



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

U.S. Mayors Endorse 'Green' Commercial Construction Code

OKLAHOMA CITY—An organization of U.S. mayors is endorsing the International Green Construction Code, developed by the International Code Council with input from stakeholders. The code includes energy, water, IAQ and safety benchmarks that states and cities may adopt as mandatory provisions for commercial buildings. The code incorporates ASHRAE Standard 189.1 as an optional path to compliance. The U.S. Conference of Mayors passed a resolution that endorses the code during the 1,200-member organization's annual meeting in June.

Saudi University Campus Largest LEED Platinum Project in the World

THUWAL, Saudi Arabia—The King Abdullah University of Science and Technology's (KAUST) new campus near Jeddah, Saudi Arabia is that country's first LEED-certified project, earning LEED Platinum. It is also reportedly the largest LEED-certified project of its kind in the world, at 496 000 m² (5.3 million ft²). More than 4000 m² (43 000 ft²) of solar thermal panels for hot water production and nearly 17 000 m² (183,000 ft²) of photovoltaic arrays installed on the monumental roof will produce 4 MW of renewable energy, offsetting 5.7% of total campus energy demand. Also, the university will obtain 35% of the total campus energy from an outside renewable energy provider. Chilled beams and UFAD technology will enable energy cost savings of 24.5%.

ASHRAE HQ Earns ENERGY STAR Label

ALBUQUERQUE, N.M.—ASHRAE has earned the U.S. Environmental Protection Agency's (EPA) ENERGY STAR label for its renovated headquarters in Atlanta. This signifies that the building performs in the top 25% of similar facilities nationwide for energy efficiency. Jean Lupinacci, chief of the ENERGY STAR Commercial & Industrial Branch, presented the award during ASHRAE's 2010 Annual Conference this week. "The renovation gave us the opportunity to demonstrate that existing buildings can be upgraded to provide equal or better than new building performance," said 2009–10 ASHRAE President Gordon Holness.

Study Finds Smart Meters Not Enough To Lead Consumers To Save Energy

WASHINGTON, D.C.—Consumers could reduce their household electricity use as much as 12% and save a combined \$35 billion or more over the next 20 years if U.S. utilities go beyond "smart meter" initiatives and include more energy-use feedback tools that get consumers more involved in the process of conserving energy, according to a new report from the American Council for an Energy-Efficient Economy (ACEEE). The report concludes no U.S. utility is currently providing the full range of needed services.

Carrier 'Greens' Service Vehicle Fleet

SYRACUSE, N.Y.—Carrier is reducing its fuel use and global greenhouse gas emissions through a systematic analysis of its vehicle fleet. Using strategies such as "right-sizing" of vehicles, monitoring driving patterns, using GPS data and removing unnecessary weight from vehicles, the company has saved \$1 million and reduced emissions by more than 30% since 2006. Carrier replaced some of its standardized large service trucks with

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smaller, more fuel-efficient vehicles. It also introduced hybrid vehicles to the fleet. GPS use has reduced unnecessary driving, resulting in an average miles per gallon increase of nearly 7%.

ASHRAE News

New ASHRAE President Calls for Shift From 'Silo' Approach

ALBUQUERQUE, N.M.—Lynn G. Bellenger, P.E., Fellow ASHRAE, was installed as ASHRAE President for 2010–11 at the ASHRAE Annual Meeting here this week. Bellenger's presidential theme, "Modeling a Sustainable World," champions the use of tools such as simulation, daylight analysis, CFD and BIM by all involved parties in an integrated design process. "The traditional approach where the architect designs the building shape... and then transmits the drawings to the mechanical and electrical engineers for their design is a silo approach that misses the rich opportunities for optimizing building performance through a collaborative approach from the beginning," she said in her inaugural address. ASHRAE also installed Ronald Jarnagin as president-elect, Thomas Watson, P.E., as treasurer, as well as vice presidents and regional directors for the 2010–11 Society year.

ASHRAE Introduces Its First iPhone App

ASHRAE has developed a new iPhone application that makes calculations related to Standard 62.1. The app allows users in the field to quickly and easily perform the outdoor air calculations found in the Ventilation Rate Procedure and the interactive 62MZCalc spreadsheets in the 62.1 User's Manual. The \$19.99 app is compatible with Apple's iPhone, iPod Touch and iPad mobile devices.

Feature of the Week

Commercial Open Loop Heat Pump Systems: Groundwater Issues

By Kevin D. Rafferty, P.E., Associate Member ASHRAE

Configuring an efficient and low-maintenance open loop system involves a host of design issues the engineer must address. This article focuses on the aspects most unfamiliar to the HVAC engineer: those associated with the groundwater side of the system. It presents steps toward the successful application of open loop design.

Product News

Integrated Power Center from Schneider Electric

PALATINE, Ill.—Schneider Electric announces the Submetering Integrated Power Center (IPC), which combines custom-engineered integrated power center technology with the company's Square D PowerLogic E4800 series multi-circuit energy meter. The factory-assembled, prewired power system allows building managers to track energy use for individual users in multiple-tenant and multiple-department buildings such as high-rise office buildings, hotels, condominiums and apartments, shopping malls and medical facilities. Real-time status and use information can be accessed online.

Geothermal System Air Handlers From ClimateMaster

OKLAHOMA CITY—ClimateMaster introduces the Tranquility (TAH) Series air handlers, designed for use with indoor and outdoor geothermal split systems. Features include condensate overflow protection, a bidirectional thermal expansion valve, a control transformer with circuit breaker protection, and a dehumidification mode for high latent cooling.

Infrared Occupancy Sensor From Dwyer Instruments

MICHIGAN CITY, Ind.—Dwyer Instruments announces the OSW-100 wall-mounted infrared occupancy sensor, designed to automatically control an HVAC ventilation system. It features a dual-delay processor designed to eliminate false triggers due to short-term occupancies. The device has a 110° viewing angle to capture movement up

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