



The HVAC&R Industry

A weekly eNewsletter from ASHRAE



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Advancing HVAC&R to Serve Humanity
And Promote a Sustainable World

The HVAC&R Industry, ASHRAE's free weekly eNewsletter for HVAC&R professionals, provides relevant, timely information about industry and technology for people who create healthy, comfortable indoor environments.

Industry News

Heating, Cooling System Sales Get Boost

NEW YORK—Sales of heating and cooling equipment are getting a boost from greater demand for energy efficient systems, as people try to reduce utility bills amid increasing fuel costs. Johnson Controls said its fiscal third-quarter profit rose 11% due to a sharp increase in sales in its building efficiency division. United Technologies, parent of Carrier, also reported an 11% profit increase in its latest quarter, helped by higher sales and strong new orders for climate control systems. Johnson Controls' nonresidential building efficiency segment income rose 21%. United Technologies reported that orders for new equipment grew by double digits globally.

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U.S. DOE Pursuing Net-Zero-Energy Commercial Buildings

PALO ALTO, Calif.—The U.S. Department of Energy (DOE) has launched the Zero-Net Energy Commercial Building Initiative (CBI), with establishment of the National Laboratory Collaborative on Building Technologies (NLCBT). The initiatives are part of DOE's efforts to develop marketable net-zero-energy commercial buildings by 2025. The NLCBT will enable DOE to use the scientific resources of its national laboratories on research, validation, and commercialization priorities.

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Anheuser-Busch Turns to Renewable Energy

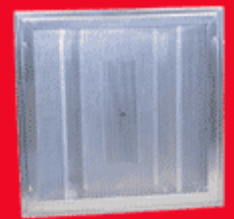
ST. LOUIS—Anheuser-Busch plans for its U.S. breweries to use renewable fuels for more than 15% of combined energy needs by 2010. The company's breweries in Houston and Fairfield, Calif., are installing alternative energy technology that will be operational by the end of the year. The Houston brewery will use biogas, mostly methane from the decomposition of waste piped from a landfill. The Fairfield brewery will receive a small portion of its electricity from onsite solar panels. The facility also will get a bio-energy recovery system (BERS), which use bacteria to eat particles of waste in brewing wastewater. The resulting methane created by the bacteria helps fire boilers.

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Bank of America Using Building Management System To Halve HVAC Costs

CHARLOTTE, N.C.—Bank of America announced this week that it is deploying a

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centralized energy management system at its 3,300 bank locations. The system includes software, handheld energy-efficiency diagnostic tools, and project management services. The company expects up to a 50% reduction in HVAC costs via the system, compared with using standard building control technologies. The company also expects to reduce CO₂ emissions from its banking centers by an estimated 14,000 tons (12 700 Mg) annually.

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[MIT Researchers Claim Solar Energy Breakthrough](#)

CAMBRIDGE, Mass.—MIT researchers say they have overcome a major barrier to large-scale solar power: storing energy for use when the sun doesn't shine. The discovery involves a process that will allow the sun's energy to be used to split water into hydrogen and oxygen gases. Later, the oxygen and hydrogen may be recombined inside a fuel cell, creating carbon-free electricity. The key component in the MIT process is a new catalyst that produces oxygen gas from water.

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ASHRAE News

[ASHRAE Publishes New Guidance on Commissioning Process](#)

A new ASHRAE guideline covers specific tasks to successfully implement the commissioning process for HVAC&R systems and assemblies. ASHRAE Guideline 1.1, *HVAC&R Technical Requirements for the Commissioning Process*, describes the technical requirements for the application of the commissioning process described in ASHRAE Guideline 0-2005, *The Commissioning Process*. Sample forms, documents and checklists are included.

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Feature of the Week

[Three Simple Approaches to Energy Efficiency](#)

By Carol Marriott, P.Eng., Member ASHRAE

This article focuses on changing traditional design parameters to improve the energy performance of an HVAC system. It provides several examples of design parameters to improve HVAC system efficiency with solid economic payback, or, in some cases, immediate payback. The author uses ANSI/ASHRAE/IESNA Standard 90.1-2004, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, Appendix G, *Performance Rating Method*, to provide the benchmark HVAC system based on building size.

This article was originally published in July 2006. [Click here](#) to download the article. It will be available here through August 21.

After August 21, access to the article from this eNewsletter will no longer be available. It will remain available for free download by Members [here](#) and for purchase by nonmembers in the [ashrae.org bookstore](#).

Product News

Pump Controller From Bell & Gossett

MORTON GROVE, Ill.—Bell & Gossett announces the upgraded Technologic® pump controller. It is designed to control open (pressure booster, cooling tower and processes) and closed (heating, cooling, and other HVAC system) loop applications. It features parameter backup, logging of events and alarms, a pump exercise feature, pump purge capability, and user-selected pump staging.

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Rooftop Unit From Lennox

DALLAS—Lennox introduces a new rooftop unit under the Strategos™ brand. The 24 ton (84 kW) capacity unit is designed to be highly efficient, using the new MSAV™ (multistage air volume) supply fan technology to conserve energy during partial cooling operation. It features up to seven levels of airflow: four airflow levels for cooling, and separate airflows are used for heating, ventilation and smoke detector mode.

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Air Diffusers From Swegon

GÖTEBORG, Sweden—Swegon has launched the Ceiling Collection of air diffusers. Among the new brands is the Colibri model, which features rotatable, adjustable discs. They produce a flexible spread pattern without changing the airflow, pressure drop or sound level.

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