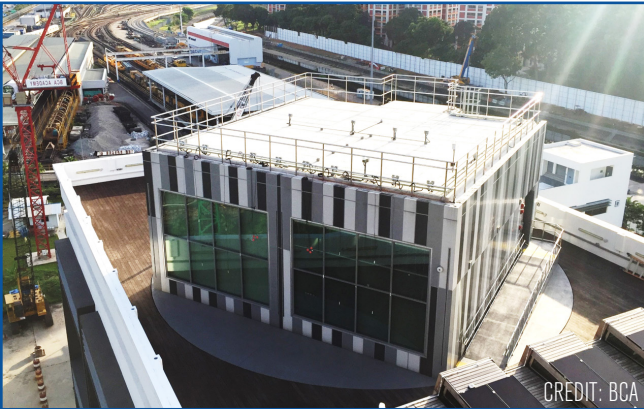


High Performance Buildings

In support of the broad adoption of high performance building design guiding principles, ASHRAE has developed and co-sponsored a number of standards, guides, and professional certifications. Governments can be a partner in accelerating progress towards a high performance built environment by enacting, implementing, and enforcing policies that encourage the use of these products and services.



CREDIT: BCA

The Building and Construction Authority (BCA) Sky Lab in Singapore

31% of Singapore's entire building stock has been certified under the Green Mark. ASHRAE can help further innovation in Region XIII with our energy efficient standards listed below:

- ANSI/ASHRAE/USGBC/IES 189.1 Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings as an alternate compliance path to the International Green Construction Code.
- International Green Construction Code
- 2015 National Green Building Standard™
- High-Performance Building Design Professional Certification



Sustainable Management of Refrigeration Technologies in Mobile Marine and Fisheries Sectors

ASHRAE regularly participates in international conferences that discuss and promote the use of high performance building design principles.

Learn more at www.ashrae.org/conferences

Address:

ASHRAE Government Affairs Office
1828 L Street, NW
Suite 810
Washington, DC 20036

Email:

WashDC@ashrae.org

Call:

(202) 833-1830



www.ashrae.org



Global Alliances for Sustainability

ASHRAE strongly supports the work of International Organization for Standardization (ISO) and development of international standards. In addition, the Society works with professional organizations in over 50 countries through the ASHRAE Associate Society Alliance. Region XIII Chapters work with their professional organization to deploy ASHRAE 90.1 and 62.1 standards for design and operation of high performing sustainable buildings in Philippines, Hong Kong, Macau, Malaysia, Singapore, Thailand, Taiwan and Indonesia. The technical expertise generated by this global network helps foster innovation around the world.

ASHRAE Adaptation to Climate Change

- Fund** scientific research on the impact of greenhouse gases (GHGs) and climate change through our expertise in heating, ventilating, air conditioning and refrigerating (HVAC&R) technologies and applications.
- Analyze** the impact of lower global warming potential (GWP) refrigerants and energy efficient HVAC&R technologies on climate change.
- Contribute** to the successful phase out of ozone-depleting chlorofluorocarbons (CFCs) and hydrochlorofluorocarbons (HCFCs).
- Promote** responsible use of refrigerants and efforts to advance technologies that minimize environmental impact while enhancing performance, cost effectiveness, and safety.
- Integrate** energy efficient HVAC&R systems and building designs to lower GHG emissions and sustain progress towards climate change goals.

Refrigerants Research Program

As part of the global phase-down of high GWP refrigerants and efforts to identify appropriate climate-friendly alternatives, ASHRAE has partnered with the Air-Conditioning, Heating, and Refrigeration Institute (AHRI) and U.S. Department of Energy on a multi-million dollar research program that will provide new technical knowledge needed to facilitate and accelerate the safe use of selected refrigerants through ANSI/ASHRAE Standard 15-2013 Safety Standard for Refrigeration Systems, and ANSI/ASHRAE Standard 34-2013 Designation and Safety Classification of Refrigerants. According to the International Code Council (ICC), these revised ASHRAE standards will be eligible to be fast-tracked into the international codes, in accordance with ICC procedures.

ASHRAE Standards Adopted by ISO

- 135** BACnet, the ASHRAE building automation and control networking protocol, has been designed specifically to meet the communication needs of building automation and control systems for applications such as heating, ventilating, and air-conditioning control; fire and other life safety and security systems; energy management; lighting control; physical access control; and elevator monitoring systems. BACnet protocol has also been adopted as a European Committee for Standardization (CEN) standard.
- 135.1** Method of Test for Conformance to BACnet provides a comprehensive set of procedures for verifying the implementation of capabilities, including BACnet services (as initiators, executors, or both), BACnet object types (including required properties and optional properties), the BACnet network-layer protocol, data-link options, and all special functionalities.
- 13256-1** This part of ISO 13256 establishes performance testing and rating criteria for factory-made residential, commercial and industrial, electrically-driven, mechanical-compression type, water-to-air and brine-to-air heat pumps. The requirements for testing and rating contained in this part of ISO 13256 are based on the use of matched assemblies.

ASHRAE develops standards which lead the advancement of sustainable building design and operations. Portions of our refrigerant standards, 15 and 34, are included in ISO 817 and ISO 5149.