



Global Technical Interaction Committee Meeting Minutes

Monday, 14 October 2024
8:00 AM – 11:00 PM EDT
12:00 PM – 3:00 PM UTC

Meeting Link:

<https://ashrae.webex.com/ashrae/j.php?MTID=m2c6dbbd6c25eb4948d1ab7503626a8ca>

Meeting Best Practices Reminders

- A. Please turn on your camera when you wish to speak during the meeting. Leave your camera on until called on.
- B. When not speaking, please turn your camera off.
- C. Please mute your line when not speaking.
- D. If you aren't able to turn on camera and wish to speak, please send a note in the chat.

ATTENDANCE

	<u>Voting Members</u>			<u>Non-Voting Members/Guests</u>	
1	Ashish Rakheja (Chair)	X		Richie Mittal (Ex-Officio)	X
2	Steven Bushby (Vice Chair)	X		Wade Conlan (Coordinating Officer)	
3	Michael Corbat (U.S. TAG to ISO/TC 142 Chair)	X		Dr. Hywel Davies (Consultant)	X
4	Adrienne G Thomle, (Standards Committee Vice Chair)	X		Ryan Shanley (Staff Liaison)	X
5	Dr Satheesh Kulankara (Technical Activities Committee Vice Chair)	X		Kai Nguyen (Staff Liaison)	X
6	Coleman Brumley (U.S. TAG to ISO/TC 205 Chair)	X		Maralyn Graham (Staff)	X
7	Drake Erbe (U.S. TAG to ISO/TC 163 Chair)	X		Scott Creamer	X
8	Justin Prosser (U.S. TAG to ISO/TC 86 Chair)	X		Duane Jonlin	X
9	George Pantelidis	X		Jaap Hogeling	X
10	Hassan Younes	X		Jacob Karson	
11	Fabio Clavijo	X		Luis Alvarado	X
12	Cheng Wee Leong			Mohammad Wathaifi	X
13	Prof.Jyotirmay Mathur	X			

1. Call to Order (8:00 AM EDT) – Meeting was called to order at 8:03 AM EDT

A. **ASHRAE VALUES STATEMENT**

In ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, inclusiveness and respect for others, which exemplify our core values of excellence, commitment, integrity, collaboration, volunteerism and diversity, and shall avoid all real or perceived conflicts of interest. Our culture is one of inclusiveness, acknowledging the inherent value and dignity of each individual. We celebrate diverse and inclusive communities, understanding that doing so fuels better, more creative and more thoughtful ideas, solutions and strategies for the Society and the communities our Society serves. We respect and welcome all.

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

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

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

B. **GTIC SCOPE AND PURPOSE**

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

2. Introductions - Maralyn Graham recently joined ASHRAE staff as the Program Administrator for International Standards.
3. Review Of Agenda – Agenda was adopted by consensus
4. Approval Of Minutes Of 12 August 2024 Virtual Meeting – Minutes were approved as written. Moved by George Pantelidis and seconded by Steve Bushby



GTIC Draft Virtual
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5. **Subcommittee Reports**

- Region and Chapters Interactions Subcommittee – Fabio Clavijo (Chair), Jyotirmay Mathur (Vice Chair), Hassan Younes, Cheng Wee Leong, Eleazar Rivera (Volunteer), Henry Yeo (Volunteer), Olu Solade (Volunteer), Luis Alvarado (Volunteer), Chandra Sekhar (Volunteer), Mohammad Al Wathaifi (Volunteer)
 - Regional Champs met on September 26 and tasked to reach out to designated regions for engagement in survey and provide research ideas. Regional Champions will engage once recommendations are developed to move forward from survey analysis.
 - North America (Regions 1-11) – Eleazar Rivera
 - South America (Region 12) – Luis Alvarado
 - Asia Pacific (Region 13) – Cheng Wee Leong

- Europe (Region 14) – Eleazar Rivera and Hassan Younes currently recruiting
- South Asia (Region 15) – Jyotirmay Mathur
- Region at Large
 - Hassan to recruit for Middle East, North Africa, Turkey, Pakistan
 - Richie Mittal designated to reach out to Africa and Australia
- REHVA
 - Eleazar to recruit
- AASA
 - Bjarne Olesen reached out to AASA members
- RCIS met on October 8 and reviewed the meeting and presented the latest survey responses (57). See attached.



