



# 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

### Vatican City Installs Solar Collectors To Heat, Cool Buildings

VATICAN CITY—Last week, Vatican City installed solar collectors to help heat and cool its buildings. The installation includes 110 solar collectors, covering nearly 3,800 ft<sup>2</sup> (350 m<sup>2</sup>), and will use absorption cooling during warm weather. The installation comes about a year after the city-state converted the roof of its Paul VI audience hall into a solar-power generator to produce energy for the Vatican's power grid.

### California Governor Sets Renewable Energy Requirement

SACRAMENTO, Calif.—California utilities will be required to receive 33% of their electricity from renewable sources such as solar and wind power by 2020 under an executive order signed Tuesday by Gov. Arnold Schwarzenegger. The requirement is stricter than any other state's except Hawaii's, which mandates 40% from renewable sources by 2030.

### DOE To Fund Retrofit, Energy Efficiency Projects

WASHINGTON—The U.S. Department of Energy (DOE) has launched the "Retrofit Ramp-Up" program, funded by more than \$450 million in stimulus money. The first phase of the program will offer up to \$390 million for whole-neighborhood building retrofits. These will be competitively selected projects that demonstrate a sustainable business model for providing energy upgrades for buildings in a specific community. Also, DOE has up to \$64 million intended for local governments to help expand local energy-efficiency efforts in the commercial, residential, transportation, manufacturing and industrial sectors.

### President Seeking LEED Certification for White House

WASHINGTON—President Barack Obama reportedly is seeking LEED certification for the White House. Already, minor steps toward energy conservation and sustainability have been undertaken at the presidential residence, but more extensive changes are forthcoming. A spokesperson for the White House Council on Environmental Quality says the certification efforts will include energy, waste and water systems. Rick Fedrizzi, CEO and president of the U.S. Green Building Council, said "LEED certification of the White House is absolutely possible and viable." The historic nature of the building would make renovating it more challenging than renovating a typical building.

### ASHRAE Infectious Disease Transmission Guidance Available

Because of increasing public concern over infectious disease transmission, particularly of the H1N1 (swine flu) virus, *The HVAC&R Industry* is republishing a link to ASHRAE guidance on the matter. ASHRAE's *Airborne Infectious Diseases Position Document*

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addresses the impact of ventilation on disease transmission and the control strategies that are available for implementation in buildings.

## ASHRAE News

### 2010 ASHRAE Winter Conference To Focus on Hot, Humid Climates

The 2010 ASHRAE Winter Conference in Orlando, Fla. will focus on hot and humid climates, such as that of the Sunshine State. The technical program will feature more than 90 programs and 300 speakers addressing issues such as humidity control applications, sustainable buildings performance, energy conservation and alternative energy practices. The conference will be held Jan. 23–27. The International Air-Conditioning, Heating, Refrigerating Expo (AHR Expo), held in conjunction with the Conference, will be held Jan. 25–27.

## Feature of the Week

### Chilled Beams for Labs: Using Dual Energy Recovery

By Barry M. Barnett, P.E.

This article illustrates the potential energy savings for cooling and heating laboratories by using a design that combines active chilled beams with a ventilation system that uses dual energy recovery. Energy simulations were conducted through an hourly analysis program, using as a model a New Jersey building conceived to provide state-of-the-art, affordable laboratory, office, and production facilities for technology companies.

## Product News

### Duct Wrap From 3M

ST. PAUL, Minn.—3M introduces Fire Barrier Duct Wrap 615+. The light and thin wrap is designed to be fire-resistant to ASTM E 2336 fire test requirements referenced in the 2009 Edition of the International Mechanical Code. It is designed to provide up to two hours of fire protection for grease and air ventilation ducts.

### Dehumidification System From Munters

SELMA, Texas—Munters' DryCool Standard dehumidification system enables users to control temperature and humidity independently. The system is designed to treat 100% makeup air and can work in conjunction with air-conditioning systems and energy recovery ventilators.

### Duct Sealant From Ductmate

CHARLEROI, Pa.—DuctMate Industries offers EverSeal water-based duct sealant. The sealant contains no VOCs, is weather-, UV- and mildew-resistant, and is nonflammable.

## Subscription Management

American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) is an international membership organization founded to advance the arts and sciences of heating, ventilation, air conditioning, refrigeration and related issues.

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