

**ASHRAE TC 7.6 Building Energy Performance
Programs Subcommittee
Monday February 10, 2025 5:30PM EST
Meeting Agenda**

Program Subcommittee Meeting, February Winter Meeting Orlando 2025

Attendees: Kajen Singham, Amanda Webb, J. Patrick Carpenter, Allora Novak, Mark Baker, Nicholas Long, Christine Reinders

Programs

Co-Sponsored Programs:

Forum 1: Is Building Performance Standard Legislation a Pathway to Decarbonization?

Chair: Christine Reinders-Caron

Sunday, February 9

9:45 AM EST

Location: Hilton Orlando, LL, Orange F

Feedback: Went well, perhaps workshop in the future instead.
Got larger, diverse audience with forum.

New topic suggestions: Looking into adoption rates in different cities?
Something similar from NY decarb conference. Modify for ASHRAE audience?
See success stories in different locations, case studies.

Workshop 1: Energy-Efficient Buildings Connection to Integrated Power and Thermal Grids to Achieve Decarbonization Goals: Part 1

Chair: Alexander Zhivov, PhD,

Sunday, February 9

9:45 AM EST

Other Sponsoring Committee: Federal Buildings WG

Location: Hilton Orlando, LL, Orange C

Feedback: Challenging, mixed experience. Missing key speakers due to unforeseen issues. Converted to panel discussion at the end. Discussion was maybe tangential to topic. Audience participation was really limited, not aligned on goals/purpose. 80 attendants in sessions, expected audience could not attend (government).

New topic suggestions: Describe energy efficiency as a method to resolve different fronts on decarb at once. Required refocusing on discussion due to change in programming.

Workshop 2: Energy-Efficient Buildings Connection to Integrated Power and Thermal Grids to Achieve Decarbonization Goals: Part 2

Chair: Alexander Zhivov, PhD,

Sunday, February 9

11:00 AM EST

Other Sponsoring Committee: Federal Buildings WG

Location: Hilton Orlando, LL, Orange C

Seminar 18: The True Value of Building Performance

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Chair: Vince Arnold

Sunday, February 9

1:30 PM EST

Other Sponsoring Committee: CIBSE ASHRAE Liaison Committee

Location: Hilton Orlando, LL, Orange B

Feedback: Organized by CIBSE ASHRAE Liaison, co-sponsored by 7.6. International presenters, on building energy performance and different code impacts. Good feedback from some presenters.

Future ASHRAE Conferences

June 21-25, 2025 – Phoenix, AZ – Technical Chair – Craig Bradshaw

Winter, January 31-February 4, 2026 – Las Vegas

Annual, June 27-July 1, 2026 – Austin

Winter, January 23-27, 2027 – Chicago

Annual, June 12-16, 2027 – New Orleans

Future Programs Discussion

Topic: Southern Nevada ban on new cooling towers and evap coolers

Co-sponsor with 9.1 in Las Vegas

Contact: Dennis Landsburg

New Topic: Energy Efficiency as a central solution to key issues (TBD)

Considering Paper session? Have multiple papers that discuss how energy efficiency to achieve: thermal resilience, energy security, climate change mitigation, cost effectiveness.

Describe how energy efficiency can be a foundation/solution to many key problems facing the world.

Consider breaking down program to look from big picture (country, regions, communities, to buildings, and system levels).

Maybe discuss with IDA.

Seminar Idea in LV, looking for people/groups to partner.

Contact: Alexander Zhivov

Topic: 211 Updates/Additions/Feedback Seminar, TBD

Barry suggested a forum in Pheonix, AZ for feedback on direction or Panel in LV on new elements. Quick discussion was had in 211 meeting with David and team. Looking to try seminar/workshop in Pheonix if speakers are available.

Contact: David Eldridge

Topic: How can AI assist in Energy Management – Phoenix

Conference Paper Session 4 in Indianapolis

How does energy managers role change with the addition of AI

Contact: Connect with TC 1.4 and Eric Wang

Topic Idea: Carbon Capture – Emissions to Soap

Ontario Utilities looking into small scale (residential) carbon capture – Potential topic. Need to see if pilot was completed. Discussion started in Energy Management subcommittee

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Contact: Kajen

Idea: Potential with co-sponsoring with 1.4 on data schemas, data input for AI, twin buildings and energy modelling.

Ideas - E. Yang: Call for seminars on Energy & Water Management case study, ASHRAE g36, grid connected efficient buildings, Lessons or pitfalls of AI applications to Energy Management, Precool strategies, ISO50001/50010 topic.

Current topic: New tools/dashboard from LBL to quickly help building operators

Potential topic: Cost effective energy efficiency

Contact: Aaron M. amcewin@jordanskala.com

Topic idea: Does Decarbonization mean electrification?

Interest in having it as a debate/panel.

Contact/Speaker: Dennis Landsburg

New Track suggestions

- Look into big picture seminars for LCA/energy and design.
- Look into different scales of the big picture from community to building level. Target audience for students/YEA. Educational, and perspective shaping.
- Creating a working group to look into developing the mini track.
- Educational or vision focused discussions. High level and conceptual.

