

**Memorandum of Understanding  
Between  
The United States Department of Energy  
And  
The American Society of Heating, Refrigerating  
and Air-Conditioning Engineers, Inc.**

By this memorandum of understanding (MOU), the U.S. Department of Energy (DOE) and the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) agree to further their long-term relationship by working cooperatively:

- To improve the efficient use of energy,
- To improve building resiliency, and
- Improve building performance, including for occupants.

DOE's Office of Energy Efficiency and Renewable Energy (EERE) enters into this non-binding MOU pursuant to the authority of section 646 of the Department of Energy Organization Act (Pub. L. 95-91, as amended; 42 U.S.C. § 7256) and Title III of the Energy Conservation and Production Act (Pub. L. 94-385, as amended; 42 U.S.C. 6831 *et seq.*).

EERE and ASHRAE are committed to working together toward the following goals:

- 1) Encourage the continued development of voluntary consensus-based standards related to energy efficiency.
- 2) For each succeeding version of Standard 90.1 (Energy Standard for Buildings Except Low-Rise Residential Buildings) encourage adoption by states to ensure energy and cost savings, and seek adoption of all technologically feasible and economically justified energy efficiency measures within 90.1.
- 3) Encourage adoption of Standard 90.1 in building codes and in the International Standards Organization (ISO) standards.
- 4) Encourage advanced energy design concepts.
- 5) Collaborate in the development and implementation of the safe use of next-generation refrigerants and concurrently improve equipment energy efficiency.
- 6) Cooperate to provide and encourage the use of clear and consistent information to the building industry about building energy rating and labeling.
- 7) Work within the building community and related professions to encourage the interoperability of building related software and integrated solutions among design disciplines, manufacturers, contractors, and building owners and operators to increase energy efficiency, building and grid resilience, health, and productivity in new and existing buildings.
- 8) Encourage communication of information regarding technology transfers and facilities training to building owners and management about the interrelationships between mechanical systems and building operating costs, concerning energy, indoor environmental quality workplace performance, client satisfaction, resilience, productivity, health impacts, and public safety.

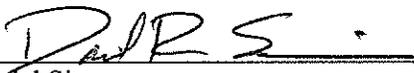
This MOU in no way restricts either of the parties from participating in any activity with other public or private agencies, organizations or individuals.

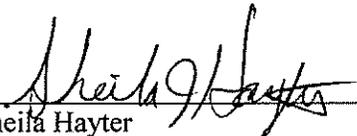
This MOU is neither a fiscal nor a funds obligation document. Nothing in this MOU authorizes or is intended to obligate the parties to expend, exchange, or reimburse funds, services, or supplies, or transfer or receive anything of value. The words "encourage," "support," and "cooperate" do not imply any material or financial assistance, transaction, or obligation by either party.

This MOU is strictly for internal purposes for each of the parties. It is not legally enforceable and shall not be construed to create any legal obligation on the part of either party. This MOU shall not be construed to provide a private right or cause of action for or by any person or entity.

This MOU is subject to, and will be carried out in compliance with, all applicable laws, regulations and other legal requirements.

The MOU will become effective upon signature by the Assistant Secretary for EERE and the President of ASHRAE. It may be modified or amended by written agreement between both parties, and such amendments shall become part of, and shall be attached to this MOU. This MOU shall terminate at the end of three (3) years unless revised or extended at that time by written agreement of the parties. It may be terminated at any time by either party upon 90 days written notice to the other. Its provisions will be reviewed periodically and amended/supplemented if mutually agreed upon in writing.

  
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Daniel Simmons  
Assistant Secretary  
Office of Energy Efficiency and Renewable Energy  
U.S. Department of Energy

  
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Sheila Hayter  
President 2018-2019  
ASHRAE

22 May 2019  
Date

5/22/19  
Date