NYC Citywide Administrative Services | Energy Management

ENERGY UPDATE

FALL 2014

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Welcome new Deputy Commissioner Ozgem Ornektekin

DCAS Energy Management is thrilled to welcome Ozgem Ornektekin as our new Chief Energy Management Officer and Deputy Commissioner. Ozgem will be leading the charge to implement the Mayor's new green buildings plan, One City Built to Last, which seeks to reduce greenhouse gas emissions 80% by 2050. Ozgem has extensive experience managing and designing energy conservation projects through the New York Power Authority's statewide energy program, and she worked directly with the Mayor's Office of Long-Term Planning and Sustainability (OLTPS) on the plan to reduce greenhouse gas emissions from City buildings and operations during her tenure at AECOM. At the Department of Education, she developed and executed the agency's strategic sustainability plan for over 1,200 buildings. In her most recent role as Director of the Office of Sustainability at New York University, she developed and executed energy policies and programs to reach the goal of reducing greenhouse gases 50% by 2017. Ozgem will be working closely with our agency partners to help implement ambitious energy efficiency and conservation programs across the city. Welcome Ozgem!

City Agencies Honored at Leadership in Energy Ceremony

On October 22nd DCAS Energy Management hosted the Leadership in Energy awards ceremony. The event was organized to recognize City agencies for excellence in energy efficient building operations and carbon emissions reduction efforts. The Department of Correction was recognized as the winner of the fiscal year 2014 Energy Smart competition and ten Energy Champions were acknowledged on behalf of the City's largest energy-using agencies for their outstanding efforts in energy management. An Energy Manager of the Year award was also awarded to the Department of Correction's two Energy Managers, Blake Boyer and Susan Yang. The event is held annually to acknowledge agencies for excellent work and to encourage the incorporation of energy management best practices and strategies across the City. Thanks to all our agency partners for another successful year!

Leadership in Energy Ceremony

Ron Spalter, CUNY's Deputy Director of Operations gives keynote address

Department of Correction is awarded Energy Smart competition award

Blake Boyer and Susan Yang from the Department of Correction are co-awarded Energy Manager of the Year award

The 2014 Leadership in Energy awards were held at the Borough of Manhattan Community College's Fiterman Hall Art Center

HHC's Energy Champion, Miguel Hamilton, is presented with his award by DCAS Commissioner Stacey Cumberbatch

DCAS's Energy Champion, Joseph Houghton, is presented with his award by DCAS Commissioner Stacey Cumberbatch

Leadership in Energy Ceremony

DEP's Energy Champion, Moein Karim, is presented with his award by DCAS Commissioner Stacey Cumberbatch

DOE's Energy Champion, Ottavio Lamantia, is presented with his award by DCAS Commissioner Stacey Cumberbatch

DPR's Energy Champion, Dan Moon, is presented with his award by DCAS Commissioner Stacey Cumberbatch

DSNY's Energy Champion, Eugene Zimmer, is presented with his award by DCAS Commissioner Stacey Cumberbatch

NYPD's Energy Champion, Nicholas Sacco, is presented with his award by DCAS Commissioner Stacey Cumberbatch

DCAS employees Naeemah Lajoie and Margaret Wiley welcome Leadership in Energy attendees

Bill de Blasio, *Mayor*
Stacey Cumberbatch, *DCAS Commissioner*
Ozgem Ornektekin, *Chief Energy Management Officer*

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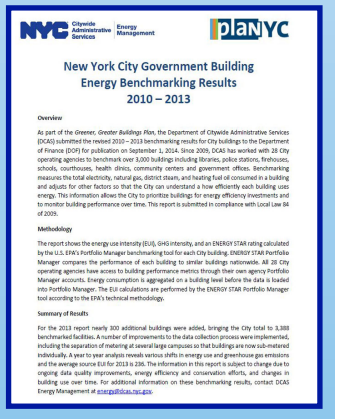
DEM Website!

