 26, 2023

John Constantinide- Chair
Bruce Lindsay

Sonya Pouncy
Chris Ruch

Raj Setty
Jonathan Smith

Recommendations for Board Approval

The Leadership Team of the Efficient and Healthy Schools Program Partnership with DOE (the “ASHRAE-DOE Schools Leadership Team”) has no motions to come before the Board.

Information Items

Since the Chair of the Efficient and Healthy Schools Program Partnership with DOE was appointed by President Mehboob on November 1, 2022, it has met five times and has accomplished many of the responsibilities outlined in the appointment letter:

1. The Chair identified five additional members to assist with managing the project; this group is known as the “ASHRAE-DOE Schools Leadership Team”.
2. Sent invitation letters to 26 chapters to join the pilot project; the chapters were selected based on recommendations from DRCs, and members of the ASHRAE-DOE Schools Leadership Team.
3. Structured a framework for Chapters to use to implement the pilot program in their communities. This framework will continue to be developed further.
4. Finalized the program workplan with DOE and LBNL (see Attachment)
5. Secured commitments from 12 chapters to participate in this pilot partnership program. ...
 - Idaho Chapter
 - Twin Tiers Chapter
 - Fort Worth Chapter
 - Northwest Arkansas
 - Baltimore Chapter
 - New York Chapter
 - Central New York Chapter

- Rochester
 - Southern California Chapter
 - Detroit Chapter
 - Miami Chapter
 - Gold Coast Chapter
6. Held an informational webinar with the selected chapters on what opportunities this partnership presents, specifically the DE-FOA-0002756: RENEW AMERICA'S SCHOOLS (\$500 million total through the Bipartisan Infrastructure Law), and the American Rescue Plan Elementary and Secondary School Emergency Relief (ESSER) Funds.
7. Challenges and Opportunities: In moving this program forward, the leadership team received feedback that it would be useful to get more information on federal funding opportunities. This issue was discussed with the GAC staff liaison, who noted that such information is provided through multiple avenues (listed below), but that an improved dissemination strategy may be needed. This opportunity will be explored further by the ASHRAE-DOE Schools Leadership Team and the GAC.
- Bi-weekly Government Affairs Updates
 - Fact Sheets on funding opportunities assembled by staff and disseminated to the GAC
 - Emails sent to the GAC

Schools Partnership Proposal - ASHRAE, DOE/LBNL

Overarching Program Goals:

- To help schools, including underserved schools (*see below*) access expertise, tools, resources and funding to improve their facilities. Improvements will result in energy cost savings, greenhouse gas (GHG) reductions and improved indoor air and environmental quality (IAQ/IEQ) to support a healthier learning environment.

Outreach and assistance to underserved schools

Each ASHRAE Chapter involved in the Pilot Program is requested to conduct outreach and provide technical assistance to schools, the majority of which as feasible meet two or more of these indicators:

- a) Part of a Disadvantaged Community (DAC)
- b) Title 1 (school-wide program)
- c) 70% or more of students eligible for free and reduced-price lunch
- d) Rural location (coded as 41, 42 or 43)

These schools can be identified by using the DOE's Energy Justice Mapping Tool for Schools - <https://energyjustice-schools.egs.anl.gov/>. Note that additional information (e.g. rural code, Title I) on a given school is provided in the map once that individual school is selected. We request that per participating ASHRAE chapter involved in the Pilot Program, on average each chapter work with at least two rural schools; individual pilot chapter's outreach to rural schools will depend upon the geography of the chapter.

Benefits to ASHRAE Chapters/Members include but are not limited to:

- Elevates ASHRAE's efforts as an organization that assists underserved communities.
- Affords opportunities for ASHRAE Chapters and Members to be recognized for their contributions (e.g., chapter awards, and/or Presidential Award of Excellence (PAOE) Points in certain categories, local community recognition).
- Increases ASHRAE membership awareness and use of available resources.
- Provides opportunities for ASHRAE Chapters, as well as ASHRAE Student Branches, to engage with their local K-12 schools and work together.
- Provides learning and mentoring opportunities for ASHRAE Student Members.
- Educates ASHRAE Members about new funding opportunities, which may be of particular interest to those serving commercial and institutional as well as education sectors.
- ASHRAE design professionals may be part of the design implementation of the various projects after they are generated from the various grantees. By helping structure the design, the transition to actual construction documents will be easier.
- Provides students and teachers in these schools with more exposure to the STEM environment.

US Department of Energy (DOE)/ Lawrence Berkeley National Laboratory (LBNL) value proposition:

- Connects underserved schools with local stakeholders who can serve as a resource, and who can conduct key activities necessary to enable retrofit projects.
- Provides support especially to under-resourced schools and school districts.
- Elevates awareness of the campaign and expands outreach to underserved areas.
- Provides hands-on learning experiences for ASHRAE Student Branches, and other students studying building sciences as a way to promote workforce training.
- Promotes STEM education and workforce development by offering students exposure to the roles of energy managers and facilities staff at local and state education agencies as a potential career path.

