



The HVAC&R Industry

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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

Despite Economy, Green Building a Priority

BOSTON—Despite the faltering U.S. economy, commercial building owners are continuing to allocate funds and resources to "green" and sustainable projects, according to a new report. More than 80% of respondents have allocated funds to green initiatives this year, according to the *2008 Green Survey: Existing Buildings*. Nearly half (45%) said that their sustainability investment will increase in 2009. The report was conducted by GlobeSt.com and *Real Estate Forum*, in conjunction with the U.S. Green Building Council and the Building Owners and Managers Association.

Wind Turbines Cause Big Problems in Small Towns

LINCOLN, Ill.—Moving the gigantic rotor blades of wind turbines from factories to installation sites is wreaking havoc in many small towns, whose traffic infrastructure is often not equipped to handle such large cargo. Reports of damaged signals, signs, sidewalks and bridges caused by wind turbine transport have been reported in several states. In Lincoln, Ill., a truck driver hauling wind turbines was fined \$20,000 for blocking an intersection in midday traffic. The truck and cargo weighed 180,000 lb (82 000 kg); the city mandates a weight limit of 72,000 lb (33 000 kg). In Minnesota, trucks laden with oversized turbines sometimes require a police escort and a pilot car with flashing lights. They are often unable to stay on interstates due to low overpasses.

Carrier Acquires Energy Services Business

FARMINGTON, Conn.—Carrier Corp. has acquired Noresco, an independent energy services company. The Westborough, Mass.-based company implements efficiency and infrastructure upgrade projects designed to reduce energy and water consumption and lower operating expenses. Customers include federal, state, and municipal agencies; educational institutions; hospitals; utilities; and commercial and industrial facilities. Noresco has 20 offices in the U.S.

Florida Man Invents Bed-Only AC System

MIAMI—A Florida resident has designed an air conditioner that only cools where it is most needed at night. The small system focuses its power only on the occupant's bed, to save energy normally wasted by cooling the entire house. The unit is built into a piece of furniture at the foot of the bed, so it looks like part of your room. It reportedly requires no wires. It blows a steady stream of cool air over the bed area, making it 5°F (2.8°C) cooler than the rest of the home.

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LEED® 2009 Passes Member Ballot

WASHINGTON—LEED® 2009, the update to the U.S. Green Building Council's (USGBC) LEED green building certification program, has passed member ballot, and will be introduced in 2009, continuing the evolution of the existing LEED rating systems for commercial buildings. The LEED 2009 update focuses on improving energy efficiency, reducing carbon emissions, and addressing other environmental and human health outcomes.

Developing Nations To Lead Growth in Commercial Refrigeration

CLEVELAND—World demand for commercial refrigeration equipment is projected to increase 4.6% per year through 2012, when it will reach \$29.3 billion. This is according to *World Commercial Refrigeration*, a new study by The Freedonia Group, a Cleveland-based industry research firm. Developing markets in Latin America and Asia are expected to register the largest gains. China's commercial refrigeration equipment market is expected to grow by 10% per year. Global expansion of fast-food chains is cited as a primary contributor.

Feature of the Week

Reducing Energy Costs With Condensing Boilers and Heat Recovery Chillers

By **James B. (Burt) Rishel, P.E.**, Fellow/Life Member ASHRAE; and **Benny (Ben) L. Kincaid**

According to the authors, the combination of a condensing boiler and a heat recovery chiller provides a number of opportunities to reduce energy bills for buildings with summer heating and winter cooling. This article demonstrates how condensing boilers can be used to reduce hot water system design temperatures, eliminate the need for two expansion tanks, and reduce pump capacity and piping distribution system sizes.

This article was originally published in March 2007. [Click here](#) to download the article. It will be available here through Dec. 10.

After Dec. 10, 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

LEED® Analysis Software From Carrier

SYRACUSE, N.Y.—Carrier Corporation announces v4.40 of the E20-II Hourly Analysis Program (HAP) software for energy analysis and HVAC system design. The software includes features to make LEED® Energy and Atmosphere Credit 1 analysis faster and easier. The new version also features a software wizard to compare and optimize HVAC design performance during the schematic design phase of projects.

Solar Reflective Roofing Shingles From CertainTeed

VALLEY FORGE, Pa.—CertainTeed launches the Landmark Solaris™ line of solar reflective roofing shingles. The shingles feature roofing granules that reflect solar energy and radiate heat better than traditional asphalt roofing shingles. It is available in five colors, as opposed to the single white color available for traditional "cool roof" systems.

Heat Pump System From Mitsubishi Electric

SUWANEE, Ga.—Mitsubishi Electric HVAC introduces the Hyper-Heating INVERTER (H2i)



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P-Series heat pump system. The system uses the company's flash process to cool the compressor, which allows for higher compressor speeds at lower temperatures without overheating. The process allows the units to deliver 100% of rated heating capacity at 5°F (−15°C) and 75% at −13°F (−25°C), without electric resistance "backup" heat.

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