2013 Benchmarking Report Released



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New York City Government Building Energy Benchmarking Results 2010 – 2013

Overview

As part of the Greener, Greater Buildings Plan, the Department of Citywide Administrative Services (DCAS) submitted the revised 2010 – 2013 benchmarking results for City buildings to the Department of Finance (DOF) for publication on September 1, 2014. Since 2009, DCAS has worked with 28 City operating agencies to benchmark over 3,000 buildings including libraries, police stations, firehouses, schools, courthouses, health clinics, community centers and government offices. Benchmarking measures the total electricity, natural gas, district steam, and heating fuel oil consumed in a building and adjusts for other factors so that the City can understand a how efficiently each building uses energy. This information allows the City to prioritize buildings for energy efficiency investments and to monitor building performance over time. This report is submitted in compliance with Local Law 84 of 2009.

Methodology

The report shows the energy use intensity (EUI), GHG intensity, and an ENERGY STAR rating calculated by the U.S. EPA's Portfolio Manager benchmarking tool for each City building. ENERGY STAR Portfolio Manager compares the performance of each building to similar buildings nationwide. All 28 City operating agencies have access to building performance metrics through their own agency Portfolio Manager accounts. Energy consumption is aggregated on a building level before the data is loaded into Portfolio Manager. The EUI calculations are performed by the ENERGY STAR Portfolio Manager tool according to the EPA's technical methodology.

Summary of Results

For the 2013 report nearly 300 additional buildings were added, bringing the City total to 3,388 benchmarked facilities. A number of improvements to the data collection process were implemented, including the separation of metering at several large campuses so that buildings are now sub-metered individually. A year to year analysis reveals various shifts in energy use and greenhouse gas emissions and the average source EUI for 2013 is 236. The information in this report is subject to change due to ongoing data quality improvements, energy efficiency and conservation efforts, and changes in building use over time. For additional information on these benchmarking results, contact DCAS Energy Management at energy@dcas.nyc.gov.

DCAS Energy Management released the 2013 Benchmarking report. Nearly 300 additional buildings were added, bringing the City total to 3,388 benchmarked facilities. For more info:

http://www.nyc.gov/html/dem/html/municipal/benchmarking.shtml

Project in Focus: Vacancy Sensors at Bronx High School of Science

Through the ACE Program, funding was allocated to the Department of Education (DOE) for lighting vacancy sensor installations at 90 school buildings throughout the City. The Bronx High School of Science is one of the first schools to complete installation. One of the larger schools in the DOE system at over 340,000 square feet, the Bronx High School of Science had 420 sensors and switches installed in 218 rooms. Vacancy sensors are a simple and proven tool to ensure that lighting is not left on when the room is not occupied, typically saving 10% to 45% of total lighting energy use. In the case of this Bronx school, which uses over 2 million kilowatt hours annually, that's a significant savings! The vacancy sensors function by detecting the heat from people moving within an area to determine when the space is occupied. The sensors are also wireless, which makes the project installation cheaper, faster, and less disruptive. The installation of vacancy sensors across 90 schools in all five boroughs, to be completed by summer 2017, is expected to save 17 million kWh per year, reducing the City's greenhouse gas emissions and energy costs by 3,000 metric tons of CO_2 equivalent (MT CO_2e) and over $2 million per year.

Winter Energy-Saving Tip: Unblock your radiators and heat vents

By Wilson Suarez, PE

As winter approaches, many facilities rely on the heat supplied through radiators and vents to warm our offices, classrooms and other facilities. In order to work effectively, radiators and vents must not be blocked by obstructions such as bookcases, shelving units or piles of documents. The heat transfer process that these heaters rely on to supply space heat is slowed down or even annulled if they are not surrounded by ample open space; heating fuel is wasted, fan motors burn, and under/overheating complaints increase as a result. For example, a classroom unit designed to supply 7,000 Btu/h through its box cover will only transfer from 1,000 Btu/h to 5,000 Btu/h or even less when blocked (i.e. radiator box cover + bookshelf + books + plants + etc.), with much lower heat conductivity. The reduced heat output of radiators does not mean less fuel usage—on the contrary, the heating distribution system and boilers will work at peak capacity longer hours to satisfy unachievable room temperatures.

If radiators and vents are being blocked due to space constraints, consider options such as portable bookcases, hanging book shelves or wall-mounted racks. Due to the high cost of energy and maintenance, small changes can lead to big savings. City efforts to maintain, adjust and replace valves, pumps and boilers are negated if terminal heating units are blocked. Let's ensure radiators and vents are unblocked to help optimize efficiency, lower costs and to keep our buildings safe, comfortable and more sustainable.