Pilot Program: ASHRAE has approximately 120 chapters in the U.S. Rather than rolling this program out to all of these chapters initially, we recommend piloting this program with 10-20 pre-qualified chapters expressing interest and having capability and availability. The lessons learned from the Pilot Program would then be used to improve the partnership, and the program could be rolled out to additional chapters. The broadening of the program could coincide with successive iterations of DOE released funding opportunities for schools.

The following three activities outline the main avenues of proposed engagement between DOE/LBNL and ASHRAE:

Activity 1 relates to general outreach efforts to educate and mobilize ASHRAE Chapters.

Activity 2 involves direct or targeted outreach to underserved schools.

Activity 3 involves providing assistance to schools/districts. There are two ways schools/districts may ask for assistance from ASHRAE:

- a. Via DOE/LBNL outreach efforts, which may then be directed to ASHRAE staff for connection to appropriate Chapter members for support.
- b. ASHRAE Chapter/member direct outreach efforts made with schools and school districts.

Activity 1 - General Outreach and Promotion to ASHRAE Chapters

Goal - To educate ASHRAE Chapters and Members about opportunities to assist schools in energy efficiency (EE) and IAQ retrofits, including funding and financing approaches, and encourage them to engage their local underserved schools, partnering with student chapters when possible.

Activity	DOE/LBNL	ASHRAE
Chapter Education and Outreach	Share announcements, webinars, funding opportunities and resources with ASHRAE and other stakeholders.	Outreach campaign to ASHRAE Members to help mobilize, educate, and promote involvement in underserved schools.

Activity	DOE/LBNL	ASHRAE
	<p>Develop targeted value propositions and messaging specifically to reach these underserved schools.</p> <p>Provide recognition opportunities through the DOE Efficient and Healthy Schools Campaign, and value proposition for schools.</p>	<p>Provide information through ASHRAE’s established communication channels (e.g., <i>Chapter Notes, Student Newsletter</i>) to engage local chapters and student chapters. Promote connections to and mentorship of ASHRAE Student Branches, training the future workforce.</p> <p>Provide opportunities to achieve ASHRAE presidential objectives, including local government engagement and receive recognition of ASHRAE Chapters in both ASHRAE Society and their local community.</p>
<p>Coordinated communications, leveraging synergistic events, training webinars, networking activities.</p> <p>Potential for co-branded webinars with participation from state and local education agencies, EPA, public health agencies, and other stakeholders.</p>		
Resource Promotion	<p>Promote specific tools, resources, e.g.:</p> <ul style="list-style-type: none"> - Studies on benefits of IEQ in learning environment - Example packages of retrofit technologies with energy, health and safety benefits - Building assessment and audit tools - Better Building resources for K-12: lighting, Roof Top Units (RTU), envelope, Energy Management Information System (EMIS) <p>Resources found on the DOE webpage here</p>	<p>Promote specific tools, resources, e.g.:</p> <ul style="list-style-type: none"> - Advanced Energy Design Guides (AEDG) - Building EQ Portal - Level 1 and 2 audits - IAQ and HVAC retrofit guides (e.g. <i>ASHRAE TC 9.7 Design Guidance for Education Facilities: Prioritization for Advanced IAQ</i>)
<p>Opportunities for both organizations to gain greater use of resources currently available, and receive feedback on additional resource needs.</p>		

Activity 2 - Targeted Outreach to Specific Underserved Schools: Pilot Program

Goal: To connect with under-resourced schools and promote the value proposition for EE/IAQ retrofits, various incentives and funding opportunities, avenues for recognition, and establish interest in collaboration.

Process	DOE/LBNL	ASHRAE
Outreach	<p>Provides resources to enable ASHRAE members to identify rural, Title 1, and other under-resourced schools through DOE's Energy Justice Mapping Tool for Schools https://energyjustice-schools.egs.anl.gov/</p> <p>LBNL provides guidance on messaging for this community, including value proposition.</p>	<p>Specific ASHRAE Chapters would be identified for this pilot program, which would in turn identify interested member(s), coordinate with ASHRAE Headquarters (HQ), and work with local student branches as applicable.</p> <p>ASHRAE Member(s) connect with school district in their local areas to promote and offer technical assistance. ASHRAE Member involvement should not preclude any person, whether an ASHRAE Member or not, from participating on a proposal team for a DOE grant application.</p>

Activity 3 – Technical Assistance to Specific Underserved Schools: Pilot Program

Goal: To provide under-resourced schools with basic technical assistance to complete key activities (e.g., audit/needs assessment) necessary to enable retrofit projects.