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- George suggested to have the survey active as a continuous effort and there is the need to have a collective result from the entire chapter and not the opinion of an individual. Ashish stated that the results were asked of individual from chapters.
- Adrienne concluded that there are more adapt than adopt responses and would like to investigate why and suggested to rewrite standards to make them more adoptable. Adrienne will present the results report to Standards Committee in February at the Winter Conference. Drake mentioned the process to adopt/adapt standards does not currently exist. Standard 90.1 was not adoptable and had to be modified. It was asked that the Standards Committee add to their agenda to begin a process for adoption. Ashish mentioned the challenges around adoption include references in the standards and local regulations in the countries. Hywel also stated in Europe there are requirements to use European standards and local standards need to be followed. Jaap also stated product standards have to follow directives and regulations in Europe and need to be accepted by European Commissions.
- Jyotirmay suggested to work on pilot adaptable decarbonization project to discover the necessarily process and resources needed to accomplish adoption/adaption. Steve agrees with pilot project and stated not all adaption requests will be one size fit all and pilot projects will need coordination with a partner to eliminate burden from TCs/PCs. Adrienne have concerns of time increased to develop adaptable standards.
- Adrienne inquired about a current standard that was easily adapted vs one that was difficult to adapt. Standard 60.1 was easier to adapt, but Standard 55 and Standard 90.1 could be difficult to adapt. The idea of development of addenda for adaptation was mentioned. Drake suggests for the pilot of 224P on calculations of carbon footprint can be adaptable.
- Ashish concluded a written summary to be submitted to TechC to include issues with adoption vs adaption. GTIC is aware of challenges along with time commitments of volunteers and funding required.

- Technical Committees Interactions Subcommittee – Satheesh Kulankara (Chair), Justin Prosser, Michael Corbat, Steve Bushby.
 - TCIS met on September 20 to discuss MBOs below
 - Seek research ideas from International chapters & communicate to RAC. – this would be for RCIS. Need to get topics from TCs
 - To establish continuity, have the in-coming TAC Vice-Chair will attend the Summer Annual meeting of GTIC.
 - Reach out to ASHRAE technical community to identify interested members and encourage more participation of ASHRAE members in the US TAG for ISO.
 - Have GTIC provide updates to ASHRAE Functional Groups during the Winter and Summer conferences through the Chair's breakfast organized by TAC
 - Satheesh inquired about a clear path on research ideas. Hywel, international member, volunteered to support research ideas. Adrienne mentioned a new RAC website for tracking research ideas and suggests GTIC to introduce website to all Chapters. Mentioned there is a formal process to follow in which a form will need to be filled out from RAC. Satheesh added that RAC receives research proposals and proposals will be filtered to TCs. Ashish stated that the path is currently clear, but funding can be received internationally by reaching out to all regions.
- Project Committees Interactions Subcommittee – Drake Erbe (Chair), Adrienne Thomle, Coleman Brumley
 - PCIS met on October 9
 - GTIC forum was not accepted and no active MBO.
 - Reviewed survey results and brainstormed on potential actions. Recognizes that interactions between Standards Committee and PCIS are necessary and volunteers are needed to join PCIS. Drake suggests recommendations are needed from all subcommittees to TechC on the path forward from survey.
 - Discussed the success of the joint workshop.
 - Justin mentioned the previous chair of Standard Committee started the work effort on harmonizing standards. Justin is in the AdHoc Group that focuses on harmonizing Standards with topic of decarbonization and not international focused.
 - Ashish suggests PCIS and TCIS Chairs to review the survey results and come up with recommendations on adapt/adopt/enforce within their subcommittees.
 - Need to discuss how to populate PCIS with more members/volunteers in the next ExCom meeting
- Special Projects - George Pantelidis (Chair), Steven Bushby, Jyotirmay Mathur –
 - Special Projects met on October 7 and discussed the conclusion of the first response to UNEP from Grenada. Tim Wentz reached out for a follow up and is scheduled to meet on Oct 24th to discuss next steps.
 - Discussed how to contact to organizations from MOUs list. George created a spreadsheet of all MOUs and need to identify appropriate contacts. Action to develop a formal letter to reach out to respective contacts for involvement. Plans to develop a survey for formal responses.
- ExCom - Ashish Rakheja (Chair), Steven Bushby, Fabio, Satheesh, Drake, George Pantelidis, Ryan Shanley, Kai - Reviewed ExCom meeting Minutes