Contact: Patrick C

2025 ASHRAE Annual in Phoenix, AZ - Conference Tracks

1 Fundamentals and Applications:

Fundamentals are the foundation for understanding applications in engineering. Key components of ASHRAE fundamentals include thermodynamics, psychrometrics, heat transfer, fluid and mass flow. This track provides opportunities for papers and presentations of varying levels across a large topic base. Concepts, design elements and shared experiences for theoretical and applied concepts of HVAC&R design are included.

Track Chair: Atilla Biyikoglu | abiyik@gazi.edu.tr

2 HVAC&R Systems and Equipment:

HVAC&R Systems and Equipment are constantly evolving to address the changing requirements of the built environment. Papers and programs in this track focus on the development of new systems and equipment, novel applications of existing systems and equipment, improvements to existing systems and equipment and the proper application and operation of systems and equipment.

Track Chair: Ng Yong Kong | nyk@nyk.com.my

3 Research Summit:

Active research, and the exchange of those research findings, are critical to the development of our HVAC&R industry and built environment. The 2024 Annual Research Summit invites researchers to share those results,

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including ASHRAE-sponsored research and research of interest to the ASHRAE community. Researchers are invited to present papers, extended abstracts, seminars, forums or participate in panel discussions. The Research Summit includes a partnership with ASHRAE's archival journal, Science and Technology for the Built Environment.

Track Chair: Haotian Liu | sjtulht@hotmail.com

4 Workforce Development:

As members of a professional organization, we recognize that the single greatest strength of our organization is its membership. This track is designed to allow those professionals an opportunity to develop in the areas of presentation skills, leadership, team-building, understanding various business operations, interpersonal skills, etc. In short, the Workforce Development Track will cover all aspects of business and career development outside of engineering/technical applications and lends itself to interactive session types such as workshops and forums.

Track Chair: Anuj Gupta | anuj@design2occupancy.com

5 Industrial Ventilation, Refrigeration, Air-Conditioning and Energy Utilization:

The industry sector accounts for roughly one third of the energy use in the US. Increasing efficiency demands are creating the impetus for new technology, targeted at industrial facilities. This track will explore these technologies and regulatory pressures facilitating them. This includes ventilation, refrigeration, and air conditioning for industrial facilities and strategies that can improve energy utilization such as, waste-heat recovery, high-temperature heat pumps, and ventilation techniques/strategies.

Look into carbon capture as a part of this track.

Track Chair: Vinod Venugopal | vinodpvgopal@gmail.com

6 Heat Pumps, Refrigerants and Decarbonization:

Decarbonization is omnipresent and encapsulates many different elements. This track will focus on the development of heat pumps supporting decarbonization efforts. This includes improvements to legacy technologies, the refrigerant transition and component development. Additionally, this track will further explore more novel approaches that includes not in-kind technologies and less popular heat pump solutions such as ground-source heat pumps.

Track Chair: Money Khanna | khannamoney@gmail.com

7 Onsite Energy Storage:

Thermal and electrical energy storage can alleviate the mismatch between renewable energy availability and peak building energy demands, enabling the incorporation of more renewable energy into the grid. Integration of onsite storage (either thermal or electrical) with residential and commercial building envelopes or HVAC systems would reduce buildings' heating and cooling loads, level out peak energy demand, reduce HVAC size, increase energy savings, improve occupants' thermal comfort and allow flexibility for shedding and shifting building loads. These benefits will improve grid resiliency, thereby enabling more cost-effective electrification of buildings. Papers and programs in this track focus on advances in cost-effective materials

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and systems, design, optimization and control as well as the integration of onsite storage in building envelopes or HVAC systems and grid resiliency.

Track Chair: Kevin Brown | kevin@kbsquared.net

Arizona Deadlines

- November 20th 2024: Conference Paper Abstracts, Paper Session Requests Due
- November: Conference Paper Abstract Accept/Reject Notifications
- January: Website Opens for Program Proposals
- February 26th 2025: Program Proposals Due
- February: Conference Papers Due
- March 5th 2025: Conference Paper Accept / Revise / Reject Notifications
- April: Revised Conference Papers Due
- April: Conference Paper Accept/Reject Notifications

Las Vegas Program

Website and tracks release Feb 19th.

Website: ashrae.org/2026winter

Tracks - Tentative

1. Fundamentals and Applications
2. HVAC&R Systems & Equipment
3. Refrigeration and Refrigerants
4. Research Summit
5. Energy Storage and Grid Resiliency
6. Pathways to Building Decarbonization
7. Artificial Intelligence
8. Advancements in Construction
9. Ventilation and Indoor Environmental Quality for Healthy Buildings
10. Future-Proofing the Built Environment

Las Vegas Deadlines – Tentative

- May 28: Conference Paper Abstracts Due
- June 18: Abstract Accept/Reject Notifications
- August 1: Debate, Panel, Seminar, Forum, Workshop Proposals Due
- September 3: Conference Papers Due
- September 24: Conference Paper Accept / Revise / Reject Notifications
- October 3: Debate, Panel, Seminar, Forum Workshop Accept / Reject Notifications

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Chair Notes:

Speaker Resources: <https://ashrae.org/conferences/speaker-resources>

- See this website for the ASHRAE Presentation policy, commercialism policy & checklist, presentation template, and program submission template.

In addition to program submissions TC's may submit a CEC request to sponsor a paper session:
https://web.ashrae.org/cec_request/

Submit Track ideas to CEC

TC's may submit multiple programs to compile into a mini-track