Process	DOE/LBNL	ASHRAE
Audit / Needs assessment	<p>Provides resources, guidance on requirements of needs assessment for funding opportunities.</p>	<p>Local ASHRAE Member(s) complete benchmarking and Standard 211-compliant Level 1 Energy Audits using Building EQ or other assessment tools.</p> <p>ASHRAE Building EQ team made of ASHRAE Members provides supporting training and guidance as needed.</p> <p>Workplan development</p>
Follow-up technical assistance potential	<p>Resources on retrofit approaches, EE/IEQ best practices, funding, and financing availability</p>	<p>Share ideas and recommendations for improving school facilities, which would provide the most value-add for energy efficiency, improved IAQ and other sustainability/resilience</p>

Process	DOE/LBNL	ASHRAE
		<p>improvements.</p> <p>If funding is identified: design implementation of Mechanical, Electrical, and Plumbing (MEP) as well as Commissioning (Cx) and retro/re-commissioning (RCx) solutions</p> <p>Promotion of ASHRAE tools, resources, e.g., AEDGs</p>
Recognition of Achievements	<p>Avenue for recognition through the Efficient and Healthy Schools campaign. https://efficienthealthyschools.lbl.gov/recognition</p>	<p>Presentations at conferences of</p> <ul style="list-style-type: none"> ● ASHRAE ● School Board Officials ● School Facility Managers
	<p>Consider convening an event where teams consisting of schools/districts administration, teachers, parents, students and ASHRAE Chapters can present their work. These events can offer opportunities to recognize outstanding work.</p> <p>Consider participating in, and helping to coordinate an event where schools are recognized for their achievements through the Efficient and Healthy Schools campaign.</p> <p>Have some awards recognition for ASHRAE members who went above and beyond to help with this program. Recognition could be at the chapter, Region, or Society Level.</p>	



ACTION ITEMS
GOVERNMENT AFFAIRS COMMITTEE
SY 2022-2023

Last Updated: Feb. 3, 2023

#	Action	Assigned To	Due Date	Status	C/O
<i>Added at 06-24-2022 meeting</i>					
1	Review whether the presentation on roles and responsibilities for the nominating subcommittee should be added to the GAC Reference Manual.	Rules Subcommittee	Next Rules Subcommittee Meeting	Was discussed at Rules SC meeting on Nov. 4 but was not voted upon since there was no quorum. This item will be on the Rules SC agenda for Feb. 3. Will be discussed at the Spring meeting.	O
<i>Added at 11-07-2022 meeting</i>					
2	Develop Fact Sheet on key programs from IRA and the BIL, along with websites that have more detailed information.	Staff	Winter 2023 Meeting	Matt Young prepared these factsheets and distributed to GAC members via email on December 16 th , 2022. Documents are also posted to Basecamp in the Key Resources folder.	C
3	Work with the Marketing Team to collect statistics on use of the Gov Affairs website (and various pages within it). This information will help inform website changes.	Staff	Before December Meeting with Marketing.	Staff worked with Marketing to obtain statistics; these were used to inform the meeting on website redesign with the Communications Coordinator.	C
4	Set up dinner in Atlanta – to be held Friday night, February 3.	Staff	Mid-December	Venue identified, menu developed, payment system arranged.	C

#	Action	Assigned To	Due Date	Status	C/O
5	Inquire with the Building EQ Committee concerning its timeline for incorporating carbon into the tool.	Staff working with Daryl Collerman	Winter 2023 Meeting	Per a discussion with Building EQ staff, Daryl Collerman, and Gov Affairs staff, the Building EQ carbon metric is currently live for operational carbon emissions. BEQ will consider how to incorporate embodied carbon once more information on that is available from the TFBD. The BEQ Committee is working on an updated version of the BEQ “fact sheet” that will include the carbon information; this updated fact sheet will be used for GOEs once it’s finalized and available.	C
<i>Added at 02-03-2023 meeting</i>					
6	Structure a Government Affairs award at the Regional Level, and potentially include language to Resource Manual; consider how to improve communication to Regions and Chapters about the Society GAC award.	Member Mobilization	GAC Spring Meeting		
7	Send criteria on your Regional GA Awards to member mobilization SC so that they can structure a consistent approach	All RVCs with GA Regional Awards	Feb. 28		
8	Determine which parts of North Dakota (if any) are included in Region VI	Staff	ASAP		
9	Send GAC Award Recommendation to Honors & Awards	Staff	ASAP		
10	Investigate with web team why a nomination to the GAC couldn’t be found on the website.	Ken	ASAP		

[Type here]

#	Action	Assigned To	Due Date	Status	C/O
11	Continue the discussion on ways to better coordinate and collaborate between the CIS and GAC.	CIS & GAC	Spring / Summer		
12					