GTIC ExCom
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6. Liaison Reports

- Government Affairs Committee - Eleazar Rivera
- Technical Activities Committee - Satheesh Kulankara - TAC discussed plans on training material for TC Breakfast. GTIC will need to provide a presentation to TAC prior to Orlando.
- Energy Performance of Buildings - Jaap Hogeling – Successful joint ISO/TC 205 & ISO/TC 163 workshop held on September 30th in Saint Denis, Paris with 123 participants in person and virtual. Speakers' presentations available below. The Roadmap is a basis of a workplan for upgrading set of EPB standards in the upcoming years. Currently in discussion with the European Commission to start work from the Roadmap. Projecting efforts to begin in mid 2025 and looking for interactions and support from GTIC.
[Link to workshop presentations](#)
- RAC – No report from RAC
- CEBD - Dr Jyotirmay Mathur – Special Projects CEBD is looking forward to results of survey and analysis. CEBD is asking to identify the members who worked on survey efforts.
- AASA - Eleazar Rivera / Cheng Wee Leong – No report from AASA

7. Status of MBOs – Review of MBOs postponed to future meeting.



2024-25 ASHRAE
MBO Tracking_GTIC.xl

8. International/Region Updates –

- Fabio participating in presentation of Nigeria Chapter this week. Delivered Energy Arts presentation in Colombia and continues to present GTIC and recruiting for members.
- George participated in CRC for Regional 14 and managed to squeeze in GTIC presentation.
- Mohammad currently working on development of energy efficiency code in Saudi Arabia and working towards adaption of 90.1 and 90.2. Ashish requests Mohammad as Regional Champion.
- Ashish attended Region 15 CRC in late September where the President and two Vice Presidents were in attendance and spoke about the current activities of GTIC.

9. Other Business – No other business was discussed.

10. Review of Action Items – Action items reviewed and updated. See below.

11. Next Meetings – Virtual meetings scheduled for second Monday bi-monthly, 8:00 AM to 11:00 AM Eastern Time
 - A. Monday, 9 December 2024, 8:00 AM to 11:00 AM EDT (12:00 PM to 3:00 PM UTC) – Virtual
 - B. Sunday, 9 February 2025, 9:00 AM to 12:00 AM EDT (12:00 PM to 3:00 PM UTC) – Orlando, Florida
 - C. Monday, 14 April 2025, 8:00 AM to 11:00 AM EDT (12:00 PM to 3:00 PM UTC) – Virtual
12. Adjournment (11:00 AM EDT) – Meeting adjourned at 10:11 AM EDT

**GTIC Action Items
As of 21 October 2024**

Updated Items Noted in Red

OPEN ACTION ITEMS				
AI#	Action Item	Assigned	Estimated Completion Date	Status
1	An action item was assigned to the Regions and Chapters Interactions Subcommittee to develop a presentation/document to introduce GTIC to regions and chapters; a roadmap for standards development bodies in each region/country will also be assembled. RCIS held a virtual meeting in December. Currently the subcommittee has representatives from Asia and Latin America and is working on identifying and recruiting Middle Eastern members; this is an ongoing action item. RCIS will work to integrate information from each region by the annual meeting. It has been requested that the subcommittee provide feedback on the presentation by the end of February. An idea is in development to have regional coordinators (“local champions”) in each region. - Ongoing	RCIS		Open
2	Review survey results and develop recommendations on standards development for adaption, adoption, and enforcement. Recommendations to be presented to GTIC to discuss and develop motions to submit to TechC.	TCIS PCIS RCIS		Open

