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### DID YOU KNOW?



The establishment of [The Breakthrough Energy Coalition](#) fund was announced earlier this month. This \$2 billion fund will aim to close the cost premium between legacy energy sources and those that reduce carbon emissions.

### MARKET TRENDS



## Indoor Building Environment Has Significant, Positive Impact on Cognitive Function

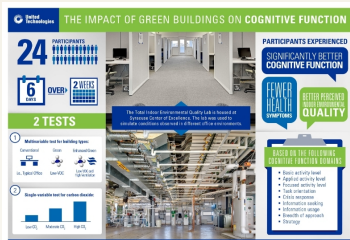


Image used with permission of United Technologies Corp. View more information [here](#).

A recent study, titled "The Impact of Green Buildings on

Greetings,

With the new year just around the corner, how do you plan to save on facility costs at your company through 2016? Start planning and learn more about the many benefits of green, energy efficient equipment by reading the educational articles below.

Contact [Air Temp Heating & Air Conditioning, Inc.](#) today to schedule a consultation and learn how we can help!

## Planning Energy Efficient Upgrades for the Year Ahead

HVAC technology has advanced greatly in the past few decades; investing in the right, energy-efficient equipment can often save as much as 20 percent on cooling costs for equipment that is 10 years old or more.

Below are a few tips from the U.S. Small Business Administration (SBA) to help determine the right equipment to save money on utility costs at your facility:



- Consider implementing efforts to reduce heating and cooling load before selecting equipment. Over sizing equipment increases the capital cost at the time of the installation and the costs of operation of the equipment.
- When selecting a new cooling system, have your HVAC professional provide you a quote and specifications for a standard-efficiency and high-efficiency unit including lifecycle costs. If the lifecycle cost is less on the high-efficiency unit, it's a smarter long-term investment.
- Consider energy recovery ventilation systems to reclaim waste energy from the exhaust air

Cognitive Function," found improved indoor environmental quality positively impacts cognitive performance. In fact, it more than doubled participant's scores on cognitive function tests! Click on the infographic above to find out more.

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**QUESTION:** What is a zero energy building?

**ANSWER:** That is a great question that has caused much confusion over the years. To help define a "zero energy building," the DOE recently published a report detailing a common definition for zero energy buildings, which you may review [here](#). Generally speaking, a zero energy building produces enough renewable energy to meet its own annual energy consumption requirements, thereby reducing the use of non-renewable energy in the building sector.

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stream and use it to condition the incoming fresh air.

- For facilities that have heat-generating processes such as cooking or onsite distributed generation equipment, consider heat recovery as a way to capture free waste heat and use it to offset facility heating and cooling costs.
- For areas such as warehouses and garages, consider installing radiant heating. Radiant heating warms objects instead of the air, and requires less fuel.

[Click here](#) for more helpful tips from the SBA.

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## New Research Quantifies Value of Increased Productivity from Improved IAQ

A new study finds that doubling the ventilation rate in typical office buildings can be reached at an estimated annual energy cost of between \$14 and \$40 per person, resulting in as much as a \$6,500 equivalent in improved productivity per person per year. When energy-efficient technologies are utilized, the study found the energy costs to be even lower, with a minimized environmental impact of approximately 0.03 additional cars on the road per building.

The research, titled "Economic, Environmental and Health Implications of Enhanced Ventilation in Office Buildings," was conducted by the Harvard T.H. Chan School of Public Health's Center for Health and the Global Environment, SUNY Upstate Medical, Syracuse University, and Carrier. [Click here](#) to learn more about the study. Excerpts reprinted with permission from The Air Conditioning, Heating & Refrigeration News, [www.achrnews.com](http://www.achrnews.com).

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