

# Who We Are and What We Do

- Mission and Vision
- Structure
- Products
- Members
- Users

# ASHRAE Mission and Vision



- Mission
  - To advance the arts and sciences of heating, ventilating, air conditioning and refrigerating to serve humanity and promote a sustainable world.
- Vision
  - ASHRAE will be the global leader, the foremost source of technical and educational information, and the primary provider of opportunity for professional growth in the arts and sciences of heating, ventilating, air conditioning and refrigerating.

# ASHRAE Structure

- 25 Standing Committees, 3 Councils
  - Mechanism for coordinating, approving, implementing, and communicating strategic initiatives
- Technical Committees, Task Groups
  - 46 TC's able to produce residential products within scope, four with tight residential focus
    - Central Forced Air Heating and Cooling Systems
    - Unitary & Room Air Conditioners and Heat Pumps
    - Service Water Heating Systems
    - Residential Refrigerators and Food Freezers
- Ad Hoc Committees and Advisory Panels
  - Provide background and recommendations for the society on topics of special interest or importance
  - 12 relevant to residential in last decade
    - ASHRAE Support for Residential Construction Ad Hoc Committee
    - Residential Energy and IAQ Ad Hoc Committee
    - Standard 90.2 Standards Advisory Panel

# ASHRAE Structure (continued)



- Standard and Guideline Project Committees
  - 22 active SPC's, 2 GPC's relevant to residential
    - SSPC 62.2 Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings
    - SSPC 90.2 Energy Efficient Design of Low-Rise Residential Buildings
    - SPC 103 Methods of Testing for Annual Fuel Utilization Efficiency of Residential Central Furnaces and Boilers
    - SPC 116 Methods of Testing for Rating Seasonal Efficiency of Unitary Air-Conditioners & Heat Pumps
    - SPC 118.2 Method of Testing for Rating Residential Water Heaters
    - Guideline 24-2008 Ventilation and Indoor Air Quality In Low-Rise Residential Buildings

- Handbooks
  - Fundamentals, HVAC Systems and Equipment, Applications, and Refrigeration
  - Individual chapters assigned to TC's with expertise
  - Residential coverage varies (9 Residential-Specific)
    - Dedicated chapter (e.g., Fundamentals Chapter 17, Residential Cooling and Heating Load Calculations)
    - Section in non-residential chapter (e.g., Systems Chapter 2 Decentralized Cooling and Heating, Section 2.6 Residential and Light Commercial Split Systems)

# ASHRAE Products (continued)



- Standards and Guidelines
  - 24 standards, 4 guidelines with residential provisions
  - Relatively small fraction of 145 standards and 21 guidelines published by ASHRAE
  - Shows breadth of ASHRAE standards that could be applied to the residential market
- Research Publications
  - Research results included in other ASHRAE products (e.g., Handbook of Fundamentals)
  - Strategic Plan updated every five years
    - Goal 3 of the 2010-2105 plan is to reduce significantly the energy consumption for HVAC&R, water heating and lighting in existing homes
  - Small subset of total ASHRAE research projects focus on residential

# ASHRAE Products (continued)

- Position Documents
  - Climate Change
  - Environmental Tobacco Smoke
  - Indoor Air Quality
  - Legionellosis
  - Limiting Indoor Mold and Dampness in Buildings
  - Natural Refrigerants
  - Refrigerants and their Responsible Use
  - Unvented Combustion Devices and IAQ
  - Energy (expired, currently under revision)
- ASHRAE Journal Articles
- ASHRAE Conference Technical Papers
- Ad Hoc Committee & Advisory Panel Reports
- CDs and Education Courses

- Predominantly Non-Residential Interests
  - 99% self-select non-residential primary interest in North America
  - Similar for all ASHRAE international regions
- Subset with Residential Interest and Expertise
  - Heavily invested in addressing residential issues
  - Potential for significant influence due to ASHRAE reputation and range of products
- 1% of Journal Articles or Transactions Papers with Residential Focus



# Users of ASHRAE Products

- Best Practices Applied to Competitive Designs
- R&D Implemented in Advanced Designs
- Products Purchased by Various Stakeholders
- Standards and Guidelines Referenced in Other Stakeholder Products
- Technical Information and ASHRAE Positions Considered in Regulations & Legislation

# Summary

- ASHRAE Member Focus Is Predominantly Non-residential
- ASHRAE Has a Subtle, Significant Residential Footprint
- Opportunities for Collaboration
  - Lots of available, helpful information
  - Win/Win scenarios needed
  - Fill in gaps, avoid duplication