CLOSED ACTION ITEMS				
AI#	Action Item	Assigned	Completion Date	Status
1	An action item was assigned to all subcommittees to schedule virtual meetings at the earliest opportunity. RCIS and PCIS have each held at least one virtual meeting since the previous GTIC meeting. TCIS will schedule a virtual meeting within the next several weeks following the Chicago conference. Completed	RCIS, TCIS, PCIS	21 January 2024	Closed
2	An action item was assigned to Olu Soluade, Ashish Rakheja, and Ryan Shanley to reach out to Kevin Mercer and Jamie Bennett (as TAC chair) to request an update on when the subcommittee can begin meeting and working. A virtual TCIS meeting will be scheduled in the next several weeks. Completed.	Olu Soluade Ashish Rakheja Ryan Shanley	21 January 2024	Closed
3	An action item was assigned to Steve Bushby, Drake Erbe, and Jaap Hogeling to prepare a draft of needs from the U.S. TAGs to ISO/TC 163 and ISO/TC 205 to be shared with the ASHRAE TC memberships. Experts are needed to review EPB standards and develop comments for U.S. positions. Steve Bushby provided a list to ASHRAE staff of ASHRAE TCs from which recruitment is needed for specific U.S. TAG to ISO/TC 205 advisory panels. Kevin Mercer will share a list of recommendations for Section 4 TCs to target for recruitment. It was asked if a one-year term for StdC and TAC vice chairs is appropriate, or if this is not sufficient time to become involved in the work of GTIC.	Steve Bushby Drake Erbe Jaap Hogeling	21 January 2024	Closed

CLOSED ACTION ITEMS				
AI#	Action Item	Assigned	Completion Date	Status
4	<p>An action item was assigned to ASHRAE staff to review the Standards Committee and GTIC MOPs (Manuals of Procedures) to develop recommendations for rules changes and assignment of responsibilities for different areas/items; these recommendations will be provided to GTIC and Standards Committee (via PPIS) for review and comment once they are available. This will be reported on at future GTIC and Standards Committee meetings. Ongoing.</p> <p>ASHRAE staff has performed a review of the Standards Committee procedural documents to develop recommendations for rules changes and assignment of responsibilities for different areas/items between Standards Committee and GTIC. PCIS also reviewed and agreed on the proposed revisions. These recommendations were approved in Chicago. Staff has completed corresponding recommended revisions to the GTIC Reference Manual for review, which will require approval by GTIC before taking effect.</p>	ASHRAE Staff	20 February 2024	Closed
5	<p>An action item was assigned to all subcommittees to develop their own MBOs to establish precedents for future work. Subcommittee chairs are expected to provide reports at future meetings.</p> <p>RCIS and PCIS have developed draft MBOs; these have been posted on the GTIC Basecamp. MBOs for TCIS still need to be developed.</p> <p>All subcommittees have developed their own MBOs. Complete.</p>	TCIS	20 February 2024	Closed
6	<p>An action item was assigned to the Project Committees Interactions Subcommittee to review the ASHRAE Strategic Plan and provide feedback on behalf of GTIC.</p> <p>Feedback which was submitted was reviewed during the 20 February 2024 GTIC meeting. Complete.</p>	PCIS	20 February 2024	Closed

CLOSED ACTION ITEMS				
AI#	Action Item	Assigned	Completion Date	Status
7	An action item was assigned to Doug Fick, Ashish Rakheja, and Cheng Wee Leong will develop comments on the ASHRAE Strategic Plan for submittal on behalf of GTIC. Feedback which was submitted was reviewed during the 20 February 2024 GTIC meeting. Complete.		20 February 2024	Closed
8	An action item was assigned to the all the subcommittees to schedule monthly meetings.	TCIS/RCIS/ PCIS	16 April 2024	Closed
9	An action item was assigned to GTIC leadership to meet with Kevin to discuss current activities and needs in TCIS.	Olu Soluade Ashish Rakheja Steve Bushby Kevin Mercer	22 April 2024	Closed
10	An action item was assigned to ASHRAE staff to reach out for feedback from GTIC members on the GSO MOU draft. Kai reached out to Hassan with MOU draft. No further feedback at this time from Hassan. Hassan would be able to join liaison team to assist needs.	Staff	26 May 2024	Closed
11	An action item was assigned to ASHRAE staff to provide ASHRAE leadership with updates on GTIC activities.	Staff	24 June 2024	Closed
12	An action item was assigned to Ashish to reach out to Dennis Knight to discuss the lack of participation from U.S TAG for ISO/TC 59/SC 13 and propose the relinquishment of the administration. – Ryan reported that Dennis Knight is aware that relinquishment of the U.S. TAG to ISO/TC 59/SC 13 is proposed in the upcoming Society Year budget to reduce costs.	Ashish Rakheja Ryan Shanley	12 August 2024	Closed