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DID YOU KNOW?



Underwater data centers may be the wave of the future. Microsoft recently tested a prototype on the floor of the Pacific Ocean, where the cool temperatures of deep water act as a natural cooling system and an uninhabitable location cuts down on the high cost of coastal real estate - while still being close to end users.

MARKET TRENDS



Energy Management Systems Market is Growing

Greetings!

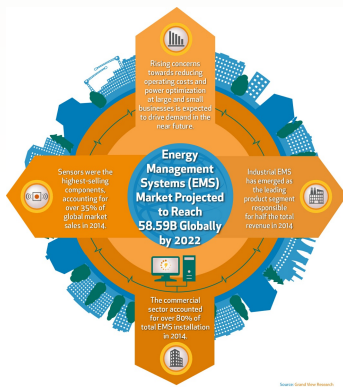
Are you looking for a way to cut operating costs and improve your facility's efficiency? The way you manage your facility combined with the condition of equipment make a significant impact on operating costs and may even impact worker productivity. This month's educational articles help explain why building efficiency matters as well as a new initiative the U.S. Department of Energy has started to help make building efficiency improvements fun and collaborative.

Ready to take the plunge to improve your company's energy efficiency? Contact [Air Temp Heating & Air Conditioning, Inc.](#) today to schedule an appointment and learn how we can help!

Why Building Efficiency Matters

According to the U.S. Department of Energy, the nation spends about \$200 billion every year just to power commercial buildings, another \$200 billion to power industrial facilities, and \$200 billion more on residential homes. By improving building design, materials, equipment and operations, it is possible improve energy efficiency by 20 percent or more. Increased efficiency means savings of more than \$80 billion a year on energy bills nationwide while helping reduce carbon emissions. Here are just a few more ways that building efficiency improves our economy and environment:

- **Cuts Operating Costs** - According to ENERGY STAR, the average commercial



View a larger version of this image, [here](#).

[Grand View Research](#) recently released a market analysis report showing Energy Management Systems (EMS) are growing in popularity around the world. Not only does the report project that the EMS market will reach over 58B globally by 2022 (from 20.5B in 2014), but that this growth will be powered by rising concern in reducing operating costs and optimizing power. Click the image above to learn more details of the report.



building wastes approximately 30 percent of the energy used to run it due to inefficient or unnecessary operation. Simple initiatives like investing in proactive, preventive maintenance and optimizing energy management can make a significant difference in operating costs.

- **Curbs Energy Consumption** - Improving building efficiency puts less pressure on the nation's power grid, which in turn can decrease overflow power needs that may be fulfilled by dirtier energy sources and older power plants.
- **Supports Renewable Energy** - By reducing energy demand on traditional power sources, there is more opportunity to support renewable energy sources such as solar and wind power. As these power sources are dependent on weather, reducing overall energy use permits them to store power for future times when the weather may not be conducive to energy production.

Better Buildings Challenge SWAP

The U.S. Department of Energy (DOE) recently hosted its first Better Building Challenge SWAP - having the energy teams of Whole Foods Market and Hilton Worldwide work together to unveil energy savings opportunities at each other's buildings in San Francisco, California. The DOE hopes to demonstrate that the unique collaboration between Better Buildings Challenge partners is a valuable way to achieve savings through energy efficiency.



Over the three-day swap, both teams walked through the dissimilar environments of a 1.8 million sq. foot hotel and a 25,600 sq. foot grocery store to find

QUESTION: Are there any affordable, easy-to-use tools to help improve my facility's energy performance?

ANSWER: The U.S. Department of Energy's free, web-based [Building Energy Asset Scoring Tool \(Asset Score\)](#) allows building managers to assess the physical and structural energy efficiency of commercial and multifamily residential buildings. The Asset Score generates a simple energy efficiency rating that enables comparison among buildings and identifies opportunities to invest in energy efficiency upgrades.



Air Temp Heating & Air
Conditioning, Inc.
1165 Front Street
Binghamton, NY 13905
Phone: 607-772-8362

6820 Ellicott Drive
East Syracuse, NY
13057
Phone: 315-432-8591

8181 Seneca Turnpike
Clinton, NY 13323
Phone: 315-735-7539
www.airtemp HVAC.com

energy-saving opportunities. The walk-throughs at each property reviewed everything from lighting, HVAC, and energy management systems, to customer and employee engagement. They also included a "night walk" in each facility to uncover additional energy saving opportunities when operations are slowed down for the evening. Is your company ready to try an energy challenge of its own? Then call the experts at [Air Temp Heating & Air Conditioning, Inc.](#) today to set up an appointment and learn how we can improve energy efficiency at your facility.

GREEN INITIATIVES

ENERGY SMART

COMFORT ZONES

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