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**DID YOU KNOW?** 

Minimum energy efficiency standards enacted by the Department of Energy (DOE) in 2014 are projected to save America's businesses and families \$78 billion in electricity bills through 2030, according to the [DOE](#).

**MARKET TRENDS** 

**Internet of Things (IoT)**

**THE INTERNET OF THINGS (IoT):**  
 IoT is the interconnection of components and systems with the internet that enables devices to send and receive data over a network without human involvement.



- According to market-research consultancy Memoori, the overall market for systems in buildings is **EXPECTED TO GROW** from an estimated \$111 billion in 2014 to \$181 billion by 2020.
- IoT GROWTH WILL BE LED BY** the physical-security, lighting-control and fire-detection-and-safety segments.
- HVAC SYSTEMS** that harness the IoT have the ability to predict future comfort and energy demands to proactively adjust to building and occupant needs as well as provide valuable information on building performance.

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

**Q & A** 

**QUESTION:** Will turning up the thermostat make the office warm up faster?

**ANSWER:** A furnace does not produce more heat if you set the temperature higher; it just heats your building for longer periods of time. But forgetting to turn the thermostat back down after the desired temperature is reached

Greetings,

The HVAC market is expected to show substantial growth in the next few years, with promising developments in energy efficiency and system integration leading this expansion. Are you ready to invest in the best, new technology guaranteed to save your company energy and money?

While most see these market increases as a good thing, we at [Mechanical Resource Group](#) must remind ourselves to strive even harder for high quality products and customer service. The increased activity must not compromise our mission of "serving our clients, like we ourselves would like to be served."

**Daikin Industries Announces Expansion**

Over the next several years, Daikin America will build a \$417 million new state-of-the-art business campus for its United States headquarter operations that consolidates the current manufacturing and logistics facilities to a location outside of Houston, Texas.

The obvious advantage is that Daikin will be the first VRV manufacturing facility to be built in the U.S. This translates to better cost basis, better logistics, better client support, and growth in the U.S. manufacturing base.

The new facility will include one of the largest and most technologically advanced HVAC manufacturing facilities in the country. Ductless systems are installed extensively around the world and have gained rapid acceptance in the North American marketplace. Daikin is committed to strong, long-term growth of both ducted and ductless heating and cooling systems in the U.S.

We look forward to this expansion and the growth it brings.

**HVAC in the Internet Era**

Building Automation Systems (BAS), which control and monitor HVAC systems as well as numerous other facility systems, have been vastly improving and are increasingly embedded with computing and digital communications tools that give them the ability to improve energy efficiency and enhance building occupants' comfort and health. The

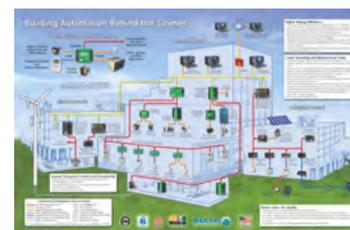


Photo courtesy of [KMC Controls](#)

can make the office uncomfortably warm, which can end up costing more money for no real gain.

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number of integrated Building Automation Systems (BAS) rises with new construction and building retrofits and is expected to reach \$86 billion by 2023, according to a recent report by Navigant, "[Commercial Building Automation Systems](#)."

BAS technology is advancing as a result of better sensor technologies, cheaper and faster communications and improved user interfaces. Manufacturers are beginning to embrace open protocols as well as Internet Protocol, which has opened the market to new companies to provide improved controls solutions. While BASs become more integrated, it is becoming more common for controls of HVAC, lighting, fire and security controls to have the ability to directly communicate with each other. The growth of this market as well as the ever improving technology offerings mean that you, the building owner, can take advantage of improved energy efficiency, occupant comfort and facility management with integrated, user-friendly HVAC solutions that are becoming more effective and economical every year.

GREEN INITIATIVES

ENERGY SMART

COMFORT ZONES