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DID YOU KNOW?

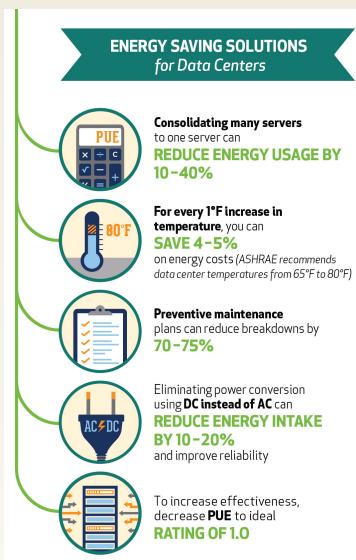


According to [a new report by ACEEE](#), the next generation of energy efficiency programs can save 22% of electricity use in the year 2030.

MARKET TRENDS



Energy Saving Solutions for Data Centers



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

The average commercial office building spends close to one quarter of its annual energy bill powering server rooms and closets. But the Natural Resource Defense Council estimates that if just half of the

Greetings,

October is National Energy Action Month. Learn how you can stop wasting money on lost energy and start taking action with the educational articles below. And then call the professionals at [Air Temp Heating & Air Conditioning, Inc.](#) to launch a plan of action that will improve your facility's energy efficiency!

HVAC Maintenance for Fall

Fall is an opportune time to ensure your company's heating systems are ready to perform at their top efficiency during the cold winter months ahead. Below are five ways to help your company cut costs from energy loss and undue heating expenses.

1. **Change air filters** - Not only is this a necessary step to help maintain healthy indoor air quality, but changing air filters can extend the life of equipment and reduce energy consumption.
2. **Reduce temperature set points** - The more indoor temperatures match outdoor temperatures, the less you spend on heating and cooling costs. In fact, you can lower utility bills by an average of 1% for each degree you lower your thermostat during cool fall and winter months.
3. **Inspect ducts** - Clean ducts and check to see if there are areas where air is escaping.
4. **Make sure leaks are sealed and airways cleared** - Don't waste money on heated air that isn't heating your building. Make sure windows and doors are well sealed and that furniture or equipment do not block vents from circulating air.
5. **Schedule Preventive Maintenance** - A professional inspection and tune-up will guarantee your heating system, boilers and/or furnaces are clean, well-maintained and operating at maximum efficiency. Preventive maintenance checks can also help detect small problems before they turn into big ones during the peak of winter weather.

technical savings potential for data center efficiency they identify in [this paper](#) were realized, then electricity consumption in U.S. data centers could be cut by as much as 40%.

Q & A



QUESTION: What's the difference between a "connected" and a "smart" thermostat?

ANSWER: "Smart" thermostats are connected to the Internet and make automatic adjustment decisions for heating and cooling based on some type of input. "Connected" thermostats are also connected to the Internet but do not make decisions based on external inputs. There is no regulation of these terms, so you must check to learn if a thermostat is truly smart or just connected.

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Three Basics for Data Center Efficiency

Did you know that data centers are now one of the fastest-growing users, and wasters, of electricity in the U.S.?

Below are three basics every facility manager should know to help reduce data center energy consumption and start saving money.



1. **Reduce IT Load** - Though savings potential varies by facility, on average every Watt of savings that can be achieved on the processor level can create approximately 2.84 Watts of savings for the facility.
2. **Manage Airflow** - All airflow management strategies strive to either maximize cooling by supplying cool air directly to equipment or eliminating the mixing and re-circulation of hot equipment exhaust air. There are numerous airflow management devices that, when properly utilized, can make big impacts on airflow and energy efficiency.
3. **Adjust Settings** - The American Society of Heating, Refrigerating and Air-Conditioning Engineers recommends keeping data center temperatures between 65°F to 80°F, but many companies still set them much lower and keep unnecessarily strict controls on humidity. Data centers can save 4% to 5% in energy costs for every 1°F increase in server inlet temperature.